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In your requests please include the following reference number 78EE117C99-1489109632

Contents

1.1 libjpeg 6b
- 1.1.1 Notifications
- 1.1.2 Available under license

1.2 boost 1_52_0
- 1.2.1 Available under license

1.3 guava 25.0-jre
- 1.3.1 Available under license

1.4 logback-core 1.1.7
- 1.4.1 Available under license

1.5 openssl 1.0.2j
- 1.5.1 Notifications
- 1.5.2 Available under license

1.6 animal-sniffer-annotation 1.14
- 1.6.1 Available under license

1.7 httpcomponents-core 4.3.2
- 1.7.1 Available under license

1.8 j2objc-annotations 1.1
- 1.8.1 Available under license

1.9 gson 2.8.2
- 1.9.1 Available under license

1.10 python 3.6.9
- 1.10.1 Available under license

1.11 spf13-pflag 1.0.3
- 1.11.1 Available under license

1.12 zlib 1.2.8
- 1.12.1 Available under license

1.13 ucf 3.0038
1.13.1 Available under license
1.14 okio 1.15.0
1.15 init-system-helpers 1.51
1.15.1 Available under license
1.16 ca-certificates 20180409
1.16.1 Available under license
1.17 commons-codec 1.6
1.17.1 Available under license
1.18 jaxb-core 2.2.11
1.18.1 Available under license
1.19 liberror-perl 0.17025-1
1.19.1 Available under license
1.20 debconf 1.5.66
1.20.1 Available under license
1.21 saaj 1.5.1
1.21.1 Available under license
1.22 lcms 2.9
1.22.1 Available under license
1.23 c-ares 1.14.0
1.23.1 Available under license
1.24 xerces-j 2.7.1
1.24.1 Available under license
1.25 afero 1.1.2
1.25.1 Available under license
1.26 jwalterweatherman 1.0.0
1.26.1 Available under license
1.27 ghodss-yaml 1.0.0
1.27.1 Available under license
1.28 cast 1.3.0
1.28.1 Available under license
1.29 httpcomponents-client 4.3.2
1.29.1 Available under license
1.30 libpng 1.6.35
1.30.1 Available under license
1.31 libcap 2.25-1.2
1.31.1 Available under license
1.32 python 2.7.17
1.32.1 Available under license

1.33 giflib 5.2.1
1.33.1 Available under license
1.34 gorilla 1.7.3
1.34.1 Available under license
1.35 pkg-sftp 1.10.1
1.35.1 Available under license
1.36 cglib 3.2
1.36.1 Available under license
1.37 openorb master
1.37.1 Available under license
1.38 capnslog 0.0.0-20180928190104-399ea9e2e55f
1.38.1 Available under license
1.39 free-type 2.10.1
1.39.1 Available under license
1.40 flowrate 0.0.0-20140419014527-cca7078d478f
1.40.1 Available under license
1.41 slf4j 1.7.29
1.41.1 Available under license
1.42 snake-yaml 1.24
1.42.1 Available under license
1.43 go-grpc-prometheus 1.2.0
1.43.1 Available under license
1.44 openssl 1.0.2n
1.44.1 Available under license
1.45 gorilla 1.7.4
1.45.1 Available under license
1.46 gopsutil 2.20.5+incompatible
1.46.1 Available under license
1.47 etcd-raft 3.3.15+incompatible
1.47.1 Available under license
1.48 gorilla 1.2.0
1.48.1 Available under license
1.49 spring-framework 3.2.17.RELEASE
1.49.1 Available under license
1.50 jackson-databind 2.10.0
1.50.1 Available under license
1.51 jackson 2.10.0
1.51.1 Available under license
1.52 fdisk 2.31.1

1.52.1 Available under license
1.53 go-restful 0.0.0-20170410110728-ff4f55a20633
1.53.1 Available under license
1.54 logrus 1.7.0
1.54.1 Available under license
1.55 properties 1.8.4
1.55.1 Available under license
1.56 go-toml 1.8.1
1.56.1 Available under license
1.57 error_prone_annotations 2.1.3
1.57.1 Available under license
1.58 queue 1.1.0
1.58.1 Available under license
1.59 viper 1.7.1
1.59.1 Available under license
1.60 gopacket 1.1.19
1.60.1 Available under license
1.61 okhttp 3.12.6
1.61.1 Available under license
1.62 init-system-helpers 1.57
1.62.1 Available under license
1.63 spring-beans 3.2.17.RELEASE
1.63.1 Available under license
1.64 grpc-go 1.30.0
1.64.1 Available under license
1.65 zap 1.15.0
1.65.1 Available under license
1.66 commons-logging 1.1.3
1.66.1 Available under license
1.67 fonts-dejavu 2.37-1
1.67.1 Available under license
1.68 commons-lang3 3.7
1.68.1 Available under license
1.69 xml-commons-resolver 1.2
1.69.1 Available under license
1.70 asm 4.1
1.70.1 Available under license
1.71 iconv 2.31
1.71.1 Available under license

1.72 gopsutil 3.20.12+incompatible
1.72.1 Available under license
1.73 zap 1.16.0
1.73.1 Available under license
1.74 python-meld3 1.0.2-2
1.74.1 Available under license
1.75 iconv 2.27
1.75.1 Available under license
1.76 debconf 1.5.73
1.76.1 Available under license
1.77 autotools-dev 20180224.1
1.77.1 Available under license
1.78 man-pages 4.15-1
1.78.1 Available under license
1.79 inf 0.9.0
1.79.1 Available under license
1.80 spring-context 5.0.2.RELEASE
1.80.1 Available under license
1.81 openjdk 1.8.0u192
1.81.1 Available under license
1.82 ubuntu-keyring 2018.09.18.1~18.04.0
1.82.1 Available under license
1.83 man-pages 5.05-1
1.83.1 Available under license
1.84 python-setuptools 39.0.1-2
1.84.1 Available under license
1.85 x-time-rate 0.0.0-20191024005414-555d28b269f0
1.85.1 Available under license
1.86 gopsutil 2.20.6+incompatible
1.86.1 Available under license
1.87 pkg-sftp 1.12.0
1.87.1 Available under license
1.88 x-text 0.3.5
1.88.1 Available under license
1.89 x-oauth2 v0.0.0-20190402181905-9f3314589c9a
1.89.1 Available under license
1.90 istack-commons 2.21
1.90.1 Available under license
1.91 ubuntu-keyring 2020.02.11.4

1.91.1 Available under license
1.92 go-yaml v2.2.1
1.92.1 Available under license
1.93 x-crypto 0.0.0-20200622213623-75b288015ac9
1.93.1 Available under license
1.94 x-text 0.3.6
1.94.1 Available under license
1.95 x-crypto 0.0.0-20201221181555-eec23a3978ad
1.95.1 Available under license
1.96 google-protobuf 3.12.2
1.96.1 Available under license
1.97 ubuntu-keyring 2018.09.18.1~18.04.2
1.97.1 Available under license
1.98 kubernetes-apimachinery v0.0.0-20190612205821-1799e75a0719
1.98.1 Available under license
1.99 gettext-go v0.0.0-20160711120539-c6fed771bfd5
1.99.1 Available under license
1.100 json-cpp 1.6.5
1.100.1 Available under license
1.101 gofuzz 0.0.0-20170612174753-24818f796faf
1.101.1 Available under license
1.102 activation 1.1
1.102.1 Available under license
1.103 cpprest 2.10.2
1.103.1 Available under license
1.104 perks 1.0.1
1.104.1 Available under license
1.105 gogoprotobuf 1.3.1
1.105.1 Available under license
1.106 jcmturner-rpc 1.1.0
1.106.1 Available under license
1.107 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492
1.107.1 Available under license
1.108 go.uber.org/atomi 1.6.0
1.108.1 Available under license
1.109 go-uber-org-multierr 1.5.0
1.109.1 Available under license
1.110 groupcache 0.0.0-20200121045136-8c9f03a8e57e
1.110.1 Available under license

1.111 golang-genproto 0.0.0-20200526211855-cb27e3aa2013
1.111.1 Available under license
1.112 prometheus-common 0.9.1
1.112.1 Available under license
1.113 modern-go-reflect2 1.0.1
1.113.1 Available under license
1.114 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd
1.114.1 Available under license
1.115 protobuf 1.25.0
1.115.1 Available under license
1.116 fwd 1.1.1
1.116.1 Available under license
1.117 go-difflib 1.0.0
1.117.1 Available under license
1.118 properties 1.8.5
1.118.1 Available under license
1.119 soheilhy-cmux 0.1.5
1.119.1 Available under license
1.120 x-time-rate 0.0.0-20200416051211-89c76fbcd5d1
1.120.1 Available under license
1.121 x-sys 0.0.0-20210615035016-665e8c7367d1
1.121.1 Available under license
1.122 netns 0.0.0-20191106174202-0a2b9b5464df
1.122.1 Available under license
1.123 gogoprotobuf 1.3.2
1.123.1 Available under license
1.124 grpc-go 1.38.0
1.124.1 Available under license
1.125 zap 1.18.1
1.125.1 Available under license
1.126 josharian-intern 1.0.0
1.126.1 Available under license
1.127 viper 1.8.1
1.127.1 Available under license
1.128 prometheus-procfs 0.6.0
1.128.1 Available under license
1.129 json-iterator-go 1.1.11
1.129.1 Available under license
1.130 prometheus-common 0.29.0

1.130.1 Available under license
1.131 go.uber.org/atomi 1.8.0
1.131.1 Available under license
1.132 openzipkin-zipkin-go 0.2.5
1.132.1 Available under license
1.133 numcpus 0.2.2
1.133.1 Available under license
1.134 x-crypto 0.0.0-20210616213533-5ff15b29337e
1.134.1 Available under license
1.135 x-term 0.0.0-20201126162022-7de9c90e9dd1
1.135.1 Available under license
1.136 grpc-ecosystem-go-grpc-middleware 1.3.0
1.136.1 Available under license
1.137 golang-genproto 0.0.0-20210602131652-f16073e35f0c
1.137.1 Available under license
1.138 x-sys 0.0.0-20210423082822-04245dca01da
1.138.1 Available under license
1.139 x-sync 0.0.0-20210220032951-036812b2e83c
1.139.1 Available under license
1.140 zap 1.19.0
1.140.1 Available under license
1.141 prometheus-common 0.26.0
1.141.1 Available under license
1.142 google-go-cmp 0.5.5
1.142.1 Available under license
1.143 spf13-pflag 1.0.5
1.143.1 Available under license
1.144 golang-glog 0.0.0-20160126235308-23def4e6c14b
1.144.1 Available under license
1.145 prometheus-procfs 0.2.0
1.145.1 Available under license
1.146 grpc-ecosystem-go-grpc-middleware 1.2.2
1.146.1 Available under license
1.147 btree 1.0.0
1.147.1 Available under license
1.148 prometheus-common 0.15.0
1.148.1 Available under license
1.149 cidranger 1.0.2
1.149.1 Available under license

1.150 mitchellh-mapstructure 1.1.2

1.150.1 Available under license

1.151 grpc-ecosystem-go-grpc-middleware 1.2.0

1.151.1 Available under license

1.152 protobuf 1.26.0

1.152.1 Available under license

1.153 x-crypto 0.0.0-20210421170649-83a5a9bb288b

1.153.1 Available under license

1.154 golang-genproto 0.0.0-20190819201941-24fa4b261c55

1.154.1 Available under license

1.155 go-sysconf 0.3.5

1.155.1 Available under license

1.156 go-asn1-ber-asn1-ber 1.5.1

1.156.1 Available under license

1.157 go-test-deep 1.0.7

1.157.1 Available under license

1.158 x-sys 0.0.0-20210124154548-22da62e12c0c

1.158.1 Available under license

1.159 go-ldap-ldap 3.2.4

1.159.1 Available under license

1.160 x-sys 0.0.0-20210510120138-977fb7262007

1.160.1 Available under license

1.161 k-sone-critbitgo 1.3.1-0.20191024122315-48c9e1530131

1.161.1 Available under license

1.162 etcd 3.3.15+incompatible

1.162.1 Available under license

1.163 go-errors-errors 1.2.0

1.163.1 Available under license

1.164 prometheus-common 0.18.0

1.164.1 Available under license

1.165 gopkg-in/ldap 2.5.1

1.165.1 Available under license

1.166 flag 1.7.4-pre

1.166.1 Available under license

1.167 etcd 3.3.25+incompatible

1.167.1 Available under license

1.168 golang-glog 0.0.0-20210429001901-424d2337a529

1.168.1 Available under license

1.169 gopkg.in-asn1-ber 1.0.0-20181015200546-f715ec2f112d

1.169.1 Available under license

1.170 go-errors-errors 1.0.2

1.170.1 Available under license

1.171 go-asn1-ber-asn1-ber 1.5.3

1.171.1 Available under license

1.172 etcd 3.3.22+incompatible

1.172.1 Available under license

1.173 fiorix-go-diameter 3.0.2+incompatible

1.173.1 Available under license

1.174 ishidawataru-sctp 0.0.0-20210226210310-f2269e66cdee

1.174.1 Available under license

1.175 grpc-ecosystem-go-grpc-middleware 1.0.1-0.20190118093823-f849b5445de4

1.175.1 Available under license

1.176 openzipkin-contrib-zipkin-go-opentracing 0.4.5

1.176.1 Available under license

1.177 go-bgp 0.0.0-20210302053313-5960e8ebd1e3

1.177.1 Available under license

1.178 go-ldap-ldap 3.3.0

1.178.1 Available under license

1.179 x-net 0.0.0-20210119194325-5f4716e94777

1.179.1 Available under license

1.180 trylock 0.0.0-20191027065348-ff7e133a5c54

1.180.1 Available under license

1.181 eapache-channels 1.1.0

1.181.1 Available under license

1.182 x-sys 0.0.0-20210630005230-0f9fa26af87c

1.182.1 Available under license

1.183 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

1.183.1 Available under license

1.184 goleak 1.1.10

1.184.1 Available under license

1.185 prometheus-procfs 0.0.11

1.185.1 Available under license

1.186 fsnotify 1.4.9

1.186.1 Available under license

1.187 testify 1.7.0

1.187.1 Available under license

1.188 x-net 0.0.0-20210813160813-60bc85c4be6d

1.188.1 Available under license

1.189 fsnotify 1.4.7

1.189.1 Available under license

1.190 kr-text 0.2.0

1.190.1 Available under license

1.191 ishidawataru-sctp 0.0.0-20191218070446-00ab2ac2db07

1.191.1 Available under license

1.192 gotenv 1.2.0

1.192.1 Available under license

1.193 gopkg.in-ini 1.51.0

1.193.1 Available under license

1.194 jwt-go 3.2.0+incompatible

1.194.1 Available under license

1.195 golang-snappy 0.0.1

1.195.1 Available under license

1.196 miekg-dns 1.1.38

1.196.1 Available under license

1.197 mitchellh-mapstructure 1.4.1

1.197.1 Available under license

1.198 golang-snappy 0.0.4

1.198.1 Available under license

1.199 clockwork 0.2.2

1.199.1 Available under license

1.200 go-systemd 0.0.0-20190321100706-95778dfbb74e

1.200.1 Available under license

1.201 gopkg.in-yaml 2.3.0

1.201.1 Available under license

1.202 grpc-ecosystem-go-grpc-middleware 1.0.0

1.202.1 Available under license

1.203 hcl 1.0.0

1.203.1 Available under license

1.204 tdb 1.45.5

1.204.1 Available under license

1.205 tdb 1.44.1

1.205.1 Available under license

1.206 niemeyer-pretty 0.0.0-20200227124842-a10e7caefd8e

1.206.1 Available under license

1.207 roaring 0.5.5

1.207.1 Available under license

1.208 netns 0.0.0-20170707011535-86bef332bfc3

1.208.1 Available under license

1.209 go-ping-ping 0.0.0-20210506233800-ff8be3320020

1.209.1 Available under license

1.210 prometheus-procfs 0.4.0

1.210.1 Available under license

1.211 ishidawataru-sctp 0.0.0-20210204083202-2bdd86bb9a4d

1.211.1 Available under license

1.212 x-sys 0.0.0-20210423185535-09eb48e85fd7

1.212.1 Available under license

1.213 go-unsnap-stream 0.0.0-20210130063903-47dfef350d96

1.213.1 Available under license

1.214 go-errors-errors 1.1.1

1.214.1 Available under license

1.215 go-bgp 2.19.0+incompatible

1.215.1 Available under license

1.216 yerden-go-util 1.1.3

1.216.1 Available under license

1.217 evanphx-json-patch 0.5.2

1.217.1 Available under license

1.218 go-farm 0.0.0-20200201041132-a6ae2369ad13

1.218.1 Available under license

1.219 k-sone-critbitgo 1.4.0

1.219.1 Available under license

1.220 netns 0.0.0-20210104183010-2eb08e3e575f

1.220.1 Available under license

1.221 prometheus-procfs 0.5.0

1.221.1 Available under license

1.222 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

1.222.1 Available under license

1.223 abbot-go-http-auth 0.4.0

1.223.1 Available under license

1.224 prometheus-procfs 0.7.2

1.224.1 Available under license

1.225 smartystreets-goconvey 1.6.4

1.225.1 Available under license

1.226 pkg-sftp 1.13.4

1.226.1 Available under license

1.227 ishidawataru-sctp 0.0.0-20210707070123-9a39160e9062

1.227.1 Available under license

1.228 kubernetes-klog 0.3.1
1.228.1 Available under license
1.229 x-crypto 0.0.0-20210812204632-0ba0e8f03122
1.229.1 Available under license
1.230 xiang90-probing 0.0.0-20190116061207-43a291ad63a2
1.230.1 Available under license
1.231 grpc-gateway 1.16.0
1.231.1 Available under license
1.232 gls 4.20.0+incompatible
1.232.1 Available under license
1.233 libzip 1.7.3
1.233.1 Available under license
1.234 jackson-xc 2.10.0
1.234.1 Available under license
1.235 properties 1.8.1
1.235.1 Available under license
1.236 libsanitizer 11.2.0
1.236.1 Available under license
1.237 log4j-api 2.17.1
1.237.1 Available under license
1.238 apache-log4j 2.17.1
1.238.1 Available under license
1.239 valyala-histogram 1.1.2
1.239.1 Available under license
1.240 valyala-fastrand 1.0.0
1.240.1 Available under license
1.241 victoriametrics-metrics 1.17.2
1.241.1 Available under license
1.242 kubernetes-apiserver 0.0.0
1.242.1 Available under license
1.243 jackson-annotations 2.10.0
1.243.1 Available under license
1.244 generex 1.0.2
1.244.1 Available under license
1.245 zjsonpatch 0.3.0
1.245.1 Available under license
1.246 logging-interceptor 3.12.6
1.246.1 Available under license
1.247 kubernetes-model-common 4.6.3

1.247.1 Available under license

1.248 kubernetes-client 4.6.3

1.248.1 Available under license

1.249 kubernetes-model 4.6.3

1.249.1 Available under license

1.250 jackson-dataformat-yaml 2.10.0

1.250.1 Available under license

1.251 diskv 2.0.1+incompatible

1.251.1 Available under license

1.252 openjdk-jre 1.8.0u192

1.252.1 Available under license

1.253 inet.af-netaddr 0.0.0-20211027220019-c74959edd3b6

1.253.1 Available under license

1.254 unsafe-assume-no-moving-gc 0.0.0-20211027215541-db492cf91b37

1.254.1 Available under license

1.255 benbjohnson-clock 1.1.0

1.255.1 Available under license

1.256 go-ldap-ldap 3.4.2

1.256.1 Available under license

1.257 assertions 0.0.0-20180927180507-b2de0cb4f26d

1.257.1 Available under license

1.258 grpc-examples 0.1.0

1.258.1 Available under license

1.259 goprotobuf 1.4.2

1.259.1 Available under license

1.260 pkg-sftp 1.13.2

1.260.1 Available under license

1.261 cast 1.4.0

1.261.1 Available under license

1.262 afero 1.5.1

1.262.1 Available under license

1.263 pkg-sftp 1.13.1

1.263.1 Available under license

1.264 purell 1.1.1

1.264.1 Available under license

1.265 xxhash 1.1.0

1.265.1 Available under license

1.266 jwalterweatherman 1.1.0

1.266.1 Available under license

1.267 afero 1.6.0

1.267.1 Available under license

1.268 libnsl 2.31

1.268.1 Available under license

1.269 safestring v1.0.0

1.269.1 Available under license

1.270 ca-certificates 20211016~18.04.1

1.270.1 Available under license

1.271 stackexchange-wmi 0.0.0-20190523213315-cbe66965904d

1.271.1 Available under license

1.272 go-ole 1.2.5

1.272.1 Available under license

1.273 x-lint 0.0.0-20201208152925-83fdc39ff7b5

1.273.1 Available under license

1.274 nmcclain-ldap 0.0.0-20191021200707-3b3b69a7e9e3

1.274.1 Available under license

1.275 nmcclain-asn1-ber 0.0.0-20170104154839-2661553a0484

1.275.1 Available under license

1.276 gopherjs 0.0.0-20181017120253-0766667cb4d1

1.276.1 Available under license

1.277 x-tools 0.1.4

1.277.1 Available under license

1.278 netlink 1.1.1-0.20210330154013-f5de75959ad5

1.278.1 Available under license

1.279 golang 1.17.8

1.279.1 Available under license

1.280 golang 1.12.5

1.280.1 Available under license

1.281 mergo 0.3.5

1.281.1 Available under license

1.282 golang 1.7.3

1.282.1 Available under license

1.283 coreos-etcd 3.3.25+incompatible

1.283.1 Available under license

1.284 go-bgp 0.0.0-20211116133055-8d7916080293

1.284.1 Available under license

1.285 gopkg.in-check 1.0.0-20200227125254-8fa46927fb4f

1.285.1 Available under license

1.286 openssl 1.1.1q

1.286.1 Available under license
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1.593.1 Available under license

1.594 attr 2.4.47-2build1

1.594.1 Available under license

1.595 isl 0.19-1

1.595.1 Available under license

1.596 bash 5.0-6ubuntu1.2

1.596.1 Available under license

1.597 libxcb 1.13-1

1.597.1 Available under license

1.598 libpkit 0.23.9-2

1.598.1 Available under license

1.599 python 2.7.15~rc1-1

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1.600 libunistring 0.9.10-2

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1.601 heimdal 7.7.0+dfsg-1ubuntu1
1.601.1 Available under license
1.602 openssl 1.0.2n-1ubuntu5.8
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1.603 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.4
1.603.1 Available under license
1.604 libseccomp 2.5.1-1ubuntu1~18.04.2
1.604.1 Available under license
1.605 gnupg 2.2.4-1ubuntu1.4
1.605.1 Available under license
1.606 base-files 10.1ubuntu2.6
1.606.1 Available under license
1.607 fontconfig 2.12.6-0ubuntu2
1.607.1 Available under license
1.608 bzip2 1.0.6-8.1ubuntu0.2
1.608.1 Available under license
1.609 pam 1.3.1-5ubuntu4.3
1.609.1 Available under license
1.610 apt 1.6.8
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1.611 libcap-ng 0.7.9-2.1build1
1.611.1 Available under license
1.612 sysv-init 2.88dsf-59.10ubuntu1
1.612.1 Available under license
1.613 libseccomp 2.3.1-2.1ubuntu4
1.613.1 Available under license
1.614 npth 1.5-3
1.614.1 Available under license
1.615 util-linux 2.31.1-0.4ubuntu3.7
1.615.1 Available under license
1.616 glibc 2.27-3ubuntu1.6
1.616.1 Available under license
1.617 icu 60.2-3ubuntu3.2
1.617.1 Available under license
1.618 dpkg 1.19.0.5ubuntu2.3
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1.619 dpkg 1.19.0.5ubuntu2.4
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1.620 heimdal 7.5.0+dfsg-1

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1.621 berkeley-db 5.3.28-13.1ubuntu1.1

1.621.1 Available under license

1.622 base-passwd 3.5.47

1.622.1 Available under license

1.623 vim 8.0.1453-1ubuntu1.8

1.624 xz 5.2.2-1.3

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1.625 ncurses 6.1-1ubuntu1.18.04

1.625.1 Available under license

1.626 perl 5.26.1-6ubuntu0.3

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1.627 java-common 0.63ubuntu1~02

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1.628 netcat-openbsd 1.206-1ubuntu1

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1.629 shadow 4.5-1ubuntu2

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1.630 shadow 4.5-1ubuntu2.3

1.630.1 Available under license

1.631 adduser 3.116ubuntu1

1.631.1 Available under license

1.632 base-files 11ubuntu5.5

1.632.1 Available under license

1.633 bzip2 1.0.8-2

1.633.1 Available under license

1.634 aide 0.16-3ubuntu0.1

1.634.1 Available under license

1.635 gnupg 2.2.4-1ubuntu1.6

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1.636 gnutls 3.5.18-1ubuntu1.6

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1.637 gnutls 3.6.13-2ubuntu1.7

1.637.1 Available under license

1.638 dash 0.5.8-2.10

1.638.1 Available under license

1.639 autoconf 2.69-10.ph4

1.639.1 Available under license

1.640 sqlite 3.22.0-1ubuntu0.1

1.640.1 Available under license

1.641 gmp 6.2.0+dfsg-4

1.641.1 Available under license

1.642 zstd 1.3.3+dfsg-2ubuntu1.2

1.642.1 Available under license

1.643 util-linux 2.31.1-0.4ubuntu3.3

1.643.1 Available under license

1.644 audit 2.8.2-1ubuntu1

1.644.1 Available under license

1.645 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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1.646 e2fsprogs 1.44.1-1ubuntu1.4

1.646.1 Available under license

1.647 net-tools 1.60+git20161116.90da8a0-1ubuntu1

1.647.1 Available under license

1.648 apt 2.0.9

1.648.1 Available under license

1.649 m4 1.4.18-1

1.649.1 Available under license

1.650 cpp 8.2.0-1ubuntu2~18.04

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1.651 readline 7.0-3

1.651.1 Available under license

1.652 zlib 1.2.11.dfsg-0ubuntu2.2

1.652.1 Available under license

1.653 gzip 1.10-0ubuntu4.1

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1.654 curl 7.58.0-2ubuntu3.20

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1.655 selinux 2.7-2build2

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1.656 libx11 1.6.4-3ubuntu0.1

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1.657 keyutils 1.5.9-9.2ubuntu2.1

1.657.1 Available under license

1.658 systemd 245.4-4ubuntu3.16

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1.659 pcre 8.39-12ubuntu0.1

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1.660 grep 3.4-1

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1.661 openssl 1.0.2n-1ubuntu5.2

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1.662 libsigsegv 2.12-1

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1.663 iproute 4.15.0-2ubuntu1.3

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1.668 curl 7.68.0-1ubuntu2.11

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1.669 cdebconf 0.213ubuntu1

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1.670 lsb 9.20170808ubuntu1

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1.671 libapache2-mod-authnz-external 3.3.2-0.1

1.671.1 Available under license

1.672 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

1.672.1 Available under license

1.673 libsemanage-common 2.7-2build2

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1.674 free-type 2.8.1-2ubuntu2

1.674.1 Available under license

1.675 go4.org-intern 0.0.0-20211027215823-ae77deb06f29

1.675.1 Available under license

1.676 pkg-config 0.29.1-0ubuntu2

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1.677 dpkg 1.19.0.5ubuntu2.1

1.677.1 Available under license

1.678 lz4 0.0~r131-2ubuntu3

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1.679 nghttp2 1.30.0-1ubuntu1

1.679.1 Available under license
1.680 curl 7.58.0-2ubuntu3.16
1.680.1 Available under license
1.681 component-base 0.0.0
1.681.1 Available under license

1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into
larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION
 ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal
documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding

variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the
hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments
in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

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please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a
program, you
must acknowledge somewhere in your documentation that
you've used the IJG code.

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unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed,
 then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

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it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of
 L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.

The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by
patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic
 coding cannot
legally be used without obtaining one or more licenses. For this reason,
support for arithmetic coding has been removed from the free JPEG software.
(Since arithmetic coding provides only a marginal gain over the unpatented
Huffman mode, it is unlikely that very many implementations will support it.)
So far as we are aware, there are no patent restrictions on the remaining
code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
   "The Graphics Interchange Format(c) is the Copyright property of
   CompuServe Incorporated. GIF(sm) is a Service Mark property of
   CompuServe Incorporated."

REFERENCES
==========

We
 highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
 Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
 Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more

leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The
JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still
Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text

version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
==========

The "official" archive site for this software is ftp.uu.net (Internet
address 192.48.96.9). The most recent released version can always be found
there in directory graphics/jpeg. This particular version will be archived
as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't
have
direct Internet access, UUNET's archives are also available via UUCP; contact
help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only
ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from
the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or
on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12
"JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net
release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of
general information about JPEG. It is updated constantly and therefore is
not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers
archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body
send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
==========

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS
==========

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.
SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should
be able to read the most common variant of SPIFF. SPIFF has some technical
advantages over JFIF, but its major claim to fame is simply that it is an
official standard rather than an informal one. At this point it is unclear
whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we
have not decided whether it should become our default output format or not.
(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.
We have little or no sympathy for the existence of these formats. Indeed,
one of the original reasons for developing this free software was to help
force convergence on common, open format standards for JPEG files. Don't
use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality.
The current method for scaling the quantization tables is known not to be
very good at low Q values. We also intend to investigate block boundary
smoothing, "poor man's variable quantization", and other means of improving
quality-vs-file-size performance without
sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG
Part 3 extensions --- principally, variable quantization and the SPIFF file
format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.2 boost 1_52_0

1.2.1 Available under license :

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

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1.5 openssl 1.0.2j

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1.6 animal-sniffer-annotation 1.14

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```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1" />
<link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/66" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="MobileOptimized" content="width" />
 <title>The MIT License | Open Source Initiative</title>
 <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
 media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
<![endif]-->


 <!-- HTML5 element support for IE6-8 -->
 <!--[if lt IE 9]>
   <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
```

```
 <![endif]-->
 <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
 src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
   if($(this).scrollTop() != 0) {
    $("#toTop").fadeIn();
   } else {
    $("#toTop").fadeOut();
   }
  });

  $("#toTop").click(function() {
   $("body,html").animate({scrollTop:0},800);
  });

  });
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD3l9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA","js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/super
fish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/supposition.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/modules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/
```

bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bootstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/mit-license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><!]]>
</script>
</head>
<body
 class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >

  Skip to main content

<!-- #header-top -->

    <!-- #header-top-inside -->

        <!-- #header-top-left -->

  <div
 id="block-menu-secondary-menu" class="block block-menu clearfix">

  <ul class="menu"><li class="first leaf">Home
<li class="leaf">From the Board
<li class="leaf">Contact
<li class="last leaf">Donate

        <!-- EOF:#header-top-left -->

```
                <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">
                <div class="region region-header-top-right">
  <div id="block-search-form" class="block block-search clearfix">


 <div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form>  </div>
</div>
 </div>
            </div>
            <!-- EOF:#header-top-right -->
          </div>

          </div>
      </div>
      <!-- EOF: #header-top-inside
 -->

  </div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">

      <!-- #header-inside -->
      <div id="header-inside" class="clearfix">
        <div class="row">
            <div class="col-md-8">
```

```
                    <div id="logo">
            <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
            </div>

                    <div id="site-name">
            <a href="/" title="Home">Open Source Initiative</a>
            </div>


            </div>

            <div class="col-md-4">


            </div>
          </div>
      </div>
      <!-- EOF: #header-inside -->

  </div>
</header>
<!-- EOF:
 #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

      <!-- #main-navigation-inside -->
      <div id="main-navigation-inside" class="clearfix">
         <div class="row">
            <div class="col-md-12">
               <nav role="navigation">
                                    <div class="region region-navigation">
  <div id="block-superfish-1" class="block block-superfish clearfix">


 <div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History
 of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-
total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors"
class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board -
```

Annotated
<li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Minutes
<li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Organization & Operations
<li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children">Articles
of Incorporation
<li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children">Board Elections
<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws
<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest
<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo
<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines
<li id="menu-183-1" class="last even sf-item-2 sf-depth-3
sf-no-children">Logo Guidelines
<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service
<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses
<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition
<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explationations and rationale interspersed."
class="sf-depth-3">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report"
title="License Proliferation Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last
even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li

id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates"
title="Home page for OSI's membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page
for our various community members." class="sf-depth-1 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy
on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a
href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography
<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business
<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups
<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2

sf-no-children">Open Source Education
<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events
<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters
<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events

</nav>

<!-- EOF: #main-navigation-inside -->

<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page"
class="clearfix">

<!-- #main-content -->

<!-- #messages-console -->
<!-- EOF: #messages-console -->

<section class="col-md-12">

<!-- #main -->

<!-- EOF:#content-wrapper -->

<h1 class="page-title">The MIT License</h1>

<!-- #tabs -->

<!-- EOF: #tabs -->

<!-- #action links -->
<!-- EOF: #action links -->

<article id="node-66" class="node node-page clearfix">

SPDX short identifier: MIT

<button onclick="myFunction()">Further resources on the MIT License</button>

<script>
<!--//--><![CDATA[// ><!--

function myFunction() {
var x;
if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
x = "
 The following are other community resources that may be helpful:

<a href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal
<a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List
<a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List
<a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff
<a href=choosealicense.com>Choosealicense";
} else {

```
      x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script></div>
```

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THE SOFTWARE.

```
</article>  </div>
</div>
 </div>

                </div>
                <!-- EOF:#content-wrapper -->

              </div>
              <!-- EOF:#main -->

            </section>
```

```
        </div>

      </div>
  </div>
  <!-- EOF:#main-content -->


</div>
<!-- EOF:#page -->


<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">


                              <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">


 <div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin:
 0pt auto; display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;" /></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/ccby.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>
```

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><!]]>
</script>

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   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script>

                <!-- EOF: #subfooter-left -->

        <!-- EOF: #subfooter-inside -->

</footer>
<!-- EOF:#subfooter -->
</body>
</html>

1.7 httpcomponents-core 4.3.2

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1.8 j2objc-annotations 1.1

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*/

package java.security;

import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
  public Permission(String
 name) { }

  public final String getName() { return null; }

  public void checkGuard(Object obj) throws SecurityException { }

  public PermissionCollection newPermissionCollection() {
     return new AllPermissionCollection();
  }

  public abstract String getActions();

  public abstract boolean implies(Permission permission);
}
```

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see

https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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History of the software
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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All Python releases are Open Source (see https://opensource.org/ for the Open
Source Definition). Historically, most, but not all, Python releases have also
been GPL-compatible; the table below summarizes the various releases.

+----------------+--------------+------------+------------+-----------------+
| Release | Derived from | Year | Owner | GPL compatible? |

+================+==============+============+============+=================+
| 0.9.0 thru 1.2 | n/a | 1991-1995 | CWI | yes |
+----------------+--------------+------------+------------+-----------------+
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
+----------------+--------------+------------+------------+-----------------+
| 1.6 | 1.5.2 | 2000 | CNRI | no |
+----------------+--------------+------------+------------+-----------------+
|
 2.0 | 1.6 | 2000 | BeOpen.com | no |
+----------------+--------------+------------+------------+-----------------+
| 1.6.1 | 1.6 | 2001 | CNRI | no |
+----------------+--------------+------------+------------+-----------------+
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
+----------------+--------------+------------+------------+-----------------+
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
+----------------+--------------+------------+------------+-----------------+
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
+----------------+--------------+------------+------------+-----------------+
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
+----------------+--------------+------------+------------+-----------------+
| 2.1.3
         | 2.1.2 | 2002 | PSF | yes |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from
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original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets

The :mod:`socket`
module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion
 of C doubles to and from strings, is derived
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cfuhash

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Python was created in the early 1990s by Guido van Rossum at Stichting
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In 1995, Guido continued his work on Python at the Corporation for National
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In May 2000, Guido and the Python core development team moved to BeOpen.com to
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| 1.6 | 1.5.2 | 2000 | CNRI | no |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the
original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket`
module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
Project, http://www.wide.ad.jp/. ::

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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

XML Remote Procedure Calls

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The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of
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Original location:
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Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All

Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.11 spf13-pflag 1.0.3

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1.12 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/
* Source: https://github.com/apache/maven/tree/master/maven-plugin-api

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings (3.5.2)

* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

* License: Oasis Style
* Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II
*
Source: http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

* License: New BSD license

stax2-api (4.1)

* License: Pending
* Project: https://github.com/FasterXML/stax2-api
* Source:
http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar

testng (6.14.2)

* License: Apache-2.0 AND MIT
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

woodstox-core-asl (4.4.1)

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woodstox-core-asl (5.1.0)

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* Project: https://github.com/FasterXML/woodstox
* Source: https://github.com/FasterXML/woodstox

ws-addr.wsd (1.0)

* License: W3C
* Project: https://www.w3.org/2005/08/addressing/
* Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd

wsat.xsd Version: 2004/10 (n/a)

* License:
 Oasis Style
* Project: http://schemas.xmlsoap.org/ws/2004/10/wsat/
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

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* License: Oasis (Custom)
* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source:
 http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

* License: Oasis (Custom)
* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
* Source:
 http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrm-policy.xsd

wsrm.xsd (1.2)

* License: Oasis

wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

* License: Apache-2.0
* Project: http://santuario.apache.org/
* Source:
 https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar

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1.22 lcms 2.9

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1.24 xerces-j 2.7.1

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1.25 afero 1.1.2

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1.26 jwalterweatherman 1.0.0

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1.28 cast 1.3.0

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
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2.1.2	2.1.1	2002	PSF	yes
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1.33 giflib 5.2.1

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1.34 gorilla 1.7.3

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1.35 pkg-sftp 1.10.1

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1.36 cglib 3.2

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src/gzip/infblock.c

src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
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1.41 slf4j 1.7.29

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Dave Cheney <dave@cheney.net>
Saulius Gurklys <s4uliu5@gmail.com>
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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#
Use the following command to generate the list
#
git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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Go support for Protocol Buffers - Google's data interchange format

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.48 gorilla 1.2.0

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1.49 spring-framework 3.2.17.RELEASE

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1.50 jackson-databind 2.10.0

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1.51 jackson 2.10.0

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1.52 fdisk 2.31.1

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 /error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/FormatMethod.java
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1.58 queue 1.1.0

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* /okhttp-3-12-6-sources-2-jar/okhttp3/internal/tls/BasicTrustRootIndex.java
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* /okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /okhttp-3-12-6-sources-2-jar/okhttp3/internal/cache/FaultHidingSink.java
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 /okhttp-3-12-6-sources-2-jar/okhttp3/internal/connection/StreamAllocation.java
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1.62 init-system-helpers 1.57

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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/BeanInfoFactory.java

* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/SimpleTypeConverter.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
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/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/BeanWrapperImpl.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/ReaderContext.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/PropertyValuesEditor.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/ConfigurablePropertyAccessor.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/ParserContext.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/Problem.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/MethodReplacer.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
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/spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/ListFactoryBean.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/ProviderCreatingFactoryBean.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/PropertyAccessor.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/annotation/Autowired.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/PropertyOverrideConfigurer.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/support/SortDefinition.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
*
/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/UtilNamespaceHandler.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/support/PropertyComparator.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/ParseState.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/annotation/AnnotatedBeanDefinition.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/NotReadablePropertyException.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/annotation/AnnotationBeanUtils.java

* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
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jar/org/springframework/beans/factory/access/SingletonBeanFactoryLocator.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/SmartFactoryBean.java
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* /spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/Mergeable.java
* /spring-beans-3-2-17-release-sources-2-
jar/org/springframework/beans/factory/config/BeanReferenceFactoryBean.java

1.64 grpc-go 1.30.0

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1.70 asm 4.1

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

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

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

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* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
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 /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/Remapper.java
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* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
*

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* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
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* /asm-4-1-sources-1-jar/org/objectweb/asm/Opcodes.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
*
/asm-4-1-sources-1-jar/org/objectweb/asm/ClassReader.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/FieldVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/ASMifier.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/Printer.java
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* /asm-4-1-sources-1-jar/org/objectweb/asm/Label.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/ByteVector.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/Edge.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/Method.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
*
/asm-4-1-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/ClassWriter.java

* /asm-4-1-sources-1-jar/org/objectweb/asm/Context.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
*
 /asm-4-1-sources-1-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/Handle.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/tree/InsnList.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
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*
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*/
/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   */

Found in path(s):
* /asm-4-1-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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*/
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   * Constructs a new {@link Textifier}. Subclasses must not use this
   * constructor. Instead, they must use the {@link #Textifier(int)}
   * version.
   */

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* /asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-4-1-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
*
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1.71 iconv 2.31

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Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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1.73 zap 1.16.0

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1.74 python-meld3 1.0.2-2

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Contributors

- Chris McDonough, 2005-12-18

- Tres Seaver, 2006-02-09

- Jorge Puente Sarrn, 2012-11-27
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1.75 iconv 2.27

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

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1.77 autotools-dev 20180224.1

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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/SpringModelMBean.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative
 to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* <p>See the javadocs for WebSphere's
* <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>
* and <a href="http://bit.ly/TRlX2r">{@code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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*/
/**
* Abstract the invocation of a cache operation.
*
```

* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
 * @author Stephane Nicoll
* @since 4.1
*/

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jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/i18n/LocaleContext.java
*
 /spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Lazy.java
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jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
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jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/DateTimeParser.java
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/spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
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* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationContext.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/config/LangNamespaceUtils.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/EnableLoadTimeWeaving.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/support/StandardScriptUtils.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java

*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/annotation/Caching.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/support/GenericXmlApplicationContext.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/Scheduled.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/expression/MethodBasedEvaluationContext.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Import.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiServiceExporter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/EventListener.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/Parser.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ComponentScan.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/annotation/CachePut.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jndi/JndiPropertySource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/SimpleKey.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/support/NoOpCacheManager.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/EmbeddedValueResolverAware.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/support/CompositeCacheManager.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportRegistry.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/datetime/joda/JodaTimeContextHolder.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/standard/PeriodFormatter.java

* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationListener.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/AbstractErrors.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/TaskScheduler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/context/HierarchicalThemeSource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/BindingErrorProcessor.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/config/ContextNamespaceHandler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/RemoteLookupFailureException.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/RemoteConnectFailureException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/DependsOn.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/context/ThemeSource.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/assembler/AutodetectCapableMBeanInfoAssembler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/support/ObjectNameManager.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/support/LiveBeansViewMBean.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/Validator.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/context/Theme.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/support/RemotingSupport.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/ui/context/support/UiApplicationContextUtils.java

* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ui/context/support/SimpleTheme.java
*
/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/assembler/SimpleReflectiveMBeanInfoAssembler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/soap/SoapFaultException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/EnableMBeanExport.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/access/EjbAccessException.java
*
/spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jndi/JndiLookupFailureException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/expression/BeanFactoryResolver.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/SchedulingAwareRunnable.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/ContextClosedEvent.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/context/Phased.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/TriggerContext.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/BindingResultUtils.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/JmxException.java
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/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/NoSuchMessageException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/ContextStoppedEvent.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperationSource.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/Formatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/SmartValidator.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/Trigger.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/HierarchicalMessageSource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
*
/spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
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jar/org/springframework/jmx/export/annotation/AnnotationMBeanExporter.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/annotation/CacheConfig.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/DefaultEventListenerFactory.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/number/PercentStyleFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Scope.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/RemoteTimeoutException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/EventExpressionRootObject.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportResource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationEvent.java
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 /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/event/EventListenerFactory.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/PayloadApplicationEvent.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/support/CronTrigger.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/DurationFormatter.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Role.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/ScriptEvaluator.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/Lifecycle.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
* <p>The
 {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/Conditional.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CachePutOperation.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/support/StaticScriptSource.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/scheduling/concurrent/DefaultManagedTaskScheduler.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/AbstractPropertyBindingResult.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/config/FixedRateTask.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/support/AbstractMessageSource.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/support/ResourceScriptSource.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/validation/BindingResult.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-5-0-2-release-sources-2-
jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
*
/spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/annotation/EnableCaching.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/support/SimpleThreadScope.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/support/NotificationListenerHolder.java
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/spring-context-5-0-2-release-sources-2-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/ejb/access/AbstractSlsbInvokerInterceptor.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/scheduling/annotation/AsyncResult.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/AdviceMode.java
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/spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/format/annotation/NumberFormat.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/expression/EnvironmentAccessor.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheableOperation.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/remoting/rmi/JndiRmiProxyFactoryBean.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-5-0-2-release-sources-2-
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* /spring-context-5-0-2-release-sources-2-
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jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
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* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ImportAware.java
*
 /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/MessageSourceAware.java
* /spring-context-5-0-2-release-sources-2-jar/org/springframework/context/ApplicationEventPublisherAware.java
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xwd v1.0.7

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Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>

Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen
Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsdal@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
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jQuery v3.4.1

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jopt-simple v5.0.4

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1.83 man-pages 5.05-1

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```
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#
# find_dot_no_parens.sh
#
# Look for function names after /^.[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found.  The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#    cd man-pages-x.yy
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#
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1.87 pkg-sftp 1.12.0

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1.88 x-text 0.3.5

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1.89 x-oauth2 v0.0.0-20190402181905-9f3314589c9a

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1.92 go-yaml v2.2.1

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1.93 x-crypto 0.0.0-20200622213623-75b288015ac9

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1.94 x-text 0.3.6

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1.95 x-crypto 0.0.0-20201221181555-eec23a3978ad

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1.98 kubernetes-apimachinery v0.0.0-20190612205821-1799e75a0719

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1.100 json-cpp 1.6.5

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Henning Pfeiffer (megaposer)

thomasschaub

Trimble
Tim Boundy (gigaplex)

Rami Abughazaleh (icnocop)
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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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L. Peter Deutsch
ghost@aladdin.com

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1.115 protobuf 1.25.0

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* /grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
* /grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/package-info.java
* /grpc-protobuf-1-25-0-sources-1-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
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1.116 fwd 1.1.1

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1.117 go-difflib 1.0.0

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1.118 properties 1.8.5

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1.119 soheilhy-cmux 0.1.5

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1.121 x-sys 0.0.0-20210615035016-665e8c7367d1

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1.122 netns 0.0.0-20191106174202-0a2b9b5464df

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1.123 gogoprotobuf 1.3.2

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Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
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John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
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1.124 grpc-go 1.38.0

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1.125 zap 1.18.1

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1.127 viper 1.8.1

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1.131 go.uber.org/atomi 1.8.0

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1.137 golang-genproto 0.0.0-20210602131652-f16073e35f0c

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1.138 x-sys 0.0.0-20210423082822-04245dca01da

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1.139 x-sync 0.0.0-20210220032951-036812b2e83c

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1.140 zap 1.19.0

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1.141 prometheus-common 0.26.0

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1.142 google-go-cmp 0.5.5

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1.143 spf13-pflag 1.0.5

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1.144 golang-glog 0.0.0-20160126235308-23def4e6c14b

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1.145 prometheus-procfs 0.2.0

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1.146 grpc-ecosystem-go-grpc-middleware 1.2.2

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1.147 btree 1.0.0

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1.148 prometheus-common 0.15.0

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1.149 cidranger 1.0.2

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1.150 mitchellh-mapstructure 1.1.2

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1.151 grpc-ecosystem-go-grpc-middleware 1.2.0

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1.152 protobuf 1.26.0

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1.153 x-crypto 0.0.0-20210421170649-83a5a9bb288b

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1.154 golang-genproto 0.0.0-20190819201941-24fa4b261c55

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1.155 go-sysconf 0.3.5

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1.156 go-asn1-ber-asn1-ber 1.5.1

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1.157 go-test-deep 1.0.7

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1.158 x-sys 0.0.0-20210124154548-22da62e12c0c

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1.159 go-ldap-ldap 3.2.4

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metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.163 go-errors-errors 1.2.0

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1.164 prometheus-common 0.18.0

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1.165 gopkg-in/ldap 2.5.1

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1.166 flag 1.7.4-pre

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1.167 etcd 3.3.25+incompatible

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.168 golang-glog 0.0.0-20210429001901-424d2337a529

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1.169 gopkg.in-asn1-ber 1.0.0-20181015200546-f715ec2f112d

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1.170 go-errors-errors 1.0.2

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1.171 go-asn1-ber-asn1-ber 1.5.3

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1.172 etcd 3.3.22+incompatible

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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David Wilkie <dwilkie@gmail.com>
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1.178 go-ldap-ldap 3.3.0

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1.179 x-net 0.0.0-20210119194325-5f4716e94777

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1.180 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.181 eapache-channels 1.1.0

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1.182 x-sys 0.0.0-20210630005230-0f9fa26af87c

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1.183 gopkg.in-yaml 3.0.0-20210107192922-496545a6307b

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1.184 goleak 1.1.10

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1.185 prometheus-procfs 0.0.11

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1.186 fsnotify 1.4.9

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1.187 testify 1.7.0

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1.188 x-net 0.0.0-20210813160813-60bc85c4be6d

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1.194 jwt-go 3.2.0+incompatible

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1.195 golang-snappy 0.0.1

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1.196 miekg-dns 1.1.38

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1.197 mitchellh-mapstructure 1.4.1

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1.198 golang-snappy 0.0.4

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Jan Mercl <0xjnml@gmail.com>
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Marc-Antoine Ruel <maruel@chromium.org>
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1.199 clockwork 0.2.2

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Clockwork - a clock process to replace cron
==========

Cron is non-ideal for running scheduled application tasks, especially in an app
deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a cron replacement. It runs as a lightweight, long-running Ruby
process which sits alongside your web processes (Mongrel/Thin) and your worker
processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular
times or dates. For example, refreshing feeds on an hourly basis, or send
reminder emails on a nightly basis, or generating invoices once a month on the
1st.

Quickstart

Create clock.rb:

```
require 'clockwork'
```

```
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')


every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
[2010-05-25 18:16:46 -0700] Starting clock for 4 events: [ frequent.job less.frequent.job hourly.job midnight.job ]
[2010-05-25 18:16:46 -0700] -> frequent.job
```

Use with queueing

The clock process only makes sense as a place to schedule work to be done, not
to do the work. It avoids locking by running as a single process, but this
makes it impossible to parallelize. For doing the work, you should be using a
job queueing system, such as
[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or
[Resque](http://github.com/blog/542-introducing-resque). This design allows a
simple clock process with no locks, but also offers
 near infinite horizontal
scalability.

For example, if you're using Beanstalk/Staker:

```
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the clock process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment, and use per-event blocks to call DJ or Resque

enqueue methods. For example, with DJ/Rails:

```
  require 'config/boot'
  require 'config/environment'

  every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
  every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }
```

Anatomy of a clock file
---

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

```
  handler { |job| enqueue_your_job(job) }
```

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

```
  every(5.minutes, 'thing.do')
  every(1.hour, 'otherthing.do')
```

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

```
  every(5.minutes, 'thing.do') { Thing.send_later(:do) }
```

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```
  every(1.day, 'check.leap.year') do
```

```
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production

Only one clock process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock process running the same way you keep your web and workers running.

Meta

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scehduler)

Design
 assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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* /clockwork-0-2-2-2-gem/data-tar-gz/README.md

1.200 go-systemd 0.0.0-20190321100706-95778dfbb74e

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1.205 tdb 1.44.1

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1.209 go-ping-ping 0.0.0-20210506233800-ff8be3320020

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1.210 prometheus-procfs 0.4.0

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.211 ishidawataru-sctp 0.0.0-20210204083202-2bdd86bb9a4d

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1.212 x-sys 0.0.0-20210423185535-09eb48e85fd7

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1.213 go-unsnap-stream 0.0.0-20210130063903-47dfef350d96

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1.214 go-errors-errors 1.1.1

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1.215 go-bgp 2.19.0+incompatible

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1.216 yerden-go-util 1.1.3

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1.217 evanphx-json-patch 0.5.2

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1.218 go-farm 0.0.0-20200201041132-a6ae2369ad13

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1.219 k-sone-critbitgo 1.4.0

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1.220 netns 0.0.0-20210104183010-2eb08e3e575f

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1.221 prometheus-procfs 0.5.0

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1.222 grpc-websocket-proxy 0.0.0-20201229170055-e5319fda7802

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1.223 abbot-go-http-auth 0.4.0

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1.225 smartystreets-goconvey 1.6.4

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1.226 pkg-sftp 1.13.4

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1.228 kubernetes-klog 0.3.1

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1.230 xiang90-probing 0.0.0-20190116061207-43a291ad63a2

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1.231 grpc-gateway 1.16.0

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1.232 gls 4.20.0+incompatible

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/* Bison interface for Yacc-like parsers in C

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//

/**
* This is bison grammar and productions for parsing all versions of the
* GLSL shading languages.
*/
```

```
%{

/* Based on:
ANSI C Yacc grammar

In 1985, Jeff Lee published his Yacc grammar (which is accompanied by a
matching Lex specification) for
 the April 30, 1985 draft version of the
ANSI C standard.  Tom Stockfisch reposted it to net.sources in 1987; that
original, as mentioned in the answer to question 17.25 of the comp.lang.c
FAQ, can be ftp'ed from ftp.uu.net, file usenet/net.sources/ansi.c.grammar.Z.

I intend to keep this version as close to the current C Standard grammar as
possible; please let me know if you discover discrepancies.

Jutta Degener, 1995
*/

#include "SymbolTable.h"
#include "ParseHelper.h"
#include "../Public/ShaderLang.h"
#include "attribute.h"

using namespace glslang;

%}

%define parse.error verbose

%union {
  struct {
      glslang::TSourceLoc loc;
      union {
          glslang::TString *string;
          int i;
          unsigned int u;
          long long i64;
          unsigned long long u64;
          bool b;
          double d;
      };
      glslang::TSymbol* symbol;
  } lex;
  struct {
      glslang::TSourceLoc loc;
      glslang::TOperator op;
      union
```

```
 {
        TIntermNode* intermNode;
        glslang::TIntermNodePair nodePair;
        glslang::TIntermTyped* intermTypedNode;
        glslang::TAttributes* attributes;
      };
      union {
        glslang::TPublicType type;
        glslang::TFunction* function;
        glslang::TParameter param;
        glslang::TTypeLoc typeLine;
        glslang::TTypeList* typeList;
        glslang::TArraySizes* arraySizes;
        glslang::TIdentifierList* identifierList;
      };
  } interm;
}

%{

/* windows only pragma */
#ifdef _MSC_VER
  #pragma warning(disable : 4065)
  #pragma warning(disable : 4127)
  #pragma warning(disable : 4244)
#endif

#define parseContext (*pParseContext)
#define yyerror(context, msg) context->parserError(msg)

extern int yylex(YYSTYPE*, TParseContext&);

%}

%parse-param {glslang::TParseContext* pParseContext}
%lex-param {parseContext}
%pure-parser  // enable thread safety
%expect 1     // One shift reduce
 conflict because of if | else

%token <lex> ATTRIBUTE VARYING
%token <lex> FLOAT16_T FLOAT FLOAT32_T DOUBLE FLOAT64_T
%token <lex> CONST BOOL INT UINT INT64_T UINT64_T INT32_T UINT32_T INT16_T UINT16_T INT8_T
UINT8_T
%token <lex> BREAK CONTINUE DO ELSE FOR IF DISCARD RETURN SWITCH CASE DEFAULT
SUBROUTINE
%token <lex> BVEC2 BVEC3 BVEC4
%token <lex> IVEC2 IVEC3 IVEC4
```

%token <lex> UVEC2 UVEC3 UVEC4
%token <lex> I64VEC2 I64VEC3 I64VEC4
%token <lex> U64VEC2 U64VEC3 U64VEC4
%token <lex> I32VEC2 I32VEC3 I32VEC4
%token <lex> U32VEC2 U32VEC3 U32VEC4
%token <lex> I16VEC2 I16VEC3 I16VEC4
%token <lex> U16VEC2 U16VEC3 U16VEC4
%token <lex> I8VEC2 I8VEC3 I8VEC4
%token <lex> U8VEC2 U8VEC3 U8VEC4
%token <lex> VEC2 VEC3 VEC4
%token <lex> MAT2 MAT3 MAT4 CENTROID IN OUT INOUT
%token <lex> UNIFORM PATCH SAMPLE BUFFER SHARED
%token <lex> COHERENT VOLATILE RESTRICT READONLY WRITEONLY
%token <lex> DVEC2 DVEC3 DVEC4 DMAT2 DMAT3 DMAT4
%token <lex> F16VEC2 F16VEC3 F16VEC4 F16MAT2 F16MAT3 F16MAT4
%token <lex>
 F32VEC2 F32VEC3 F32VEC4 F32MAT2 F32MAT3 F32MAT4
%token <lex> F64VEC2 F64VEC3 F64VEC4 F64MAT2 F64MAT3 F64MAT4
%token <lex> NOPERSPECTIVE FLAT SMOOTH LAYOUT __EXPLICITINTERPAMD

%token <lex> MAT2X2 MAT2X3 MAT2X4
%token <lex> MAT3X2 MAT3X3 MAT3X4
%token <lex> MAT4X2 MAT4X3 MAT4X4
%token <lex> DMAT2X2 DMAT2X3 DMAT2X4
%token <lex> DMAT3X2 DMAT3X3 DMAT3X4
%token <lex> DMAT4X2 DMAT4X3 DMAT4X4
%token <lex> F16MAT2X2 F16MAT2X3 F16MAT2X4
%token <lex> F16MAT3X2 F16MAT3X3 F16MAT3X4
%token <lex> F16MAT4X2 F16MAT4X3 F16MAT4X4
%token <lex> F32MAT2X2 F32MAT2X3 F32MAT2X4
%token <lex> F32MAT3X2 F32MAT3X3 F32MAT3X4
%token <lex> F32MAT4X2 F32MAT4X3 F32MAT4X4
%token <lex> F64MAT2X2 F64MAT2X3 F64MAT2X4
%token <lex> F64MAT3X2 F64MAT3X3 F64MAT3X4
%token <lex> F64MAT4X2 F64MAT4X3 F64MAT4X4
%token <lex> ATOMIC_UINT

// combined image/sampler
%token <lex> SAMPLER1D SAMPLER2D SAMPLER3D SAMPLERCUBE SAMPLER1DSHADOW
SAMPLER2DSHADOW
%token <lex> SAMPLERCUBESHADOW SAMPLER1DARRAY SAMPLER2DARRAY
SAMPLER1DARRAYSHADOW
%token
 <lex> SAMPLER2DARRAYSHADOW ISAMPLER1D ISAMPLER2D ISAMPLER3D ISAMPLERCUBE
%token <lex> ISAMPLER1DARRAY ISAMPLER2DARRAY USAMPLER1D USAMPLER2D USAMPLER3D
%token <lex> USAMPLERCUBE USAMPLER1DARRAY USAMPLER2DARRAY
%token <lex> SAMPLER2DRECT SAMPLER2DRECTSHADOW ISAMPLER2DRECT USAMPLER2DRECT
%token <lex> SAMPLERBUFFER ISAMPLERBUFFER USAMPLERBUFFER

```
%token <lex> SAMPLERCUBEARRAY SAMPLERCUBEARRAYSHADOW
%token <lex> ISAMPLERCUBEARRAY USAMPLERCUBEARRAY
%token <lex> SAMPLER2DMS ISAMPLER2DMS USAMPLER2DMS
%token <lex> SAMPLER2DMSARRAY ISAMPLER2DMSARRAY USAMPLER2DMSARRAY
%token <lex> SAMPLEREXTERNALOES

%token <lex> F16SAMPLER1D F16SAMPLER2D F16SAMPLER3D F16SAMPLER2DRECT
F16SAMPLERCUBE
%token <lex> F16SAMPLER1DARRAY F16SAMPLER2DARRAY F16SAMPLERCUBEARRAY
%token <lex> F16SAMPLERBUFFER F16SAMPLER2DMS F16SAMPLER2DMSARRAY
%token <lex> F16SAMPLER1DSHADOW F16SAMPLER2DSHADOW F16SAMPLER1DARRAYSHADOW
F16SAMPLER2DARRAYSHADOW
%token <lex> F16SAMPLER2DRECTSHADOW F16SAMPLERCUBESHADOW
F16SAMPLERCUBEARRAYSHADOW

//
 pure sampler
%token <lex> SAMPLER SAMPLERSHADOW

// texture without sampler
%token <lex> TEXTURE1D TEXTURE2D TEXTURE3D TEXTURECUBE
%token <lex> TEXTURE1DARRAY TEXTURE2DARRAY
%token <lex> ITEXTURE1D ITEXTURE2D ITEXTURE3D ITEXTURECUBE
%token <lex> ITEXTURE1DARRAY ITEXTURE2DARRAY UTEXTURE1D UTEXTURE2D UTEXTURE3D
%token <lex> UTEXTURECUBE UTEXTURE1DARRAY UTEXTURE2DARRAY
%token <lex> TEXTURE2DRECT ITEXTURE2DRECT UTEXTURE2DRECT
%token <lex> TEXTUREBUFFER ITEXTUREBUFFER UTEXTUREBUFFER
%token <lex> TEXTURECUBEARRAY ITEXTURECUBEARRAY UTEXTURECUBEARRAY
%token <lex> TEXTURE2DMS ITEXTURE2DMS UTEXTURE2DMS
%token <lex> TEXTURE2DMSARRAY ITEXTURE2DMSARRAY UTEXTURE2DMSARRAY

%token <lex> F16TEXTURE1D F16TEXTURE2D F16TEXTURE3D F16TEXTURE2DRECT
F16TEXTURECUBE
%token <lex> F16TEXTURE1DARRAY F16TEXTURE2DARRAY F16TEXTURECUBEARRAY
%token <lex> F16TEXTUREBUFFER F16TEXTURE2DMS F16TEXTURE2DMSARRAY

// input attachments
%token <lex> SUBPASSINPUT SUBPASSINPUTMS ISUBPASSINPUT ISUBPASSINPUTMS
USUBPASSINPUT USUBPASSINPUTMS
%token
 <lex> F16SUBPASSINPUT F16SUBPASSINPUTMS

%token <lex> IMAGE1D IIMAGE1D UIMAGE1D IMAGE2D IIMAGE2D
%token <lex> UIMAGE2D IMAGE3D IIMAGE3D UIMAGE3D
%token <lex> IMAGE2DRECT IIMAGE2DRECT UIMAGE2DRECT
%token <lex> IMAGECUBE IIMAGECUBE UIMAGECUBE
%token <lex> IMAGEBUFFER IIMAGEBUFFER UIMAGEBUFFER
%token <lex> IMAGE1DARRAY IIMAGE1DARRAY UIMAGE1DARRAY
```

%token <lex> IMAGE2DARRAY IIMAGE2DARRAY UIMAGE2DARRAY
%token <lex> IMAGECUBEARRAY IIMAGECUBEARRAY UIMAGECUBEARRAY
%token <lex> IMAGE2DMS IIMAGE2DMS UIMAGE2DMS
%token <lex> IMAGE2DMSARRAY IIMAGE2DMSARRAY UIMAGE2DMSARRAY

%token <lex> F16IMAGE1D F16IMAGE2D F16IMAGE3D F16IMAGE2DRECT
%token <lex> F16IMAGECUBE F16IMAGE1DARRAY F16IMAGE2DARRAY F16IMAGECUBEARRAY
%token <lex> F16IMAGEBUFFER F16IMAGE2DMS F16IMAGE2DMSARRAY

%token <lex> STRUCT VOID WHILE

%token <lex> IDENTIFIER TYPE_NAME
%token <lex> FLOATCONSTANT DOUBLECONSTANT INT16CONSTANT UINT16CONSTANT INT32CONSTANT UINT32CONSTANT INTCONSTANT UINTCONSTANT INT64CONSTANT UINT64CONSTANT
BOOLCONSTANT FLOAT16CONSTANT
%token <lex> LEFT_OP RIGHT_OP
%token <lex> INC_OP DEC_OP LE_OP GE_OP EQ_OP NE_OP
%token <lex> AND_OP OR_OP XOR_OP MUL_ASSIGN DIV_ASSIGN ADD_ASSIGN
%token <lex> MOD_ASSIGN LEFT_ASSIGN RIGHT_ASSIGN AND_ASSIGN XOR_ASSIGN OR_ASSIGN
%token <lex> SUB_ASSIGN

%token <lex> LEFT_PAREN RIGHT_PAREN LEFT_BRACKET RIGHT_BRACKET LEFT_BRACE RIGHT_BRACE DOT
%token <lex> COMMA COLON EQUAL SEMICOLON BANG DASH TILDE PLUS STAR SLASH PERCENT
%token <lex> LEFT_ANGLE RIGHT_ANGLE VERTICAL_BAR CARET AMPERSAND QUESTION

%token <lex> INVARIANT PRECISE
%token <lex> HIGH_PRECISION MEDIUM_PRECISION LOW_PRECISION PRECISION

%token <lex> PACKED RESOURCE SUPERP

%type <interm> assignment_operator unary_operator
%type <interm.intermTypedNode> variable_identifier primary_expression postfix_expression
%type <interm.intermTypedNode> expression integer_expression assignment_expression
%type <interm.intermTypedNode> unary_expression multiplicative_expression additive_expression
%type <interm.intermTypedNode>
relational_expression equality_expression
%type <interm.intermTypedNode> conditional_expression constant_expression
%type <interm.intermTypedNode> logical_or_expression logical_xor_expression logical_and_expression
%type <interm.intermTypedNode> shift_expression and_expression exclusive_or_expression inclusive_or_expression
%type <interm.intermTypedNode> function_call initializer initializer_list condition conditionopt

%type <interm.intermNode> translation_unit function_definition
%type <interm.intermNode> statement simple_statement
%type <interm.intermNode> statement_list switch_statement_list compound_statement
%type <interm.intermNode> declaration_statement selection_statement selection_statement_nonattributed

```
expression_statement
%type <interm.intermNode> switch_statement switch_statement_nonattributed case_label
%type <interm.intermNode> declaration external_declaration
%type <interm.intermNode> for_init_statement compound_statement_no_new_scope
%type <interm.nodePair>
 selection_rest_statement for_rest_statement
%type <interm.intermNode> iteration_statement iteration_statement_nonattributed jump_statement
statement_no_new_scope statement_scoped
%type <interm> single_declaration init_declarator_list

%type <interm> parameter_declaration parameter_declarator parameter_type_specifier

%type <interm> array_specifier
%type <interm.type> precise_qualifier invariant_qualifier interpolation_qualifier storage_qualifier
precision_qualifier
%type <interm.type> layout_qualifier layout_qualifier_id_list layout_qualifier_id

%type <interm.type> type_qualifier fully_specified_type type_specifier
%type <interm.type> single_type_qualifier
%type <interm.type> type_specifier_nonarray
%type <interm.type> struct_specifier
%type <interm.typeLine> struct_declarator
%type <interm.typeList> struct_declarator_list struct_declaration struct_declaration_list type_name_list
%type <interm> block_structure
%type <interm.function> function_header function_declarator
%type <interm.function>
 function_header_with_parameters
%type <interm> function_call_header_with_parameters function_call_header_no_parameters function_call_generic
function_prototype
%type <interm> function_call_or_method function_identifier function_call_header

%type <interm.identifierList> identifier_list

%type <interm.attributes> attribute attribute_list single_attribute

%start translation_unit
%%

variable_identifier
  : IDENTIFIER {
      $$ = parseContext.handleVariable($1.loc, $1.symbol, $1.string);
  }
  ;

primary_expression
  : variable_identifier {
      $$ = $1;
  }
```

```
  | INT32CONSTANT {
      parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
      $$ = parseContext.intermediate.addConstantUnion($1.i, $1.loc, true);
    }
  | UINT32CONSTANT {
      parseContext.explicitInt32Check($1.loc, "32-bit signed literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
    }
  | INTCONSTANT {
      $$ = parseContext.intermediate.addConstantUnion($1.i,
$1.loc, true);
    }
  | UINTCONSTANT {
      parseContext.fullIntegerCheck($1.loc, "unsigned literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u, $1.loc, true);
    }
  | INT64CONSTANT {
      parseContext.int64Check($1.loc, "64-bit integer literal");
      $$ = parseContext.intermediate.addConstantUnion($1.i64, $1.loc, true);
    }
  | UINT64CONSTANT {
      parseContext.int64Check($1.loc, "64-bit unsigned integer literal");
      $$ = parseContext.intermediate.addConstantUnion($1.u64, $1.loc, true);
    }
  | INT16CONSTANT {
      parseContext.explicitInt16Check($1.loc, "16-bit integer literal");
      $$ = parseContext.intermediate.addConstantUnion((short)$1.i, $1.loc, true);
    }
  | UINT16CONSTANT {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer literal");
      $$ = parseContext.intermediate.addConstantUnion((unsigned short)$1.u, $1.loc, true);
    }
  | FLOATCONSTANT {
       $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat, $1.loc, true);
    }
  | DOUBLECONSTANT {
      parseContext.doubleCheck($1.loc, "double literal");
      $$ = parseContext.intermediate.addConstantUnion($1.d, EbtDouble, $1.loc, true);
    }
  | FLOAT16CONSTANT {
      parseContext.float16Check($1.loc, "half float literal");
      $$ = parseContext.intermediate.addConstantUnion($1.d, EbtFloat16, $1.loc, true);
    }
  | BOOLCONSTANT {
      $$ = parseContext.intermediate.addConstantUnion($1.b, $1.loc, true);
    }
  | LEFT_PAREN expression RIGHT_PAREN {
      $$ = $2;
```

```
        if ($$->getAsConstantUnion())
            $$->getAsConstantUnion()->setExpression();
    }
    ;

postfix_expression
    : primary_expression {
        $$ = $1;
    }
    | postfix_expression LEFT_BRACKET integer_expression RIGHT_BRACKET {
        $$ = parseContext.handleBracketDereference($2.loc, $1, $3);
    }
    | function_call {
        $$ = $1;
    }
    | postfix_expression
   DOT IDENTIFIER {
        $$ = parseContext.handleDotDereference($3.loc, $1, *$3.string);
    }
    | postfix_expression INC_OP {
        parseContext.variableCheck($1);
        parseContext.lValueErrorCheck($2.loc, "++", $1);
        $$ = parseContext.handleUnaryMath($2.loc, "++", EOpPostIncrement, $1);
    }
    | postfix_expression DEC_OP {
        parseContext.variableCheck($1);
        parseContext.lValueErrorCheck($2.loc, "--", $1);
        $$ = parseContext.handleUnaryMath($2.loc, "--", EOpPostDecrement, $1);
    }
    ;

integer_expression
    : expression {
        parseContext.integerCheck($1, "[]");
        $$ = $1;
    }
    ;

function_call
    : function_call_or_method {
        $$ = parseContext.handleFunctionCall($1.loc, $1.function, $1.intermNode);
        delete $1.function;
    }
    ;

function_call_or_method
    : function_call_generic {
        $$ = $1;
```

```
  }
  ;

function_call_generic
  : function_call_header_with_parameters RIGHT_PAREN {
      $$ =
 $1;
      $$.loc = $2.loc;
  }
  | function_call_header_no_parameters RIGHT_PAREN {
      $$ = $1;
      $$.loc = $2.loc;
  }
  ;

function_call_header_no_parameters
  : function_call_header VOID {
      $$ = $1;
  }
  | function_call_header {
      $$ = $1;
  }
  ;

function_call_header_with_parameters
  : function_call_header assignment_expression {
      TParameter param = { 0, new TType };
      param.type->shallowCopy($2->getType());
      $1.function->addParameter(param);
      $$.function = $1.function;
      $$.intermNode = $2;
  }
  | function_call_header_with_parameters COMMA assignment_expression {
      TParameter param = { 0, new TType };
      param.type->shallowCopy($3->getType());
      $1.function->addParameter(param);
      $$.function = $1.function;
      $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, $3, $2.loc);
  }
  ;

function_call_header
  : function_identifier LEFT_PAREN {

    $$ = $1;
  }
  ;
```

```
// Grammar Note:  Constructors look like functions, but are recognized as types.

function_identifier
  : type_specifier {
      // Constructor
      $$.intermNode = 0;
      $$.function = parseContext.handleConstructorCall($1.loc, $1);
  }
  | postfix_expression {
      //
      // Should be a method or subroutine call, but we haven't recognized the arguments yet.
      //
      $$.function = 0;
      $$.intermNode = 0;

      TIntermMethod* method = $1->getAsMethodNode();
      if (method) {
          $$.function = new TFunction(&method->getMethodName(), TType(EbtInt), EOpArrayLength);
          $$.intermNode = method->getObject();
      } else {
          TIntermSymbol* symbol = $1->getAsSymbolNode();
          if (symbol) {
              parseContext.reservedErrorCheck(symbol->getLoc(), symbol->getName());
              TFunction *function = new TFunction(&symbol->getName(), TType(EbtVoid));
              $$.function
 = function;
          } else
              parseContext.error($1->getLoc(), "function call, method, or subroutine call expected", "", "");
      }

      if ($$.function == 0) {
          // error recover
          TString empty("");
          $$.function = new TFunction(&empty, TType(EbtVoid), EOpNull);
      }
  }
  ;

unary_expression
  : postfix_expression {
      parseContext.variableCheck($1);
      $$ = $1;
      if (TIntermMethod* method = $1->getAsMethodNode())
          parseContext.error($1->getLoc(), "incomplete method syntax", method->getMethodName().c_str(), "");
  }
  | INC_OP unary_expression {
      parseContext.lValueErrorCheck($1.loc, "++", $2);
      $$ = parseContext.handleUnaryMath($1.loc, "++", EOpPreIncrement, $2);
```

```
  }
  | DEC_OP unary_expression {
      parseContext.lValueErrorCheck($1.loc, "--", $2);
      $$ = parseContext.handleUnaryMath($1.loc, "--", EOpPreDecrement, $2);
  }
  | unary_operator unary_expression
 {
      if ($1.op != EOpNull) {
          char errorOp[2] = {0, 0};
          switch($1.op) {
          case EOpNegative:   errorOp[0] = '-'; break;
          case EOpLogicalNot: errorOp[0] = '!'; break;
          case EOpBitwiseNot: errorOp[0] = '~'; break;
          default: break; // some compilers want this
          }
          $$ = parseContext.handleUnaryMath($1.loc, errorOp, $1.op, $2);
      } else {
          $$ = $2;
          if ($$->getAsConstantUnion())
              $$->getAsConstantUnion()->setExpression();
      }
  }
  ;
// Grammar Note:  No traditional style type casts.

unary_operator
  : PLUS  { $$.loc = $1.loc; $$.op = EOpNull; }
  | DASH  { $$.loc = $1.loc; $$.op = EOpNegative; }
  | BANG  { $$.loc = $1.loc; $$.op = EOpLogicalNot; }
  | TILDE { $$.loc = $1.loc; $$.op = EOpBitwiseNot;
            parseContext.fullIntegerCheck($1.loc, "bitwise not"); }
  ;
// Grammar Note:  No '*' or '&' unary ops.  Pointers are not
 supported.

multiplicative_expression
  : unary_expression { $$ = $1; }
  | multiplicative_expression STAR unary_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "*", EOpMul, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  | multiplicative_expression SLASH unary_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "/", EOpDiv, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  | multiplicative_expression PERCENT unary_expression {
```

```
        parseContext.fullIntegerCheck($2.loc, "%");
        $$ = parseContext.handleBinaryMath($2.loc, "%", EOpMod, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

additive_expression
    : multiplicative_expression { $$ = $1; }
    | additive_expression PLUS multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "+", EOpAdd, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | additive_expression DASH multiplicative_expression {
        $$ = parseContext.handleBinaryMath($2.loc,
 "-", EOpSub, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

shift_expression
    : additive_expression { $$ = $1; }
    | shift_expression LEFT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift left");
        $$ = parseContext.handleBinaryMath($2.loc, "<<", EOpLeftShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    | shift_expression RIGHT_OP additive_expression {
        parseContext.fullIntegerCheck($2.loc, "bit shift right");
        $$ = parseContext.handleBinaryMath($2.loc, ">>", EOpRightShift, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

relational_expression
    : shift_expression { $$ = $1; }
    | relational_expression LEFT_ANGLE shift_expression {
        $$ = parseContext.handleBinaryMath($2.loc, "<", EOpLessThan, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | relational_expression RIGHT_ANGLE shift_expression
    {
        $$ = parseContext.handleBinaryMath($2.loc, ">", EOpGreaterThan, $1, $3);
```

```
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | relational_expression LE_OP shift_expression  {
        $$ = parseContext.handleBinaryMath($2.loc, "<=", EOpLessThanEqual, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | relational_expression GE_OP shift_expression  {
        $$ = parseContext.handleBinaryMath($2.loc, ">=", EOpGreaterThanEqual, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    ;

equality_expression
    : relational_expression { $$ = $1; }
    | equality_expression EQ_OP relational_expression  {
        parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
        parseContext.opaqueCheck($2.loc, $1->getType(), "==");
        parseContext.specializationCheck($2.loc,
   $1->getType(), "==");
        $$ = parseContext.handleBinaryMath($2.loc, "==", EOpEqual, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    | equality_expression NE_OP relational_expression {
        parseContext.arrayObjectCheck($2.loc, $1->getType(), "array comparison");
        parseContext.opaqueCheck($2.loc, $1->getType(), "!=");
        parseContext.specializationCheck($2.loc, $1->getType(), "!=");
        $$ = parseContext.handleBinaryMath($2.loc, "!=", EOpNotEqual, $1, $3);
        if ($$ == 0)
            $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
    }
    ;

and_expression
    : equality_expression { $$ = $1; }
    | and_expression AMPERSAND equality_expression {
        parseContext.fullIntegerCheck($2.loc, "bitwise and");
        $$ = parseContext.handleBinaryMath($2.loc, "&", EOpAnd, $1, $3);
        if ($$ == 0)
            $$ = $1;
    }
    ;

exclusive_or_expression
    : and_expression
```

```
 { $$ = $1; }
  | exclusive_or_expression CARET and_expression {
      parseContext.fullIntegerCheck($2.loc, "bitwise exclusive or");
      $$ = parseContext.handleBinaryMath($2.loc, "^", EOpExclusiveOr, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  ;

inclusive_or_expression
  : exclusive_or_expression { $$ = $1; }
  | inclusive_or_expression VERTICAL_BAR exclusive_or_expression {
      parseContext.fullIntegerCheck($2.loc, "bitwise inclusive or");
      $$ = parseContext.handleBinaryMath($2.loc, "|", EOpInclusiveOr, $1, $3);
      if ($$ == 0)
          $$ = $1;
  }
  ;

logical_and_expression
  : inclusive_or_expression { $$ = $1; }
  | logical_and_expression AND_OP inclusive_or_expression {
      $$ = parseContext.handleBinaryMath($2.loc, "&&", EOpLogicalAnd, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  ;

logical_xor_expression
  : logical_and_expression { $$
 = $1; }
  | logical_xor_expression XOR_OP logical_and_expression  {
      $$ = parseContext.handleBinaryMath($2.loc, "^^", EOpLogicalXor, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  ;

logical_or_expression
  : logical_xor_expression { $$ = $1; }
  | logical_or_expression OR_OP logical_xor_expression  {
      $$ = parseContext.handleBinaryMath($2.loc, "||", EOpLogicalOr, $1, $3);
      if ($$ == 0)
          $$ = parseContext.intermediate.addConstantUnion(false, $2.loc);
  }
  ;

conditional_expression
```

```
  : logical_or_expression { $$ = $1; }
  | logical_or_expression QUESTION {
      ++parseContext.controlFlowNestingLevel;
  }
    expression COLON assignment_expression {
      --parseContext.controlFlowNestingLevel;
      parseContext.boolCheck($2.loc, $1);
      parseContext.rValueErrorCheck($2.loc, "?", $1);
      parseContext.rValueErrorCheck($5.loc, ":", $4);
      parseContext.rValueErrorCheck($5.loc,
 ":", $6);
      $$ = parseContext.intermediate.addSelection($1, $4, $6, $2.loc);
      if ($$ == 0) {
          parseContext.binaryOpError($2.loc, ":", $4->getCompleteString(), $6->getCompleteString());
          $$ = $6;
      }
  }
  ;

assignment_expression
  : conditional_expression { $$ = $1; }
  | unary_expression assignment_operator assignment_expression {
      parseContext.arrayObjectCheck($2.loc, $1->getType(), "array assignment");
      parseContext.opaqueCheck($2.loc, $1->getType(), "=");
      parseContext.specializationCheck($2.loc, $1->getType(), "=");
      parseContext.lValueErrorCheck($2.loc, "assign", $1);
      parseContext.rValueErrorCheck($2.loc, "assign", $3);
      $$ = parseContext.intermediate.addAssign($2.op, $1, $3, $2.loc);
      if ($$ == 0) {
          parseContext.assignError($2.loc, "assign", $1->getCompleteString(), $3->getCompleteString());
          $$ = $1;
      }
  }
  ;

assignment_operator
   : EQUAL {
      $$.loc = $1.loc;
      $$.op = EOpAssign;
  }
  | MUL_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpMulAssign;
  }
  | DIV_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpDivAssign;
  }
```

```
  | MOD_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "%=");
      $$.loc = $1.loc;
      $$.op = EOpModAssign;
  }
  | ADD_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpAddAssign;
  }
  | SUB_ASSIGN {
      $$.loc = $1.loc;
      $$.op = EOpSubAssign;
  }
  | LEFT_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "bit-shift left assign");
      $$.loc = $1.loc; $$.op = EOpLeftShiftAssign;
  }
  | RIGHT_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "bit-shift right assign");
      $$.loc = $1.loc; $$.op = EOpRightShiftAssign;
  }
  | AND_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "bitwise-and assign");
      $$.loc = $1.loc; $$.op = EOpAndAssign;
  }
  | XOR_ASSIGN
{
      parseContext.fullIntegerCheck($1.loc, "bitwise-xor assign");
      $$.loc = $1.loc; $$.op = EOpExclusiveOrAssign;
  }
  | OR_ASSIGN {
      parseContext.fullIntegerCheck($1.loc, "bitwise-or assign");
      $$.loc = $1.loc; $$.op = EOpInclusiveOrAssign;
  }
  ;

expression
  : assignment_expression {
      $$ = $1;
  }
  | expression COMMA assignment_expression {
      parseContext.samplerConstructorLocationCheck($2.loc, ",", $3);
      $$ = parseContext.intermediate.addComma($1, $3, $2.loc);
      if ($$ == 0) {
          parseContext.binaryOpError($2.loc, ",", $1->getCompleteString(), $3->getCompleteString());
          $$ = $3;
      }
  }
```

```
  ;

constant_expression
  : conditional_expression {
      parseContext.constantValueCheck($1, "");
      $$ = $1;
  }
  ;

declaration
  : function_prototype SEMICOLON {
      parseContext.handleFunctionDeclarator($1.loc, *$1.function, true /* prototype */);
      $$ = 0;

  // TODO: 4.0 functionality: subroutines: make the identifier a user type for this signature
  }
  | init_declarator_list SEMICOLON {
      if ($1.intermNode && $1.intermNode->getAsAggregate())
          $1.intermNode->getAsAggregate()->setOperator(EOpSequence);
      $$ = $1.intermNode;
  }
  | PRECISION precision_qualifier type_specifier SEMICOLON {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "precision statement");

      // lazy setting of the previous scope's defaults, has effect only the first time it is called in a particular scope
      parseContext.symbolTable.setPreviousDefaultPrecisions(&parseContext.defaultPrecision[0]);
      parseContext.setDefaultPrecision($1.loc, $3, $2.qualifier.precision);
      $$ = 0;
  }
  | block_structure SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList);
      $$ = 0;
  }
  | block_structure IDENTIFIER SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList, $2.string);
       $$ = 0;
  }
  | block_structure IDENTIFIER array_specifier SEMICOLON {
      parseContext.declareBlock($1.loc, *$1.typeList, $2.string, $3.arraySizes);
      $$ = 0;
  }
  | type_qualifier SEMICOLON {
      parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
      parseContext.updateStandaloneQualifierDefaults($1.loc, $1);
      $$ = 0;
  }
  | type_qualifier IDENTIFIER SEMICOLON {
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
```

```
      parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$2.string);
      $$ = 0;
    }
  | type_qualifier IDENTIFIER identifier_list SEMICOLON {
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      $3->push_back($2.string);
      parseContext.addQualifierToExisting($1.loc, $1.qualifier, *$3);
      $$ = 0;
    }
  ;

block_structure
  : type_qualifier IDENTIFIER LEFT_BRACE { parseContext.nestedBlockCheck($1.loc); } struct_declaration_list
RIGHT_BRACE
 {
      --parseContext.structNestingLevel;
      parseContext.blockName = $2.string;
      parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.currentBlockQualifier = $1.qualifier;
      $$.loc = $1.loc;
      $$.typeList = $5;
    }

identifier_list
  : COMMA IDENTIFIER {
      $$ = new TIdentifierList;
      $$->push_back($2.string);
    }
  | identifier_list COMMA IDENTIFIER {
      $$ = $1;
      $$->push_back($3.string);
    }
  ;

function_prototype
  : function_declarator RIGHT_PAREN  {
      $$.function = $1;
      $$.loc = $2.loc;
    }
  ;

function_declarator
  : function_header {
      $$ = $1;
    }
  | function_header_with_parameters {
      $$ = $1;
```

```
  }
  ;


function_header_with_parameters
  : function_header parameter_declaration {
      // Add the parameter
      $$ = $1;
      if ($2.param.type->getBasicType()
 != EbtVoid)
          $1->addParameter($2.param);
      else
          delete $2.param.type;
  }
  | function_header_with_parameters COMMA parameter_declaration {
      //
      // Only first parameter of one-parameter functions can be void
      // The check for named parameters not being void is done in parameter_declarator
      //
      if ($3.param.type->getBasicType() == EbtVoid) {
          //
          // This parameter > first is void
          //
          parseContext.error($2.loc, "cannot be an argument type except for '(void)'", "void", "");
          delete $3.param.type;
      } else {
          // Add the parameter
          $$ = $1;
          $1->addParameter($3.param);
      }
  }
  ;

function_header
  : fully_specified_type IDENTIFIER LEFT_PAREN {
      if ($1.qualifier.storage != EvqGlobal && $1.qualifier.storage != EvqTemporary) {
          parseContext.error($2.loc, "no qualifiers allowed for function return",
                             GetStorageQualifierString($1.qualifier.storage), "");
      }
      if ($1.arraySizes)
          parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);

      // Add the function as a prototype after parsing it (we do not support recursion)
      TFunction *function;
      TType type($1);

      // Potentially rename shader entry point function.  No-op most of the time.
      parseContext.renameShaderFunction($2.string);
```

```
        // Make the function
        function = new TFunction($2.string, type);
        $$ = function;
    }
    ;

parameter_declarator
    // Type + name
    : type_specifier IDENTIFIER {
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }
        if ($1.basicType ==
   EbtVoid) {
            parseContext.error($2.loc, "illegal use of type 'void'", $2.string->c_str(), "");
        }
        parseContext.reservedErrorCheck($2.loc, *$2.string);

        TParameter param = {$2.string, new TType($1)};
        $$.loc = $2.loc;
        $$.param = param;
    }
    | type_specifier IDENTIFIER array_specifier {
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
        }
        parseContext.arrayDimCheck($2.loc, $1.arraySizes, $3.arraySizes);

        parseContext.arraySizeRequiredCheck($3.loc, *$3.arraySizes);
        parseContext.reservedErrorCheck($2.loc, *$2.string);

        TParameter param = { $2.string, new TType($1)};
        parseContext.arrayDimMerge(*param.type, $3.arraySizes);

        $$.loc = $2.loc;

       $$.param = param;
    }
    ;

parameter_declaration
    //
    // With name
```

```
  //
  : type_qualifier parameter_declarator {
      $$ = $2;
      if ($1.qualifier.precision != EpqNone)
          $$.param.type->getQualifier().precision = $1.qualifier.precision;
      parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());

      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$.param.type);
      parseContext.paramCheckFix($1.loc, $1.qualifier, *$$.param.type);

  }
  | parameter_declarator {
      $$ = $1;

      parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
      parseContext.paramCheckFix($1.loc, EvqTemporary, *$$.param.type);
      parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
  }
  //
  // Without name
  //
  | type_qualifier
 parameter_type_specifier {
      $$ = $2;
      if ($1.qualifier.precision != EpqNone)
          $$.param.type->getQualifier().precision = $1.qualifier.precision;
      parseContext.precisionQualifierCheck($1.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());

      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.parameterTypeCheck($2.loc, $1.qualifier.storage, *$$.param.type);
      parseContext.paramCheckFix($1.loc, $1.qualifier, *$$.param.type);
  }
  | parameter_type_specifier {
      $$ = $1;

      parseContext.parameterTypeCheck($1.loc, EvqIn, *$1.param.type);
      parseContext.paramCheckFix($1.loc, EvqTemporary, *$$.param.type);
      parseContext.precisionQualifierCheck($$.loc, $$.param.type->getBasicType(), $$.param.type->getQualifier());
  }
  ;

parameter_type_specifier
  : type_specifier {
      TParameter param = { 0, new TType($1) };
      $$.param = param;
      if ($1.arraySizes)
```

```
            parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
    }
    ;

init_declarator_list
    : single_declaration {
        $$ = $1;
    }
    | init_declarator_list COMMA IDENTIFIER {
        $$ = $1;
        parseContext.declareVariable($3.loc, *$3.string, $1.type);
    }
    | init_declarator_list COMMA IDENTIFIER array_specifier {
        $$ = $1;
        parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes);
    }
    | init_declarator_list COMMA IDENTIFIER array_specifier EQUAL initializer {
        $$.type = $1.type;
        TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, $4.arraySizes, $6);
        $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode, initNode, $5.loc);
    }
    | init_declarator_list COMMA IDENTIFIER EQUAL initializer {
        $$.type = $1.type;
        TIntermNode* initNode = parseContext.declareVariable($3.loc, *$3.string, $1.type, 0, $5);
        $$.intermNode = parseContext.intermediate.growAggregate($1.intermNode,
 initNode, $4.loc);
    }
    ;

single_declaration
    : fully_specified_type {
        $$.type = $1;
        $$.intermNode = 0;
        parseContext.declareTypeDefaults($$.loc, $$.type);
    }
    | fully_specified_type IDENTIFIER {
        $$.type = $1;
        $$.intermNode = 0;
        parseContext.declareVariable($2.loc, *$2.string, $1);
    }
    | fully_specified_type IDENTIFIER array_specifier {
        $$.type = $1;
        $$.intermNode = 0;
        parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes);
    }
    | fully_specified_type IDENTIFIER array_specifier EQUAL initializer {
        $$.type = $1;
        TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, $3.arraySizes, $5);
```

```
        $$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $4.loc);
    }
    | fully_specified_type IDENTIFIER EQUAL initializer {
        $$.type = $1;
        TIntermNode* initNode = parseContext.declareVariable($2.loc,
   *$2.string, $1, 0, $4);
        $$.intermNode = parseContext.intermediate.growAggregate(0, initNode, $3.loc);
    }

// Grammar Note:  No 'enum', or 'typedef'.

fully_specified_type
    : type_specifier {
        $$ = $1;

        parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $$);
        if ($1.arraySizes) {
            parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
        }

        parseContext.precisionQualifierCheck($$.loc, $$.basicType, $$.qualifier);
    }
    | type_qualifier type_specifier  {
        parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
        parseContext.globalQualifierTypeCheck($1.loc, $1.qualifier, $2);

        if ($2.arraySizes) {
            parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
            parseContext.profileRequires($2.loc,
   EEsProfile, 300, 0, "arrayed type");
        }

        if ($2.arraySizes && parseContext.arrayQualifierError($2.loc, $1.qualifier))
            $2.arraySizes = 0;

        parseContext.checkNoShaderLayouts($2.loc, $1.shaderQualifiers);
        $2.shaderQualifiers.merge($1.shaderQualifiers);
        parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
        parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

        $$ = $2;

        if (! $$.qualifier.isInterpolation() &&
            ((parseContext.language == EShLangVertex   && $$.qualifier.storage == EvqVaryingOut) ||
             (parseContext.language == EShLangFragment && $$.qualifier.storage == EvqVaryingIn)))
            $$.qualifier.smooth = true;
    }
```

```
  ;

invariant_qualifier
  : INVARIANT {
      parseContext.globalCheck($1.loc, "invariant");
      parseContext.profileRequires($$.loc, ENoProfile, 120, 0, "invariant");
      $$.init($1.loc);
      $$.qualifier.invariant
 = true;
  }
  ;

interpolation_qualifier
  : SMOOTH {
      parseContext.globalCheck($1.loc, "smooth");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "smooth");
      parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "smooth");
      $$.init($1.loc);
      $$.qualifier.smooth = true;
  }
  | FLAT {
      parseContext.globalCheck($1.loc, "flat");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "flat");
      parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "flat");
      $$.init($1.loc);
      $$.qualifier.flat = true;
  }
  | NOPERSPECTIVE {
      parseContext.globalCheck($1.loc, "noperspective");
      parseContext.requireProfile($1.loc, ~EEsProfile, "noperspective");
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "noperspective");
      $$.init($1.loc);
      $$.qualifier.nopersp = true;
  }
  | __EXPLICITINTERPAMD {
#ifdef AMD_EXTENSIONS
      parseContext.globalCheck($1.loc,
 "__explicitInterpAMD");
      parseContext.profileRequires($1.loc, ECoreProfile, 450, E_GL_AMD_shader_explicit_vertex_parameter,
"explicit interpolation");
      parseContext.profileRequires($1.loc, ECompatibilityProfile, 450,
E_GL_AMD_shader_explicit_vertex_parameter, "explicit interpolation");
      $$.init($1.loc);
      $$.qualifier.explicitInterp = true;
#endif
  }
  ;
```

```
layout_qualifier
  : LAYOUT LEFT_PAREN layout_qualifier_id_list RIGHT_PAREN {
      $$ = $3;
  }
  ;

layout_qualifier_id_list
  : layout_qualifier_id {
      $$ = $1;
  }
  | layout_qualifier_id_list COMMA layout_qualifier_id {
      $$ = $1;
      $$.shaderQualifiers.merge($3.shaderQualifiers);
      parseContext.mergeObjectLayoutQualifiers($$.qualifier, $3.qualifier, false);
  }

layout_qualifier_id
  : IDENTIFIER {
      $$.init($1.loc);
      parseContext.setLayoutQualifier($1.loc, $$, *$1.string);
  }
  | IDENTIFIER EQUAL constant_expression
 {
      $$.init($1.loc);
      parseContext.setLayoutQualifier($1.loc, $$, *$1.string, $3);
  }
  | SHARED { // because "shared" is both an identifier and a keyword
      $$.init($1.loc);
      TString strShared("shared");
      parseContext.setLayoutQualifier($1.loc, $$, strShared);
  }
  ;

precise_qualifier
  : PRECISE {
      parseContext.profileRequires($$.loc, ECoreProfile | ECompatibilityProfile, 400, E_GL_ARB_gpu_shader5,
"precise");
      parseContext.profileRequires($1.loc, EEsProfile, 320, Num_AEP_gpu_shader5, AEP_gpu_shader5, "precise");
      $$.init($1.loc);
      $$.qualifier.noContraction = true;
  }
  ;

type_qualifier
  : single_type_qualifier {
      $$ = $1;
  }
  | type_qualifier single_type_qualifier {
```

```
        $$ = $1;
        if ($$.basicType == EbtVoid)
            $$.basicType = $2.basicType;

        $$.shaderQualifiers.merge($2.shaderQualifiers);
        parseContext.mergeQualifiers($$.loc, $$.qualifier, $2.qualifier, false);
     }
    ;

single_type_qualifier
    : storage_qualifier {
        $$ = $1;
    }
    | layout_qualifier {
        $$ = $1;
    }
    | precision_qualifier {
        parseContext.checkPrecisionQualifier($1.loc, $1.qualifier.precision);
        $$ = $1;
    }
    | interpolation_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    | invariant_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    | precise_qualifier {
        // allow inheritance of storage qualifier from block declaration
        $$ = $1;
    }
    ;

storage_qualifier
    : CONST {
        $$.init($1.loc);
        $$.qualifier.storage = EvqConst;  // will later turn into EvqConstReadOnly, if the initializer is not constant
    }
    | ATTRIBUTE {
        parseContext.requireStage($1.loc, EShLangVertex, "attribute");
        parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "attribute");

        parseContext.checkDeprecated($1.loc, ENoProfile, 130, "attribute");
        parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "attribute");
        parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "attribute");

        parseContext.globalCheck($1.loc, "attribute");
```

```
        $$.init($1.loc);
        $$.qualifier.storage = EvqVaryingIn;
    }
    | VARYING {
        parseContext.checkDeprecated($1.loc, ENoProfile, 130, "varying");
        parseContext.checkDeprecated($1.loc, ECoreProfile, 130, "varying");
        parseContext.requireNotRemoved($1.loc, ECoreProfile, 420, "varying");
        parseContext.requireNotRemoved($1.loc, EEsProfile, 300, "varying");

        parseContext.globalCheck($1.loc, "varying");

        $$.init($1.loc);
        if (parseContext.language == EShLangVertex)
            $$.qualifier.storage = EvqVaryingOut;
        else
            $$.qualifier.storage = EvqVaryingIn;
    }
    | INOUT {
        parseContext.globalCheck($1.loc, "inout");
         $$.init($1.loc);
        $$.qualifier.storage = EvqInOut;
    }
    | IN {
        parseContext.globalCheck($1.loc, "in");
        $$.init($1.loc);
        // whether this is a parameter "in" or a pipeline "in" will get sorted out a bit later
        $$.qualifier.storage = EvqIn;
    }
    | OUT {
        parseContext.globalCheck($1.loc, "out");
        $$.init($1.loc);
        // whether this is a parameter "out" or a pipeline "out" will get sorted out a bit later
        $$.qualifier.storage = EvqOut;
    }
    | CENTROID {
        parseContext.profileRequires($1.loc, ENoProfile, 120, 0, "centroid");
        parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "centroid");
        parseContext.globalCheck($1.loc, "centroid");
        $$.init($1.loc);
        $$.qualifier.centroid = true;
    }
    | PATCH {
        parseContext.globalCheck($1.loc, "patch");
        parseContext.requireStage($1.loc, (EShLanguageMask)(EShLangTessControlMask |
EShLangTessEvaluationMask), "patch");
         $$.init($1.loc);
        $$.qualifier.patch = true;
```

```
    }
    | SAMPLE {
        parseContext.globalCheck($1.loc, "sample");
        $$.init($1.loc);
        $$.qualifier.sample = true;
    }
    | UNIFORM {
        parseContext.globalCheck($1.loc, "uniform");
        $$.init($1.loc);
        $$.qualifier.storage = EvqUniform;
    }
    | BUFFER {
        parseContext.globalCheck($1.loc, "buffer");
        $$.init($1.loc);
        $$.qualifier.storage = EvqBuffer;
    }
    | SHARED {
        parseContext.globalCheck($1.loc, "shared");
        parseContext.profileRequires($1.loc, ECoreProfile | ECompatibilityProfile, 430, E_GL_ARB_compute_shader,
"shared");
        parseContext.profileRequires($1.loc, EEsProfile, 310, 0, "shared");
        parseContext.requireStage($1.loc, EShLangCompute, "shared");
        $$.init($1.loc);
        $$.qualifier.storage = EvqShared;
    }
    | COHERENT {
        $$.init($1.loc);
        $$.qualifier.coherent = true;
    }
    | VOLATILE
   {
        $$.init($1.loc);
        $$.qualifier.volatil = true;
    }
    | RESTRICT {
        $$.init($1.loc);
        $$.qualifier.restrict = true;
    }
    | READONLY {
        $$.init($1.loc);
        $$.qualifier.readonly = true;
    }
    | WRITEONLY {
        $$.init($1.loc);
        $$.qualifier.writeonly = true;
    }
    | SUBROUTINE {
        parseContext.spvRemoved($1.loc, "subroutine");
```

```
        parseContext.globalCheck($1.loc, "subroutine");
        parseContext.unimplemented($1.loc, "subroutine");
        $$.init($1.loc);
    }
    | SUBROUTINE LEFT_PAREN type_name_list RIGHT_PAREN {
        parseContext.spvRemoved($1.loc, "subroutine");
        parseContext.globalCheck($1.loc, "subroutine");
        parseContext.unimplemented($1.loc, "subroutine");
        $$.init($1.loc);
    }
    ;

type_name_list
    : IDENTIFIER {
        // TODO
    }
    | type_name_list COMMA IDENTIFIER {
        // TODO: 4.0 semantics: subroutines
        // 1) make sure each identifier is a type
 declared earlier with SUBROUTINE
        // 2) save all of the identifiers for future comparison with the declared function
    }
    ;

type_specifier
    : type_specifier_nonarray {
        $$ = $1;
        $$.qualifier.precision = parseContext.getDefaultPrecision($$);
    }
    | type_specifier_nonarray array_specifier {
        parseContext.arrayDimCheck($2.loc, $2.arraySizes, 0);
        $$ = $1;
        $$.qualifier.precision = parseContext.getDefaultPrecision($$);
        $$.arraySizes = $2.arraySizes;
    }
    ;

array_specifier
    : LEFT_BRACKET RIGHT_BRACKET {
        $$.loc = $1.loc;
        $$.arraySizes = new TArraySizes;
        $$.arraySizes->addInnerSize();
    }
    | LEFT_BRACKET conditional_expression RIGHT_BRACKET {
        $$.loc = $1.loc;
        $$.arraySizes = new TArraySizes;

        TArraySize size;
```

```
        parseContext.arraySizeCheck($2->getLoc(), $2, size);
        $$.arraySizes->addInnerSize(size);
    }
    | array_specifier LEFT_BRACKET RIGHT_BRACKET
  {
        $$ = $1;
        $$.arraySizes->addInnerSize();
    }
    | array_specifier LEFT_BRACKET conditional_expression RIGHT_BRACKET {
        $$ = $1;

        TArraySize size;
        parseContext.arraySizeCheck($3->getLoc(), $3, size);
        $$.arraySizes->addInnerSize(size);
    }
    ;

type_specifier_nonarray
    : VOID {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtVoid;
    }
    | FLOAT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtFloat;
    }
    | DOUBLE {
        parseContext.doubleCheck($1.loc, "double");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtDouble;
    }
    | FLOAT16_T {
        parseContext.float16Check($1.loc, "float16_t", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtFloat16;
    }
    | FLOAT32_T {
        parseContext.explicitFloat32Check($1.loc,
   "float32_t", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtFloat;
    }
    | FLOAT64_T {
        parseContext.explicitFloat64Check($1.loc, "float64_t", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtDouble;
    }
    | INT {
```

```
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
    }
    | UINT {
      parseContext.fullIntegerCheck($1.loc, "unsigned integer");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
    }
    | INT8_T {
      parseContext.explicitInt8Check($1.loc, "8-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt8;
    }
    | UINT8_T {
      parseContext.explicitInt8Check($1.loc,
  "8-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint8;
    }
    | INT16_T {
      parseContext.explicitInt16Check($1.loc, "16-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt16;
    }
    | UINT16_T {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer",
  parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
    }
    | INT32_T {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
    }
    | UINT32_T {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned
   integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
    }
    | INT64_T {
      parseContext.int64Check($1.loc, "64-bit integer", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt64;
    }
    | UINT64_T {
      parseContext.int64Check($1.loc, "64-bit unsigned integer", parseContext.symbolTable.atBuiltInLevel());
```

```
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
  }
  | BOOL {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtBool;
  }
  | VEC2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setVector(2);
  }
  | VEC3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;

 $$.setVector(3);
  }
  | VEC4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setVector(4);
  }
  | DVEC2 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(2);
  }
  | DVEC3 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(3);
  }
  | DVEC4 {
    parseContext.doubleCheck($1.loc, "double vector");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setVector(4);
  }
  | F16VEC2 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
     $$.setVector(2);
  }
  | F16VEC3 {
```

```
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setVector(3);
  }
  | F16VEC4 {
    parseContext.float16Check($1.loc, "half float vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setVector(4);
  }
  | F32VEC2 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtFloat;
   $$.setVector(2);
   }
   | F32VEC3 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType
 = EbtFloat;
   $$.setVector(3);
   }
   | F32VEC4 {
   parseContext.explicitFloat32Check($1.loc, "float32_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtFloat;
   $$.setVector(4);
   }
   | F64VEC2 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtDouble;
   $$.setVector(2);
   }
   | F64VEC3 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtDouble;
   $$.setVector(3);
   }
   | F64VEC4 {
   parseContext.explicitFloat64Check($1.loc, "float64_t vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType
 = EbtDouble;
   $$.setVector(4);
```

```
}
| BVEC2 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtBool;
   $$.setVector(2);
}
| BVEC3 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtBool;
   $$.setVector(3);
}
| BVEC4 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtBool;
   $$.setVector(4);
}
| IVEC2 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt;
   $$.setVector(2);
}
| IVEC3 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt;
   $$.setVector(3);
}
| IVEC4 {
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt;
   $$.setVector(4);
}
| I8VEC2 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(2);
}
| I8VEC3 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(3);
}
| I8VEC4 {
 parseContext.explicitInt8Check($1.loc, "8-bit signed integer vector", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtInt8;
 $$.setVector(4);
```

```
  }
  | I16VEC2 {
   parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt16;
   $$.setVector(2);
  }
  | I16VEC3 {
   parseContext.explicitInt16Check($1.loc, "16-bit
 signed integer vector", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt16;
   $$.setVector(3);
  }
  | I16VEC4 {
   parseContext.explicitInt16Check($1.loc, "16-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
   $$.basicType = EbtInt16;
   $$.setVector(4);
  }
  | I32VEC2 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(2);
  }
  | I32VEC3 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(3);
  }
  | I32VEC4
 {
      parseContext.explicitInt32Check($1.loc, "32-bit signed integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt;
      $$.setVector(4);
  }
  | I64VEC2 {
      parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtInt64;
```

```
        $$.setVector(2);
    }
    | I64VEC3 {
        parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt64;
        $$.setVector(3);
    }
    | I64VEC4 {
        parseContext.int64Check($1.loc, "64-bit integer vector", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt64;

     $$.setVector(4);
    }
    | UVEC2 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(2);
    }
    | UVEC3 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(3);
    }
    | UVEC4 {
        parseContext.fullIntegerCheck($1.loc, "unsigned integer vector");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint;
        $$.setVector(4);
    }
    | U8VEC2 {
        parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtUint8;
        $$.setVector(2);
    }
    | U8VEC3 {
        parseContext.explicitInt8Check($1.loc,
 "8-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtInt8;
        $$.setVector(3);
    }
    | U8VEC4 {
```

```
      parseContext.explicitInt8Check($1.loc, "8-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint8;
      $$.setVector(4);
    }
    | U16VEC2 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
      $$.setVector(2);
    }
    | U16VEC3 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
       $$.setVector(3);
    }
    | U16VEC4 {
      parseContext.explicitInt16Check($1.loc, "16-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint16;
      $$.setVector(4);
    }
    | U32VEC2 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(2);
    }
    | U32VEC3 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(3);
    }
    | U32VEC4 {
      parseContext.explicitInt32Check($1.loc, "32-bit unsigned integer vector",
parseContext.symbolTable.atBuiltInLevel());

      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtUint;
      $$.setVector(4);
```

```
}
| U64VEC2 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(2);
}
| U64VEC3 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(3);
}
| U64VEC4 {
    parseContext.int64Check($1.loc, "64-bit unsigned integer vector", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtUint64;
    $$.setVector(4);
}
| MAT2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat;
    $$.setMatrix(2, 2);
}
| MAT3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(3, 3);
}
| MAT4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(4, 4);
}
| MAT2X2 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 2);
}
| MAT2X3 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 3);
}
| MAT2X4 {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat;
    $$.setMatrix(2, 4);
```

```
  }
  | MAT3X2 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(3, 2);
  }
  | MAT3X3 {
      $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(3, 3);
  }
  | MAT3X4 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(3, 4);
  }
  | MAT4X2 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(4, 2);
  }
  | MAT4X3 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(4, 3);
  }
  | MAT4X4 {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtFloat;
      $$.setMatrix(4, 4);
  }
  | DMAT2 {
      parseContext.doubleCheck($1.loc, "double matrix");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtDouble;
      $$.setMatrix(2, 2);
  }
  | DMAT3 {
      parseContext.doubleCheck($1.loc, "double matrix");
      $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtDouble;
      $$.setMatrix(3, 3);
  }
  | DMAT4 {
      parseContext.doubleCheck($1.loc, "double matrix");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 4);
  }
  | DMAT2X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 2);
  }
  | DMAT2X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 3);
  }
  | DMAT2X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(2, 4);
  }
  | DMAT3X2 {
    parseContext.doubleCheck($1.loc,
"double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 2);
  }
  | DMAT3X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 3);
  }
  | DMAT3X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(3, 4);
  }
  | DMAT4X2 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 2);
  }
  | DMAT4X3 {
    parseContext.doubleCheck($1.loc, "double matrix");
```

```
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4,
3);
  }
  | DMAT4X4 {
    parseContext.doubleCheck($1.loc, "double matrix");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtDouble;
    $$.setMatrix(4, 4);
  }
  | F16MAT2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 2);
  }
  | F16MAT3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 3);
  }
  | F16MAT4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 4);
  }

  | F16MAT2X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 2);
  }
  | F16MAT2X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 3);
  }
  | F16MAT2X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(2, 4);
  }
```

```
| F16MAT3X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
     $$.setMatrix(3, 2);
}
| F16MAT3X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 3);
}
| F16MAT3X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(3, 4);
}
| F16MAT4X2 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 2);
}
| F16MAT4X3 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
     $$.basicType = EbtFloat16;
    $$.setMatrix(4, 3);
}
| F16MAT4X4 {
    parseContext.float16Check($1.loc, "half float matrix", parseContext.symbolTable.atBuiltInLevel());
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtFloat16;
    $$.setMatrix(4, 4);
}
| F32MAT2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 2);
}
| F32MAT3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 3);
}
```

```
| F32MAT4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtFloat;
 $$.setMatrix(4, 4);
 }
 | F32MAT2X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 2);
 }
 | F32MAT2X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 3);
 }
 | F32MAT2X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(2, 4);
 }
 | F32MAT3X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc,
parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 2);
 }
 | F32MAT3X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 3);
 }
 | F32MAT3X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(3, 4);
 }
 | F32MAT4X2 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 2);
```

```
}
| F32MAT4X3 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 3);
}
| F32MAT4X4 {
 parseContext.explicitFloat32Check($1.loc, "float32_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtFloat;
 $$.setMatrix(4, 4);
}
| F64MAT2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 2);
}
| F64MAT3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(3, 3);
}
| F64MAT4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(4, 4);
}
| F64MAT2X2 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 2);
}
| F64MAT2X3 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 3);
}
| F64MAT2X4 {
 parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
 $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
 $$.basicType = EbtDouble;
 $$.setMatrix(2, 4);
```

```
 }
 | F64MAT3X2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
   $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(3, 2);
 }
 | F64MAT3X3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(3, 3);
 }
 | F64MAT3X4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(3, 4);
 }
 | F64MAT4X2 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(4, 2);
 }
 | F64MAT4X3 {
  parseContext.explicitFloat64Check($1.loc, "float64_t
matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(4, 3);
 }
 | F64MAT4X4 {
  parseContext.explicitFloat64Check($1.loc, "float64_t matrix", parseContext.symbolTable.atBuiltInLevel());
  $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
  $$.basicType = EbtDouble;
  $$.setMatrix(4, 4);
 }
 | ATOMIC_UINT {
    parseContext.vulkanRemoved($1.loc, "atomic counter types");
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtAtomicUint;
 }
 | SAMPLER1D {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd1D);
 }
```

```
| SAMPLER2D {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D);
}
| SAMPLER3D {

$$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd3D);
}
| SAMPLERCUBE {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, EsdCube);
}
| SAMPLER1DSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd1D, false, true);
}
| SAMPLER2DSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D, false, true);
}
| SAMPLERCUBESHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, EsdCube, false, true);
}
| SAMPLER1DARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
     $$.sampler.set(EbtFloat, Esd1D, true);
}
| SAMPLER2DARRAY {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd2D, true);
}
| SAMPLER1DARRAYSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
    $$.basicType = EbtSampler;
    $$.sampler.set(EbtFloat, Esd1D, true, true);
}
| SAMPLER2DARRAYSHADOW {
    $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, Esd2D, true, true);
    }
    | SAMPLERCUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, EsdCube, true);
    }
    | SAMPLERCUBEARRAYSHADOW {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, EsdCube, true, true);
    }
    | F16SAMPLER1D
  {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd1D);
#endif
    }
    | F16SAMPLER2D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd2D);
#endif
    }
    | F16SAMPLER3D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd3D);
#endif
    }
    | F16SAMPLERCUBE {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc,
   "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdCube);
#endif
    }
    | F16SAMPLER1DSHADOW {
```

```
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd1D, false, true);
#endif
   }
  | F16SAMPLER2DSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D, false, true);
#endif
   }
  | F16SAMPLERCUBESHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc,
 "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdCube, false, true);
#endif
   }
  | F16SAMPLER1DARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd1D, true);
#endif
   }
  | F16SAMPLER2DARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D, true);
#endif
   }
  | F16SAMPLER1DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc,
 "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd1D, true, true);
#endif
```

```
  }
  | F16SAMPLER2DARRAYSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, Esd2D, true, true);
#endif
  }
  | F16SAMPLERCUBEARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdCube, true);
#endif
  }
  | F16SAMPLERCUBEARRAYSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc,
 "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdCube, true, true);
#endif
  }
  | ISAMPLER1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd1D);
  }
  | ISAMPLER2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd2D);
  }
  | ISAMPLER3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd3D);
  }
  | ISAMPLERCUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, EsdCube);
  }
  | ISAMPLER1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd1D, true);
    }
    | ISAMPLER2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, Esd2D, true);
    }
    | ISAMPLERCUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, EsdCube, true);
    }
    | USAMPLER1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd1D);
    }
    | USAMPLER2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D);
    }
    | USAMPLER3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd3D);
    }
    | USAMPLERCUBE {
      $$.init($1.loc,
  parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, EsdCube);
    }
    | USAMPLER1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd1D, true);
    }
    | USAMPLER2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, Esd2D, true);
    }
    | USAMPLERCUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtUint, EsdCube, true);
```

```
  }
  | SAMPLER2DRECT {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, EsdRect);
  }
  | SAMPLER2DRECTSHADOW {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat,
 EsdRect, false, true);
  }
  | F16SAMPLER2DRECT {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdRect);
#endif
  }
  | F16SAMPLER2DRECTSHADOW {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat16, EsdRect, false, true);
#endif
  }
  | ISAMPLER2DRECT {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtInt, EsdRect);
  }
  | USAMPLER2DRECT {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;

  $$.sampler.set(EbtUint, EsdRect);
  }
  | SAMPLERBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.set(EbtFloat, EsdBuffer);
  }
  | F16SAMPLERBUFFER {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, EsdBuffer);
    #endif
      }
      | ISAMPLERBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, EsdBuffer);
      }
      | USAMPLERBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtUint, EsdBuffer);
      }
      | SAMPLER2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
         $$.sampler.set(EbtFloat, Esd2D, false, false, true);
      }
      | F16SAMPLER2DMS {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat16, Esd2D, false, false, true);
    #endif
      }
      | ISAMPLER2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd2D, false, false, true);
      }
      | USAMPLER2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtUint, Esd2D, false, false, true);
      }
      | SAMPLER2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, Esd2D, true, false, true);
      }
      | F16SAMPLER2DMSARRAY
     {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float sampler", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
```

```
        $$.sampler.set(EbtFloat16, Esd2D, true, false, true);
#endif
    }
    | ISAMPLER2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtInt, Esd2D, true, false, true);
    }
    | USAMPLER2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtUint, Esd2D, true, false, true);
    }
    | SAMPLER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setPureSampler(false);
    }
    | SAMPLERSHADOW {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
         $$.sampler.setPureSampler(true);
    }
    | TEXTURE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd1D);
    }
    | F16TEXTURE1D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd1D);
#endif
    }
    | TEXTURE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd2D);
    }
    | F16TEXTURE2D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16,
```

```
 Esd2D);
#endif
   }
  | TEXTURE3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, Esd3D);
   }
  | F16TEXTURE3D {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16, Esd3D);
#endif
   }
  | TEXTURECUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, EsdCube);
   }
  | F16TEXTURECUBE {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16,
 EsdCube);
#endif
   }
  | TEXTURE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, Esd1D, true);
   }
  | F16TEXTURE1DARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16, Esd1D, true);
#endif
   }
  | TEXTURE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, Esd2D, true);
   }
```

```
  | F16TEXTURE2DARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
       $$.sampler.setTexture(EbtFloat16, Esd2D, true);
#endif
  }
  | TEXTURECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, EsdCube, true);
  }
  | F16TEXTURECUBEARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat16, EsdCube, true);
#endif
  }
  | ITEXTURE1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, Esd1D);
  }
  | ITEXTURE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, Esd2D);
  }
  | ITEXTURE3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
       $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, Esd3D);
  }
  | ITEXTURECUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, EsdCube);
  }
  | ITEXTURE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, Esd1D, true);
  }
  | ITEXTURE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
```

```
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, Esd2D, true);
    }
    | ITEXTURECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtInt, EsdCube, true);
    }
    | UTEXTURE1D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint,
  Esd1D);
    }
    | UTEXTURE2D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, Esd2D);
    }
    | UTEXTURE3D {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, Esd3D);
    }
    | UTEXTURECUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, EsdCube);
    }
    | UTEXTURE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, Esd1D, true);
    }
    | UTEXTURE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, Esd2D, true);
    }
    | UTEXTURECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
       $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtUint, EsdCube, true);
    }
    | TEXTURE2DRECT {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setTexture(EbtFloat, EsdRect);
```

```
    }
    | F16TEXTURE2DRECT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, EsdRect);
#endif
    }
    | ITEXTURE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdRect);
    }
    | UTEXTURE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdRect);
    }
    | TEXTUREBUFFER
   {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, EsdBuffer);
    }
    | F16TEXTUREBUFFER {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, EsdBuffer);
#endif
    }
    | ITEXTUREBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, EsdBuffer);
    }
    | UTEXTUREBUFFER {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, EsdBuffer);
    }
    | TEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat,
```

```
 Esd2D, false, false, true);
    }
    | F16TEXTURE2DMS {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd2D, false, false, true);
#endif
    }
    | ITEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D, false, false, true);
    }
    | UTEXTURE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D, false, false, true);
    }
    | TEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat, Esd2D, true, false, true);
    }
    | F16TEXTURE2DMSARRAY
   {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float texture", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtFloat16, Esd2D, true, false, true);
#endif
    }
    | ITEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtInt, Esd2D, true, false, true);
    }
    | UTEXTURE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setTexture(EbtUint, Esd2D, true, false, true);
    }
    | IMAGE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd1D);
```

```
    }
    | F16IMAGE1D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float
 image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd1D);
#endif
    }
    | IIMAGE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd1D);
    }
    | UIMAGE1D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd1D);
    }
    | IMAGE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd2D);
    }
    | F16IMAGE2D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16,
 Esd2D);
#endif
    }
    | IIMAGE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd2D);
    }
    | UIMAGE2D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd2D);
    }
    | IMAGE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd3D);
```

```
    }
    | F16IMAGE3D {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd3D);
#endif
    }
    | IIMAGE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt,
 Esd3D);
    }
    | UIMAGE3D {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd3D);
    }
    | IMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdRect);
    }
    | F16IMAGE2DRECT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdRect);
#endif
    }
    | IIMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, EsdRect);
    }
    | UIMAGE2DRECT {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
         $$.sampler.setImage(EbtUint, EsdRect);
    }
    | IMAGECUBE {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, EsdCube);
    }
```

```
  | F16IMAGECUBE {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, EsdCube);
#endif
  }
  | IIMAGECUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, EsdCube);
  }
  | UIMAGECUBE {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, EsdCube);
  }
  | IMAGEBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType
 = EbtSampler;
      $$.sampler.setImage(EbtFloat, EsdBuffer);
  }
  | F16IMAGEBUFFER {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, EsdBuffer);
#endif
  }
  | IIMAGEBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, EsdBuffer);
  }
  | UIMAGEBUFFER {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, EsdBuffer);
  }
  | IMAGE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd1D, true);
  }
  | F16IMAGE1DARRAY {
```

```
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc,
 "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, Esd1D, true);
#endif
    }
    | IIMAGE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd1D, true);
    }
    | UIMAGE1DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd1D, true);
    }
    | IMAGE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, Esd2D, true);
    }
    | F16IMAGE2DARRAY {
#ifdef AMD_EXTENSIONS
      parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
       $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat16, Esd2D, true);
#endif
    }
    | IIMAGE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtInt, Esd2D, true);
    }
    | UIMAGE2DARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtUint, Esd2D, true);
    }
    | IMAGECUBEARRAY {
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      $$.basicType = EbtSampler;
      $$.sampler.setImage(EbtFloat, EsdCube, true);
    }
    | F16IMAGECUBEARRAY {
#ifdef AMD_EXTENSIONS
```

```
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, EsdCube, true);
    #endif
      }
    | IIMAGECUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, EsdCube, true);
    }
    | UIMAGECUBEARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, EsdCube, true);
    }
    | IMAGE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd2D, false, false, true);
    }
    | F16IMAGE2DMS {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd2D, false, false, true);
    #endif
    }
    | IIMAGE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());

    $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd2D, false, false, true);
    }
    | UIMAGE2DMS {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd2D, false, false, true);
    }
    | IMAGE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat, Esd2D, true, false, true);
    }
    | F16IMAGE2DMSARRAY {
    #ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float image", parseContext.symbolTable.atBuiltInLevel());
```

```
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtFloat16, Esd2D, true, false, true);
#endif
    }
    | IIMAGE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtInt, Esd2D, true,
 false, true);
    }
    | UIMAGE2DMSARRAY {
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setImage(EbtUint, Esd2D, true, false, true);
    }
    | SAMPLEREXTERNALOES {  // GL_OES_EGL_image_external
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.set(EbtFloat, Esd2D);
        $$.sampler.external = true;
    }
    | SUBPASSINPUT {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtFloat);
    }
    | SUBPASSINPUTMS {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtFloat, true);
    }
    | F16SUBPASSINPUT {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtFloat16);
#endif
    }
    | F16SUBPASSINPUTMS {
#ifdef AMD_EXTENSIONS
        parseContext.float16OpaqueCheck($1.loc, "half float subpass input",
parseContext.symbolTable.atBuiltInLevel());
```

```
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtFloat16, true);
    #endif
      }
      | ISUBPASSINPUT {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtInt);
       }
      | ISUBPASSINPUTMS {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtInt, true);
      }
      | USUBPASSINPUT {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtUint);
      }
      | USUBPASSINPUTMS {
        parseContext.requireStage($1.loc, EShLangFragment, "subpass input");
        $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
        $$.basicType = EbtSampler;
        $$.sampler.setSubpass(EbtUint, true);
      }
      | struct_specifier {
        $$ = $1;
        $$.qualifier.storage = parseContext.symbolTable.atGlobalLevel() ? EvqGlobal : EvqTemporary;
        parseContext.structTypeCheck($$.loc, $$);
      }
      | TYPE_NAME {

    //
        // This is for user defined type names.  The lexical phase looked up the
        // type.
        //
        if (const TVariable* variable = ($1.symbol)->getAsVariable()) {
            const TType& structure = variable->getType();
            $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
            $$.basicType = EbtStruct;
            $$.userDef = &structure;
        } else
            parseContext.error($1.loc, "expected type name", $1.string->c_str(), "");
```

```
  }
  ;

precision_qualifier
  : HIGH_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "highp precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc, $$.qualifier, EpqHigh);
  }
  | MEDIUM_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "mediump precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc,
 $$.qualifier, EpqMedium);
  }
  | LOW_PRECISION {
      parseContext.profileRequires($1.loc, ENoProfile, 130, 0, "lowp precision qualifier");
      $$.init($1.loc, parseContext.symbolTable.atGlobalLevel());
      parseContext.handlePrecisionQualifier($1.loc, $$.qualifier, EpqLow);
  }
  ;

struct_specifier
  : STRUCT IDENTIFIER LEFT_BRACE { parseContext.nestedStructCheck($1.loc); } struct_declaration_list
RIGHT_BRACE {
      TType* structure = new TType($5, *$2.string);
      parseContext.structArrayCheck($2.loc, *structure);
      TVariable* userTypeDef = new TVariable($2.string, *structure, true);
      if (! parseContext.symbolTable.insert(*userTypeDef))
          parseContext.error($2.loc, "redefinition", $2.string->c_str(), "struct");
      $$.init($1.loc);
      $$.basicType = EbtStruct;
      $$.userDef = structure;
      --parseContext.structNestingLevel;
  }
  | STRUCT LEFT_BRACE { parseContext.nestedStructCheck($1.loc);
 } struct_declaration_list RIGHT_BRACE {
      TType* structure = new TType($4, TString(""));
      $$.init($1.loc);
      $$.basicType = EbtStruct;
      $$.userDef = structure;
      --parseContext.structNestingLevel;
  }
  ;

struct_declaration_list
  : struct_declaration {
      $$ = $1;
```

```
  }
  | struct_declaration_list struct_declaration {
      $$ = $1;
      for (unsigned int i = 0; i < $2->size(); ++i) {
          for (unsigned int j = 0; j < $$->size(); ++j) {
              if ((*$$)[j].type->getFieldName() == (*$2)[i].type->getFieldName())
                  parseContext.error((*$2)[i].loc, "duplicate member name:", "", (*$2)[i].type->getFieldName().c_str());
          }
          $$->push_back((*$2)[i]);
      }
  }
  ;

struct_declaration
  : type_specifier struct_declarator_list SEMICOLON {
      if ($1.arraySizes) {
          parseContext.profileRequires($1.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed
 type");
          parseContext.profileRequires($1.loc, EEsProfile, 300, 0, "arrayed type");
          if (parseContext.profile == EEsProfile)
              parseContext.arraySizeRequiredCheck($1.loc, *$1.arraySizes);
      }

      $$ = $2;

      parseContext.voidErrorCheck($1.loc, (*$2)[0].type->getFieldName(), $1.basicType);
      parseContext.precisionQualifierCheck($1.loc, $1.basicType, $1.qualifier);

      for (unsigned int i = 0; i < $$->size(); ++i) {
          parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $1.arraySizes);
          (*$$)[i].type->mergeType($1);
      }
  }
  | type_qualifier type_specifier struct_declarator_list SEMICOLON {
      parseContext.globalQualifierFixCheck($1.loc, $1.qualifier);
      if ($2.arraySizes) {
          parseContext.profileRequires($2.loc, ENoProfile, 120, E_GL_3DL_array_objects, "arrayed type");
          parseContext.profileRequires($2.loc, EEsProfile, 300, 0, "arrayed type");
          if (parseContext.profile
 == EEsProfile)
              parseContext.arraySizeRequiredCheck($2.loc, *$2.arraySizes);
      }

      $$ = $3;

      parseContext.checkNoShaderLayouts($1.loc, $1.shaderQualifiers);
      parseContext.voidErrorCheck($2.loc, (*$3)[0].type->getFieldName(), $2.basicType);
      parseContext.mergeQualifiers($2.loc, $2.qualifier, $1.qualifier, true);
```

```
        parseContext.precisionQualifierCheck($2.loc, $2.basicType, $2.qualifier);

        for (unsigned int i = 0; i < $$->size(); ++i) {
            parseContext.arrayDimCheck($1.loc, (*$$)[i].type, $2.arraySizes);
            (*$$)[i].type->mergeType($2);
        }
    }
    ;

struct_declarator_list
    : struct_declarator {
        $$ = new TTypeList;
        $$->push_back($1);
    }
    | struct_declarator_list COMMA struct_declarator {
        $$->push_back($3);
    }
    ;

struct_declarator
    : IDENTIFIER {
        $$.type = new TType(EbtVoid);
        $$.loc = $1.loc;
        $$.type->setFieldName(*$1.string);
     }
    | IDENTIFIER array_specifier {
        parseContext.arrayDimCheck($1.loc, $2.arraySizes, 0);

        $$.type = new TType(EbtVoid);
        $$.loc = $1.loc;
        $$.type->setFieldName(*$1.string);
        $$.type->newArraySizes(*$2.arraySizes);
    }
    ;

initializer
    : assignment_expression {
        $$ = $1;
    }
    | LEFT_BRACE initializer_list RIGHT_BRACE {
        const char* initFeature = "{ } style initializers";
        parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
        parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
        $$ = $2;
    }
    | LEFT_BRACE initializer_list COMMA RIGHT_BRACE {
        const char* initFeature = "{ } style initializers";
        parseContext.requireProfile($1.loc, ~EEsProfile, initFeature);
```

```
      parseContext.profileRequires($1.loc, ~EEsProfile, 420, E_GL_ARB_shading_language_420pack, initFeature);
      $$ = $2;
    }
    ;

initializer_list
     : initializer {
      $$ = parseContext.intermediate.growAggregate(0, $1, $1->getLoc());
    }
    | initializer_list COMMA initializer {
      $$ = parseContext.intermediate.growAggregate($1, $3);
    }
    ;

declaration_statement
    : declaration { $$ = $1; }
    ;

statement
    : compound_statement  { $$ = $1; }
    | simple_statement    { $$ = $1; }
    ;

// Grammar Note:  labeled statements for switch statements only; 'goto' is not supported.

simple_statement
    : declaration_statement { $$ = $1; }
    | expression_statement  { $$ = $1; }
    | selection_statement   { $$ = $1; }
    | switch_statement      { $$ = $1; }
    | case_label            { $$ = $1; }
    | iteration_statement   { $$ = $1; }
    | jump_statement        { $$ = $1; }
    ;

compound_statement
    : LEFT_BRACE RIGHT_BRACE { $$ = 0; }
    | LEFT_BRACE {
      parseContext.symbolTable.push();
      ++parseContext.statementNestingLevel;
    }
     statement_list {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
       --parseContext.statementNestingLevel;
    }
     RIGHT_BRACE {
      if ($3 && $3->getAsAggregate())
          $3->getAsAggregate()->setOperator(EOpSequence);
```

```
    $$ = $3;
  }
  ;

statement_no_new_scope
  : compound_statement_no_new_scope { $$ = $1; }
  | simple_statement                { $$ = $1; }
  ;

statement_scoped
  : {
      ++parseContext.controlFlowNestingLevel;
  }
    compound_statement  {
      --parseContext.controlFlowNestingLevel;
      $$ = $2;
  }
  | {
      parseContext.symbolTable.push();
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
  }
    simple_statement {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
      $$ = $2;
  }

compound_statement_no_new_scope
   // Statement that doesn't create a new scope,
 for selection_statement, iteration_statement
  : LEFT_BRACE RIGHT_BRACE {
      $$ = 0;
  }
  | LEFT_BRACE statement_list RIGHT_BRACE {
      if ($2 && $2->getAsAggregate())
          $2->getAsAggregate()->setOperator(EOpSequence);
      $$ = $2;
  }
  ;

statement_list
  : statement {
      $$ = parseContext.intermediate.makeAggregate($1);
      if ($1 && $1->getAsBranchNode() && ($1->getAsBranchNode()->getFlowOp() == EOpCase ||
                                          $1->getAsBranchNode()->getFlowOp() == EOpDefault)) {
          parseContext.wrapupSwitchSubsequence(0, $1);
```

```
            $$ = 0;  // start a fresh subsequence for what's after this case
        }
    }
    | statement_list statement {
        if ($2 && $2->getAsBranchNode() && ($2->getAsBranchNode()->getFlowOp() == EOpCase ||
                                            $2->getAsBranchNode()->getFlowOp() == EOpDefault)) {
            parseContext.wrapupSwitchSubsequence($1 ? $1->getAsAggregate()
 : 0, $2);
            $$ = 0;  // start a fresh subsequence for what's after this case
        } else
            $$ = parseContext.intermediate.growAggregate($1, $2);
    }
    ;

expression_statement
    : SEMICOLON  { $$ = 0; }
    | expression SEMICOLON  { $$ = static_cast<TIntermNode*>($1); }
    ;

selection_statement
    : selection_statement_nonattributed {
        $$ = $1;
    }
    | attribute selection_statement_nonattributed {
        parseContext.handleSelectionAttributes(*$1, $2);
        $$ = $2;
    }

selection_statement_nonattributed
    : IF LEFT_PAREN expression RIGHT_PAREN selection_rest_statement {
        parseContext.boolCheck($1.loc, $3);
        $$ = parseContext.intermediate.addSelection($3, $5, $1.loc);
    }
    ;

selection_rest_statement
    : statement_scoped ELSE statement_scoped {
        $$.node1 = $1;
        $$.node2 = $3;
    }
    | statement_scoped {
        $$.node1 = $1;
        $$.node2 = 0;
    }
    ;

condition
    // In 1996 c++ draft,
```

```
 conditions can include single declarations
  : expression {
      $$ = $1;
      parseContext.boolCheck($1->getLoc(), $1);
  }
  | fully_specified_type IDENTIFIER EQUAL initializer {
      parseContext.boolCheck($2.loc, $1);

      TType type($1);
      TIntermNode* initNode = parseContext.declareVariable($2.loc, *$2.string, $1, 0, $4);
      if (initNode)
          $$ = initNode->getAsTyped();
      else
          $$ = 0;
  }
  ;

switch_statement
  : switch_statement_nonattributed {
      $$ = $1;
  }
  | attribute switch_statement_nonattributed {
      parseContext.handleSwitchAttributes(*$1, $2);
      $$ = $2;
  }

switch_statement_nonattributed
  : SWITCH LEFT_PAREN expression RIGHT_PAREN {
      // start new switch sequence on the switch stack
      ++parseContext.controlFlowNestingLevel;
      ++parseContext.statementNestingLevel;
      parseContext.switchSequenceStack.push_back(new TIntermSequence);
      parseContext.switchLevel.push_back(parseContext.statementNestingLevel);
       parseContext.symbolTable.push();
  }
  LEFT_BRACE switch_statement_list RIGHT_BRACE {
      $$ = parseContext.addSwitch($1.loc, $3, $7 ? $7->getAsAggregate() : 0);
      delete parseContext.switchSequenceStack.back();
      parseContext.switchSequenceStack.pop_back();
      parseContext.switchLevel.pop_back();
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
  }
  ;

switch_statement_list
  : /* nothing */ {
```

```
        $$ = 0;
    }
    | statement_list {
        $$ = $1;
    }
    ;

case_label
    : CASE expression COLON {
        $$ = 0;
        if (parseContext.switchLevel.size() == 0)
            parseContext.error($1.loc, "cannot appear outside switch statement", "case", "");
        else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
            parseContext.error($1.loc,
 "cannot be nested inside control flow", "case", "");
        else {
            parseContext.constantValueCheck($2, "case");
            parseContext.integerCheck($2, "case");
            $$ = parseContext.intermediate.addBranch(EOpCase, $2, $1.loc);
        }
    }
    | DEFAULT COLON {
        $$ = 0;
        if (parseContext.switchLevel.size() == 0)
            parseContext.error($1.loc, "cannot appear outside switch statement", "default", "");
        else if (parseContext.switchLevel.back() != parseContext.statementNestingLevel)
            parseContext.error($1.loc, "cannot be nested inside control flow", "default", "");
        else
            $$ = parseContext.intermediate.addBranch(EOpDefault, $1.loc);
    }
    ;

iteration_statement
    : iteration_statement_nonattributed {
        $$ = $1;
    }
    | attribute iteration_statement_nonattributed {
        parseContext.handleLoopAttributes(*$1, $2);
        $$ = $2;
    }

iteration_statement_nonattributed
    : WHILE LEFT_PAREN {
        if (! parseContext.limits.whileLoops)
            parseContext.error($1.loc, "while loops not available", "limitation", "");
        parseContext.symbolTable.push();
        ++parseContext.loopNestingLevel;
        ++parseContext.statementNestingLevel;
```

```
      ++parseContext.controlFlowNestingLevel;
    }
     condition RIGHT_PAREN statement_no_new_scope {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      $$ = parseContext.intermediate.addLoop($6, $4, 0, true, $1.loc);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    | DO {
      ++parseContext.loopNestingLevel;
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
    }
     statement WHILE LEFT_PAREN expression RIGHT_PAREN SEMICOLON {
      if (! parseContext.limits.whileLoops)
          parseContext.error($1.loc, "do-while loops
 not available", "limitation", "");

      parseContext.boolCheck($8.loc, $6);

      $$ = parseContext.intermediate.addLoop($3, $6, 0, false, $4.loc);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    | FOR LEFT_PAREN {
      parseContext.symbolTable.push();
      ++parseContext.loopNestingLevel;
      ++parseContext.statementNestingLevel;
      ++parseContext.controlFlowNestingLevel;
    }
     for_init_statement for_rest_statement RIGHT_PAREN statement_no_new_scope {
      parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
      $$ = parseContext.intermediate.makeAggregate($4, $2.loc);
      TIntermLoop* forLoop = parseContext.intermediate.addLoop($7, reinterpret_cast<TIntermTyped*>($5.node1),
 reinterpret_cast<TIntermTyped*>($5.node2), true, $1.loc);
      if (! parseContext.limits.nonInductiveForLoops)
          parseContext.inductiveLoopCheck($1.loc,
 $4, forLoop);
      $$ = parseContext.intermediate.growAggregate($$, forLoop, $1.loc);
      $$->getAsAggregate()->setOperator(EOpSequence);
      --parseContext.loopNestingLevel;
      --parseContext.statementNestingLevel;
      --parseContext.controlFlowNestingLevel;
    }
    ;
```

```
for_init_statement
  : expression_statement {
      $$ = $1;
  }
  | declaration_statement {
      $$ = $1;
  }
  ;

conditionopt
  : condition {
      $$ = $1;
  }
  | /* May be null */ {
      $$ = 0;
  }
  ;

for_rest_statement
  : conditionopt SEMICOLON {
      $$.node1 = $1;
      $$.node2 = 0;
  }
  | conditionopt SEMICOLON expression  {
      $$.node1 = $1;
      $$.node2 = $3;
  }
  ;

jump_statement
  : CONTINUE SEMICOLON {
      if (parseContext.loopNestingLevel <= 0)
          parseContext.error($1.loc, "continue statement only allowed in loops", "", "");
      $$ = parseContext.intermediate.addBranch(EOpContinue, $1.loc);
  }
  |
 BREAK SEMICOLON {
      if (parseContext.loopNestingLevel + parseContext.switchSequenceStack.size() <= 0)
          parseContext.error($1.loc, "break statement only allowed in switch and loops", "", "");
      $$ = parseContext.intermediate.addBranch(EOpBreak, $1.loc);
  }
  | RETURN SEMICOLON {
      $$ = parseContext.intermediate.addBranch(EOpReturn, $1.loc);
      if (parseContext.currentFunctionType->getBasicType() != EbtVoid)
          parseContext.error($1.loc, "non-void function must return a value", "return", "");
      if (parseContext.inMain)
          parseContext.postEntryPointReturn = true;
  }
```

```
  | RETURN expression SEMICOLON {
      $$ = parseContext.handleReturnValue($1.loc, $2);
  }
  | DISCARD SEMICOLON {
      parseContext.requireStage($1.loc, EShLangFragment, "discard");
      $$ = parseContext.intermediate.addBranch(EOpKill, $1.loc);
  }
  ;

// Grammar Note:  No 'goto'.  Gotos are not supported.

translation_unit
  : external_declaration
 {
      $$ = $1;
      parseContext.intermediate.setTreeRoot($$);
  }
  | translation_unit external_declaration {
      if ($2 != nullptr) {
          $$ = parseContext.intermediate.growAggregate($1, $2);
          parseContext.intermediate.setTreeRoot($$);
      }
  }
  ;

external_declaration
  : function_definition {
      $$ = $1;
  }
  | declaration {
      $$ = $1;
  }
  | SEMICOLON {
      parseContext.requireProfile($1.loc, ~EEsProfile, "extraneous semicolon");
      parseContext.profileRequires($1.loc, ~EEsProfile, 460, nullptr, "extraneous semicolon");
      $$ = nullptr;
  }
  ;

function_definition
  : function_prototype {
      $1.function = parseContext.handleFunctionDeclarator($1.loc, *$1.function, false /* not prototype */);
      $1.intermNode = parseContext.handleFunctionDefinition($1.loc, *$1.function);
  }
  compound_statement_no_new_scope {
      //   May be best done as post process phase on intermediate
 code
      if (parseContext.currentFunctionType->getBasicType() != EbtVoid && ! parseContext.functionReturnsValue)
```

```
            parseContext.error($1.loc, "function does not return a value:", "", $1.function->getName().c_str());
        parseContext.symbolTable.pop(&parseContext.defaultPrecision[0]);
        $$ = parseContext.intermediate.growAggregate($1.intermNode, $3);
        parseContext.intermediate.setAggregateOperator($$, EOpFunction, $1.function->getType(), $1.loc);
        $$->getAsAggregate()->setName($1.function->getMangledName().c_str());

        // store the pragma information for debug and optimize and other vendor specific
        // information. This information can be queried from the parse tree
        $$->getAsAggregate()->setOptimize(parseContext.contextPragma.optimize);
        $$->getAsAggregate()->setDebug(parseContext.contextPragma.debug);
        $$->getAsAggregate()->setPragmaTable(parseContext.contextPragma.pragmaTable);
    }
    ;

attribute

    : LEFT_BRACKET LEFT_BRACKET attribute_list RIGHT_BRACKET RIGHT_BRACKET {
        $$ = $3;
        parseContext.requireExtensions($1.loc, 1, &E_GL_EXT_control_flow_attributes, "attribute");
    }

attribute_list
    : single_attribute {
        $$ = $1;
    }
    | attribute_list COMMA single_attribute {
        $$ = parseContext.mergeAttributes($1, $3);
    }

single_attribute
    : IDENTIFIER {
        $$ = parseContext.makeAttributes(*$1.string);
    }
    | IDENTIFIER LEFT_PAREN constant_expression RIGHT_PAREN {
        $$ = parseContext.makeAttributes(*$1.string, $3);
    }

%%
```

Found in path(s):
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/glslang.y
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/Common.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/disassemble.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/InfoSink.h
*
/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/parseVersions.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/SpvBuilder.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/ShHandle.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/ConstantUnion.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/BaseTypes.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/doc.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/SymbolTable.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ParseHelper.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Intermediate.cpp
*
/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseHelper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/arrays.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ShaderLang.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/disassemble.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/Include/intermediate.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/ParseHelper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/doc.h
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseables.cpp
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/khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/SPVRemapper.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Initialize.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/hlsl/hlslParseHelper.h
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/OSDependent/Unix/ossource.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/Scan.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GlslangToSpv.cpp
* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/glslang/MachineIndependent/IntermTraverse.cpp
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/SPIRV/GLSL.ext.AMD.h
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* /khronosgroup-glslang-6-2-2596-0-gac37079-tar-gz/KhronosGroup-glslang-5798d23/gtests/Spv.FromFile.cpp
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1.233 libzip 1.7.3

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1.235 properties 1.8.1

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1.237 log4j-api 2.17.1

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1.238 apache-log4j 2.17.1

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1.239 valyala-histogram 1.1.2

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1.240 valyala-fastrand 1.0.0

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1.241 victoriametrics-metrics 1.17.2

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```
name: license-check
on:
 push:
   paths:
     - 'vendor'
 pull_request:
   paths:
     - 'vendor'
permissions:
 contents: read

jobs:
 build:
   name: Build
```

```
  runs-on: ubuntu-latest
  steps:
    - name: Setup Go
      uses: actions/setup-go@main
      with:
        go-version: 1.18
      id: go
    - name: Code checkout
      uses: actions/checkout@master
    - name: Check License
      run: |
        make check-licenses
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
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Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
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Adams <shadams@google.com>
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1.242 kubernetes-apiserver 0.0.0

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1.244 generex 1.0.2

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
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 <artifactId>generex</artifactId>
 <version>1.0.2</version>
 <name>Generex</name>
 <url>https://github.com/mifmif/Generex/tree/master</url>
 <description>Generex A Java Library for regex to Strings generation</description>
 <packaging>jar</packaging>
 <licenses>
  <license>
   <name>The Apache Software License, Version 2.0</name>
   <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
   <distribution>repo</distribution>
  </license>
 </licenses>
 <developers>
  <developer>
   <id>mifmif</id>
   <name>MIFRAH Youssef</name>
   <email>mifmif.com@gmail.com</email>
  </developer>
```

```
 <developer>
  <id>mkolisnyk</id>
  <name>mkolisnyk</name>
  <email>kolesnik.nickolay@gmail.com</email>
 </developer>
</developers>

<parent>
 <groupId>org.sonatype.oss</groupId>
 <artifactId>oss-parent</artifactId>
 <version>7</version>
</parent>

<properties>
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 <maven.pmd.excludes>**/generated-sources/**</maven.pmd.excludes>
</properties>
<scm>
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 <developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
 <url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
 <url>https://travis-ci.org/mifmif/Generex/builds</url>
 <system>Travis</system>
 <notifiers>
  <notifier>
   <address>mifmif.com@gmail.com</address>
   <type>mail</type>
  </notifier>
  <notifier>
   <address>kolesnik.nickolay@gmail.com</address>
   <type>mail</type>
  </notifier>
 </notifiers>
</ciManagement>

<distributionManagement>
 <snapshotRepository>
  <id>ossrh</id>
  <url>https://oss.sonatype.org/content/repositories/snapshots</url>
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  <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
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 <testSourceDirectory>src/test/java</testSourceDirectory>
 <resources>
  <resource>
   <directory>src</directory>
   <excludes>
    <exclude>**/*.java</exclude>
   </excludes>
  </resource>
  <resource>
   <directory>target/dependency</directory>
   <excludes>
    <exclude>**/*.java</exclude>
   </excludes>
  </resource>
  <resource>
   <directory>src/main/resources</directory>
   <includes>
    <include>**/*.properties</include>
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  </resource>
 </resources>
 <plugins>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-install-plugin</artifactId>
   <version>2.5.2</version>
   <configuration>
    <file>target/${project.artifactId}-${project.version}.jar</file>
    <groupId>${project.groupId}</groupId>
    <artifactId>${project.artifactId}</artifactId>
    <version>${project.version}</version>
    <packaging>maven-plugin</packaging>
   </configuration>
  </plugin>

  <plugin>
   <artifactId>maven-compiler-plugin</artifactId>
   <version>3.5.1</version>
   <configuration>
    <source>1.5</source>
    <target>1.5</target>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
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 <artifactId>maven-jar-plugin</artifactId>
 <version>3.0.2</version>
 <configuration>
  <excludes>
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   <exclude>com/thoughtworks/**/*</exclude>
   <exclude>freemarker/**/*</exclude>
   <exclude>ftl/**/*</exclude>
   <exclude>i18n/**/*</exclude>
   <exclude>style/**/*</exclude>
   <exclude>junit/**/*</exclude>
   <exclude>licenses/**/*</exclude>
   <exclude>META-INF/maven/**/*</exclude>
   <exclude>org/codehaus/**/*</exclude>
   <exclude>org/hamcrest/**/*</exclude>
   <exclude>org/jbehave/**/*</exclude>
   <exclude>org/junit/**/*</exclude>
   <exclude>org/testng/**/*</exclude>
   <exclude>org/xmlpull/**/*</exclude>
   <exclude>stories/**/*</exclude>
   <exclude>style/**/*</exclude>
   <exclude>tests/**/*</exclude>
  </excludes>
  <archive>
   <manifest>
    <addClasspath>false</addClasspath>
    <addDefaultImplementationEntries>true</addDefaultImplementationEntries>
    <addDefaultSpecificationEntries>true</addDefaultSpecificationEntries>
    <addExtensions>false</addExtensions>
    <classpathLayoutType>simple</classpathLayoutType>
   </manifest>
  </archive>
 </configuration>
</plugin>
<plugin>
 <artifactId>maven-assembly-plugin</artifactId>
 <version>2.6</version>
 <configuration>
  <descriptors>
   <descriptor>./sources.xml</descriptor>
  </descriptors>
 </configuration>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-dependency-plugin</artifactId>
 <version>2.10</version>
</plugin>
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 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>2.10.3</version>
  <configuration>
   <show>private</show>
   <nohelp>false</nohelp>
   <failOnError>false</failOnError>
   <sourcepath>src/main/java</sourcepath>
  </configuration>
 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <configuration>
   <tagNameFormat>v@{project.version}</tagNameFormat>
   <preparationGoals>package
install:install-file</preparationGoals>
   <scmCommentPrefix>#3</scmCommentPrefix>
  </configuration>
 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-deploy-plugin</artifactId>
  <version>2.8.2</version>
  <configuration>
   <skip>true</skip>
  </configuration>
 </plugin>


 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
   <execution>
    <goals>
     <goal>jar-no-fork</goal>
    </goals>
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 </plugin>


 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
```

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 <executions>
  <execution>
   <id>attach-javadocs</id>
   <goals>
    <goal>jar</goal>
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</plugin>


<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-gpg-plugin</artifactId>
 <executions>
  <execution>
   <id>sign-artifacts</id>
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  </execution>
 </executions>


</plugin>


<plugin>
 <groupId>org.sonatype.plugins</groupId>
 <artifactId>nexus-staging-maven-plugin</artifactId>
 <version>1.6.3</version>
 <executions>
  <execution>
   <id>default-deploy</id>
   <phase>deploy</phase>
   <goals>
    <goal>deploy</goal>
   </goals>
  </execution>
 </executions>
 <extensions>true</extensions>
 <configuration>
  <serverId>ossrh</serverId>
  <nexusUrl>https://oss.sonatype.org/</nexusUrl>
 </configuration>
</plugin>
<plugin>
```

```
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-pmd-plugin</artifactId>
 <version>3.6</version>
 <configuration>
  <failOnViolation>true</failOnViolation>
  <excludeRoots>
   <excludeRoot>target/generated-sources/plugin</excludeRoot>
  </excludeRoots>
  <excludes>
   <exclude>**/HelpMojo.java</exclude>
  </excludes>
 </configuration>
 <executions>
  <execution>
   <goals>
    <goal>check</goal>
    <goal>cpd-check</goal>
   </goals>
   <configuration>
    <failOnViolation>true</failOnViolation>
    <excludes>
     <exclude>**/HelpMojo.java</exclude>
    </excludes>
   </configuration>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-checkstyle-plugin</artifactId>
 <version>2.10</version>
 <configuration>
  <excludes>**/test/java/**/*.java</excludes>
  <configLocation>./sun_checks.xml</configLocation>
  <suppressionsLocation>./checkstyle-suppressions.xml</suppressionsLocation>
  <failOnViolation>true</failOnViolation>
 </configuration>
 <executions>
  <execution>
   <goals>
    <goal>check</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>cobertura-maven-plugin</artifactId>
```

```
 <version>2.6</version>
 <configuration>
  <check>
   <haltOnFailure>false</haltOnFailure>
   <totalBranchRate>80</totalBranchRate>
   <totalLineRate>80</totalLineRate>
   <packageLineRate>80</packageLineRate>
   <packageBranchRate>80</packageBranchRate>
  </check>
  <instrumentation>
   <excludes>
    <exclude>**/HelpMojo.class</exclude>
   </excludes>
  </instrumentation>
 </configuration>
 <executions>
  <execution>
   <id>verification</id>
   <phase>verify</phase>
   <goals>
    <goal>check</goal>
    <goal>cobertura</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
 <groupId>org.codehaus.mojo</groupId>
 <artifactId>javancss-maven-plugin</artifactId>
 <version>2.0</version>
 <configuration>
  <encoding>${project.build.sourceEncoding}</encoding>
  <ccnLimit>10</ccnLimit>
  <ncssLimit>100</ncssLimit>
  <failOnViolation>true</failOnViolation>
  <excludes>
   <exclude>**/tests/**/*.*</exclude>
  </excludes>
 </configuration>
 <executions>
  <execution>
   <goals>
    <goal>check</goal>
   </goals>
  </execution>
 </executions>
</plugin>
<plugin>
```

```
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>findbugs-maven-plugin</artifactId>
    <version>3.0.3</version>
    <configuration>
     <encoding>${project.build.sourceEncoding}</encoding>
     <failOnError>true</failOnError>
     <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
    </configuration>
    <executions>
     <execution>
      <goals>
       <goal>check</goal>
      </goals>
     </execution>
    </executions>
   </plugin>
   <plugin>
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>jdepend-maven-plugin</artifactId>
    <version>2.0</version>
   </plugin>
  </plugins>
 </build>
 <dependencies>
  <dependency>
   <groupId>dk.brics.automaton</groupId>
   <artifactId>automaton</artifactId>
   <version>1.11-8</version>
  </dependency>
  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>4.12</version>
   <scope>test</scope>
  </dependency>
  <dependency>
   <groupId>org.hamcrest</groupId>
   <artifactId>hamcrest-junit</artifactId>
   <version>2.0.0.0</version>
   <scope>test</scope>
  </dependency>
 </dependencies>
</project>

Found
 in path(s):
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml
```

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Found in path(s):
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java
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* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/test/java/com/mifmif/common/regex/GenerexIteratorUnitTest.java
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Found in path(s):
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterator.java
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Node.java
*
 /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterable.java
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Main.java
* /mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Generex.java

1.245 zjsonpatch 0.3.0

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Found in path(s):
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NodeType.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonDiff.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/NoopProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/ApplyProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Constants.java
*
 /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/CompatibilityFlags.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatchApplicationException.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatchProcessor.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/InvalidJsonPatchException.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Operation.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/JsonPatch.java
* /zjsonpatch-0-3-0-sources-jar/com/flipkart/zjsonpatch/Diff.java

1.246 logging-interceptor 3.12.6

1.246.1 Available under license :

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* /logging-interceptor-3-12-6-sources-jar/okhttp3/logging/HttpLoggingInterceptor.java

1.247 kubernetes-model-common 4.6.3

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* /kubernetes-model-common-4-6-3-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-common/pom.xml
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Found in path(s):
* /kubernetes-model-common-4-6-3-sources-jar/io/fabric8/kubernetes/model/annotation/ApiGroup.java
* /kubernetes-model-common-4-6-3-sources-jar/io/fabric8/kubernetes/model/annotation/ApiVersion.java

1.248 kubernetes-client 4.6.3

1.248.1 Available under license :

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io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl

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* /kubernetes-client-4-6-3-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider
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Found in path(s):
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/DeploymentRollingUpdater.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/RoleBindingOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/StorageAPIGroupDSL.java
*
 /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/PodDisruptionBudgetHandler.java
* /kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/ReplicationControllerRollingUpdater.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/MixedOperation.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/AutoscalingAPIGroupClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/HasMetadataVisitiableBuilder.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/utils/ImpersonatorInterceptor.java

* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/ConfigMapOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Parameterizable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/RbacAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/NamespaceListVisitFromServerGetDeleteRecreateWaitApplicable.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Outputable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/ReplicaSetHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Watchable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/StorageAPIGroupClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/ExtensionAdapter.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/SchedulingAPIGroupClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/PortForward.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/BytesLimitable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/CopyOrReadable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/NamespaceVisitFromServerGetWatchDeleteRecreateWaitApplicableImpl.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/ReplicationControllerOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/KubernetesClientException.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/AppsAPIGroupExtensionAdapter.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/RawCustomResourceOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/internal/SSLUtils.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/utils/NonBlockingInputStreamPumper.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/ClusterRoleHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/URLFromIngressImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/NodeHandler.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/internal/CertUtils.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Timeable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/ReplicaSetRollingUpdater.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Deletable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Prettyable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/CustomResourceDefinitionOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerGetDeleteRecreateWaitApplicable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/TailPrettyLoggable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/internal/patchmixins/ObjectMetaMixIn.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/PersistentVolumeClaimOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/WithRequestCallable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Lockable.java

* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/CodgeGen.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/Client.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/CreateListFromLoadable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/base/OperationContext.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/utils/ResourceCompare.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/ControllerRevisionOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/CreateFromServerGettable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/CustomResourceDefinitionHandler.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/AutoAdaptableKubernetesClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/TimeTailPrettyLoggable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/PolicyAPIGroupExtensionAdapter.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/AnyNamespaceable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/NetworkAPIGroupClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/informers/ListerWatcher.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/VersionInfo.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/EndpointsOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/ErrorChannelable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/ServiceToURLProvider.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/PersistentVolumeHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/SecretHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/BindingOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/PodSecurityPolicyOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/EditReplacePatchDeletable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/base/ConfigAndApiGroupsInfo.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/informers/cache/SharedProcessor.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/BatchAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/KubernetesListOperationsImpl.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/OperationInfo.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/NamespaceVisitFromServerGetWatchDeleteRecreateWaitApplicableListImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/StatefulSetRollingUpdater.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/SubjectAccessReviewDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/TtyExecInputOutputErrorable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/ClusterRoleBindingHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/informers/cache/DeltaFIFO.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/internal/VersionUsageUtils.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/URLFromNodePortImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/IngressHandler.java
*
/kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/AppsAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/RoleBindingHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Inputable.java

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* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/TtyExecable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/NetworkPolicyOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Scaleable.java
* /kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/dsl/ParameterNamespaceListVisitFromServerGetDeleteRecreateWaitApplicable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/PolicyAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/URLFromEnvVarsImpl.java
*
 /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/ReplicaSetOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/KubernetesClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/internal/KubeConfigUtils.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/FilterWatchListDeletable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/osgi/ManagedKubernetesClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/PropagationPolicyConfigurable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/informers/cache/Cache.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/KubernetesClientTimeoutException.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/CustomResourceList.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/LogWatch.java
*
 /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/StatefulSetOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/ExtensionsAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/PodPresetOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/OAuthTokenProvider.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/Versionable.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/PersistentVolumeOperationsImpl.java
* /kubernetes-client-4-6-3-sources-
jar/io/fabric8/kubernetes/client/handlers/MutatingWebhookConfigurationHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/base/CustomResourceDefinitionContext.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/SettingsAPIGroupExtensionAdapter.java

*
 /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/JobOperationsImpl.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/AppsAPIGroupClient.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/Callback.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/AutoscalingAPIGroupExtensionAdapter.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/SchedulingAPIGroupDSL.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/handlers/ServiceAccountHandler.java
* /kubernetes-client-4-6-3-sources-jar/io/fabric8/kubernetes/client/dsl/internal/RollingOperationContext.java
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io.fabric8.kubernetes.client.AppsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ExtensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.NetworkAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.PolicyAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.RbacAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SettingsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.StorageAPIGroupExtensionAdapter

Found
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* /kubernetes-client-4-6-3-sources-jar/resource-handler.vm
* /kubernetes-client-4-6-3-sources-jar/resource-operation.vm
* /kubernetes-client-4-6-3-sources-jar/resource-handler-services.vm

1.249 kubernetes-model 4.6.3

1.249.1 Available under license :

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1.250 jackson-dataformat-yaml 2.10.0

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1.251 diskv 2.0.1+incompatible

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1.252 openjdk-jre 1.8.0u192

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1.254 unsafe-assume-no-moving-gc 0.0.0-20211027215541-db492cf91b37

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1.260 pkg-sftp 1.13.2

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1.262 afero 1.5.1

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Dave Cheney <dave@cheney.net>
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1.274 nmcclain-ldap 0.0.0-20191021200707-3b3b69a7e9e3

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1.275 nmcclain-asn1-ber 0.0.0-20170104154839-2661553a0484

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1.276 gopherjs 0.0.0-20181017120253-0766667cb4d1

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1.277 x-tools 0.1.4

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// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import (
 "go/ast"
 "go/parser"
```

```
 "go/token"
 "io/fs"
 "io/ioutil"
 "path/filepath"
 "regexp"
 "strings"
)

func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
  if err != nil {
   return err
  }
  if d.IsDir() {
   // Skip directories like ".git".
   if strings.HasPrefix(d.Name(), ".") {
    return filepath.SkipDir
   }
   // Skip any directory that starts with an underscore, as the go
   // command would.
   if strings.HasPrefix(d.Name(), "_") {
    return filepath.SkipDir
   }
   return nil
  }
  needsCopyright, err := checkFile(dir, path)
  if err != nil {
   return err
  }
  if needsCopyright {
   files
 = append(files, path)
  }
  return nil
 })
 return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
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license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, "go") {
  return false, nil
 }
```

```
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
  return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
  return false, nil
 }
 content, err := ioutil.ReadFile(filename)
 if err != nil {
  return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
  return false, err
 }
 // Don't require headers
 on generated files.
 if isGenerated(fset, parsed) {
  return false, nil
 }
 shouldAddCopyright := true
 for _, c := range parsed.Comments {
  // The copyright should appear before the package declaration.
  if c.Pos() > parsed.Package {
   break
  }
  if copyrightRe.MatchString(c.Text()) {
   shouldAddCopyright = false
   break
  }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.?`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
  for _, comment := range commentGroup.List {
   if matched := generatedRx.MatchString(comment.Text); !matched {
    continue
   }
```

```
  // Check if comment is at the beginning of the line in source.
  if pos := fset.Position(comment.Slash); pos.Column == 1 {
   return true
  }
 }
}
return
false
}
```

```
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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `
-- github.com/BurntSushi/toml COPYING --

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```

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//go:build go1.18
// +build go1.18

package copyright

import (
 "os"
 "path/filepath"
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 cwd, err := os.Getwd()
 if err != nil {
  t.Fatal(err)
 }
 tools := filepath.Dir(cwd)
 if !strings.HasSuffix(filepath.Base(tools), "tools") {
  t.Fatalf("current working directory is %s, expected tools", tools)
 }
 files, err := checkCopyright(tools)

```
 if err != nil {
  t.Fatal(err)
 }
 if len(files) > 0 {
  t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}
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package hooks

import (
 "bytes"
 "io/ioutil"
 "os/exec"
 "runtime"
 "testing"

 "github.com/jhump/golang-x-tools/internal/testenv"
)

func TestLicenses(t *testing.T) {
 // License text differs for older Go versions because staticcheck isn't
 // supported for those versions.
 testenv.NeedsGo1Point(t, 15)

 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
  t.Skip("generating licenses only works on Unixes")
 }
 tmp, err := ioutil.TempFile("", "")
 if err != nil {
  t.Fatal(err)
 }
 tmp.Close()

 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
  t.Fatalf("generating licenses failed: %q, %v", out, err)
 }

 got, err := ioutil.ReadFile(tmp.Name())
 if err != nil {
  t.Fatal(err)
 }
 want, err := ioutil.ReadFile("licenses.go")
 if err != nil {
  t.Fatal(err)
```

```
}
if !bytes.Equal(got,
want) {
 t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
}
}
```

1.278 netlink 1.1.1-0.20210330154013-f5de75959ad5

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1.279 golang 1.17.8

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Adrian
Nos <nos.adrian@gmail.com>
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Alex Browne <stephenalexbrowne@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>

Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander
Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov
<snaury@gmail.com>
Alexey Naidonov <alexey.naidyonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Aman Gupta <aman@tmm1.net>
Amir Mohammad Saied <amir@gluegadget.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
Anand K. Mistry <anand@mistry.ninja>

Anders Pearson <anders@columbia.edu>
Andr Carvalho <asantostc@gmail.com>
Andre Nathan <andrenth@gmail.com>
Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Gherzan <andrei@resin.io>
Andrei
Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com>
<awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>

Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Walker <walkeraj@gmail.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony
Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Murdaca <runcom@redhat.com>
Antonio Troina <thoeni@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish
Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>

Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayanamist Yang <ayanamist@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Azat Kaumov <kaumov.a.r@gmail.com>
Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@google.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben
Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@google.com>
Bjorn Tillenius <bjorn@tillenius.me>

Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake
Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <rbriski@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Brad Burch <brad.burch@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian
Downs <brian.downs@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>

Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisia
Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Souza <carloshrsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>
Channing Kimble-Brown <channing@golang.org>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Cholerae
Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>

Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian
R. Petrin <christianpetrin@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Koch <chrisko@google.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskau@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin
Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradoplg@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@google.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@google.com>

Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cyrill Schumacher <cyrill@schumacher.fm>
Daisuke Fujita <dtanshi45@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan
Jacques <dnj@google.com>
Dan Johnson <computerdruid@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong
Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>

Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Chase <drchase@google.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David
Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>

Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys
Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@google.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@google.com>
Didier Spezia <didier.06@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy
Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@google.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>

Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues
<dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>
Edan Bedrik <3d4nb3@gmail.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
Elbert Fliek <efliek@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric
Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>

Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Ethan Miller <eamiller@us.ibm.com>
Euan Kemp <euank@euank.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske
<evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Filip Gruszczyski <gruszczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda
<filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>

Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel
<fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@google.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@google.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggirtsou@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos
(Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>

Gergely Brautigam <skarlso777@gmail.com>
Getulio Snchez <valentin2507@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub
User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @OlgaVlPetrova (44112727) <OVPpetrova@gmail.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uropek (39370426) <uropek@gmail.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King
<graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>

Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Guoliang Wang <iamwgliang@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen
Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>
Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Hiroaki
Nakamura <hnakamur@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>

Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor Bernstein <igorbernstein@google.com>
Igor Dolzhikov
<bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Ukhov <ivan.ukhov@gmail.com>

Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jack
Britton <jackxbritton@gmail.com>
Jack Lindamood <jlindamo@justin.tv>
Jacob Baskin <jbaskin@google.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Hartig <fastest963@gmail.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jfmyers9@gmail.com>
James Neve <jamesoneve@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James
Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@google.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>

Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko
<jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Segura <javism@gmail.com>
Jay Conrod <jayconrod@google.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn.moal@gmail.com>
Jed Denlea <jed@fastly.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@google.com>
Jeff Craig <jeffcraig@google.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff
Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <_@jeremy.ca>

Jeremy Canady <jcanady@gmail.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>
Jingcheng
Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John

Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@jgilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Leidegren <john.leidegren@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pentecost
<pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Rhee <jordanrh@microsoft.com>
Jos Visser <josv@google.com>
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>

Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin
Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julio Montes <julio.montes@intel.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Jure Ham <jure.ham@zemanta.com>
Justin Gracenin <jgracenin@gmail.com>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Trukenmller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb
Elwert <kelwert@atlassian.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>

Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@google.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@google.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin
Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki
Ide <niconegoto@yahoo.co.jp>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>

Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars
Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lion Yang <lion@aosc.xyz>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenz Bauer <lmb@cloudflare.com>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>

Luca Greco <luca.greco@alcacoop.it>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente
<lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Magnus Hiie <magnus.hiie@gmail.com>
Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour
Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>

Mark Harrison <marhar@google.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko
Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Kevac <marko@kevac.org>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas
<mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>

Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt
Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Ushakov <ushmax@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo
Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Meir Fischer <meirfischer@gmail.com>

Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael
Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgrber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal
Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@lnet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michal Pristas <michal.pristas@gmail.com>

Michal Rostecki <mrostecki@suse.de>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio
Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Mura Li <mura_li@castech.com.tw>
Nan Deng <monnand@gmail.com>

Naoki Kanatani <k12naoki@gmail.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan
Caza <mastercactapus@gmail.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick
Harper <nharper@google.com>
Nick Kubala <nkubala@google.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>

Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov
<nodir@google.com>
Noel Georgi <git@frezbo.com>
Norberto Lopes <nlopes.ml@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dmage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Omar Jarjur <ojarjur@google.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
zgr Kesim <oec-go@kesim.org>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkrmoore@gmail.com>
Parminder
Singh <parmsingh101@gmail.com>
Pascal S. de Kloe <pascal@quies.net>
Pat Moroney <pat@pat.email>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@google.com>

Patrick Smith <pat42smith@gmail.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@google.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@google.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest
<pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter
Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>

Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Stephani <phst@google.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Roullon <pierre.roullon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro
Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Pontus Leitzler <leitzler@gmail.com>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Varanasi <prashant@prashantv.com>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>

Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph
Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rens Rikkerink <Ikkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <r@rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol
<mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Phoenix <rob@robphoenix.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>

Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@google.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez
<rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Chater <rdchater@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>
Rui Ueyama <ruiu@google.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@google.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@google.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman
<hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>

S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sai Cheemalapati <saicheems@google.com>
Sakeven Jiang <jc5930@sina.cn>
Salmn Aljammz <s@0x65.net>
Sam Boyer <tech@samboyer.org>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@google.com>
Samuele Pedroni <pedronis@lucediurna.net>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar
Tekuri <santhosh.tekuri@gmail.com>
Sarah Adams <shadams@google.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Skorobogatov
<skorobo@rambler.ru>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>

Sergey Frolov <sfrolov@google.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shintaro
Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Rawet <simon@rawet.se>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Renatus <srenatus@chef.io>

Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen
Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>
Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven
Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Taesu Pyo <pyotaesu@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>
Tal Shprecher <tshprecher@gmail.com>

Tamir Duberstein <tamird@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi
Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Queiroz <contato@tiago.eti.br>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim
Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>
Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>

Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Toby Burress <kurin@google.com>
Todd Neal <todd@tneal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tommy Schaefer
<tommy.schaefer@teecom.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trung Nguyen <trung.n.k@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung

Lee <roylee17@currant.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangjparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>
Victor Chudnovsky <vchudnov@google.com>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara
R <r.visweswara@gmail.com>
Vitor De Mario <vitordemario@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhfuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>

Wei Xiao <wei.xiao@arm.com>
Weichao Tang <tevic.tt@gmail.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried
Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@google.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@google.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@google.com>
Yasha
Bubnov <girokompass@gmail.com>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>

Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuji Yaginuma <yuuji.yaginuma@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com>
<yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
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<max.faceless.frei@gmail.com>
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.282 golang 1.7.3

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Albert Strasheim <fullung@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Aleksandar Dezelin <dezelin@gmail.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Jin <toalexjin@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Vaghin <crhyme@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander
Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zolotov <goldifit@gmail.com>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexis Imperial-Legrand <ail@google.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alif Rachmawadi <subosito@gmail.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amrut Joshi <amrut.joshi@gmail.com>
Andre Nathan <andrenth@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt

<andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Lutomirski <andy@luto.us>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Szeto <andrew@jabagawee.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Maloney <asmaloney@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anmol Sethi <anmol@aubble.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony
Martin <ality@pbrane.org>
Anthony Starks <ajstarks@gmail.com>
Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Areski Belaid <areski@gmail.com>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Asim Shankar <asimshankar@gmail.com>
Ato Araki <ato.araki@gmail.com>
Audrey Lim <audreylh@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
awaw fumin <awawfumin@gmail.com>
Ayanamist Yang <ayanamist@gmail.com>

Aymerick Jhanne <aymerick@jehanne.org>
Balazs Lecz <leczb@google.com>
Ben Burkert <ben@benburkert.com>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Benjamin
Black <b@b3k.us>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Thiede <couchmoney@gmail.com>
Billie Harold Cleek <bhcleek@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Brandon Gilmore <varz@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian G. Merrell <bgmerrell@gmail.com>
Brian
Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Jackson <carl@stripe.com>
Carl Mastrangelo <notcarl@google.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>

Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
ChaiShushan <chaishushan@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles
Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Cherry Zhang <cherryyz@google.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Lennert <calennert@gmail.com>
Chris Manghane <cmang@golang.org>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher
Swenson <cswenson@google.com>
Christopher Wedgwood <cw@f00f.org>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clement Skau <clementskau@gmail.com>
Colby Ranger <cranger@google.com>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Conrad Irwin <conrad.irwin@gmail.com>

Conrad Meyer <cemeyer@cs.washington.edu>
Corey Thomasson <cthom.lists@gmail.com>
Cosmos Nicolaou <cnicolaou@google.com>
Cristian Staretu <unclejacksons@gmail.com>
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Damian Gryski <dgryski@gmail.com>
Damien Neil <dneil@google.com>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Jacques <dnj@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel
Krech <eikeon@eikeon.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel Skinner <daniel@dasa.cc>
Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Darren Elwood <darren@textnode.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Chase <drchase@google.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Forsythe <dforsythe@gmail.com>
David
G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Howden <dhowden@gmail.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>

David Leon Gil <coruus@gmail.com>
David McLeish <davemc@google.com>
David Presotto <presotto@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Titarenco <david.titarenco@gmail.com>
Davies Liu <davies.liu@gmail.com>
Dean Prichard <dean.prichard@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek Parker <parkerderek86@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Didier Spezia <didier.06@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker
Gupta <diwakergupta@gmail.com>
Dmitri Shuralyov <shurcooL@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@google.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Donald Huang <don.hcd@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Drew Hintz <adhintz@google.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Eden Li <eden.li@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>

Eivind Uggedal <eivind@uggedal.com>
Elias Naur <elias.naur@gmail.com>
Emil
Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Eoghan Sherry <ejsherry@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Westrup <erik.westrup@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Burns <eaburns@google.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Ewan Chou <coocood@gmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabrizio Milo <mistobaan@gmail.com>
Fan Hongjian <fan.howard@gmail.com>
Fatih
Arslan <fatih@arslan.io>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Felix Geisendrfer <haimuiba@gmail.com>
Filippo Valsorda <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Francesc Campoy <campoy@golang.org>
Francisco Claude <fclaude@recoded.cl>
Francisco Souza <franciscossouza@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>

Frits van Bommel <fvbommel@gmail.com>
Fumitoshi Ukai <ukai@google.com>
Gaal Yahas <gaal@google.com>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Garrick Evans <garrick@google.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary
Elliott <garyelliott@google.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Geert-Johan Riemer <gjr19912@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Shammas <george@shamm.as> <georgyo@gmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
Giulio Iotti <dullgiulio@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Greg Ward <greg@gerg.ca>
Guillaume J. Charmes <guillaume@charmes.net>
Guobiao Mei <meiguobiao@gmail.com>
Gustav Paul <gustav.paul@gmail.com>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur
Gunnarsson <halg@google.com>
Han-Wen Nienhuys <hanwen@google.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hvard Haugen <havard.haugen@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>

Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Ian Gudger <ian@loosescre.ws>
Ian Lance Taylor <iant@golang.org>
Icarus Sparry <golang@icarus.freeuk.com>
Idora Shinatose <idora.shinatose@gmail.com>
Igor
Dolzhikov <bluesriverz@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Ivan Krasin <krasin@golang.org>
Ivan Ukhov <ivan.ukhov@gmail.com>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jacob Baskin <jbaskin@google.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jae Kwon <jae@tendermint.com>
Jakob Borg <jakob@nym.se>
Jakub ajka <jcajka@redhat.com>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James David Chalfant <james.chalfant@gmail.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Meneghello <rawrz0r@gmail.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com>
<jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>

Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Mercl <0xjnml@gmail.com>
Jan Mercl <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Travis <infomaniac7@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean-Marc Eurin <jmeurin@google.com>
Jed Denlea <jed@fastly.com>
Jeff Craig <jeffcraig@google.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff
R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim McGrath <jimmc2@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jiong Du <londevil@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Sing <jsing@google.com>
Joel Stemmer <stemmertech@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Sageryd <j@1616.se>
John Asmuth <jasmuth@gmail.com>
John

Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Newlin <jnewlin@google.com>
John Potocny <johnp@vividcortex.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Wills <runningwild@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Jos
Visser <josv@google.com>
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Joshua Chase <jcjoshuachase@gmail.com>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Phillips <julian@quantumfyre.co.uk>
Julien Schmidt <google@julienschmidt.com>
Jungho Ahn <jhahn@google.com>
Jure Ham <jure.ham@zemanta.com>
Justin Nu <nuss.justin@gmail.com>
Kai Backman <kaib@golang.org>
Kamal Aboul-Hosn <aboulhosn@google.com>

Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kang Hu <hukangustc@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kay
Zhu <kayzhu@google.com>
KB Sriram <kbsriram@google.com>
Kei Son <hey.calmdown@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kim Shrier <kshrier@racktopsystems.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
Klaus Post <klauspost@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Kris Rousey <krousey@google.com>
Kristopher Watts <traetox@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kyle
Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Larry Hosken <lahosken@golang.org>
Larz Conwell <larzconwell@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lewin Bormann <lewin.bormann@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>

Luan Santos <cfcluan@gmail.com>
Luca Greco <luca.greco@alcacoop.it>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luke Curley <qpingu@gmail.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Mal Curtis <mal@mal.co.nz>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Manu Garg <manugarg@google.com>
Manu
S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel van Lohuizen <mpvl@golang.org>
Marco Hennings <marco.hennings@freiheit.com>
Marga Manterola <marga@google.com>
Marius Nuennerich <mnu@google.com>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Martin Garton <garton@gmail.com>
Martin Mohrmann <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsson <martin@minimum.se>
Marvin Stenger <marvin.stenger94@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats
Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Drollette <matt@drollette.com>
Matt Jibson <matt.jibson@gmail.com>

Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Layher <mdlayher@gmail.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Ushakov <ushakov@google.com>
Maxwell Krohn <themax@gmail.com>
Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com>
Mhd Sulhan <m.shulhan@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael
Chaten <mchaten@gmail.com>
Michael Elkins <michael.elkins@gmail.com>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael Munday <munday@ca.ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgrber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>
Michael
Vetter <g.bluehut@gmail.com>
Michal Bohuslvek <mbohuslavek@gmail.com>
Michal Cierniak <cierniak@google.com>

Micha Derkacz <ziutek@lnet.pl>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Mendez <stxmendez@gmail.com>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Danese <mikedanese@google.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mohit Agarwal <mohit@sdf.org>
Monty Taylor <mordred@inaugust.com>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mrunal
Patel <mrunalp@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Nan Deng <monnand@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>

Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel
Tao <nigeltao@golang.org>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Noah Campbell <noahcampbell@gmail.com>
Nodir Turakulov <nodir@google.com>
Norberto Lopes <nlopes.ml@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Omar Jarjur <ojarjur@google.com>
zgr Kesim <oec-go@kesim.org>
Padraig Kitterick <padraigkitterick@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Pascal S. de Kloe <pascal@quies.net>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat42smith@gmail.com>
Paul A Querna
<paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Chang <paulchang@google.com>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@google.com>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@google.com>
Paul Rosania <paul.rosania@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Pavel Paulau <pavel.paulau@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pawel Knap <pawelknap88@gmail.com>

Pawel Szczur <filemon@google.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Collingbourne <pcc@google.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter
McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Mundy <go.peter.90@gmail.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Hofer <phofer@umich.edu>
Philip K. Warren <pkwarren@gmail.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Roullon <pierre.roullon@gmail.com>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Prashant Varanasi <prashant@prashantv.com>
Preetam Jinka <pj@preet.am>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Smith <quentin@golang.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Raif S.
Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Raph Levien <raph@google.com>
Raul Silvera <rsilvera@google.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Richard Barnes <rlb@ipv.sx>

Richard Crowley <r@rcrowley.org>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Riku Voipio <riku.voipio@linaro.org>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Norman <rob.norman@infinitycloud.com>
Rob Pike <r@golang.org>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au>
Robert Dinu <r@varp.se>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert
Iannucci <iannucci@google.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@google.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robin Eklind <r.eklind.87@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Roland Shoemaker <rolandshoemaker@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rui Ueyama <ruiu@google.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Barrett <ryanb@google.com>
Ryan Brown <ribrdb@google.com>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
S.alar Onur <caglar@10ur.org>
Sai Cheemalapati <saicheems@google.com>
Salmn Aljammz <s@0x65.net>
Sam Ding <samding@ca.ibm.com>
Sam
Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>

Sam Whited <sam@samwhited.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sanjay Menakuru <balasanjay@gmail.com>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergio Luis O. B. Correia <sergio@correia.cc>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth
Vargo <sethvargo@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shaozhen Ding <dsz0111@gmail.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Spencer Nelson <s@spenczar.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
StalkR <stalkr@stalkr.net>
Stan Schwertly <stan@schwertly.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>

Stephen Ma <stephenm@golang.org>
Stephen McQuay
<stephen@mcquay.me>
Stephen Weinberg <stephen@q5comm.com>
Steve McCoy <mccoyst@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sven Almgren <sven@tras.se>
Szabolcs Nagy <nsz@port70.net>
Tad Glines <tad.glines@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Tal Shprecher <tshprecher@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas
Kappler <tkappler@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Hockin <thockin@google.com>
Tim Swast <swast@google.com>
Timo Savola <timo.savola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Toby Burress <kurin@google.com>
Todd Neal <todd@tneal.org>
Todd Wang <toddwang@gmail.com>
Tom Bergan <tombergan@google.com>
Tom Heng <zhm20070928@gmail.com>
Tom Linford <tomlinford@gmail.com>
Tom Szymanski <tgs@google.com>

Tommy Schaefer <tommy.schaefer@teecom.com>
Tor Andersson <tor.andersson@gmail.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tudor
Golubenco <tudor.g@gmail.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Nikishenko <vova616@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Wei Guangjing <vcc.163@gmail.com>
Will Chan <willchan@google.com>
Will Norris <willnorris@google.com>
Willem van der Schyff <willemvds@gmail.com>
William
Chan <willchan@chromium.org>
William Josephson <wjosephson@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Xia Bin <snyh@snyh.org>
Xing Xing <mikespook@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Yan Zou <yzou@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yao Zhang <lunaria21@gmail.com>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>

Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yuki Yugui Sonoda <yugui@google.com>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zhongwei Yao <zhongwei.yao@arm.com>
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Protocol Buffers for Go with Gadgets

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1.287 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.288 go-ping-ping 1.1.0

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1.289 json-java 20210307

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1.290 rung-go-safecast 1.0.1

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1.291 kubernetes-metrics 0.0.0

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

<one line to give the program's name and a brief idea of what it does.>
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Ty Coon, President of Vice

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1.294 compatibility-test-suite 2.5.0

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* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import.proto

1.295 compatibility-more-protos 2.5.0

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1.296 compatibility-protos 2.5.0

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* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DynamicMessageTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DescriptorsTest.java
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/multiple_files_test.proto

1.297 compatibility-test-deps 2.5.0

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1.298 compatibility-tests 2.5.0

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* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/descriptor.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_lite_imports_nonlite.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_extension.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestUtil.java
*
 /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/GeneratedMessageTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringSubstringTest.java
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_builders_test.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedInputStreamTest.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_embed_optimize_for.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DescriptorsTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TestBadIdentifiers.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/descriptor.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/non_nested_extension.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/AbstractMessageTest.java
*

/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/CodedOutputStreamTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ForceFieldBuildersPreRun.java
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* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LiteralByteStringTest.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_enormous_descriptor.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_lite_imports_nonlite.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ServiceTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringEndToEndTest.java
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/NestedBuildersTest.java
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* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/test_bad_identifiers.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_empty.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/BoundedByteStringTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/UnmodifiableLazyStringListTest.java
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_import_public.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/nested_extension.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/nested_builders_test.proto
*
/v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/RopeByteStringTest.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/google/protobuf/unittest_no_generic_services.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_empty.proto
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/nested_extension_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_custom_options.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_enormous_descriptor.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/TextFormatTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/MessageTest.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/multiple_files_test.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_embed_optimize_for.proto
*
/v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_optimize_for.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import_public_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/multiple_files_test.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/google/protobuf/unittest_import_public.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/DeprecatedFieldTest.java
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/LazyStringArrayListTest.java
* /v2-5-0-1-tar-gz/v2.5.0/more_protos/src/proto/com/google/protobuf/non_nested_extension_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/test_bad_identifiers.proto
* /v2-5-0-1-tar-gz/v2.5.0/protos/src/proto/com/google/protobuf/nested_extension_lite.proto
* /v2-5-0-1-tar-gz/v2.5.0/tests/src/main/java/com/google/protobuf/test/ByteStringTest.java

1.299 protobuf-jruby 1.0-SNAPSHOT

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* /jruby-tar-gz/jruby/Utils.java
* /jruby-tar-gz/jruby/RubyProtobuf.java
* /jruby-tar-gz/jruby/RubyDescriptor.java
* /jruby-tar-gz/jruby/SentinelOuterClass.java
* /jruby-tar-gz/jruby/RubyBuilder.java
* /jruby-tar-gz/jruby/RubyEnum.java
* /jruby-tar-gz/jruby/RubyDescriptorPool.java

*
/jruby-tar-gz/jruby/RubyEnumDescriptor.java
* /jruby-tar-gz/jruby/RubyOneofBuilderContext.java
* /jruby-tar-gz/jruby/RubyRepeatedField.java
* /jruby-tar-gz/jruby/RubyMap.java
* /jruby-tar-gz/jruby/RubyMessage.java
* /jruby-tar-gz/jruby/RubyFieldDescriptor.java
* /jruby-tar-gz/jruby/RubyMessageBuilderContext.java
* /jruby-tar-gz/jruby/RubyEnumBuilderContext.java

1.300 protoc 3.12.2

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This file contains a list of people who have made large contributions
to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:
Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:
Kenton Varda <kenton@google.com>

Proto2 Python primary authors:
Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:
Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:
Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:
Scott Bruce <sbruce@google.com>
Frank Yellin

Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose
Feinstein <ambrose@google.com>

Documentation:
Lisa Carey <lcarey@google.com>

Maven packaging:
Gregory Kick <gak@google.com>

Patch contributors:
Kevin Ko <kevin.s.ko@gmail.com>
  * Small patch to handle trailing slashes in --proto_path flag.
Johan Euphrosine <proppy@aminche.com>
  * Small patch to fix Python CallMethod().
Ulrich Kunitz <kune@deine-taler.de>
  * Small optimizations to Python serialization.
Leandro Lucarella <llucax@gmail.com>
  * VI syntax highlighting tweaks.
  * Fix compiler to not make output executable.
Dilip Joseph <dilip.antony.joseph@gmail.com>
  * Heuristic detection of sub-messages when printing unknown fields in
    text format.
Brian Atkinson <nairb774@gmail.com>
  * Added @Override annotation to generated Java code where appropriate.
Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
  * Tru64 support.
Monty Taylor <monty.taylor@gmail.com>
  * Solaris 10 + Sun Studio fixes.
Alek Storm <alek.storm@gmail.com>

  * Slicing support for repeated scalar fields for the Python API.
Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
  * gzip/zlib I/O support.
Michael Poole <mdpoole@troilus.org>
  * Fixed warnings about generated constructors not explicitly initializing
    all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
  * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
   * Detect whether zlib is new enough in configure script.
  * Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
  * Optimize Java serialization code when writing a small message to a stream.
  * Optimize Java serialization of strings so that UTF-8 encoding happens only
    once per string per serialization call.
  * Clean up some Java warnings.
  * Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
  * Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
  * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
  * Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
  * Fixed minor IBM xlC compiler build issues
  * Added atomicops for AIX (POWER)

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1.301 linux-libc-dev 4.15.0-193.204

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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1.302 systemd 237

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1.303 activation-api 1.2.1

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1.304 protobuf-parent 3.12.2

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1590600820442
Build-Jdk: 1.8.0_181-google-v7
Built-By: haberman
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]

Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.12.2
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.12.2";uses:="com.goo
gle.protobuf"
Import-Package: com.google.common.base;version="[29.0,30)",com.google.co
mmon.io;version="[29.0,30)",com.google.common.math;version="[29.0,30)",
com.google.common.primitives;version="[29.0,30)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.12,4)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool:
 Bnd-3.0.0.201509101326

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* /protobuf-java-util-3-12-2-jar/META-INF/MANIFEST.MF

1.305 protobuf-bom 3.12.2

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Manifest-Version: 1.0
Automatic-Module-Name: com.google.protobuf.util
Bnd-LastModified: 1590600820442
Build-Jdk: 1.8.0_181-google-v7
Built-By: haberman
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.12.2
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf.util;version="3.12.2";uses:="com.goo
gle.protobuf"
Import-Package: com.google.common.base;version="[29.0,30)",com.google.co
mmon.io;version="[29.0,30)",com.google.common.math;version="[29.0,30)",
com.google.common.primitives;version="[29.0,30)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f;version="[3.12,4)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool:
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1.306 pgv-java 0.4.0-SNAPSHOT

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
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1.308 bcel 2.7.2

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*/

/*
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
* @author G. Todd Miller
*/

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
```

```
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC  _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern was declared.
     */
    private int _lineNumber = 0;

     /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
    _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
          return _parser.getQNameIgnoreDefaultNs(name);
    }

    public QName getQName(String namespace, String prefix, String localname) {
        return _parser.getQName(namespace, prefix, localname);
    }
```

```
  public void setMultiDocument(boolean flag) {
      _xsltc.setMultiDocument(flag);
  }

  public void setCallsNodeset(boolean flag) {
      _xsltc.setCallsNodeset(flag);
  }

  public void setHasIdCall(boolean flag) {
      _xsltc.setHasIdCall(flag);
  }


  /**
   * This method is similar to findNodeType(int, Object) except that it
   * creates a StepPattern instead of
just returning a node type. It also
   * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
   * patterns are expanded as "*[namespace-uri() = 'uri']" and
   * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
   * simplifies the grouping of patterns in the Mode class. For this
   * expansion to be correct, the priority of the pattern/template must be
   * set to -0.25 (when no other predicates are present).
   */
  public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
      }
      else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
      }
      else {
    QName name = (QName)test;

boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
 nodeType = (name.toString().equals("*")) ? -1
  : _xsltc.registerNamespacePrefix(name);;
          }
```

```
   else {
 final String uri = name.getNamespace();
 final String local = name.getLocalPart();
 final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

 // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
 if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
  predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
  new Predicate(
     new EqualityExpr(Operators.EQ,
   new NamespaceUriCall(namespace_uri),
   new LiteralExpr(uri))));
 }

 if (local.equals("*")) {
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
  : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
 }
 else
 {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
  : _xsltc.registerElement(name);
 }
   }

   final StepPattern result = new StepPattern(axis, nodeType, predicates);

   // Set priority for case prefix:* and prefix:@* (no predicates)
   if (setPriority) {
 result.setPriority(-0.25);
   }

   return result;
 }
  }

  public int findNodeType(int axis, Object test) {
```

```
if (test == null) {  // *
   return (axis == Axis.ATTRIBUTE) ?
 NodeTest.ATTRIBUTE :
 (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
     }
     else if (test instanceof Integer) {
        return ((Integer)test).intValue();
     }
     else {
   QName name = (QName)test;

   if (axis == Axis.NAMESPACE) {
 return (name.toString().equals("*")) ? -1
    : _xsltc.registerNamespacePrefix(name);
        }

   if (name.getNamespace() == null) {
 final String local = name.getLocalPart();

 if (local.equals("*")) {
    return
(axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
 : NodeTest.ELEMENT;
 }
 else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
 }
   }

   return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
 : _xsltc.registerElement(name);
     }
 }

 /**
  * Parse the expression passed to the current scanner. If this
  * expression contains references to local variables and it will be
  * compiled in an external module (not in the main class) request
  * the current template to create a new variable stack frame.
  *
  * @param lineNumber Line where the current expression is defined.
  * @param external   Set to <tt>true</tt> if this expression is
  *                   compiled in a separate module.
  *
  */
 public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
  _expression = expression;
```

```
    _lineNumber = lineNumber;
    return super.parse();
      }
      catch (IllegalCharException
e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                    lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
      }
      return null;
  }

  /**
   * Lookup a variable or parameter in the symbol table given its name.
   *
   * @param name Name of the symbol being looked up.
   */
  final SyntaxTreeNode lookupName(QName name) {
      // Is it a local var or param ?
      final SyntaxTreeNode result = _parser.lookupVariable(name);
if (result != null)
        return(result);
      else
    return(_symbolTable.lookupName(name));
  }

  public final void addError(ErrorMsg error) {
_parser.reportError(Constants.ERROR, error);
  }

  public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
_parser.reportError(Constants.FATAL, err);
  }

  public void report_fatal_error(String
message, Object info) {
      // empty
  }

  public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
if (rlp instanceof Step) {
    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
```

```
    return new ParentLocationPath(newrlp, plp.getStep());
 }
 else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
 }
  }

  /**
   * Returns true if the axis applies to elements only. The axes
   * child, attribute, namespace, descendant result in non-empty
   * nodesets only if the context node is of type element.
   */
  public boolean isElementAxis(int axis) {
 return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
  axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
  }
:}

terminal SLASH, DOT, LBRACK,
 RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression
 RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;
```

```
non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel
 ::= PATTERN Pattern:pattern
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

/* -------------------------- Patterns ---------------------------------- */

Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

LocationPathPattern ::= SLASH
        {: RESULT = new AbsolutePathPattern(null); :}

        | SLASH RelativePathPattern:rpp
```

```
        {: RESULT = new AbsolutePathPattern(rpp); :}

        | IdKeyPattern:ikp
        {: RESULT = ikp; :}

        | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(ikp, rpp); :}

        | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(ikp, rpp); :}

        | DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(rpp); :}


    | RelativePathPattern:rpp
        {: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
        {: RESULT = new IdPattern(l);
          parser.setHasIdCall(true);
        :}

        | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
        {: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
        {: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
        {: RESULT = sp; :}

        | StepPattern:sp SLASH RelativePathPattern:rpp
        {: RESULT = new ParentPattern(sp, rpp); :}

        | StepPattern:sp DSLASH RelativePathPattern:rpp
        {: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
        :}

        | NodeTestPattern:nt Predicates:pp
        {:
  RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
         :}
```

```
        | ProcessingInstructionPattern:pip
        {: RESULT = pip; :}

    | ProcessingInstructionPattern:pip Predicates:pp
        {: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

        | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, null);
        :}

    | ChildOrAttributeAxisSpecifier:axis
   NodeTestPattern:nt Predicates:pp
        {:
      RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
        :}

        | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
        {:
      RESULT = pip;  // TODO: report error if axis is attribute
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
  Predicates:pp
        {:
      // TODO: report error if axis is attribute
      RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern
 ::= NameTestPattern:nt
        {: RESULT = nt; :}

        | NODE
        {: RESULT = new Integer(NodeTest.ANODE); :}

        | TEXT
        {: RESULT = new Integer(NodeTest.TEXT); :}

        | COMMENT
        {: RESULT = new Integer(NodeTest.COMMENT); :}

        | PI
        {: RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
        {: RESULT = null; :}
```

```
        | QName:qn
        {: RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD DCOLON
        {: RESULT = new Integer(Axis.CHILD); :}

        | ATTRIBUTE DCOLON
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

Predicates ::= Predicate:p
        {:
  Vector temp = new Vector();
  temp.addElement(p);
  RESULT = temp;
        :}

        | Predicate:p Predicates:pp
        {: pp.insertElementAt(p, 0); RESULT = pp; :};

Predicate ::=
  LBRACK Expr:e RBRACK
    {:
  RESULT = new Predicate(e);
    :};

/* -------------------------- Expressions -------------------------------- */

Expr ::= OrExpr:ex
      {: RESULT = ex; :};

OrExpr ::= AndExpr:ae
      {: RESULT = ae; :}

      | OrExpr:oe OR AndExpr:ae
      {: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};

AndExpr ::= EqualityExpr:e
      {: RESULT = e; :}

      | AndExpr:ae AND EqualityExpr:ee
      {: RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); :};

EqualityExpr ::= RelationalExpr:re
      {: RESULT = re; :}
```

```
        | EqualityExpr:ee EQ RelationalExpr:re
        {: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}

        | EqualityExpr:ee NE RelationalExpr:re
        {: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr:ae
        {: RESULT = ae; :}

        | RelationalExpr:re LT AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

        | RelationalExpr:re
 GT AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

        | RelationalExpr:re LE AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

        | RelationalExpr:re GE AdditiveExpr:ae
        {: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me
        {: RESULT = me; :}

        | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
        {: RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); :}

        | AdditiveExpr:ae MINUS MultiplicativeExpr:me
        {: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue
        {: RESULT = ue; :}

        | MultiplicativeExpr:me MULT UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

        | MultiplicativeExpr:me DIV UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

        | MultiplicativeExpr:me MOD UnaryExpr:ue
        {: RESULT = new BinOpExpr(BinOpExpr.MOD,
 me, ue); :};

UnaryExpr ::= UnionExpr:ue
        {: RESULT = ue; :}

        | MINUS UnaryExpr:ue
```

```
        {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
        {: RESULT = pe; :}

        | PathExpr:pe VBAR UnionExpr:rest
        {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
        {: RESULT = lp; :}

        | FilterExpr:fexp
        {: RESULT = fexp; :}

        | FilterExpr:fexp SLASH RelativeLocationPath:rlp
        {: RESULT = new FilterParentPath(fexp, rlp); :}

        | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
        {:
          //
    // Expand '//' into '/descendant-or-self::node()/' or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
          final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
          FilterParentPath fpp = new
 FilterParentPath(fexp, step);
          fpp = new FilterParentPath(fpp, rlp);
          if (fexp instanceof KeyCall == false) {
             fpp.setDescendantAxis();
    }
          RESULT = fpp;
        :};

LocationPath ::= RelativeLocationPath:rlp
        {: RESULT = rlp; :}

        | AbsoluteLocationPath:alp
        {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
        {: RESULT = step; :}
```

```
    | RelativeLocationPath:rlp SLASH Step:step
    {:
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        RESULT = step;       // Remove './' from the middle
    }
    else if (((Step) step).isAbbreviatedDot()) {
        RESULT = rlp;        // Remove '/.' from the end
    }
    else {
       RESULT =
         new ParentLocationPath((RelativeLocationPath) rlp, step);
      }
    :}

    | AbbreviatedRelativeLocationPath:arlp
    {: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
     {: RESULT = new AbsoluteLocationPath(); :}

    | SLASH RelativeLocationPath:rlp
    {: RESULT = new AbsoluteLocationPath(rlp); :}

    | AbbreviatedAbsoluteLocationPath:aalp
    {: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
    {:
  final Step right  = (Step)step;
      final int  axis   = right.getAxis();
      final int  type   = right.getNodeType();
      final Vector predicates = right.getPredicates();

      if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress './/child:E' into 'descendant::E' - if possible
        if (predicates == null) {
          right.setAxis(Axis.DESCENDANT);
          if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        RESULT = right;
          }
          else {
            // Expand 'rlp//child::E' into 'rlp/descendant::E'

     RelativeLocationPath left = (RelativeLocationPath)rlp;
          RESULT = new ParentLocationPath(left, right);
          }
        }
        else {
```

```
                // Expand './/step' -> 'descendant-or-self::*/step'
                if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
                    Step left = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
                    RESULT = new ParentLocationPath(left, right);
                }
                else {
                    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
                    RelativeLocationPath left = (RelativeLocationPath)rlp;
                    Step mid = new Step(Axis.DESCENDANTORSELF,
      DTM.ELEMENT_NODE, null);
                    ParentLocationPath ppl = new ParentLocationPath(mid, right);
                    RESULT = new ParentLocationPath(left, ppl);
                }
            }

        }
        else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
            // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
            Step middle = new Step(Axis.DESCENDANTORSELF,
     DTM.ELEMENT_NODE, null);
            ParentLocationPath ppl = new ParentLocationPath(middle, right);
            RESULT = new ParentLocationPath(left, ppl);
    }
    else {
       // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
            RelativeLocationPath left = (RelativeLocationPath)rlp;
       Step middle = new Step(Axis.DESCENDANTORSELF,
     DOM.NO_TYPE, null);
            ParentLocationPath ppl = new ParentLocationPath(middle, right);
       RESULT = new ParentLocationPath(left, ppl);
    }
      :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
    // Expand '//' into '/descendant-or-self::node()/'
 or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
    {
       nodeType = DTM.ELEMENT_NODE;
```

```
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
  :};

Step ::= NodeTest:ntest
      {:
        if (ntest instanceof Step) {
           RESULT = (Step)ntest;
        }
        else {
  RESULT = new Step(Axis.CHILD,
                    parser.findNodeType(Axis.CHILD, ntest),
                    null);
        }
      :}

      | NodeTest:ntest Predicates:pp
      {:
        if (ntest instanceof Step) {
           Step step = (Step)ntest;
           step.addPredicates(pp);
           RESULT = (Step)ntest;
        }
        else {
           RESULT = new Step(Axis.CHILD,

                parser.findNodeType(Axis.CHILD, ntest), pp);
        }
      :}

      | AxisSpecifier:axis NodeTest:ntest Predicates:pp
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    pp);
      :}

      | AxisSpecifier:axis NodeTest:ntest
      {: RESULT = new Step(axis.intValue(),
                    parser.findNodeType(axis.intValue(), ntest),
                    null);
      :}

      | AbbreviatedStep:abbrev
      {: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON
```

```
        {: RESULT = an; :}

        | ATSIGN
        {: RESULT = new Integer(Axis.ATTRIBUTE); :};

    AxisName ::=    ANCESTOR
        {: RESULT = new Integer(Axis.ANCESTOR); :}

        | ANCESTORORSELF
        {: RESULT = new Integer(Axis.ANCESTORORSELF); :}

        | ATTRIBUTE
        {: RESULT = new Integer(Axis.ATTRIBUTE); :}

        | CHILD
        {: RESULT =
     new Integer(Axis.CHILD); :}

        | DESCENDANT
        {: RESULT = new Integer(Axis.DESCENDANT); :}

        | DESCENDANTORSELF
        {: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

        | FOLLOWING
        {: RESULT = new Integer(Axis.FOLLOWING); :}

        | FOLLOWINGSIBLING
        {: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

        | NAMESPACE
        {: RESULT = new Integer(Axis.NAMESPACE); :}

        | PARENT
        {: RESULT = new Integer(Axis.PARENT); :}

        | PRECEDING
        {: RESULT = new Integer(Axis.PRECEDING); :}

        | PRECEDINGSIBLING
        {: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

        | SELF
        {: RESULT = new Integer(Axis.SELF); :};

    AbbreviatedStep ::= DOT
        {: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}
```

```
      | DDOT
      {: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::=  PrimaryExpr:primary
      {: RESULT = primary; :}

      | PrimaryExpr:primary Predicates:pp
       {: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
      {: RESULT = vr; :}

      | LPAREN Expr:ex RPAREN
      {: RESULT = ex; :}

 | Literal:string
 {:
 /*
 * If the string appears to have the syntax of a QName, store
 * namespace info in the literal expression. This is used for
 * element-available and function-available functions, among
 * others. Also, the default namespace must be ignored.
 */
 String namespace = null;
 final int index = string.lastIndexOf(':');

 if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
 }
 RESULT = (namespace == null) ? new LiteralExpr(string)
      : new LiteralExpr(string, namespace);
 :}

      | INT:num
      {:
   long value = num.longValue();
   if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
  RESULT = new RealExpr(value);
   }
   else {
           if (num.doubleValue() == -0)

            RESULT = new RealExpr(num.doubleValue());
           else if (num.intValue() == 0)
              RESULT = new IntExpr(num.intValue());
           else if (num.doubleValue() == 0.0)
              RESULT = new RealExpr(num.doubleValue());
```

```
            else
               RESULT = new IntExpr(num.intValue());
      }
        :}

        | REAL:num
        {: RESULT = new RealExpr(num.doubleValue()); :}

        | FunctionCall:fc
        {: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
        {:
           // An empty qname prefix for a variable or parameter reference
           // should map to the null namespace and not the default URI.
           SyntaxTreeNode node = parser.lookupName(varName);

           if (node != null) {
              if (node instanceof Variable) {
                 RESULT = new VariableRef((Variable)node);
              }
              else if (node instanceof Param) {
                 RESULT
 = new ParameterRef((Param)node);
              }
              else {
                 RESULT = new UnresolvedRef(varName);
              }
           }

           if (node == null) {
              RESULT = new UnresolvedRef(varName);
           }
        :};

FunctionCall ::= FunctionName:fname LPAREN RPAREN
        {:

          if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
            RESULT = new CurrentCall(fname);
    }
          else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
            RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
          else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
            RESULT = new StringCall(fname, parser.EmptyArgs);
    }
          else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
```

```
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
  }
      else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new
BooleanExpr(true);
  }
      else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
  }
      else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
  }
      else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
  }
      else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
  }
      else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname))
{
        RESULT = new NamespaceUriCall(fname);
  }
      else {
        RESULT = new FunctionCall(fname, parser.EmptyArgs);
  }
    :}

    | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
    {:
      if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, argl);
  }
      else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
   parser.setMultiDocument(true);
        RESULT = new DocumentCall(fname, argl);
  }
```

```
        else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
          RESULT = new StringCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
          RESULT = new BooleanCall(fname, argl);
      }
        else if
    (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
          RESULT = new NameCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
          RESULT = new GenerateIdCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
          RESULT = new NotCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
          RESULT = new FormatNumberCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
          RESULT = new UnparsedEntityUriCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
          RESULT = new KeyCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
          RESULT = new KeyCall(fname, argl);
          parser.setHasIdCall(true);
      }
        else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
    {
          RESULT = new CeilingCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
          RESULT = new RoundCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
          RESULT = new FloorCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
          RESULT = new ContainsCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
          RESULT = new StringLengthCall(fname, argl);
      }
        else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
          RESULT = new StartsWithCall(fname, argl);
      }
```

```
        else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
          RESULT = new FunctionAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
  {
          RESULT = new ElementAvailableCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
          RESULT = new LocalNameCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
          RESULT = new LangCall(fname, argl);
    }
        else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
          RESULT = new NamespaceUriCall(fname, argl);
    }
        else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
          RESULT = new CastCall(fname, argl);
    }
    // Special case for extension function nodeset()
        else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
      parser.setCallsNodeset(true);  // implies MultiDOM
          RESULT = new FunctionCall(fname, argl);
    }
        else {
          RESULT = new FunctionCall(fname, argl);
    }
    :};

NonemptyArgumentList
 ::= Argument:arg
      {:
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
      :}

      | Argument:arg COMMA NonemptyArgumentList:argl
      {: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

VariableName ::= QName:vname
      {:
    RESULT = vname;
```

```
:};

Argument ::= Expr:ex
    {: RESULT = ex; :};

NodeTest ::= NameTest:nt
    {: RESULT = nt; :}

    | NODE
    {: RESULT = new Integer(NodeTest.ANODE); :}

    | TEXT
    {: RESULT = new Integer(NodeTest.TEXT); :}

    | COMMENT
    {: RESULT = new Integer(NodeTest.COMMENT); :}

    | PIPARAM LPAREN Literal:l RPAREN
    {:
      QName name = parser.getQNameIgnoreDefaultNs("name");
      Expression exp = new EqualityExpr(Operators.EQ,
                                new NameCall(name),

          new LiteralExpr(l));
      Vector predicates = new Vector();
      predicates.addElement(new Predicate(exp));
      RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    :}

    | PI
    {: RESULT = new Integer(NodeTest.PI); :};

NameTest ::= STAR
        {: RESULT = null; :}

        | QName:qn
        {: RESULT = qn; :};

QName ::= QNAME:qname
    {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

 | DIV
    {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

    | MOD
    {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

    | KEY
```

```
    {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

    | ANCESTOR
    {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | ANCESTORORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

    | ATTRIBUTE
    {: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

    | CHILD
    {:
RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

    | DESCENDANT
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

    | DESCENDANTORSELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

    | FOLLOWING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

    | FOLLOWINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

    | NAMESPACE
    {: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

    | PARENT
    {: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

    | PRECEDING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

    | PRECEDINGSIBLING
    {: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

    | SELF
    {: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

    | ID
    {: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *   significant, externally apparent
 enhancement from
  *   the previous release. 'n' represents the n'th
  *   version.
  *
  *   Clients should carefully consider the implications
  *   of new versions as external interfaces and behaviour
  *   may have changed.

```
 */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
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* distributed under the License is distributed on an "AS IS" BASIS,
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* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
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*
```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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```

```
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* limitations under the License.
*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
* Administrative class
 to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.</P>
* @xsl.usage general
*/
public final class Version
{

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments,
 unused.
  */
 public static void main(String argv[])
```

```
{
  System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *          - a new set of functionality is to be added, eg,
 *
     implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
```

```
{
 return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
 return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted,
final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
 try {
    if ((new String("@version.DEVELOPER@")).length() == 0)
      return 0;
    else
      return Integer.parseInt("@version.DEVELOPER@");
 } catch (NumberFormatException nfe) {
       return 0;
 }
}
}
```

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_A.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMConstants.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LastCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/BitArray.java

* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/WrappedRuntimeException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorText.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMAxisIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DefaultErrorHandler.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalParamDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/NotEquals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValueTemplate.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionScript.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/ProcessorVersion.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/lib/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnparsedEntityUriCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/FilterIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Constants.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/WrongParserException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/DecimalToRoman.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SourceLoader.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprWalker.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathResultImpl.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XStringForChars.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectStack.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemAttribute.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathNSResolverImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CollatorFactoryBase.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyRefIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh_CN.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XBooleanStatic.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOM3TreeWalker.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_es.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRef.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/StringType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StringLengthCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/MissingOptArgException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerClient.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstringAfter.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/XPathException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/XMLChar.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/dom2dtm/DOM2DTMdefaultNamespaceDeclarationNode.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ru.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Comment.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MultiHashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SystemIDResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_hu.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FloorCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/TemplateSubPatternAssociation.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ExtendedSAX.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AbsolutePathPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/MutableAttrListImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/EncodingInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sk.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultiDOM.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncCeiling.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ru.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/AttributeSetMethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Filter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathContext.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Operators.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/CachedXPathAPI.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerGeneral.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/URI.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Mod.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ThreadControllerWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/OneStepIteratorForward.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/MethodResolver.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValue.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Whitespace.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/IntArrayWrapper.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/CompareGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/NamespaceSupport2.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/XPathFunctionResolverImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntStack.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncPosition.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/BooleanExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Serializer.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_fr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh_CN.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/ChildIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncContains.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemChoose.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMAxisIteratorBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SystemIDResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/UnionPathExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Mult.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_it.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/SelfIteratorNoPredicate.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TemplatesImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTSchema.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathExpressionImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/PrintTraceListener.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMDefaultBase.java

* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/Utils.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/UnionChildIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLReaderManager.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AdaptiveResultTreeImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemNumber.java
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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */

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Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
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*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $

```
*/

/*
* @author Jacek Ambroziak
* @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
      int last;

      void initialize() {
         last = -1;
      }

      static boolean isWhitespace(int c) {
         return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
      }

      /**
       * If symbol is not followed by '::' or '(', then treat it as a
       * name instead of an axis or function (Jira-1912).
       */
      Symbol disambiguateAxisOrFunction(int ss) throws Exception {
         // Peek in the input buffer without changing the internal state
         int index = yy_buffer_index;

         // Skip whitespace
         while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
            index++;
         }

         // If end of buffer, can't disambiguate :(
         if (index >= yy_buffer_read) {
            // Can't
 disambiguate, so return as symbol
            return new Symbol(ss);
         }
```

```
    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
            newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
     case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
```

```
            case -1:    // first token
            case sym.ATSIGN:
            case sym.DCOLON:
            case sym.LPAREN:
            case sym.LBRACK:
            case sym.COMMA:
            case sym.AND:
            case sym.OR:
            case sym.MOD:
            case sym.DIV:
            case sym.MULT:
             case sym.SLASH:
            case sym.DSLASH:
            case sym.VBAR:
            case sym.PLUS:
            case sym.MINUS:
            case sym.EQ:
            case sym.NE:
            case sym.LT:
            case sym.LE:
            case sym.GT:
            case sym.GE:
                return newSymbol(sym.STAR);
            }
            return newSymbol(sym.MULT);
        }

        Symbol newSymbol(int ss) {
            last = ss;
            return new Symbol(ss);
        }

        Symbol newSymbol(int ss, String value) {
            last = ss;
            return new Symbol(ss, value);
        }

        Symbol newSymbol(int ss, Long value) {
            last = ss;
            return new Symbol(ss, value);
        }

        Symbol newSymbol(int ss, Double value) {
            last = ss;
            return new Symbol(ss, value);
        }
    %}
```

```
%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]


CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
```

```
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]


Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-
\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-
\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"_"|{NCNameStartChar})({NCNameChar})*

NCNameChar={Letter}|{Digit}|"."|"-"|"_"|{CombiningChar}|{Extender}|{NCNameStartChar}| \u00B7 | [\u0300-
\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-
\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-
\uFFFD]
 | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
".."                { return newSymbol(sym.DDOT); }
"|"                 { return newSymbol(sym.VBAR); }
"$"                 { return newSymbol(sym.DOLLAR); }
"//"                { return newSymbol(sym.DSLASH); }
"="                 { return newSymbol(sym.EQ);
 }
"!="                { return newSymbol(sym.NE); }
"<"                 { return newSymbol(sym.LT); }
">"                 { return newSymbol(sym.GT); }
"<="                { return newSymbol(sym.LE); }
```

```
">="                    { return newSymbol(sym.GE); }
"id"                    { return disambiguateAxisOrFunction(sym.ID); }
"key"                   { return disambiguateAxisOrFunction(sym.KEY); }
"text()"                { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"                { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"             { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"
                { return disambiguateOperator(sym.OR); }
"and"                   { return disambiguateOperator(sym.AND); }
"child"                 { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"             { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"              { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"      { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"            { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"    { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"             { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"     { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace"             { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"                { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"             { return disambiguateAxisOrFunction(sym.PRECEDING);
 }
"preceding-sibling"     { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                  { return disambiguateAxisOrFunction(sym.SELF); }
"["                     { return newSymbol(sym.LBRACK); }
"]"                     { return newSymbol(sym.RBRACK); }
"("                     { return newSymbol(sym.LPAREN); }
")"                     { return newSymbol(sym.RPAREN); }
"<PATTERN>"             { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"          { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
{Digit}+                { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+             { return newSymbol(sym.REAL,
 new Double(yytext())); }
"."                     { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"       { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"      { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]             { /* ignore white space. */ }
```

```
.                    { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
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*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;
```

```
/**
* Administrative class to keep
 track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?

          ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
```

```
{
  return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *          may have changed.
 */
public static int getMajorVersionNum()
{
  return
@version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *             implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
```

```
 *          fixes for defects reported. It maintains compatibility
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *
       a specific release. D01 is the first development drop
 *          of a new release.
 *
 *          Development drops are works in progress towards a
 *          compeleted, final release. A specific development drop
 *          may not completely implement all aspects of a new
 *          feature, which may take several development drops to
 *          complete. At the point of the final drop for the
 *          release, the D suffix will be omitted.
 *
 *          Each 'D' drops can contain functional enhancements as
 *          well as defect fixes. 'D' drops may not be as stable as
 *          the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
       return 0;
     else
       return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
        return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src
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```
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```
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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>
```

Found in path(s):
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* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java

1.309 go-autorest-logging 0.2.0

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1.310 linux-libc-dev 4.15.0-197.208

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
```

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*
* M. Welsh, 6 July 1996
*
*
*/
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       Version 2, June 1991

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1.311 linux-libc-dev 5.4.0-132.148

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*          combined, allow nicstar_free_rx_skb to be called to
*          recycle large data buffers
*      2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*    details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
```

```
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
 // HA means High Availability
 HA = FeatureType("HA")
 // DEV means developer licence
 DEV = FeatureType("DEV")
 // TRIAL means trial licence
 TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane
type Licence struct {
 ArrayUUID   string   `json:"arrayUUID,omitempty"`
 ClusterID   string   `json:"clusterID,omitempty"`

```
 CustomerID   string              `json:"customerID"`
 CustomerName string              `json:"customerName"`
 Storage      int                 `json:"storage"`
 ValidUntil   time.Time           `json:"validUntil"`
 LicenceType  string              `json:"licenceType"`
 Features     map[FeatureType]bool `json:"features"`
 Unregistered bool
      `json:"unregistered"`
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
 Key string `json:"key"`
}
```

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package simulator

import (
 "github.com/vmware/govmomi/object"
 "github.com/vmware/govmomi/vim25/methods"
 "github.com/vmware/govmomi/vim25/mo"
 "github.com/vmware/govmomi/vim25/soap"
 "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
 LicenseKey: "00000-00000-00000-00000-00000",
 EditionKey: "eval",
 Name:       "Evaluation Mode",
 Properties: []types.KeyAnyValue{
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
   },
  },
  {
   Key: "feature",
   Value: types.KeyValue{
    Key:   "dvs",
    Value: "vSphere Distributed Switch",
   },
  },
 },
}
```

```
type LicenseManager struct {
 mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference)
 object.Reference {
 m := &LicenseManager{}
 m.Self = ref
 m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

 if Map.IsVPX() {
  am := Map.Put(&LicenseAssignmentManager{}).Reference()
  m.LicenseAssignmentManager = &am
 }

 return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
 body := &methods.AddLicenseBody{
  Res: &types.AddLicenseResponse{},
 }

 for _, license := range m.Licenses {
  if license.LicenseKey == req.LicenseKey {
   body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
   return body
  }
 }

 m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
  LicenseKey: req.LicenseKey,
  Labels:     req.Labels,
 })

 body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

 return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
 body := &methods.RemoveLicenseBody{
  Res: &types.RemoveLicenseResponse{},
 }

 for i, license := range m.Licenses {
  if
```

```
 req.LicenseKey == license.LicenseKey {
  m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
  return body
 }
 }
 return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
 body := &methods.UpdateLicenseLabelBody{}

 for i := range m.Licenses {
  license := &m.Licenses[i]

  if req.LicenseKey != license.LicenseKey {
   continue
  }

  body.Res = new(types.UpdateLicenseLabelResponse)

  for j := range license.Labels {
   label := &license.Labels[j]

   if label.Key == req.LabelKey {
    if req.LabelValue == "" {
     license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
    } else {
     label.Value = req.LabelValue
    }
    return body
   }
  }

  license.Labels = append(license.Labels, types.KeyValue{
   Key:   req.LabelKey,
   Value: req.LabelValue,
  })

  return body
 }

 body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
 return body
}

type LicenseAssignmentManager struct {
 mo.LicenseAssignmentManager
}
```

```
func
 (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
 body := &methods.QueryAssignedLicensesBody{
  Res: &types.QueryAssignedLicensesResponse{},
 }

 // EntityId can be a HostSystem or the vCenter InstanceUuid
 if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
   id := types.ManagedObjectReference{
    Type:  "HostSystem",
    Value: req.EntityId,
   }

   if Map.Get(id) == nil {
    return body
   }
  }
 }

 body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
   EntityId:        req.EntityId,
   AssignedLicense: EvalLicense,
  },
 }

 return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
 info := EvalLicense

 info.LicenseKey = key
 info.Labels = labels

 return info
}
```

```
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Dolan <dolan@lightstep.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
Ross Light <light@google.com>
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Abhijeet Kasurde <akasurde@redhat.com>
abrarshivani <abrarshivani@users.noreply.github.com>
Adam Shannon <adamkshannon@gmail.com>
Alessandro Cortiana <alessandro.cortiana@gmail.com>
Alex Bozhenko <alexbozhenko@fb.com>
Alex Ellis (VMware) <alexellis2@gmail.com>
Alvaro Miranda <kikitux@gmail.com>
Amanda H. L. de Andrade <amanda.andrade@serpro.gov.br>
Amit Bathla <abathla@.vmware.com>
amit bezalel <amit.bezalel@hpe.com>
Andrew <AndrewDi@users.noreply.github.com>
Andrew Chin <andrew@andrewtchin.com>
Andrew Kutz <akutz@vmware.com>
Anfernee Yongkun Gui <agui@vmware.com>
angystardust <angystardust@users.noreply.github.com>
aniketGslab <aniket.shinde@gslab.com>
Arran Walker <arran.walker@zopa.com>
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Austin Parker <aparker@apprenda.com>
Balu Dontu <bdontu@vmware.com>
bastienbc <bastien.barbe.creuly@gmail.com>
Bob Killen <killen.bob@gmail.com>
Brad
Fitzpatrick <bradfitz@golang.org>
Bruce Downs <bruceadowns@gmail.com>
Cdric Blomart <cblomart@gmail.com>
Chris Marchesi <chrism@vancluevertech.com>
Christian Hltje <docwhat@gerf.org>
Clint Greenwood <cgreenwood@vmware.com>

CuiHaozhi <cuihaozhi@chinacloud.com.cn>
Danny Lockard <danny.lockard@banno.com>
Dave Tucker <dave@dtucker.co.uk>
Davide Agnello <dagnello@hp.com>
David Stark <dave@davidstark.name>
Davinder Kumar <davinderk@vmware.com>
Deric Crago <deric.crago@gmail.com>
Doug MacEachern <dougm@vmware.com>
Eloy Coto <eloy.coto@gmail.com>
Eric Gray <egray@vmware.com>
Eric Yutao <eric.yutao@gmail.com>
Erik Hollensbe <github@hollensbe.org>
Ethan Kaley <ethan.kaley@emc.com>
Fabio Rapposelli <fabio@vmware.com>
Faiyaz Ahmed <ahmedf@vmware.com>
forkbomber <forkbomber@users.noreply.github.com>
freebsdly <qinhuajun@outlook.com>
Gavin Gray <gavin@infinio.com>
Gavrie Philipson <gavrie.philipson@elastifile.com>
George Hicken <ghicken@vmware.com>
Gerrit Renker <Gerrit.Renker@ctl.io>
gthombare
<gthombare@vmware.com>
Hasan Mahmood <mahmoodh@vmware.com>
Henrik Hodne <henrik@travis-ci.com>
Isaac Rodman <isaac@eyz.us>
Ivan Porto Carrero <icarrero@vmware.com>
James King <james.king@emc.com>
Jason Kincl <jkincl@gmail.com>
Jeremy Canady <jcanady@jackhenry.com>
jeremy-clerc <jeremy@clerc.io>
Jiatong Wang <wjiatong@vmware.com>
Joo Pereira <joaodrp@gmail.com>
Jonas Ausevicius <jonas.ausevicius@virtustream.com>
Jorge Sevilla <jorge.sevilla@rstor.io>
kayrus <kay.diam@gmail.com>
Kevin George <georgek@vmware.com>
leslie-qiwa <leslie.qiwa@gmail.com>
Louie Jiang <jiangl@vmware.com>
maplain <fangyuanl@vmware.com>
Marc Carmier <mcarmier@gmail.com>
Maria Ntalla <maria.ntalla@gmail.com>
Marin Atanasov Nikolov <mnikolov@vmware.com>
Matt Clay <matt@mystile.com>
Matthew Cosgrove <matthew.cosgrove@dell.com>
Matt Moriarity <matt@mattmoriarity.com>
Mevan Samaratunga <mevansam@gmail.com>
Michal Jankowski <mjankowski@vmware.com>

mingwei <mingwei@smartx.com>
Nicolas Lamirault <nicolas.lamirault@gmail.com>
Omar
Kohl <omarkohl@gmail.com>
Parham Alvani <parham.alvani@gmail.com>
Pierre Gronlier <pierre.gronlier@corp.ovh.com>
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S.alar Onur <conur@vmware.com>
Sergey Ignatov <sergey.ignatov@jetbrains.com>
Steve Purcell <steve@sanityinc.com>
Takaaki Furukawa <takaaki.frkw@gmail.com>
Tamas Eger <tamas.eger@bitrise.io>
tanishi <tanishi503@gmail.com>
Ted Zlatanov <tzz@lifelogs.com>
Thibaut Ackermann <thibaut.ackermann@alcatel-lucent.com>
Trevor Dawe <trevor.dawe@gmail.com>
Uwe Bessle <Uwe.Bessle@iteratec.de>
Vadim Egorov <vegorov@vmware.com>
Vikram Krishnamurthy <vikramkrishnamu@vmware.com>
Volodymyr Bobyr <pupsua@gmail.com>
Witold Krecicki <wpk@culm.net>
Yang Yang <yangy@vmware.com>
Yuya Kusakabe <yuya.kusakabe@gmail.com>
Zacharias Taubert <zacharias.taubert@gmail.com>
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package storageos

import (
 "encoding/json"

 "github.com/storageos/go-api/types"
)

const (
 // licenceAPIPrefix is a partial path to the HTTP endpoint.
 licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
 resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
 if err != nil {
  return nil, err
 }
 defer resp.Body.Close()
 licence := &types.Licence{}
 if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
  return nil, err
 }
 return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
 _, err := c.do("POST", licenceAPIPrefix, doOptions{
  data: &types.LicenceKeyContainer{Key: licenceKey},
 })
 return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
 resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
 if err != nil {
  return err
 }
 return resp.Body.Close()
```

}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.314 protobuf-java 3.12.2

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* /spring-aop-5-0-2-release-sources-1-
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/spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /spring-aop-5-0-2-release-sources-1-jar/org/aopalliance/aop/AspectException.java
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* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/TrueMethodMatcher.java
*
 /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/support/StaticMethodMatcher.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/TargetClassAware.java
* /spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/support/Pointcuts.java
*
 /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/framework/Advised.java
* /spring-aop-5-0-2-release-sources-1-jar/org/springframework/aop/MethodMatcher.java
* /spring-aop-5-0-2-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java

1.317 grpc 1.30.2

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1.321 kubernetes-api 0.0.0-20190602101200-7067668b35ab

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1.323 gophercloud 0.0.0-20190126172459-c818fa66e4c8

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Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the
[CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably
the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will
help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples
of similar implementations. It would be a _very_ rare occurrence for you
to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and
logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should
submit as Pull Requests.

###
 A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and
submitting one Pull Request is fine.

Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See

[#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
*
 https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3.

Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details
of your Pull Request, where appropriate.

Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
```

```
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull
  Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of
  merge conflicts.

Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request.
Pull Requests will have to be merged in a specific order since there is a
defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase
 all child
 Pull Requests based off of the parent.

The choice of method is up to you.

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
 gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
 commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
 commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
 gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to

```
// interpret it as a RESOURCE.
type UpdateResult struct {
 commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
 pagination.LinkedPageBase
}

// IsEmpty determines whether
 or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
 resources, err := ExtractResources(r)
 return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
 var s struct {
  Links struct {
   Next     string `json:"next"`
   Previous string `json:"previous"`
  } `json:"links"`
 }
 err := r.ExtractInto(&s)
 if err != nil {
  return "", err
 }
 return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
 var s struct {
  Resources []Resource `json:"resources"`
 }
 err := (r.(ResourcePage)).ExtractInto(&s)
 return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
 var s struct {
  Resource *Resource `json:"resource"`
 }
 err := r.ExtractInto(&s)
```

```
 return
 s.Resource, err
}
package RESOURCE

import (
 "github.com/gophercloud/gophercloud"
 "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
 ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
 q, err := gophercloud.BuildQueryString(opts)
 return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
 url := listURL(client)
 if opts != nil {
  query, err := opts.ToResourceListQuery()
  if err != nil {
   return pagination.Pager{Err: err}
  }
  url += query
 }
 return pagination.NewPager(client, url, func(r pagination.PageResult) pagination.Page {
  return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
 })
}

//
 Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
 _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
 return
}
```

```
// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
 ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
 b, err := opts.ToResourceCreateMap()
 if err != nil {
  r.Err = err
  return
 }
 _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
  OkCodes: []int{201},
 })
 return
}

// Delete deletes
 a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
 _, r.Err = client.Delete(deleteURL(client, id), nil)
 return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
 ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
 return gophercloud.BuildRequestBody(opts, "resource")
```

```
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
 b, err := opts.ToResourceUpdateMap()
 if err != nil {
  r.Err = err
  return
 }
 _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
  OkCodes: []int{200},
 })
 return
}
```

Contributor Tutorial
==========

This tutorial is to help new contributors become familiar with the processes
used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful
that everyone is new to this in the beginning. Please reach out for help or ask
for clarification if needed. No question is ever "dumb" or not worth our time
answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 6: Code Review
==========

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:

   a. Unit Tests

   b. Code Formatting checks

   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.

While you're working on the finishing touches to your code, it is helpful
to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

Coveralls

If Coveralls reports a decrease in test coverage,
check and make sure you have
provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a
core member will review the code you've
submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before
merging.

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).
package testing

```
import (
 "fmt"
 "net/http"
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{
}
```

```
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `
{
}
`

// UpdateRequest provides the input to as Update request.
const UpdateRequest = `
{
}
`

// UpdateResult provides an update result.
const UpdateResult = `
{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the
 slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t, r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, ListResult)
 })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
```

```
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "GET")
  th.TestHeader(t,
 r, "Accept", "application/json")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

  w.Header().Set("Content-Type", "application/json")
  w.WriteHeader(http.StatusOK)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "POST")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, CreateRequest)

  w.WriteHeader(http.StatusCreated)
  fmt.Fprintf(w, GetResult)
 })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "DELETE")
  th.TestHeader(t, r,
 "X-Auth-Token", client.TokenID)

  w.WriteHeader(http.StatusNoContent)
 })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
 th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
  th.TestMethod(t, r, "PATCH")
  th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
  th.TestJSONRequest(t, r, UpdateRequest)

  w.WriteHeader(http.StatusOK)
```

```
  fmt.Fprintf(w, UpdateResult)
 })
}
package testing

import (
 "testing"

 "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
 "github.com/gophercloud/gophercloud/pagination"
 th "github.com/gophercloud/gophercloud/testhelper"
 "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 count := 0
 err := resources.List(client.ServiceClient(), nil).EachPage(func(page pagination.Page) (bool, error) {
  count++

  actual, err := resources.ExtractResources(page)
  th.AssertNoErr(t, err)

  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

  return true, nil
 })
 th.AssertNoErr(t, err)
 th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleListResourcesSuccessfully(t)

 allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
 th.AssertNoErr(t, err)
 actual, err := resources.ExtractResources(allPages)
 th.AssertNoErr(t,
 err)
 th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
```

```
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleGetResourceSuccessfully(t)

 actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestCreateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleCreateResourceSuccessfully(t)

 createOpts := resources.CreateOpts{
  Name: "resource two",
 }

 actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResource, *actual)
}

func TestDeleteResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleDeleteResourceSuccessfully(t)

 res := resources.Delete(client.ServiceClient(), "9fe1d3")
 th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
 th.SetupHTTP()
 defer th.TeardownHTTP()
 HandleUpdateResourceSuccessfully(t)

 updateOpts
 := resources.UpdateOpts{
  Description: "Staging Resource",
 }

 actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
 th.AssertNoErr(t, err)
 th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}
```

Step 7: Congratulations!

==========

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.
Step 4: Acceptance Testing
==========

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

Once you've confirmed you are able to test your code, proceed to
[Step 5](step-05-pull-requests.md) to (finally!)
 start working on a Pull
Request.
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE

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Step 3: Code Hunting
==========

If you plan to submit a feature or bug fix to Gophercloud, you must be
able to prove your code correctly works with the OpenStack service in
question.

Let's use the following issue as an example:
https://github.com/gophercloud/gophercloud/issues/621.
In this issue, there's a request being made to add support for
`availability_zone_hints` to the `networking/v2/networks` package.
Meaning, we want to change:

```go
type Network struct {
 ID          string   `json:"id"`
 Name        string   `json:"name"`
 AdminStateUp bool    `json:"admin_state_up"`
 Status      string   `json:"status"`
 Subnets     []string `json:"subnets"`
 TenantID    string   `json:"tenant_id"`
 Shared      bool     `json:"shared"`
}
```

to look like

```go
type Network struct {
 ID                  string   `json:"id"`
 Name                string   `json:"name"`
 AdminStateUp        bool     `json:"admin_state_up"`
 Status
             string   `json:"status"`
 Subnets             []string `json:"subnets"`
 TenantID            string   `json:"tenant_id"`
 Shared              bool     `json:"shared"`
```

AvailabilityZoneHints []string `json:"availability_zone_hints"`
}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying
> that the API docs aren't
useful or that the contributors who work on the API
> docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update
> documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than
writing the actual patch
for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
```

* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different
ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located
 in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on.
 Review all results to gain a good understanding of everywhere the field is
 used.

* When adding a field, look for an
 object model or a schema of some sort.

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance
Testing.
Step 1: Read Our Guides
==========

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed
 document which describes the different ways you can contribute to Gophercloud
 and how to get started. This tutorial you're reading is very similar to that
 guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used
 in the Gophercloud project.

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).
Step 2: Create an Issue
==========

Every patch / Pull Request requires a corresponding issue. If you're fixing
a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you
can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request

If you've noticed that a feature is missing from Gophercloud, you'll also
need to create an issue before doing any work. This is start a discussion about
whether or not the feature should be included
 in Gophercloud. We don't want to
want to see you put in hours of work only to learn that the feature is out of
scope of the project.

Feature requests can come in different forms:

Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and
responses: pagination, error handling, building request bodies, and parsing
response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than
other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to
request having it added. These kinds of issues
 are pretty easy to report
and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
*
https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required
 for _issues_, but it's usually a good idea to provide
them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.
package RESOURCE

```
import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
```

1.324 google-cloud-go v0.81.0

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jar/org/springframework/expression/spel/CompilablePropertyAccessor.java

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jar/org/springframework/expression/common/CompositeStringExpression.java
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jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
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* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/ExpressionException.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpDivide.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/AccessException.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/TypeConverter.java

* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
*
/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpMinus.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/standard/SpelExpression.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Identifier.java
*
/spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/ValueRef.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/common/ExpressionUtils.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/common/LiteralExpression.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/PropertyAccessor.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpAnd.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/OperatorOverloader.java
*
/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Ternary.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/ParseException.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/SpelNode.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Elvis.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/InlineList.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Literal.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/VariableReference.java
*
/spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/standard/Token.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/SpelParseException.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/InlineMap.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/spel/ast/Operator.java

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* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/MethodResolver.java
*
 /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /spring-expression-5-0-2-release-sources-1-
jar/org/springframework/expression/common/TemplateParserContext.java
* /spring-expression-5-0-2-release-sources-1-jar/org/springframework/expression/ConstructorExecutor.java
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jar/org/springframework/expression/ExpressionInvocationTargetException.java
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1.329 go.uber.org/atomi 1.9.0

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Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
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John Tuley <john@tuley.org>
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Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
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* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/MessageLite.java
* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/IntArrayList.java
*
 /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/MessageInfoFactory.java
* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
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* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/CodedOutputStreamWriter.java
* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/SmallSortedMap.java
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* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/MessageSchema.java
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* /protobuf-javalite-3-12-2-sources-jar/com/google/protobuf/Android.java
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1.335 boringssl main-with-bazel

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1.338 prometheus-client 0.2.0

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1.341 pgv-java-validation 0.4.0-SNAPSHOT

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1.342 pgv-java-stub 0.4.0-SNAPSHOT

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1.344 pflag 1.0.1

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1.346 go.uber.org/atomi 1.7.0

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1.347 msgp 1.1.6

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localtime.go, localtime_test.go:

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Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.349 mime-pull 1.9.6

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* /mimepull-1-9-6-sources-8-jar/org/jvnet/mimepull/DecodingException.java
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1.350 goprotobuf 1.4.3

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1.354 spew 1.1.1

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java

1.359 kr-fs 0.1.0

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1.360 packaging 16.8

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1.361 fdisk 2.34.0

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1.363 go.etcd.io-bbolt 1.3.6

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1.364 golang-protobuf-extensions 1.0.1

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1.365 go-ntlmssp 0.0.0-20200615164410-66371956d46c

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1.366 go-uber-org-multierr 1.7.0

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1.368 easyjson 0.7.7

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1.369 gopkg.in-yaml 2.4.0

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1.370 google-uuid 1.3.0

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1.371 goprotobuf 1.5.2

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1.374 jakarta xml bind api 2.3.2

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1.375 google-uuid 1.1.1

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1.379 logrus 1.8.1

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1.380 go-units 0.4.0

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1.381 curl 7.58.0-2ubuntu3.7

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was addressed when the [Modified BSD
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1.382 vim 8.0.1453-1ubuntu1.9

1.383 apr 1.6.3-2

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include/apr_strings.h:

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misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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1.384 openssl 1.0.2n-1ubuntu5.10

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LIBGCRYPT Werner Koch 2001-06-07
Assigns past and future changes.
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wk@gnupg.org
Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote
cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns
past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09

Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns
Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Mller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO
==========

Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi
Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA2770@trolle:

Mathias L. Baumann <mathias.baumann at sociomantic.com>
2017-01-30:07c06d79-0828-b564-d604-fd16c7c86ebe@sociomantic.com:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.5IYa7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>
2014-08-22:2008899.25OeoelVVA@myon.chronox.de:

Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Vitezslav Cizek <vcizek@suse.com>
2015-11-05:20151105131424.GA32700@kolac.suse.cz

Werner Koch <wk@gnupg.org> (g10 Code GmbH)
2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

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Most of the stuff in mpi has been taken from an old GMP library
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
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1.389 base-passwd 3.5.44

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Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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=======================================

LIBGCRYPT   Werner Koch   2001-06-07
Assigns past and future changes.
Assignment for future changes terminated on 2012-12-04.
wk@gnupg.org

Designed and implemented Libgcrypt.

GNUPG Matthew Skala 1998-08-10
Disclaims changes.
mskala@ansuz.sooke.bc.ca
Wrote cipher/twofish.c.

GNUPG Natural Resources Canada 1998-08-11
Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
Assigns changes.
mroth@nessie.de
Wrote
cipher/des.c.
Changes and bug fixes all over the place.

GNUPG Niklas Hernaeus 1998-09-18
Disclaims changes.
nh@df.lth.se
Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns
past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT Hye-Shik Chang 2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann 2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov 2010-12-09
Assigns
Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT Ulrich Mller 2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

Authors with a DCO

==========

Andrei Scherer <andsch@inbox.com>
2014-08-22:BF7CEF794F9.000003F0andsch@inbox.com:

Christian Aistleitner <christian@quelltextlich.at>
2013-02-26:20130226110144.GA12678@quelltextlich.at:

Christian Grothoff <christian@grothoff.org>
2013-03-21:514B5D8A.6040705@grothoff.org:

Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
2013-07-13:20130713144407.GA27334@fangorn.rup.mentorg.com:

Dmitry Kasatkin <dmitry.kasatkin@intel.com>
2012-12-14:50CAE2DB.80302@intel.com:

Jrmie Courrges-Anglas <jca@wxcvbn.org>
2016-05-26:87bn3ssqg0.fsf@ritchie.wxcvbn.org

Jussi Kivilinna <jussi.kivilinna@mbnet.fi>
2012-11-15:20121115172331.150537dzb5i6jmy8@www.dalek.fi:

Jussi
Kivilinna <jussi.kivilinna@iki.fi>
2013-05-06:5186720A.4090101@iki.fi:

Markus Teich <markus dot teich at stusta dot mhn dot de>
2014-10-08:20141008180509.GA2770@trolle:

Mathias L. Baumann <mathias.baumann at sociomantic.com>
2017-01-30:07c06d79-0828-b564-d604-fd16c7c86ebe@sociomantic.com:

Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:

Peter Wu <peter@lekensteyn.nl>
2015-07-22:20150722191325.GA8113@al:

Rafal Carr <funman@videolan.org>
2012-04-20:4F91988B.1080502@videolan.org:

Sergey V. <sftp.mtuci@gmail.com>
2013-11-07:2066221.5IYa7Yq760@darkstar:

Stephan Mueller <smueller@chronox.de>
2014-08-22:2008899.25OeoelVVA@myon.chronox.de:

Tom Mrz <tm@t8m.info>
2012-04-16:1334571250.5056.52.camel@vespa.frost.loc:

Vitezslav Cizek <vcizek@suse.com>
2015-11-05:20151105131424.GA32700@kolac.suse.cz

Werner Koch <wk@gnupg.org> (g10 Code GmbH)
2012-12-05:87obi8u4h2.fsf@vigenere.g10code.de:

More credits
============

Libgcrypt used
 to be part of GnuPG but has been taken out into its own
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Most of the stuff in mpi has been taken from an old GMP library
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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne,
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The implementation of the Camellia cipher has been taken from the
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>
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>
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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S

- cipher/sha512-avx2-bmi2-amd64.S
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<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

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<tr>
<td width="60%" valign="top">
Signature:

</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name
(printed):
</td>
</tr>
</table>
</body>
</html>

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<html>

<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the _____ day of _____, 2007 ("Effective Date")
by and between _____ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
http://www.sqlite.org/
("SQLite"); and

WHEREAS, Company wishes to support the independent development of
the SQLite database engine to insure the continuing reliability,
vitality, and independence of SQLite, and in connection therewith,
Company wishes to provide funds for ongoing research, development,
and
 maintenance of the SQLite code base, operation of the SQLite
website, protection and maintenance of the SQLite
trademark, as well as for promotion of SQLite at conferences and
trade shows; and

WHEREAS, Company wishes to receive benefits in the form of
services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and
maintained as an independent, community-driven project, and to
ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained
herein, the parties agree as follows:

<h2>1.0 Definitions</h2>

<h3>1.1 SQLite Developers</h3>
The "SQLite Developers" are the employees or contractors of Hwaci engaged
in the development of SQLite, including without limitation the
SQLite Architect.

<h3>1.2 SQLite Architect</h3>
The "SQLite Architect" is the SQLite Developer with ultimate

responsibility and authority over changes
and maintenance of the
SQLite code. The current SQLite Architect is the original designer
and developer of SQLite, D. Richard Hipp. Hwaci may change the
SQLite Architect from time to time upon approval by Company.

<h3>1.3 Consortium Member</h3>
A "Consortium Member" is a company or organization, including
but not limited to Company, which has entered into an agreement
with Hwaci which is substantially similar to this Agreement.

<h2>2.0 Agreement<h2>

<h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

<h4>2.1.1 General Support</h4>
The SQLite Developers shall provide, without limit,
timely and accurate answers, advice, and instruction
in response to questions and comments from Company about SQLite
submitted by email or by telephone at any time day or night.

<h4>2.1.2 Debugging Support</h4>
The SQLite Developers shall at Company's request provide
Company with direct assistance
in debugging applications that are built upon or use SQLite.
The combined
time for Debugging Support and Custom
Development for Company is limited to 330 hours per year.

<h4>2.1.3 Custom Development</h4>
The SQLite Developers shall at the request of Company
write new extensions or enhancements
to SQLite according to Company's specifications. These extensions
and enhancements may be proprietary to Company or open source or
with the consent of both Company and the SQLite Architect may
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours
per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company's request provide Company
with specialized builds of SQLite according to Company's specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company's request provide support
and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and
run
acceptance tests according Company's specifications that are specifically
designed to exercise SQLite as configured and used by Company.
These acceptance tests shall be run and shall pass prior to any release
of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs
in SQLite that are reported by Company or in which Company has
expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source
code well commented and documented and clearly structured and
organized so that an experienced and competent programmer can
understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite
in mission-critical applications and therefore shall work diligently
to ensure continuing bug-free correct operation and backwards
compatibility with prior releases.

<h4>2.1.10
Test Coverage</h4>
The SQLite Developers shall maintain the SQLite test suite such
that no less than 95% source code coverage is provided.

<h4>2.1.11 Website</h4>
The SQLite Developers shall maintain the SQLite website at
http://www.sqlite.org/
in good working order and all SQLite source code shall
be made freely available at such website.

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company,
provide Company with private notification and briefings
of any new bugs or new features in SQLite that might
effect Company's products.

<h4>2.2.2 Direction</h4>
The SQLite Architect shall coordinate the activities of SQLite
Developers and shall publish from time to time a roadmap of
proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
The SQLite Architect shall personally
review all changes to
the SQLite Source Code and take responsibility for the quality
and correctness of those changes.

<h4>2.2.4 Continuity</h4>
The initial SQLite Architect shall be the original developer
of SQLite, D. Richard Hipp. The role of SQLite Architect shall
not be assigned to another during the term of this Agreement except
due to the disability of Dr. Hipp and with approval of Company.

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
Hwaci shall act as the employer of the SQLite Developers and
SQLite Architect and shall make all tax and legal filings
and tax withholding required by employers. Hwaci shall provide
Company with W-9 information upon request.

<h4>2.3.2 Responsible Party</h4>
All obligations of the SQLite Developers set forth in this
agreement are deemed obligations of Hwaci. Hwaci shall recruit,
employ, and supervise SQLite Developers in such a way that the
responsibilities and obligations of the SQLite
Developers set
forth in this agreement are upheld.

<h4>2.3.3 Multiple Developers</h4>
Hwaci shall recruit and employ as many SQLite Developers for as

many hours as can be reasonably achieved using the funds received
from Consortium Members under this agreement.
So that support for SQLite will not be interrupted by the
disability or withdrawal of any one SQLite Developer, Hwaci will
keep at least two knowledgeable and competent SQLite Developers
on staff.

<h4>2.3.4 Mentorship</h4>
Hwaci shall work to encourage independent
programmers from around the world
to become familiar with SQLite internals so that there will be a
pool of talent able to support SQLite in the future.

<h4>2.3.5 Audits</h4>
Hwaci shall keep and maintain complete and accurate records
of the use of development funds provided by Company
and shall allow Company, or its representative, a certified
public accountant mutually acceptable to Hwaci and Company,
during office hours and at reasonable
intervals, no more than
once every 12 months, to inspect and make extracts or copies
of such records solely for the purpose of ascertaining Hwaci's
compliance with the objectives and requirements of this agreement.

<h4>2.3.6 Disaster Planning</h4>
Hwaci shall maintain backup copies of all
SQLite source files and documentation, current and historical,
at at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and
server space for the
http://www.sqlite.org/ website.

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means,
except with the consent of Company.

<h4>2.3.9
New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development,
debugging, and general support service obligations for all
Consortium Members while still providing ample time for
the SQLite Developers to engage in general maintenance
and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
Hwaci shall use the funds provided hereunder
solely for the development and maintenance of SQLite as set forth in
this Agreement.
Interest on funds received in advance and held in trust will
be reinvested and used for the same purposes as the principal.

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
Company
shall provide funding for the ongoing support and
maintenance of SQLite as set forth in section 3.0 "Fees".

<h4>2.4.2 Copyright Disclaimer</h4>
Company acknowledges that SQLite source code and documentation
published on the SQLite website
is in the public domain and that nothing in this agreement shall change
that fact.

<h2>3.0 Fees</h2>

In consideration of the performance
by Hwaci, the SQLite Developers, and the SQLite Architect
of the obligations described herein,
Company shall pay Hwaci at least US $75,000 per year in advance
either annually, quarterly, or monthly, at Company's discretion.

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

<h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>
In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise

its reasonable best efforts to narrow the scope of disclosure
and obtain an order or other reliable assurance that
confidential treatment will be accorded to such
Confidential Information. To the extent that Hwaci
is prohibited from notifying Company of a subpoena,
order or demand, by the terms of same, Hwaci shall exercise
its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

Upon the termination of this Agreement, or upon Company's
earlier request, Hwaci shall deliver to Company all of
Company's property or Confidential Information that Hwaci
may have in Hwaci's possession or control.

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

Company acknowledges that all copyrightable material, notes,
records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or
reduced to practice by Hwaci related to SQLite
will remain the property of Hwaci. Nothing in this Agreement
will be construed to transfer any intellectual property right
of Hwaci to Company.

<h3>5.2 Availability and Public Domain Dedication</h3>

The SQLite Developers and Hwaci shall,
subject to their discretion as to the quality
and suitability of the SQLite source code and documentation
for public release, make
the SQLite source code and documentation
publicly available as downloadable files
and make a public statement ceding all intellectual
property rights, including but not limited to copyright
and patent rights, in the SQLite source code and documentation
to the public domain.
To the extent that the SQLite Developers and Hwaci
elect not to release the SQLite
source code and documentation
publicly, they shall provide copies thereof to
Company and hereby grants to Company, under all of the
SQLite
 Developers' and Hwaci's
rights

including but not limited to copyright and patent rights,
in and to the SQLite source code and documentation,
perpetual, irrevocable,
worldwide, non-exclusive, sublicenseable license to use,
copy, prepare derivative works of, publicly perform and
display the SQLite source code and documentation
and derivative works thereof.

<h3>5.3 Trademark</h3>

Hwaci shall use the name "SQLite" only to apply to the
publicly available project known by such name as of the
Effective Date. Hwaci may in its discretion file such
trademark applications or registrations as it deems
appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.

<h2>6.0 Representations And Warranties</h3>

<h3>6.1 Intellectual Property Clearances.</h3>

Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to
 undertake the obligations of Section 5.

<h3>6.2 Disclaimer.</h3>

THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>

This Agreement will commence on the Effective Date and
will continue until 12 months after the Effective Date.
Thereafter, the parties may by mutual consent renew
this Agreement subject to agreement on fees to be paid by
Company for sponsorship for additional periods.

<h3>7.2 Termination.</h3>

If either party materially defaults in
the performance
of any of its material obligations hereunder and if any
such default is not corrected within 30 days after notice
in writing, then the non-defaulting party, at its option,
may, in addition to any other remedies it may have, thereupon
terminate this Agreement by giving written notice of
termination to the defaulting party.

<h3>7.3 Survival.</h3>

Upon such termination all rights and duties of the
parties toward each other will cease except:
Sections 4 (Confidentiality), 5 (Intellectual Property),
and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of
Hwaci's services are substantial consideration for the
parties' entering into this Agreement. Neither this
Agreement nor any rights under this Agreement may be
assigned or otherwise transferred by Hwaci, in whole
or in part, whether voluntarily or by operation
of law,
without the prior written consent of Company, which
consent will not be unreasonably withheld.
Subject to the foregoing, this Agreement will be binding
upon and will inure to the benefit of the parties and
their respective successors and assigns. Any assignment
in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of
this Agreement or required by law must be in writing
and must be: (a) delivered in person; (b) sent by first
class registered mail, or air mail, as appropriate; or
(c) sent by overnight air courier, in each case properly
posted and fully prepaid to the appropriate address set
forth in the preamble to this Agreement. Either party
may change its address for notice by notice to the other
party given in accordance with this Section. Notices

will be considered to have been given at the time of
actual delivery in person, three business days after
deposit in the mail as set forth
above, or one day after
delivery to an overnight air courier service.

<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or
of a party's rights or remedies under this Agreement
must be in writing to be effective. Failure, neglect,
or delay by a party to enforce the provisions of this
Agreement or its rights or remedies at any time, will
not be construed as a waiver of such party's rights
under this Agreement and will not in any way affect
the validity of the whole or any part of this Agreement
or prejudice such party's right to take subsequent action.
No exercise or enforcement by either party of any right
or remedy under this Agreement will preclude the
enforcement by such party of any other right or remedy
under this Agreement or that such party is entitled by
law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement
is found to be invalid, unlawful or unenforceable to
any extent, the parties
shall endeavor in good faith
to agree to such amendments that will preserve, as far
as possible, the intentions expressed in this Agreement.
If the parties fail to agree on such an amendment,
such invalid term, condition or provision will be
severed from the remaining terms, conditions and
provisions, which will continue to be valid and
enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the
parties with respect to the subject matter of this
Agreement and supersedes all previous communications,
representations, understandings and agreements,
either oral or written, between the parties with
respect to said subject matter. This Agreement
may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one
 and the same agreement.

<h3>8.7 Governing Law.</h3>

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

<h3>8.8 Independent Contractors.</h3>

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table width="100%" border="0">
<tr><td valign="top">
HWACI
By:<hr>

Print Name:<hr>

Title:<hr>

</td><td
 width="10%"></td>
<td valign="top">
COMPANY
By:<hr>

Print Name:<hr>

Title:<hr>

</td></tr></table>

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/consortium_agreement-20071201.html
No license file was found, but licenses were detected in source scan.

public domain. No claim of ownership is made

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/faq.html
No license file was found, but licenses were detected in source scan.

SQLite is in the public domain. This document describes what that means

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/docs.html
No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor="white">
FOR IMMEDIATE RELEASE:

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's
most deployed SQL database engine</h3>

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium,
a new membership association dedicated to maintaining SQLite as a fully open
and independent product, was formally announced today. Mozilla and Symbian Ltd.
have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database
engine. The source code to SQLite is in the public domain and is available with
no associated fees. SQLite is the most deployed SQL database engine in the world
and is currently used in a wide range of commercial software products and electronic
devices from leading manufacturers.
 SQLite is found today in many mobile phones,
MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing
SQLite as a product that anyone may use without paying royalties or licensing fees.
Members of the SQLite Consortium provide funding to enable this mission and in
return receive enterprise-level technical support. Technical control and direction
of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian,
the market-leading open operating system for advanced data-enabled smartphones,
both deploy the SQLite database engine in their products. As charter members of
the Consortium, Mozilla and Symbian are ensuring the development and support of
SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast,
and open source," said Michael Schroepfer,
Vice President of Engineering, Mozilla.
"As a charter member of the SQLite Consortium, Mozilla is excited to help ensure
SQLite remains a vibrant and open technology, in line with our mission to promote
choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management
which are essential in smartphone functionality and will also help create a pool
of developers, highly-skilled in SQLite for future mobile phone development, "
said Bruce Carney, Director, Developer Programmes & Services, Symbian.
"Our involvement with the SQL Consortium not only demonstrates Symbian's commitment
to open standards in the industry, but as mobile phones become increasingly powerful
and smartphones become increasingly popular, we are focused on ensuring that
desktop developers, who move to the mobile space, have the easiest and most
productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional
information
regarding the SQLite Consortium is available at the SQLite website,
http://www.sqlite.org/.

# # #

About SQLite

SQLite is a software library that implements a self-contained, embeddable,
serverless, zero-configuration, transactional SQL database engine. The code for
SQLite is in the public domain and is free for any use, commercial or private.
SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp.
The code continues to be maintained and enhanced by an international team
of developers under Hipp's direction.

CONTACT INFORMATION:
SQLite Consortium

Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products

and technologies that improve the online experience for people everywhere.
Mozilla works in the open with a highly disciplined, transparent and cooperative
development process, under the umbrella of the non-profit Mozilla Foundation.
As a wholly owned subsidiary, the Mozilla Corporation organizes the development
and marketing of Mozilla products. This unique structure has enabled Mozilla to
financially support and cultivate competitive, viable community innovation.
For more information, visit www.mozilla.com.

CONTACT INFORMATION:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS,
the market-leading open operating system for advanced, data-enabled mobile phones
known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers
and has built close co-operative business
relationships with leading companies
across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones
were sold worldwide to over 250 major network operators, bringing the total
number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the
United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.
For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen

+44 207 154 1707
press@symbian.com

</body></html>

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/pressrelease-20071212.html
No license file was found, but licenses were detected in source scan.

Public domain
The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/different.html
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without a shared lock, other processes are free to modify the database

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* /sqlite3-3-22-0-orig-www-1-tar-xz/www/atomiccommit.html
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public domain and so most

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/famous.html
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 Public domain source code
public domain and is thus free for

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/about.html
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
* /sqlite3-3-22-0-orig-www-1-tar-xz/www/rtree.html

1.392 glibc 2.27-3ubuntu1.4

1.392.1 Available under license :

This is the Debian prepackaged version of the GNU C Library version 2.23.

It was put together by the GNU Libc Maintainers <debian-glibc@lists.debian.org>
from <https://sourceware.org/git/glibc.git>

* Most of the GNU C library is under the following copyright:

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Lesser General Public License for more details.

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

On Debian systems, the complete text of the GNU Library
General Public License can be found in `/usr/share/common-licenses/LGPL-2.1'.

* The utilities associated with GNU C library is under the following
copyright:

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You should have received a copy of the GNU General Public License
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Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

On Debian systems, the complete text of the GNU Library
General Public License can be found in `/usr/share/common-licenses/GPL-2'.

* All code incorporated from 4.4 BSD is distributed under the following

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3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors
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HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
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SUCH DAMAGE.

* The DNS resolver code, taken from BIND 4.9.5, is copyrighted both by
UC Berkeley and by
Digital Equipment Corporation. The DEC portions
are under the following license:

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* The Sun RPC support (from rpcsrc-4.0) is covered by the following
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1.394 xauth 1.0.10-1

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1.395 kerberos 1.17-6ubuntu4.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c

lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
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lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation,
including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.397 glibc 2.31-0ubuntu9.9

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
```

$(RM) -f ../$(BSD_LIB)

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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
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Gadi Oxman, August 1995

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

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

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1.406 kerberos 1.16-2ubuntu0.1

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c

lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
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lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the
following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c

lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
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This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory

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There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:

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Jean-loup Gailly Mark Adler
jloup@gzip.org
madler@alumni.caltech.edu

1.412 apt 1.6.11

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1.414 libatomic 8.4.0-1ubuntu1~18.04

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@enumerate 0
@item Definitions.

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

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work) run the object code and to modify the work, including scripts to
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DRuntime: Runtime Library for the D Programming Language
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========

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Upstream Authors:
Simon Josefsson *simon [at] josefsson.org*
Current maintainer; draft TLS 1.2 support.

Nikos Mavrogiannopoulos *nmav [at] gnutls.org*
Original author and maintainer of GnuTLS.

Fabio Fiorina *Fabio.Fiorina [at] alcatel.it*
ASN.1 structures parser library (libtasn1).

Timo Schulz *twoaday [at] freakmail.de*
OpenPGP support (OpenCDK library).

Andrew McDonald *andrew [at] mcdonald.org.uk*
OpenSSL compatible interface.

Ludovic Courtes *ludo [at] gnu.org*
Guile bindings, OpenPGP bug fixes.

Mario Lenz *m [at] riolenz.de*
Fixes
to OpenCDK.

Howard Chu *hyc [at] symas.com*
APIs to extract X.500 DN's from Certificates.

Ivo Timmermans *ivo [at] o2w.nl*
Man pages, OpenCDK, fixes.

Stefan Walter *stef [at] memberwebs.com*
PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA *yanagisawa [at] csg.is.titech.ac.jp*
Camellia support.

Emile Van Bergen *emile [at] e-advies.nl*
TLS/IA fixes.

Joe Orton *jorton [at] redhat.com*
Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor *dkg-debian.org [at] fifthhorseman.net*
OpenPGP discussion and improvements.

David Marn Carreo *davefx [at] gmail.com*
Added gnutls_x509_crq_get_key_id.

Daiki Ueno *ueno [at] unixuser.org*
Added TLS Session Ticket (RFC 5077) support,
finished client-side TLS 1.2 support.

Brad Hards *bradh [at] frogmouth.net*
Add X.509 Issuer Alternative Name functions.

Boyan Kasarov *bkasarov [at] gmail.com*
C++ fixes.

Steve Dispensa *dispensa [at] phonefactor.com*
Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault *joe [at] x2a.org*
Fix TLS-version checks.
Redesign and implementation of the buffering layer.
Initial DTLS implementation.

Ruslan Ijbulatov (LRN) *lrn1986 [at] gmail.com*
Win32 patches.

Andy Polyakov *appro [at] openssl.org*
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse *dwmw2 [at] infradead.org*
DTLS 0.9 implementation.

Olga Smolenchuk *olyasib12 [at] gmail.com*
DTLS/TLS heartbeat implementation.

Ilya Tumaykin *itumaykin [at] gmail.com*
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo *martin [at] martin.st*
DTLS-SRTP support.

Alessandro Ghedini *alessandro [at] ghedini.me*
TLS Fallback SCSV
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1.416 iputils 20161105-1ubuntu3

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It was downloaded from https://github.com/iputils/iputils

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1.417 findutils 4.7.0-1ubuntu1

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1.418 libffi 3.3-4

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1.419 shadow 4.5-1ubuntu1

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Kennedy for his contributions of LaserJet printer time and energies.
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V Release 4 changes. Effort
in porting to SunOS has been contributed
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1.420 libpcap 1.9.1-3

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1.421 debianutils 4.9.1

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1.422 bzip2 1.0.6-8.1

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1.423 apache-http-server 2.4.29-1ubuntu4.23

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
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<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
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<script src="./style/scripts/prettify.min.js" type="text/javascript">
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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
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href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap <script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
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* Software Development Group
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* ----------------------------------------------------------------------------
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For the test\zb.c component:

/*   ZeusBench V1.01
     ===============

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

1.424 apache-http-server 2.4.29-1ubuntu4.25

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
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<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
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X
This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
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/>
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</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
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class="warning">Notice:
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invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC
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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
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    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +

comments_identifier;
(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
d.write(' Comments are disabled for this page at the moment.<\/div>');
}
})(window, document);
//--><![]></script>
Copyright 2017 The Apache Software Foundation.
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Modules | Directives | FAQ | Glossary | Sitemap <script type="text/javascript"><!--//--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
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/**
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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****
 *
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/*
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* --
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you
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* --
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For the test\zb.c component:

/*   ZeusBench V1.01
     ===============

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   Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
 Mike Belshe (mbelshe@netscape.com)
 Michael Campanella (campanella@stevms.enet.dec.com)

*/

1.425 pam 1.1.8-3.6ubuntu2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
 close(fd);

```
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                         S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+
+finished:
+            if (pam_modutil_regain_priv(pamh,
 &privs)) {
+                pam_syslog(pamh, LOG_ERR,
```

```
+                       "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+          }
+
+          _pam_drop(flag);
+          _pam_drop(dir);
+       }
+    }
+    return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
    return retval;
}
```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.428 nghttp2 1.40.0-1build1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.429 libseccomp 2.4.1-0ubuntu0.18.04.2

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1.430 libssh 0.9.3-2ubuntu2.2

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1.431 libtasn 4.16.0-2

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This option is useful when you wish to copy part of the code of
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into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file

is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

b) Use a suitable shared library
mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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

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

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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library, provided that the separate
distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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facilities. This must be distributed under the terms of the
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That's all there is to it!

1.441 patch 2.7.6-2ubuntu1.1

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Version 3, 29 June 2007

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1.442 mime-support 3.60ubuntu1

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1.444 libtool 2.4.6-2

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Version 3, 29 June 2007

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1.449 debianutils 4.8.4

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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The End

1.456 linux-atm 2.5.1-2build1

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Anthony Green <green@redhat.com>
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1.466 pam 1.1.8-3.6ubuntu2.18.04.3

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

```
Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
 close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
```

```
+           if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+              goto finished;
+
+           if (stat(flag, &s) != 0)
+           {
+              display_file(pamh, "/etc/legal");
+              mkdir(dir, 0700);
+              f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                       S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+              if (f>=0) close(f);
+           }
+
+finished:
+           if (pam_modutil_regain_priv(pamh,
 &privs)) {
+              pam_syslog(pamh, LOG_ERR,
+                         "Unable to change UID back to %d\n", privs.old_uid);
+              retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+    }
+    return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+
    return retval;
}
```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

```
#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
```

```
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not
 standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/*
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.470 gnutls 3.5.18-1ubuntu1.5

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portability, usability and features design. Official project homepage:
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1.472 adduser 3.118ubuntu2

1.472.1 Available under license :

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
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Since May 20 2000, it is maintained by Roland Bauerschmidt
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1.473 python 2.7.17-1~18.04ubuntu1.8

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
 Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.474 libassuan 2.5.1-2

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

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1.476 libxrender 0.9.10-1

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1.477 cpp 8.4.0-1ubuntu1~18.04

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1.481 sed 4.4-2

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1.484 libseccomp 2.5.1-1ubuntu1~20.04.2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.489 libpng 1.6.34-1ubuntu0.18.04.1

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---

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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1.490 libxmu 1.1.2-2

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```
--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+  [ Andreas Boll ]
+  * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+    when building in parallel (closes: #801059).  Thanks, Matthias Klose!
+
+  [ Julien Cristau ]
```

+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+
   * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-{arch,indep} debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+   configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+   from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+ -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+
+libxmu (2:1.1.0-3) unstable; urgency=low
+
+ * Build for multiarch.
+
+ -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+
+libxmu (2:1.1.0-2) unstable; urgency=low
+
+ [Christopher James Halse Rogers]
+ * debian/patches/01_dont_export_private_deps.patch:
+
    - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+   private dep. With binutils-gold, the indirect dependency on Xt is not
+   considered when linking with Xmu so this causes build failures.
+
+ [Julien Cristau]
+ * Drop Pre-Depends on x11-common, only needed for upgrades from the
+   monolith.
+

```
+ -- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200
+
+libxmu (2:1.1.0-1) unstable; urgency=low
+
+  * New upstream release.
+  * Bump xutils-dev build-dep for new macros.
+  * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+  * Pass --with-xmlto and --without-fop (we want html and txt only).
+  * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
+    libxmu-headers.install file.
+  * Remove the hardcoded path to the X logo in the Xmu.html file.
+  * Kill *.xml in the doc directory, no point in shipping them.
+  * Switch from --list-missing to --fail-missing for additional safety.
+
+
 -- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100
+
+libxmu (2:1.0.5-2) unstable; urgency=high
+
+  [ Julien Cristau ]
+  * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
+    good reason.  Thanks, Colin Watson!
+  * Remove myself from Uploaders
+  * Don't pass both -s and -Nfoo/-pfoo to dh_strip.  This resulted in an empty
+    libxmuu1-dbg (Closes: #594500).  Thanks to Luca Falavigna for the report.
+
+  [ Cyril Brulebois ]
+  * Add myself to Uploaders.
+  * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
+    for the report.
+
+ -- Cyril Brulebois <kibi@debian.org>  Sat, 04 Sep 2010 14:32:30 +0200
+
+libxmu (2:1.0.5-1) unstable; urgency=low
+
+  [ Timo Aaltonen ]
+  * New upstream release.
+    + Fix 64bit support (closes: #521887)
+
+  [ Julien Cristau ]
+  * Bump Standards-Version to 3.8.3.
+
+ -- Julien Cristau <jcristau@debian.org>  Wed, 25 Nov 2009 19:20:17 +0100
+
+libxmu (2:1.0.4-2) unstable; urgency=low
+
+
```

[Julien Cristau]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
+ dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
+ (closes: #486418). Thanks, Martin Koeppe!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.
+
+ [Brice Goglin]
+ * Add a link to www.X.org and a reference to the upstream module
+ in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [Julien Cristau]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
+ Josh Triplett.
+ * Don't export private
dependencies in xmu.pc and xmuu.pc. These
+ dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their
+ permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/
+
+ [Timo Aaltonen]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100
+
+libxmu (1:1.0.3-1) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+ XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use ${binary:Version} instead of ${Source-Version}.

+
+ -- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+
+libxmu
 (1:1.0.2-2) unstable; urgency=low
+
+ [Andres Salomon]
+ * Test for obj-$(DEB_BUILD_GNU_TYPE) before creating it during build;
+   idempotency fix.
+
+ [Drew Parsons]
+ * dbg package has priority extra.
+
+ -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+
+libxmu (1:1.0.2-1) experimental; urgency=low
+
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+   to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+
+ -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+
+libxmu (1:1.0.1-3) unstable; urgency=low
+
+ * Reorder makeshlib command in rules file so that ldconfig is run
+   properly. Thanks Drew Parsons and Steve Langasek.
+
+ -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+
+libxmu (1:1.0.1-2) unstable; urgency=low
+
+ * Upload to unstable
+
+
 -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+
+libxmu (1:1.0.1-1) experimental; urgency=low
+
+ * First upload to Debian
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+
+libxmu (1:6.2.3-5) breezy; urgency=low
+

```
+  * Also, libxmu-dev needs to depend on libxt-dev too.
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+
+libxmu (1:6.2.3-4) breezy; urgency=low
+
+  * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+
+libxmu (1:6.2.3-3) breezy; urgency=low
+
+  * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+
+ -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
+
+libxmu (1:6.2.3-2) breezy; urgency=low
+
+  * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+    _XOPEN_SOURCE.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
+
+libxmu
 (1:6.2.3-1) breezy; urgency=low
+
+  * First libxmu release.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+ debhelper (>= 9),
+ dh-autoreconf,
+ libx11-dev (>= 1:0.99.2),
+ libxt-dev (>= 1:0.99.1),
+ libxext-dev (>= 1:0.99.1),
+ pkg-config,
+ quilt,
```

+ automake,
+ libtool,
+ xutils-dev (>= 1:7.6+2),
+# devel-docs:
+ xmlto (>= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends},
 ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely
 have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at

+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package:
 libxmuu1
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X

+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt
 or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (=
${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+
 .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.

+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
+----------
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc

```
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++
 libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+--- a/xmu.pc.in
++++ b/xmu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
+-Requires: xproto x11 xt
++Requires: xproto xt
+ Requires.private: x11 xt xext
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@
+ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
+-Requires: xproto x11
++Requires: xproto
+ Requires.private: x11
```

```
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
+#!/usr/bin/make -f
+# debian/rules for the Debian libxmu package.
+# Copyright  2004 Scott James Remnant <scott@netsplit.com>
+# Copyright  2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright  2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+ dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+ dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+ dh_auto_configure -- \
+  --disable-silent-rules
 \
+  --docdir=\$${prefix}/share/doc/libxmu-headers \
+  --with-xmlto \
+  --without-fop
+
+override_dh_auto_install:
+ dh_auto_install
+ find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+ dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+ dh_strip -Nlibxmu6 -Nlibxmuu1
+ dh_strip -plibxmu6 --dbg-package=libxmu6-dbg
+ dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbg
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
```

+version=3
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\.tar\.gz

Found in path(s):
* /libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.491 keyutils 1.6-6ubuntu1.1

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that in
whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
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when run, you must cause it, when started running for such
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the Program is not required to print an announcement.)

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

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

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

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

  Gnomovision version 69, Copyright (C) 19yy name of author
  Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
  This is free software, and you are welcome to redistribute it
  under certain conditions; type `show c' for details.

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

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

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 `Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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proprietary programs. If your program is a subroutine library, you may
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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
   GNU LESSER GENERAL PUBLIC LICENSE
       Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

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free software--to make sure the software is free for all its users.

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it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

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For example, if you distribute copies of the library, whether gratis or for a fee, you
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Finally, software patents pose a constant threat
to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be

consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire
combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software
only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

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

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

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

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

However, linking a "work that uses the Library" with the Library

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library,
if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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

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

7. You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.493 pcre 8.39-12ubuntu0.1

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Email local part: ph10
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1.494 libpkit 0.23.20-1ubuntu0.1

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1.495 xz 5.2.4-1ubuntu1.1

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1.497 hostname 3.20

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1.503 libpkit 0.23.9-2ubuntu0.1

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common/pkcs11i.h
common/test-constants.c common/test-hash.c
p11-kit/pkcs11.h p11-kit/test-managed.c
trust/builder.c
trust/builder.h trust/digest.h trust/module.c trust/module.h trust/pem.c

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trust/test-digest.c trust/test-enumerate.c
trust/test-index.c trust/test-module.c
trust/test-oid.c
trust/test-parser.c trust/test-pem.c trust/test-token.c
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1.506 git 2.17.1-1ubuntu0.4

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

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete

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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et

```
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/
```

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    Theodore Ts'o
    23-June-2007

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h

lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the
following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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==========

```
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```

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jloup@gzip.org madler@alumni.caltech.edu

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code or patches to this implementation of sudo since I began
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
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Bezina, Pavel
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Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei

Dill, David
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Farrell, Brian
Fobes, Steve
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G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
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Jackson, Brian
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Kienenberger, Mike
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric

Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
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Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
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Nieusma, Jeff
Nikitser, Peter A.
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Petten, Diego Elio
Pickett, Joel
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Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo

Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
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Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
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1.516 cdebconf 0.251ubuntu1

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Other contributors include:
Anthony Towns <ajt@debian.org>

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Dan Jacobowitz <dan@debian.org>
Tollef Fog Heen <tfheen@debian.org>
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1.518 systemd 237-3ubuntu10.11

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1.519 libxdmcp 1.1.2-3

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1.520 ncurses 6.2-0ubuntu2

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Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

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1.521 tcpdump 4.9.3-0ubuntu0.18.04.2

1.521.1 Available under license :

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Wed, 22 Nov 2000 13:19:33 +1100, then maintained by Torsten Landschoff
<torsten@debian.org> and Romain Francoise <rfrancoise@debian.org>.

It was downloaded from http://www.tcpdump.org/

Upstream Authors: tcpdump-workers@tcpdump.org

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Current upstream maintainers:
Bill Fenner <fenner@research.att.com>
Fulvio Risso <risso@polito.it>
Guy Harris <guy@alum.mit.edu>
Hannes Gredler <hannes@juniper.net>
Jun-ichiro itojun Hagino <itojun@iijlab.net>
Michael Richardson <mcr@sandelman.ottawa.on.ca>

Additional people who have contributed patches:

Alan Bawden <Alan@LCS.MIT.EDU>
Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
Albert Chin <china@thewrittenword.com>
Andrew Brown <atatat@atatdot.net>
Antti Kantee <pooka@netbsd.org>
Arkadiusz Miskiewicz <misiek@pld.org.pl>
Armando L. Caro Jr. <acaro@mail.eecis.udel.edu>
Assar Westerlund <assar@sics.se>
Brian Ginsbach <ginsbach@cray.com>
Charles M. Hannum <mycroft@netbsd.org>
Chris G. Demetriou <cgd@netbsd.org>
Chris Pepper <pepper@mail.reppep.com>

Darren Reed <darrenr@reed.wattle.id.au>
David Kaelbling <drk@sgi.com>
David Young <dyoung@ojctech.com>
Don
Ebright <Don.Ebright@compuware.com>
Eric Anderson <anderse@hpl.hp.com>
Franz Schaefer <schaefer@mond.at>
Gianluca Varenni <varenni@netgroup-serv.polito.it>
Gisle Vanem <giva@bgnett.no>
Graeme Hewson <ghewson@cix.compulink.co.uk>
Greg Stark <gsstark@mit.edu>
Greg Troxel <gdt@ir.bbn.com>
Guillaume Pelat <endymion_@users.sourceforge.net>
Hyung Sik Yoon <hsyn@kr.ibm.com>
Igor Khristophorov <igor@atdot.org>
Jan-Philip Velders <jpv@veldersjes.net>
Jason R. Thorpe <thorpej@netbsd.org>
Javier Achirica <achirica@ttd.net>
Jean Tourrilhes <jt@hpl.hp.com>
Jefferson Ogata <jogata@nodc.noaa.gov>
Jesper Peterson <jesper@endace.com>
John Bankier <jbankier@rainfinity.com>
Jon Lindgren <jonl@yubyub.net>
Juergen Schoenwaelder <schoenw@ibr.cs.tu-bs.de>
Kazushi Sugyo <sugyo@pb.jp.nec.com>
Klaus Klein <kleink@netbsd.org>
Koryn Grant <koryn@endace.com>
Krzysztof Halasa <khc@pm.waw.pl>
Lorenzo Cavallaro <sullivan@sikurezza.org>
Loris
Degioanni <loris@netgroup-serv.polito.it>
Love Hrnquist-strand <lha@stacken.kth.se>
Maciej W. Rozycki <macro@ds2.pg.gda.pl>
Marcus Felipe Pereira <marcus@task.com.br>
Martin Husemann <martin@netbsd.org>
Mike Wiacek <mike@iroot.net>
Monroe Williams <monroe@pobox.com>
Octavian Cerna <tavy@ylabs.com>
Olaf Kirch <okir@caldera.de>
Onno van der Linden <onno@simplex.nl>
Paul Mundt <lethal@linux-sh.org>
Pavel Kankovsky <kan@dcit.cz>
Peter Fales <peter@fales-lorenz.net>
Peter Jeremy <peter.jeremy@alcatel.com.au>
Phil Wood <cpw@lanl.gov>
Rafal Maszkowski <rzm@icm.edu.pl>
Rick Jones <raj@cup.hp.com>
Scott Barron <sb125499@ohiou.edu>

Scott Gifford <sgifford@tir.com>
Sebastian Krahmer <krahmer@cs.uni-potsdam.de>
Shaun Clowes <delius@progsoc.uts.edu.au>
Solomon Peachy <pizza@shaftnet.org>
Stefan Hudson <hudson@mbay.net>
Takashi Yamamoto <yamt@mwd.biglobe.ne.jp>
Tony Li <tli@procket.com>
Torsten Landschoff <torsten@debian.org>
Uns
Lider <unslider@miranda.org>
Uwe Girlich <Uwe.Girlich@philosys.de>
Xianjie Zhang <xzhang@cup.hp.com>
Yen Yen Lim
Yoann Vandoorselaere <yoann@prelude-ids.org>

The original LBL crew:
Steve McCanne
Craig Leres
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1.523 pcre 10.34-7

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
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Email domain: cam.ac.uk

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1.525 curl 7.58.0-2ubuntu3.6

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1.531 shadow 4.8.1-1ubuntu5.20.04.2

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1.532 libcap-ng 0.7.7-3.1

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1.533 systemd 237-3ubuntu10.52

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1.535 perl 5.30.0-9ubuntu0.2

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```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
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#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you must check the output.
```

1.536 apr-util 1.6.1-2

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This package was debianized by Thom May <thom@debian.org> on
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 misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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END OF TERMS AND CONDITIONS

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<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c'
for details.

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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==========

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The End

1.538 make 4.1-9.1ubuntu1

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
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must
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therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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1.539 libidn 2.2.0-2

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1.540 procps 3.3.12-3ubuntu1.1

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* command :
* $ ./checkTag tag
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* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
* checkTag is intended to be used in automated testing environment.
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1.542 bash 4.4.18-2ubuntu1.2

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1.544 audit 2.8.2-1ubuntu1.1

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1.545 mpdecimal 2.4.2-1ubuntu1

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1.546 pam 1.1.8-3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===

```
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
 close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                         S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+
```

```
+finished:
+           if (pam_modutil_regain_priv(pamh,
 &privs)) {
+               pam_syslog(pamh, LOG_ERR,
+                          "Unable to change UID back to %d\n", privs.old_uid);
+               retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
@@ -116,6 +171,9 @@
   /* Display the updated motd */
   display_file(pamh, motd_path);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
   return retval;
}
```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.547 libsemanage-common 3.0-1build2

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslcpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
src/radixsort.c
src/setmode.c
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man/getpeereid.3bsd
man/pidfile.3bsd
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man/strtonum.3bsd
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
 src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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1.551 vixie-cron 3.0pl1-136ubuntu1

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* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
 /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
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.\" $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
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.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"

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

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

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

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

if you expect your /var to have a lot of stuff in it.

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

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

say:
make all

su and say:
make install

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

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

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

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

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

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

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

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

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

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected

directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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

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

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

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

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

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding

machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

engineering for debugging such modifications.

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any
other library
facilities. This must be distributed under the terms of the
Sections above.

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

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

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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

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

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

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

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

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

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

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

this criterion.

@item Source Code.

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

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

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

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

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

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

recipients a copy of this License along with the Program.

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

@item Conveying Modified Source Versions.

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

@enumerate a
@item
The work must carry prominent notices stating that you modified it,
and giving a relevant date.

@item
The work must carry prominent notices stating that it is released
under this License and any conditions added under section 7. This
requirement modifies the requirement in section 4 to ``keep intact all
notices''.

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You must license the entire work, as a whole, under this License to
anyone who comes into possession of a copy. This License will
therefore apply, along with any applicable section 7 additional terms,
to the whole of the work, and all its parts, regardless of how they
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any other way, but it does not invalidate such permission if you have
separately received it.

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If the work has interactive user interfaces, each must display
Appropriate
 Legal Notices; however, if the Program has interactive
interfaces that do not display Appropriate Legal Notices, your work
need not make them do so.
@end enumerate

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

in an aggregate does not cause this License to apply to the other
parts of the aggregate.

@item Conveying Non-Source Forms.

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

@enumerate
 a
@item
Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium customarily
used for software interchange.

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

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

@item
Convey the object code by offering access from a designated place
(gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be
on a different server (operated by you or a third party) that supports
equivalent copying facilities, provided you maintain clear directions
next to the object code saying where to find the Corresponding Source.

Regardless of what server hosts the Corresponding Source, you remain
obligated to ensure that it is available for as long as needed to
satisfy these requirements.

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

@end enumerate

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

A ``User Product'' is either (1) a ``consumer product'', which means any
tangible personal property which is normally used for personal,
family, or household purposes, or (2) anything designed or sold for
incorporation into a dwelling. In determining whether a product is a
consumer product, doubtful cases shall be resolved in favor of
coverage. For a particular product received by a particular user,
``normally used'' refers to a typical or common use of that class of
product, regardless of the status of the particular user or of the way
in which the particular user actually uses, or expects
 or is expected
to use, the product. A product is a consumer product regardless of
whether the product has substantial commercial, industrial or
non-consumer uses, unless such uses represent the only significant
mode of use of the product.

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

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction
 is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

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

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

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limitation in the term "modification".)

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

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.554 e2fsprogs 1.44.1-1ubuntu1.1

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*/
Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
```

-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.555 diffutils 3.7-3

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nickc@redhat.com and I'll correct the situation.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration
 including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many

small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost;
we aren't
intentionally leaving anyone out.

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@smallexample
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
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[This is the first released version of the library GPL. It is
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freedom to share and change it. By contrast, the GNU General Public

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code. If you link a program with the library, you must provide
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changes to the library and recompiling
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Finally, any free program is threatened constantly by software
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transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this
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This option is useful when you wish to copy part of the code of the
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the
recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
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When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
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We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we
use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
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In addition, mere aggregation of another work not based on the Library
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these notices.

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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the
user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.560 elfutils 0.170-0.4ubuntu0.1

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1.561 gpm 1.20.7-5

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1.564 gzip 1.6-5ubuntu1

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1.567 libpsl 0.21.0-1ubuntu1

1.567.1 Available under license :

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1.568 gzip 1.6-5ubuntu1.2

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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
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* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
*/
```

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

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```
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.\" @(#)bitstring.3 5.1
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.\"
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\"

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*/

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

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

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

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

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

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

you should check this out.

say:
make all

su and say:
make install

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

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

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

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

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

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

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

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

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

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

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

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

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

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do this, I will continue to support and distribute the pseudo-PD version, so
please, don't flame me for wanting my work to see a wider distribution.

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

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

(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.

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

Found in path(s):
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1.570 libxtst 1.2.3-1

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1.571 iptables 1.6.1-2ubuntu2

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1.573 xorg 7.7+19ubuntu7.1

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1.574 curl 7.58.0-2ubuntu3.18

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1.577 tar 1.29b-2ubuntu0.3

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.581 pcre 8.39-9ubuntu0.1

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Written by: Philip Hazel
Email local part: ph10
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1.582 audit 2.8.5-2ubuntu6

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1.585 shadow 4.5-1ubuntu2.2

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in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

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1.589 findutils 4.6.0+git+20170828-2

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It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by
Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley
<kevind@rahul.net> took over. 2003-07 Andreas Metzler
<ametzler@debian.org> followed.

Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>,
with enhancements by David MacKenzie <djm@gnu.org>,
Jay Plett <jay@silence.princeton.nj.us>,
and Tim Wood <axolotl!tim@toad.com>.

The idea for -print0 and xargs -0 came from
Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
was originally written by Mike Rendell, with enhancements by David
MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
written by James Woods, with enhancements by David MacKenzie, James Youngman
and Bas van Gompel.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David
J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
Paul Sheer
Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>
Andreas Metzler
Kamil Dudka <kdudka@redhat.com>
Bernhard Voelker <mail@bernhard-voelker.de>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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1.590 expat 2.2.5-3ubuntu0.7

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1.591 coreutils 8.28-1ubuntu1

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This is the Debian GNU/Linux packaged version of the GNU core
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This package is maintained by Michael Stone <mstone@debian.org> and
built from sources obtained from:
 ftp://ftp.gnu.org/gnu/coreutils/coreutils-8.24.tar.xz

This debian package was first created by Michael Stone <mstone@debian.org>,
from coreutils 4.5.1.

Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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lib/inet_ntop.c

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doc/coreutils.texi (The GNU Coreutils Manual)

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1.592 systemd 237-3ubuntu10.25

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1.593 libsepol 2.7-1ubuntu0.1

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1.597 libxcb 1.13-1

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1.598 libpkit 0.23.9-2

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common/test-constants.c common/test-hash.c
p11-kit/pkcs11.h p11-kit/test-managed.c
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p11-kit/test-log.c trust/anchor.c trust/anchor.h
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1.599 python 2.7.15~rc1-1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National
 Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software

Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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lib/hcrypto/test_dh.c

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Version 3, 29 June 2007

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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1.608 bzip2 1.0.6-8.1ubuntu0.2

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1.609 pam 1.3.1-5ubuntu4.3

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<signature of Ty Coon>, 1 April 1990
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1.612 sysv-init 2.88dsf-59.10ubuntu1

1.612.1 Available under license :

This package contains the mechanism for executing the right scripts
in the right order at bootup/shutdown time, and when changing runlevels.
It works through managing symlinks in /etc/rc?.d

This package is built from the `sysvinit' source package. Please
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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
        92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
        92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's
start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.
This package contains the scripts that are executed at start and
shutdown of Debian systems.

This package is built from the `sysvinit' source package. Please
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1.613 libseccomp 2.3.1-2.1ubuntu4

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

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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1992-1997 Michael K. Johnson, johnsonm@redhat.com
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1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)
1994-2005 Jeff Tranter (tranter@pobox.com)
1995, 1999, 2000 Andries E. Brouwer <aeb@cwi.nl>
1997-2005 Frodo Looijaard
<frodo@frodo.looijaard.name>
1998 Danek Duvall <duvall@alumni.princeton.edu>
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2004-2006 Michael Holzt, kju -at- fqdn.org
2005 Adrian Bunk
2007-2014 Karel Zak <kzak@redhat.com>
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2008 Cai Qian <qcai@redhat.com>
2008 Hayden A. James (hayden.james@gmail.com)
2008 James Youngman <jay@gnu.org>
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2009 Mikhail Gusarov <dottedmag@dottedmag.net>
2010, 2011, 2012 Davidlohr Bueso <dave@gnu.org>
2010 Jason Borden <jborden@bluehost.com>A
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2004-2008 Kay Sievers <kay.sievers@vrfy.org>
2008-2013 Karel Zak <kzak@redhat.com>
2009 Bastian Friedrich <bastian.friedrich@collax.com>
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

```
## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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changelog.gz (commit 975d8fd) explains:
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2007-2010, Lasse Collin
Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
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Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g
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1.625 ncurses 6.1-1ubuntu1.18.04

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```
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comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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```

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```
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 to make passes
 at assemblers) written by James Hacker.

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

That's all there is to it!

1.627 java-common 0.63ubuntu1~02

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1.629 shadow 4.5-1ubuntu2

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Also, thanks for Dennis L. Mumaugh for the initial shadow password
information and to Tony Walton (olapw@olgb1.oliv.co.uk) for the System
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1.630 shadow 4.5-1ubuntu2.3

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1.631 adduser 3.116ubuntu1

1.631.1 Available under license :

This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<sr1@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt
<rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt
<rb@debian.org>, and co-maintained by Marc Haber
<mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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1.632 base-files 11ubuntu5.5

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
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analogous to running a utility program or application program. However, in

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

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

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

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1.634 aide 0.16-3ubuntu0.1

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.636 gnutls 3.5.18-1ubuntu1.6

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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009

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

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for as
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1.637 gnutls 3.6.13-2ubuntu1.7

1.637.1 Available under license :

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version 0.1
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1.646 e2fsprogs 1.44.1-1ubuntu1.4

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file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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Index: tdbsa/tdb.c
===
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released

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Gadi Oxman, August 1995

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```
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```
DAMAGE.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
```

$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o
23-June-2007

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

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a
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@item
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to copy the Corresponding Source from a network server at no charge.

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6b.

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@item
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@end enumerate

@heading END OF TERMS AND CONDITIONS

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do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
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the ``copyright'' line and a pointer to where the full notice is found.

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@end smallexample

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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The "Compilation Process" transforms code
entirely represented in
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DRuntime: Runtime Library for the D Programming Language
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Version 2, June 1991

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========

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Individuals submitting their patches under 2-clause BSD:

David Allsopp David.Allsopp@cl.cam.ac.uk
Erik M. Bray erik.bray@lri.fr
Brian Inglis Brian.Inglis@SystematicSw.ab.ca
Daniel Santos daniel.santos@pobox.com

==========

Individuals
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AJ Reins tbisp@qwest.net
Brian E. Dessent brian@dessent.net
Brian Kenneth Ford Brian.Ford@FlightSafety.com
Charles K. Moore keithmo@exmsft.com
Christian Franke franke@computer.org
Christian Lestrade christian.lestrade@free.fr
Christopher Faylor me@cgf.cx
Christopher January chris@atomice.net
Conrad Scott conrad.scott@dsl.pipex.com
Corinna Vinschen corinna@vinschen.de
Craig Iain McGeachie slapdau@yahoo.com.au
David Korn dave.korn.cygwin@gmail.com
Davis Euresti davie@alum.mit.edu
Dennis Vshivkov walrus@amur.ru
Elfyn McBratney elfyn@ubertales.co.uk
Eric Blake eblake@redhat.com
Ernie Coskrey ernie.coskrey@steeleye.com
Gerd Spalink Gerd.Spalink@t-online.de
Hartmut Honisch hhonisch@users.sourceforge.net
Igor Pechtchanski pechtcha@cs.nyu.edu
Jacek Trzcinski jacek@certum.pl
Jeffrey Eric Altman jaltman@openafs.org
Jerry D. Hedden jerry@hedden.us
Joe
Loh joel@pivot3.com
Johan Rydberg johan@rydberg.com
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John Hood cgull@glup.org
Jon Turney jon.turney@dronecode.org.uk
Yoni Londner yonihola2@gmail.com
Joseph H. Buehler jbuehler@hekimian.com
Joshua Daniel Franklin joshuadfranklin@yahoo.com
Ken Brown kbrown@cornell.edu
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Lev Bishop lev.bishop@gmail.com
Mark Geisert mark@maxrnd.com
Max Kaehn slothman@electric-cloud.com

Micha Nelissen mdvpost@hotmail.com
Michael Haubenwallner michael.haubenwallner@ssi-schaefer.com
Nicholas S. Wourms nwourms@netscape.com
Pavel Yonkov Tsekov ptsekov@gmx.net
Peter Foley pefoley2@pefoley.com
Pierre A. Humblet phumblet@phumblet.no-ip.org
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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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1.652 zlib 1.2.11.dfsg-0ubuntu2.2

1.652.1 Available under license :

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/msdos/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/Makefile.gcc
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/old/Makefile.emx
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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.h
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/* zutil.c -- target dependent utility functions for the compression library
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* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.c
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/* gzwrite.c -- zlib functions for writing gzip files
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* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.c
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MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---
* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson

)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be

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3. This notice may
not be removed or altered from any source distribution.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/deflate.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zran.c
No license file was found, but licenses were detected in source scan.

/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/crc32.c
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.3
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/compress.c
No license file was found, but licenses were detected in source scan.

/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/infback.c
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.c
No license file was found, but licenses were detected in source scan.

/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zutil.h
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/example.c
No license file was found, but licenses were detected in source scan.

Not copyrighted -- provided to the public domain

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zlib_how.html
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.c
No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()
* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/adler32.c
No license file was found, but licenses were detected in source scan.

/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/uncompr.c
No license file was found, but licenses were detected in source scan.

/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

      Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

      Modifications of Unzip for Zip64
      Copyright (C) 2007-2008 Even Rouault

      Modifications for Zip64 support on both zip and unzip
      Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

      For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of
compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying

file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the
non-echoing password parts) were originally written in Europe. The
whole source package can be freely distributed, including from the USA.
(Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from
Roger Schlafly, described by Phil Katz in the file appnote.txt. This
file (appnote.txt) is distributed with the PKZIP program (even in the
version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod
BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

Copyright (C) 1998 - 2010 Gilles Vollant, Even Rouault, Mathias Svensson

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.c

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

/* gzjoin -- command to join gzip files into one gzip file

Copyright (C) 2004, 2005, 2012 Mark Adler, all rights reserved
version 1.2, 14 Aug 2012

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   misrepresented as being the original software.
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Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzjoin.c
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is
thread safe. The data format used by the zlib library is described by RFCs
(Request for Comments) 1950 to 1952 in the files
http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and
rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h
(volunteer to write man pages welcome, contact zlib@gzip.org). A usage example
of the library is given in the file test/example.c which also tests that
the library is working correctly. Another example is given in the file
test/minigzip.c. The compression library itself is composed of all source
files in the root directory.

To compile all files and run the test program, follow the instructions given at
the top of Makefile.in. In short "./configure; make test", and if that goes

well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use
make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant
<info@winimage.com> for the Windows DLL version. The zlib home page is
http://zlib.net/ . Before reporting a problem, please check this site to
verify that you have the latest version of zlib; otherwise get the latest
version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997
issue of Dr. Dobb's Journal; a copy of the article is available at
http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at
http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available
at CPAN (Comprehensive Perl Archive Network) sites, including
http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is
available in Python 1.5 and later versions, see
http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
-O, one libpng test fails. The test works in 32 bit mode (with the -n32
compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under
 OSF/1 2.1 it works
 when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
 necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
 other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and
zlib specifications were written by L. Peter Deutsch. Thanks to all the
people who reported problems and suggested various improvements in zlib; they
are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without

warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
 third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/README
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzguts.h
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

   Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

   The zlib sources can be compiled without change to produce a DLL. See the
   file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the
   precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

   See
      * http://marknelson.us/1997/01/01/zlib-engine/
      * win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

   Make sure that before the call of compress(), the length of the compressed

buffer is equal to the available size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

make distclean
./configure
make

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines
that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use

Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these

checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the
GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by
other authors and are provided as a convenience to the user within the zlib
distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us
so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/FAQ
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/trees.c
No license file was found, but licenses were detected in source scan.

/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.c
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inflate.h
No license file was found, but licenses were detected in source scan.

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). Two compiled examples are distributed in this package, example and minigzip. The example_d and minigzip_d flavors validate that the zlib1.dll file is working correctly.

Questions about zlib should be sent to <zlib@gzip.org>. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists
or not.

PLEASE read DLL_FAQ.txt, and the the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Manifest:

The package zlib-1.2.11-win32-x86.zip will contain the following files:

README-WIN32.txt This document
ChangeLog Changes since previous zlib packages
DLL_FAQ.txt Frequently asked questions about zlib1.dll
zlib.3.pdf Documentation of this library in Adobe Acrobat format

example.exe A statically-bound example (using zlib.lib, not the dll)
example.pdb Symbolic information for debugging example.exe

example_d.exe A zlib1.dll bound example (using zdll.lib)
example_d.pdb Symbolic information for debugging example_d.exe

minigzip.exe A statically-bound test program (using zlib.lib, not the dll)
minigzip.pdb Symbolic information for debugging minigzip.exe

minigzip_d.exe A zlib1.dll bound test program (using zdll.lib)
minigzip_d.pdb Symbolic information for debugging minigzip_d.exe

zlib.h

Install these files into the compilers' INCLUDE path to
zconf.h compile programs which use zlib.lib or zdll.lib

zdll.lib Install these files into the compilers' LIB path if linking
zdll.exp a compiled program to the zlib1.dll binary

zlib.lib Install these files into the compilers' LIB path to link zlib
zlib.pdb into compiled programs, without zlib1.dll runtime dependency
(zlib.pdb provides debugging info to the compile time linker)

zlib1.dll Install this binary shared library into the system PATH, or
the program's runtime directory (where the .exe resides)
zlib1.pdb Install in the same directory as zlib1.dll, in order to debug
an application crash using WinDbg or similar tools.

All .pdb files above are entirely optional, but are very useful to a developer attempting to diagnose program misbehavior or a crash. Many additional important files for developers
can be found in the zlib127.zip source package
available from http://zlib.net/ - review that package's README file for details.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/README-WIN32.txt
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzclose.c
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
Not copyrighted -- provided to the public domain
Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inftrees.c
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/inffast.h
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/gzread.c
No license file was found, but licenses were detected in source scan.

/* zip.h -- IO on .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications for Zip64 support
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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Changes

See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved
version 1.2, 11 Oct 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

        Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

        Modifications of Unzip for Zip64
        Copyright (C) 2007-2008 Even Rouault

        Modifications for Zip64 support on both zip and unzip
        Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

        For more info read MiniZip_info.txt

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      Changes

      See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/gzlog.h
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage
of the official DLL build of zlib, named ZLIB1.DLL. If you have
general questions about zlib, you should see the file "FAQ" found
in the zlib distribution, or at the following location:
http://www.gzip.org/zlib/zlib_faq.html

1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.
(Please remark the character '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib
web site at:
http://www.zlib.net/

Applications that link to ZLIB1.DLL can rely on the following
specification:

* The exported symbols are exclusively defined in the source
files "zlib.h" and "zlib.def", found in an official zlib
source distribution.
* The symbols are exported by name, not by ordinal.
* The exported names are undecorated.
* The calling convention of functions is "C" (CDECL).
* The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled
test programs that must run with a valid build of ZLIB1.DLL.
It is recommended to download the prebuilt DLL from the zlib
web site, instead of building it yourself, to avoid potential
incompatibilities that could be introduced by your compiler
and build settings. If you do build the DLL yourself, please
make sure that it complies with all the above requirements,
and it runs with the precompiled test programs, bundled with
the original ZLIB1.DLL distribution.

If, for any reason, you need to build an incompatible DLL,
please use a different file name.

2. Why did you change the name of the DLL to ZLIB1.DLL?
What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.4 or earlier, required
compilation settings that were incompatible to those
used by
a static build. The DLL settings were supposed to be enabled
by defining the macro ZLIB_DLL, before including "zlib.h".
Incorrect handling of this macro was silently accepted at
build time, resulting in two major problems:

* ZLIB_DLL was missing from the old makefile. When building
the DLL, not all people added it to the build options. In
consequence, incompatible incarnations of ZLIB.DLL started
to circulate around the net.

* When switching from using the static library to using the
DLL, applications had to define the ZLIB_DLL macro and
to recompile all the sources that contained calls to zlib
functions. Failure to do so resulted in creating binaries
that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make
a binary-incompatible change in the DLL interface, in order to
remove the dependency on the ZLIB_DLL macro, and to release
the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major
zlib version number. We hope that we will not have to break
the binary compatibility again, at least not as long as the
zlib-1.x series will last.

There is still a ZLIB_DLL macro, that can trigger a more
efficient build and use of the DLL, but compatibility no
longer dependents on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace
an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention
keywords to the macros ZEXPORT and ZEXPORTVA. In practice,
it depends on what you mean by "an old ZLIB.DLL", because the
old DLL exists in several mutually-incompatible versions.
You have to find out first what kind of calling convention is
being used in your particular ZLIB.DLL build, and to use the
same one in the new build. If you don't know what this is all

about, you might be better off if you would just leave the old DLL intact.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to
maintain ordinals in
the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a "__declspec(dllexport)" attribute in the source files. You can do this in zlib by predefining the ZLIB_DLL macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability,
we use CDECL to refer to the convention
triggered by the "__cdecl" keyword, STDCALL to refer to
the convention triggered by "__stdcall", and FASTCALL to
refer to the convention triggered by "__fastcall".)

- Most of the native Windows API functions (without varargs) use
indeed the WINAPI convention (which translates to STDCALL in
Win32), but the standard C functions use CDECL. If a user
application is intrinsically tied to the Windows API (e.g.
it calls native Windows API functions such as CreateFile()),
sometimes it makes sense to decorate its own functions with
WINAPI. But if ANSI C or POSIX portability is a goal (e.g.
it calls standard C functions such as fopen()), it is not a
sound decision to request the inclusion of <windows.h>, or to
use non-ANSI constructs, for the sole purpose to make the user
functions STDCALL-able.

The functionality offered by zlib is not in the category of
"Windows functionality", but
is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly
faster than CDECL, and it works with variable-argument
functions, just like CDECL. It is unfortunate that, in spite
of using STDCALL in the Windows API, it is not the default
convention used by the C compilers that run under Windows.
The roots of the problem reside deep inside the unsafety of
the K&R-style function prototypes, where the argument types
are not specified; but that is another story for another day.

The remaining fact is that CDECL is the default convention.
Even if an explicit convention is hard-coded into the function
prototypes inside C headers, problems may appear. The
necessity to expose the convention in users' callbacks is one
of these problems.

The calling convention issues are also important when using
zlib in other programming languages. Some of them, like Ada
(GNAT) and Fortran (GNU G77), have C bindings
implemented
initially on Unix, and relying on the C calling convention.
On the other hand, the pre- .NET versions of Microsoft Visual
Basic require STDCALL, while Borland Delphi prefers, although
it does not require, FASTCALL.

In fairness to all possible uses of zlib outside the C
programming language, we choose the default "C" convention.

Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. I need to use zlib in my Microsoft .NET project. What can I do?

- Henrik Ravn has contributed a .NET wrapper around zlib. Look into contrib/dotzlib/, inside the zlib distribution.

9. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc.
Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

10. Why are you saying that ZLIB1.DLL and my application should be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my

application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via <windows.h> and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call
standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs' internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs, such as those provided by Borland, raises similar problems.

11. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack
installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. Windows 95 is scarcely found nowadays, Microsoft ended its support a long time ago, and many recent applications from various vendors, including Microsoft, do not

even run on it. Furthermore, no serious user should run
Windows 95 without a proper update installed.

12. Why are you not linking ZLIB1.DLL to
<<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or
LIBCMT.LIB) is not a good option. People are using the DLL
mainly to save disk space. If you are linking
your program
to a static C library, you may as well consider linking zlib
in statically, too.

* Linking ZLIB1.DLL to CRTDLL.DLL looks appealing, because
CRTDLL.DLL is present on every Win32 installation.
Unfortunately, it has a series of problems: it does not
work properly with Microsoft's C++ libraries, it does not
provide support for 64-bit file offsets, (and so on...),
and Microsoft discontinued its support a long time ago.

* Linking ZLIB1.DLL to MSVCR70.DLL or MSVCR71.DLL, supplied
with the Microsoft .NET platform, and Visual C++ 7.0/7.1,
raises problems related to the status of ZLIB1.DLL as a
system component. According to the Microsoft Knowledge Base
article KB326922 "INFO: Redistribution of the Shared C
Runtime Component in Visual C++ .NET", MSVCR70.DLL and
MSVCR71.DLL are not supposed to function as system DLLs,
because they may clash with MSVCRT.DLL. Instead, the
application's
installer is supposed to put these DLLs
(if needed) in the application's private directory.
If ZLIB1.DLL depends on a non-system runtime, it cannot
function as a redistributable system component.

* Linking ZLIB1.DLL to non-Microsoft runtimes, such as
Borland's, or Cygwin's, raises problems related to the
reliable presence of these runtimes on Win32 systems.
It's easier to let the DLL build of zlib up to the people
who distribute these runtimes, and who may proceed as
explained in the answer to Question 14.

13. If ZLIB1.DLL cannot be linked to MSVCR70.DLL or MSVCR71.DLL,
how can I build/use ZLIB1.DLL in Microsoft Visual C++ 7.0
(Visual Studio .NET) or newer?

- Due to the problems explained in the Microsoft Knowledge Base
article KB326922 (see the previous answer), the C runtime that
comes with the VC7 environment is no longer considered a
system component. That is, it should not be assumed that this
runtime
exists, or may be installed in a system directory.
Since ZLIB1.DLL is supposed to be a system component, it may
not depend on a non-system component.

In order to link ZLIB1.DLL and your application to MSVCRT.DLL
in VC7, you need the library of Visual C++ 6.0 or older. If
you don't have this library at hand, it's probably best not to
use ZLIB1.DLL.

We are hoping that, in the future, Microsoft will provide a
way to build applications linked to a proper system runtime,
from the Visual C++ environment. Until then, you have a
couple of alternatives, such as linking zlib in statically.
If your application requires dynamic linking, you may proceed
as explained in the answer to Question 14.

14. I need to link my own DLL build to a CRT different than
MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link
it the way you want. You should, however, clearly state that
your build is unofficial.
You should give it a different file
name, and/or install it in a private directory that can be
accessed by your application only, and is not visible to the
others (i.e. it's neither in the PATH, nor in the SYSTEM or
SYSTEM32 directories). Otherwise, your build may clash with
applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime
CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

15. May I include additional pieces of code that I find useful,
link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code
that does not originate from the official zlib source code.
But you can make your own private DLL build, under a different
file name, as suggested in the previous answer.

For example, zlib is a part of the VCL library, distributed
with Borland Delphi and C++ Builder. The DLL build of VCL
is a redistributable file, named
VCLxx.DLL.

16. May I remove some functionality out of ZLIB1.DLL, by enabling
macros like NO_GZCOMPRESS or NO_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete
zlib functionality, as implemented in the official zlib source
code. But you can make your own private DLL build, under a
different file name, as suggested in the previous answer.

17. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib
web site. If you need something peculiar from this DLL, you
can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run
it with the test programs found in the DLL distribution.
Running these test programs is not a guarantee of compliance,
but a failure can imply a detected problem.

**

This document is written and maintained by
Cosmin Truta <cosmint@cs.ubbcluj.ro>

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/win32/DLL_FAQ.txt
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.cmakein
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h.in
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/zconf.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/examples/zpipe.c
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/*
 Additional tools for Minizip
 Code: Xavier Roche '2004
 License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.h
* /zlib-1-2-11-dfsg-orig-2-tar-xz/zlib-1.2.11/contrib/minizip/mztools.c

1.653 gzip 1.10-0ubuntu4.1

1.653.1 Available under license :

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1.654 curl 7.58.0-2ubuntu3.20

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==========

libcurl can be built to use a fair amount of various third party libraries,
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using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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##
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OpenLDAP as a shared library only, I have not heard of anyone that ships
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libssh2

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1.655 selinux 2.7-2build2

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This is the Debian packe for libselinux, and it is built from sources obtained from:
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This package was debianized by Colin Walters <walters@debian.org> on
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1.656 libx11 1.6.4-3ubuntu0.1

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1.658 systemd 245.4-4ubuntu3.16

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1.659 pcre 8.39-12ubuntu0.1

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1.660 grep 3.4-1

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1.662 libsigsegv 2.12-1

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```
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/* List of signals that are sent when an invalid virtual memory address
  is accessed, or when the stack overflows.  */
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) \
 { int var; var = SIGSEGV; { body } var =
 SIGBUS; { body } }
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#define SIGSEGV_FAULT_HANDLER_ARGLIST int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS addr

1.663 iproute 4.15.0-2ubuntu1.3

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1.664 curl 7.68.0-1ubuntu2.12

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License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem
 was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
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libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.665 gnutls 3.5.18-1ubuntu1

1.665.1 Available under license :

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=========

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Upstream Authors:

Simon Josefsson *simon [at] josefsson.org*
Current maintainer; draft TLS 1.2 support.

Nikos Mavrogiannopoulos *nmav [at] gnutls.org*
Original author and maintainer of GnuTLS.

Fabio Fiorina *Fabio.Fiorina [at] alcatel.it*
ASN.1 structures parser library (libtasn1).

Timo Schulz *twoaday [at] freakmail.de*
OpenPGP support (OpenCDK library).

Andrew McDonald *andrew [at] mcdonald.org.uk*
OpenSSL compatible interface.

Ludovic Courtes *ludo [at] gnu.org*
Guile bindings, OpenPGP bug fixes.

Mario Lenz
m [at] riolenz.de
Fixes to OpenCDK.

Howard Chu *hyc [at] symas.com*
APIs to extract X.500 DN's from Certificates.

Ivo Timmermans *ivo [at] o2w.nl*
Man pages, OpenCDK, fixes.

Stefan Walter *stef [at] memberwebs.com*
PKCS8 fix, PKCS #11 backend move to p11-kit.

Yoshisato YANAGISAWA *yanagisawa [at] csg.is.titech.ac.jp*
Camellia support.

Emile Van Bergen *emile [at] e-advies.nl*

TLS/IA fixes.

Joe Orton *jorton [at] redhat.com*
Certificate name import/export, build fixes, test vectors.

Daniel Kahn Gillmor *dkg-debian.org [at] fifthhorseman.net*
OpenPGP discussion and improvements.

David Marn Carreo *davefx [at] gmail.com*
Added gnutls_x509_crq_get_key_id.

Daiki Ueno *ueno [at] unixuser.org*
Added TLS Session Ticket (RFC 5077) support,
finished client-side TLS 1.2 support.

Brad Hards *bradh [at] frogmouth.net*
Add X.509 Issuer Alternative Name functions.

Boyan Kasarov *bkasarov [at] gmail.com*
C++ fixes.

Steve Dispensa *dispensa [at] phonefactor.com*
Initial TLS safe renegotiation patch.

Jonathan Bastien-Filiatrault *joe [at] x2a.org*
Fix TLS-version checks.
Redesign and implementation of the buffering layer.
Initial DTLS implementation.

Ruslan Ijbulatov (LRN) *lrn1986 [at] gmail.com*
Win32 patches.

Andy Polyakov *appro [at] openssl.org*
AES-NI and Padlock assembler code (at lib/accelerated/intel/asm/)

David Woodhouse *dwmw2 [at] infradead.org*
DTLS 0.9 implementation.

Olga Smolenchuk *olyasib12 [at] gmail.com*
DTLS/TLS heartbeat implementation.

Ilya Tumaykin *itumaykin [at] gmail.com*
Elliptic curve support improvements (wmNAF implementation and others).

Martin Storjo *martin [at] martin.st*
DTLS-SRTP
support.

Alessandro Ghedini *alessandro [at] ghedini.me*
TLS Fallback SCSV support (RFC7507).

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1.673 libsemanage-common 2.7-2build2

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.674 free-type 2.8.1-2ubuntu2

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builds/unix/pkg.m4
#
docs/FTL.TXT
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include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h

src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
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src/tools/apinames.c
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

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

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

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

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its purpose remains meaningful.

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

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If distribution of object code is made by offering access to copy
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Otherwise, if the work is a derivative of the Library, you may
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whether or not they are linked directly with the Library itself.

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1.680 curl 7.58.0-2ubuntu3.16

1.680.1 Available under license :

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License Mixing
==========

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
licensed code is not allowed to be linked with code licensed under the
[Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the
announcement clause). You may still build your own copies that use them all,
but distributing them as binaries would be to violate the GPL license - unless
you accompany your license with an
[exception](https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs). This
particular problem
was addressed when the [Modified BSD
license](https://opensource.org/licenses/BSD-3-Clause) was created, which does
not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an
announcement clause that makes it "incompatible" with GPL. You are not
allowed to ship binaries that link with OpenSSL that includes GPL code
(unless that specific GPL code includes an exception for OpenSSL - a habit
that is growing more and more common). If OpenSSL's licensing is a problem

for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the
[LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem
for you, consider using another TLS library. Also note that GnuTLS itself
depends on and uses other libs (libgcrypt and libgpg-error) and they too
 are
LGPL- or GPL-licensed.

WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary
license. If this is a problem for you, consider using another TLS library.

NSS

(May be used for SSL/TLS support) Is covered by the
[MPL](https://www.mozilla.org/MPL/) license, the GPL license and the LGPL
license. You may choose to license the code under MPL terms, GPL terms, or
LGPL terms. These licenses grant you different permissions and impose
different obligations. You should select the license that best meets your
needs.

axTLS

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

mbedTLS

(May be used for SSL/TLS support) Uses the [Apache 2.0
license](https://opensource.org/licenses/Apache-2.0) or the GPL license.
You may choose to license the code under Apache 2.0 terms or GPL terms.
These licenses grant you different permissions and impose different
obligations. You should select the license that best meets your needs.

##
 BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same
license as that.

libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same
license as that.

c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very
liberal and imposes no restrictions on any other library or part you may link
with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license
that shouldn't collide with any other library.

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any
other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the
announcement clause.

GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not
distribute binary curl packages that uses this if you build curl to also link
and use any Original BSD licensed libraries!

libidn

(Used for IDNA support) Uses the GNU Lesser General
Public License [3]. LGPL
is a variation of GPL with slightly less aggressive "copyleft". This license
requires more requirements to be met when distributing binaries, see the
license for details. Also note that if you distribute a binary that includes
this library, you must also include the full LGPL license text. Please
properly point out what parts of the distributed package that the license
addresses.

OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses
OpenLDAP as a shared library only, I have not heard of anyone that ships
OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.681 component-base 0.0.0

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