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In your requests please include the following reference number 78EE117C99-163404887

Contents

1.1 4tH 3.62.4

1.1.1 Available under license

1.2 amqp 2.1.4

1.2.1 Available under license

1.3 ansi-regex 2.1.1

1.3.1 Available under license

1.4 ansi-styles 2.2.1

1.4.1 Available under license

1.5 anymatch 1.3.2

1.5.1 Available under license

1.6 appdirs 1.4.3

1.6.1 Available under license

1.7 arr-diff 2.0.0

1.7.1 Available under license

1.8 arr-flatten 1.1.0

1.8.1 Available under license

1.9 array-unique 0.2.1

1.9.1 Available under license

1.10 asgi-redis 1.3.0

1.11 asgiref 1.1.2

1.12 asn1crypto 0.22.0

1.12.1 Available under license

1.13 asn1js 2.0.19

1.13.1 Available under license

1.14 async-each 1.0.1

1.15 attrs 16.3.0

- 1.15.1 Available under license
- 1.16 autobahn 0.18.1**
 - 1.16.1 Available under license
- 1.17 Automat 0.5.0**
 - 1.17.1 Available under license
- 1.18 babel-cli 6.26.0**
- 1.19 babel-code-frame 6.26.0**
- 1.20 babel-core 6.26.0**
- 1.21 babel-generator 6.26.1**
- 1.22 babel-helper-call-delegate 6.24.1**
- 1.23 babel-helper-define-map 6.26.0**
- 1.24 babel-helper-function-name 6.24.1**
- 1.25 babel-helper-get-function-arity 6.24.1**
- 1.26 babel-helper-hoist-variables 6.24.1**
- 1.27 babel-helper-optimise-call-expression 6.24.1**
- 1.28 babel-helper-regex 6.26.0**
- 1.29 babel-helper-replace-supers 6.24.1**
- 1.30 babel-helpers 6.24.1**
- 1.31 babel-messages 6.23.0**
- 1.32 babel-plugin-check-es2015-constants 6.22.0**
- 1.33 babel-plugin-transform-es2015-arrow-functions 6.22.0**
- 1.34 babel-plugin-transform-es2015-block-scoped-functions 6.22.0**
- 1.35 babel-plugin-transform-es2015-block-scoping 6.26.0**
- 1.36 babel-plugin-transform-es2015-classes 6.24.1**
- 1.37 babel-plugin-transform-es2015-computed-properties 6.24.1**
- 1.38 babel-plugin-transform-es2015-destructuring 6.23.0**
- 1.39 babel-plugin-transform-es2015-duplicate-keys 6.24.1**
- 1.40 babel-plugin-transform-es2015-for-of 6.23.0**
- 1.41 babel-plugin-transform-es2015-function-name 6.24.1**
- 1.42 babel-plugin-transform-es2015-literals 6.22.0**
- 1.43 babel-plugin-transform-es2015-modules-amd 6.24.1**
- 1.44 babel-plugin-transform-es2015-modules-commonjs 6.26.0**
- 1.45 babel-plugin-transform-es2015-modules-systemjs 6.24.1**
- 1.46 babel-plugin-transform-es2015-modules-umd 6.24.1**
- 1.47 babel-plugin-transform-es2015-object-super 6.24.1**
- 1.48 babel-plugin-transform-es2015-parameters 6.24.1**
- 1.49 babel-plugin-transform-es2015-shorthand-properties 6.24.1**
- 1.50 babel-plugin-transform-es2015-spread 6.22.0**
- 1.51 babel-plugin-transform-es2015-sticky-regex 6.24.1**

- 1.52 babel-plugin-transform-es2015-template-literals 6.22.0**
- 1.53 babel-plugin-transform-es2015-typeof-symbol 6.23.0**
- 1.54 babel-plugin-transform-es2015-unicode-regex 6.24.1**
- 1.55 babel-plugin-transform-regenerator 6.26.0**
- 1.56 babel-plugin-transform-strict-mode 6.24.1**
- 1.57 babel-polyfill 6.26.0**
- 1.58 babel-preset-es2015 6.24.1**
- 1.59 babel-register 6.26.0**
- 1.60 babel-runtime 6.26.0**
- 1.61 babel-template 6.26.0**
- 1.62 babel-traverse 6.26.0**
- 1.63 babel-types 6.26.0**
- 1.64 babylon 6.18.0**
 - 1.64.1 Available under license
- 1.65 backbone 1.3.3**
 - 1.65.1 Available under license
- 1.66 backbone 1.2.3**
 - 1.66.1 Available under license
- 1.67 backbone-computedfields 0.0.12**
 - 1.67.1 Available under license
- 1.68 backbone.marionette 3.4.4**
 - 1.68.1 Available under license
- 1.69 backbone.paginator 2.0.6**
 - 1.69.1 Available under license
- 1.70 backbone.radio 2.0.0**
 - 1.70.1 Available under license
- 1.71 backgrid 0.3.8**
 - 1.71.1 Available under license
- 1.72 backgrid-filter 0.3.7**
 - 1.72.1 Available under license
- 1.73 backgrid-paginator 0.3.9**
 - 1.73.1 Available under license
- 1.74 backports.shutil-get-terminal-size 1.0.0**
 - 1.74.1 Available under license
- 1.75 backports.ssl-match-hostname 3.5.0.1**
 - 1.75.1 Available under license
- 1.76 balanced-match 1.0.0**
 - 1.76.1 Available under license
- 1.77 bash 4.4.12**

1.77.1 Available under license
1.78 billiard 3.5.0.2
1.78.1 Available under license
1.79 binary-extensions 1.11.0
1.79.1 Available under license
1.80 bootstrap-tagsinput 0.7.1
1.80.1 Available under license
1.81 brace-expansion 1.1.11
1.81.1 Available under license
1.82 braces 1.8.5
1.82.1 Available under license
1.83 bridge-utils 1.6
1.83.1 Available under license
1.84 busybox 1.26.2
1.84.1 Available under license
1.85 bzip2 1.0.6
1.85.1 Available under license
1.86 cached-property 1.4.3
1.86.1 Available under license
1.87 celery 4.0.2
1.87.1 Available under license
1.88 chalk 1.1.3
1.88.1 Available under license
1.89 channels 1.1.8
1.90 chokidar 1.7.0
1.91 colorama 0.3.7
1.91.1 Available under license
1.92 commander 2.15.1
1.92.1 Available under license
1.93 concat-map 0.0.1
1.93.1 Available under license
1.94 constantly 15.1.0
1.94.1 Available under license
1.95 contextlib2 0.5.4
1.95.1 Available under license
1.96 convert-source-map 1.5.1
1.96.1 Available under license
1.97 cookies 2.2.1
1.97.1 Available under license

1.98 core-js 2.5.5

1.98.1 Available under license

1.99 core-util-is 1.0.2

1.99.1 Available under license

1.100 coreutils 8.26

1.100.1 Available under license

1.101 coverage 4.3.4

1.101.1 Available under license

1.102 cryptography 1.8.2

1.102.1 Available under license

1.103 cryptography 1.7.1

1.103.1 Available under license

1.104 cryptography-1.8.1 1.8.1

1.104.1 Available under license

1.105 cyrus-sasl 2.1.26

1.105.1 Notifications

1.105.2 Available under license

1.106 daphne 1.4.2

1.107 dcron 4.5

1.108 debug 2.6.9

1.108.1 Available under license

1.109 decorator 4.0.11

1.109.1 Available under license

1.110 defusedxml 0.5.0

1.110.1 Available under license

1.111 detect-indent 4.0.0

1.111.1 Available under license

1.112 dhcp 4.3.5

1.112.1 Available under license

1.113 diff-match-patch 20121119

1.113.1 Available under license

1.114 Django 1.10.7

1.114.1 Available under license

1.115 django-auth-ldap 1.2.10

1.115.1 Available under license

1.116 django-bulk-update 1.1.10

1.116.1 Available under license

1.117 django-cors-headers 2.0.2

1.117.1 Available under license

- 1.118 django-import-export 0.5.1**
 - 1.118.1 Available under license
- 1.119 django-redis 4.6.0**
 - 1.119.1 Available under license
- 1.120 djangorestframework 3.5.4**
 - 1.120.1 Available under license
- 1.121 docker 1.13.0**
 - 1.121.1 Available under license
- 1.122 docker-compose 1.10.0**
 - 1.122.1 Available under license
- 1.123 docker-pycreds 0.2.1**
 - 1.123.1 Available under license
- 1.124 docopt 0.6.2**
 - 1.124.1 Available under license
- 1.125 dpkg 1.18.10**
 - 1.125.1 Available under license
- 1.126 enum34 1.1.6**
 - 1.126.1 Available under license
- 1.127 escape-string-regexp 1.0.5**
 - 1.127.1 Available under license
- 1.128 esutils 2.0.2**
 - 1.128.1 Available under license
- 1.129 expand-brackets 0.1.5**
 - 1.129.1 Available under license
- 1.130 expand-range 1.8.2**
 - 1.130.1 Available under license
- 1.131 expat 2.2.0**
 - 1.131.1 Available under license
- 1.132 extglob 0.3.2**
 - 1.132.1 Available under license
- 1.133 fastclick 1.0.6**
 - 1.133.1 Available under license
- 1.134 file-saver 1.3.3**
 - 1.134.1 Available under license
- 1.135 filename-regexp 2.0.1**
 - 1.135.1 Available under license
- 1.136 fill-range 2.2.3**
 - 1.136.1 Available under license
- 1.137 for-in 1.0.2**

- 1.137.1 Available under license
- 1.138 for-own 0.1.5**
- 1.138.1 Available under license
- 1.139 fs-readdir-recursive 1.1.0**
- 1.139.1 Available under license
- 1.140 fs.realpath 1.0.0**
- 1.140.1 Available under license
- 1.141 funcsigns 1.0.2**
- 1.141.1 Available under license
- 1.142 functools32 3.2.3.post2 :py2.7**
- 1.142.1 Available under license
- 1.143 glib 2.50.2**
- 1.143.1 Available under license
- 1.144 glibc 2.23**
- 1.144.1 Available under license
- 1.145 glob 7.1.2**
- 1.145.1 Available under license
- 1.146 glob-base 0.3.0**
- 1.146.1 Available under license
- 1.147 glob-parent 2.0.0**
- 1.147.1 Available under license
- 1.148 globals 9.18.0**
- 1.148.1 Available under license
- 1.149 gmp 6.1.2**
- 1.149.1 Available under license
- 1.150 gnutls 3.5.10**
- 1.150.1 Available under license
- 1.151 gojsonpointer e0fe6f68307607d540ed8eac07a342c33fa1b54a**
- 1.151.1 Available under license
- 1.152 gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45**
- 1.152.1 Available under license
- 1.153 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7**
- 1.153.1 Available under license
- 1.154 graceful-fs 4.1.11**
- 1.154.1 Available under license
- 1.155 gsap 1.20.3**
- 1.156 has-ansi 2.0.0**
- 1.156.1 Available under license
- 1.157 home-or-tmp 2.0.0**

1.157.1 Available under license
1.158 i18next 7.2.3
1.158.1 Available under license
1.159 idna 2.5
1.160 idna 2.1
1.160.1 Available under license
1.161 ifupdown 0.8.16
1.161.1 Available under license
1.162 incremental 16.10.1
1.162.1 Available under license
1.163 inflight 1.0.6
1.163.1 Available under license
1.164 inherits 2.0.3
1.164.1 Available under license
1.165 invariant 2.2.4
1.165.1 Available under license
1.166 ipaddr 2.1.11
1.166.1 Available under license
1.167 ipaddress 1.0.18
1.167.1 Available under license
1.168 ipaddress 1.0.17
1.168.1 Available under license
1.169 iptables 1.6.1
1.169.1 Available under license
1.170 ipython 5.1.0
1.170.1 Available under license
1.171 ipython-genutils 0.2.0
1.171.1 Available under license
1.172 is-binary-path 1.0.1
1.172.1 Available under license
1.173 is-buffer 1.1.6
1.173.1 Available under license
1.174 is-dotfile 1.0.3
1.174.1 Available under license
1.175 is-equal-shallow 0.1.3
1.175.1 Available under license
1.176 is-extendable 0.1.1
1.176.1 Available under license
1.177 is-extglob 1.0.0

1.177.1 Available under license
1.178 is-finite 1.0.2
1.178.1 Available under license
1.179 is-glob 2.0.1
1.179.1 Available under license
1.180 is-number 3.0.0
1.180.1 Available under license
1.181 is-number 2.1.0
1.181.1 Available under license
1.182 is-posix-bracket 0.1.1
1.182.1 Available under license
1.183 is-primitive 2.0.0
1.183.1 Available under license
1.184 isarray 1.0.0
1.184.1 Available under license
1.185 isobject 2.1.0
1.185.1 Available under license
1.186 isodate 0.6.0
1.187 jquery 3.1.1
1.187.1 Available under license
1.188 js-cookie 2.1.4
1.188.1 Available under license
1.189 js-tokens 3.0.2
1.189.1 Available under license
1.190 jsesc 1.3.0
1.190.1 Available under license
1.191 jsesc 0.5.0
1.191.1 Available under license
1.192 json5 0.5.1
1.192.1 Available under license
1.193 jsonschema 2.6.0
1.194 jsonschema 2.5.1
1.194.1 Available under license
1.195 kind-of 3.2.2
1.195.1 Available under license
1.196 kind-of 4.0.0
1.196.1 Available under license
1.197 kombu 4.0.2
1.197.1 Available under license

1.198 libdnet 1.11

1.198.1 Available under license

1.199 libestr 0.1.10

1.199.1 Available under license

1.200 libevent 2.1.8-stable

1.200.1 Available under license

1.201 libfastjson 0.99.4

1.201.1 Available under license

1.202 libffi 3.2.1 :Nov 12 2014 Anthony Green

1.202.1 Available under license

1.203 liblogging 1.0.5

1.203.1 Available under license

1.204 libpopt0 1.16

1.204.1 Available under license

1.205 libtasn1 4.12

1.205.1 Available under license

1.206 libunistring 0.9.7

1.206.1 Available under license

1.207 libxml2 2.9.4

1.207.1 Available under license

1.208 libxslt 1.1.29

1.208.1 Available under license

1.209 libyaml 0.1.6

1.209.1 Available under license

1.210 Linux kernel 4.17.11

1.210.1 Available under license

1.211 linux-headers 4.17.11

1.211.1 Available under license

1.212 lodash 4.17.4

1.212.1 Available under license

1.213 logrotate 3.11.0

1.213.1 Available under license

1.214 loose-envify 1.3.1

1.214.1 Available under license

1.215 lunr 0.7.2

1.215.1 Available under license

1.216 lxml 3.7.3

1.216.1 Available under license

1.217 micromatch 2.3.11

- 1.217.1 Available under license
- 1.218 minimatch 3.0.4**
 - 1.218.1 Available under license
- 1.219 minimist 0.0.8**
 - 1.219.1 Available under license
- 1.220 mkdirp 0.5.1**
 - 1.220.1 Available under license
- 1.221 mock 2.0.0**
 - 1.221.1 Available under license
- 1.222 moment 2.19.1**
 - 1.222.1 Available under license
- 1.223 moment-duration-format 1.3.0**
 - 1.223.1 Available under license
- 1.224 mpdecimal 2.4.1 :1**
 - 1.224.1 Available under license
- 1.225 ms 2.0.0**
 - 1.225.1 Available under license
- 1.226 msgpack-python 0.4.8**
 - 1.226.1 Available under license
- 1.227 ncurses 5.9**
 - 1.227.1 Available under license
- 1.228 ndisc6 1.0.2**
 - 1.228.1 Available under license
- 1.229 net-tools 3f170bff115303e92319791cbd56371e33dcbf6d**
 - 1.229.1 Available under license
- 1.230 netcat 0.7.1**
 - 1.230.1 Available under license
- 1.231 netlink dbc72376c86301bb873c332830857e73c9f701e3**
 - 1.231.1 Available under license
- 1.232 netns 2c9454e4fc6e2edc1a1c84e64ed3d6e662fb6991**
 - 1.232.1 Available under license
- 1.233 nettle 3.3**
 - 1.233.1 Available under license
- 1.234 nginx 1.15.0**
 - 1.234.1 Available under license
- 1.235 normalize-path 2.1.1**
 - 1.235.1 Available under license
- 1.236 ntlm-auth 1.2.0**
 - 1.236.1 Available under license

1.237 ntp 4.2.8p11

1.237.1 Available under license

1.238 number-is-nan 1.0.1

1.238.1 Available under license

1.239 object-assign 4.1.1

1.239.1 Available under license

1.240 object.omit 2.0.1

1.240.1 Available under license

1.241 once 1.4.0

1.241.1 Available under license

1.242 open-vm-tools 5a9033ddfa95786d867e4d02bbb9a29bac8fb64f

1.242.1 Available under license

1.243 openldap 2.4.44

1.243.1 Available under license

1.244 OpenSSL 1.0.2n

1.244.1 Notifications

1.244.2 Available under license

1.245 OpenSSL 1.0.2o

1.245.1 Notifications

1.245.2 Available under license

1.246 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

1.246.1 Notifications

1.246.2 Available under license

1.247 os-homedir 1.0.2

1.247.1 Available under license

1.248 os-tmpdir 1.0.2

1.248.1 Available under license

1.249 output-file-sync 1.1.2

1.249.1 Available under license

1.250 packaging 16.8

1.250.1 Available under license

1.251 parse-glob 3.0.4

1.251.1 Available under license

1.252 path-is-absolute 1.0.1

1.252.1 Available under license

1.253 pathlib2 2.2.1

1.253.1 Available under license

1.254 pbr 2.0.0

1.254.1 Available under license

1.255 PCRE 8.40

1.255.1 Available under license

1.256 pexpect 4.2.1

1.256.1 Available under license

1.257 pickleshare 0.7.4

1.257.1 Available under license

1.258 pip 9.0.1

1.258.1 Available under license

1.259 pkijs 2.1.10

1.259.1 Available under license

1.260 postgresql 9.6.3

1.260.1 Available under license

1.261 preserve 0.2.0

1.261.1 Available under license

1.262 private 0.1.8

1.262.1 Available under license

1.263 process-nextick-args 2.0.0

1.263.1 Available under license

1.264 procps-ng 3.3.12

1.264.1 Available under license

1.265 prompt-toolkit 1.0.14

1.265.1 Available under license

1.266 psycpg2 2.5.5

1.266.1 Available under license

1.267 ptyprocess 0.5.1

1.267.1 Available under license

1.268 pvutils 1.0.12

1.269 pyasn1 0.1.9

1.269.1 Available under license

1.270 pycparser 2.17

1.270.1 Available under license

1.271 Pygments 2.2.0

1.271.1 Available under license

1.272 pyOpenSSL 16.2.0

1.272.1 Available under license

1.273 pyparsing 2.2.0

1.273.1 Available under license

1.274 pyparsing 2.1.9

1.274.1 Available under license

- 1.275 python 3.5.2**
 - 1.275.1 Available under license
- 1.276 python 2.7.13**
 - 1.276.1 Available under license
- 1.277 python-appdirs 1.4.3**
 - 1.277.1 Available under license
- 1.278 python-backports-ssl_match_hostname 3.5.0.1**
 - 1.278.1 Available under license
- 1.279 python-blessed 1.14.1**
 - 1.279.1 Available under license
- 1.280 python-cached-property 1.3.0**
 - 1.280.1 Available under license
- 1.281 python-cffi 1.8.3**
 - 1.281.1 Available under license
- 1.282 python-cffi 1.10.0**
 - 1.282.1 Available under license
- 1.283 python-docker 2.0.2**
 - 1.283.1 Available under license
- 1.284 python-dockerpty 0.4.1**
 - 1.284.1 Available under license
- 1.285 python-enum34 1.0.4**
 - 1.285.1 Available under license
- 1.286 python-ldap 2.4.32**
 - 1.286.1 Available under license
- 1.287 python-requests 2.11.1**
 - 1.287.1 Available under license
- 1.288 pytz 2017.2**
 - 1.288.1 Available under license
- 1.289 PyYAML 3.12**
 - 1.289.1 Available under license
- 1.290 randomatic 1.1.7**
 - 1.290.1 Available under license
- 1.291 readable-stream 2.3.6**
 - 1.291.1 Available under license
- 1.292 readdirp 2.1.0**
 - 1.292.1 Available under license
- 1.293 readline 7.0**
 - 1.293.1 Available under license
- 1.294 Redis 3.2.8**

- 1.294.1 Available under license
- 1.295 redis 2.10.5**
- 1.295.1 Available under license
- 1.296 regenerate 1.3.3**
- 1.296.1 Available under license
- 1.297 regenerator-runtime 0.11.1**
- 1.298 regenerator-runtime 0.10.5**
- 1.298.1 Available under license
- 1.299 regenerator-transform 0.10.1**
- 1.300 regex-cache 0.4.4**
- 1.300.1 Available under license
- 1.301 regexpu-core 2.0.0**
- 1.301.1 Available under license
- 1.302 regjsgen 0.2.0**
- 1.302.1 Available under license
- 1.303 regjsparser 0.1.5**
- 1.303.1 Available under license
- 1.304 remove-trailing-separator 1.1.0**
- 1.304.1 Available under license
- 1.305 repeat-element 1.1.2**
- 1.305.1 Available under license
- 1.306 repeat-string 1.6.1**
- 1.306.1 Available under license
- 1.307 repeating 2.0.1**
- 1.307.1 Available under license
- 1.308 requests 2.12.5**
- 1.308.1 Available under license
- 1.309 requests-ntlm 1.1.0**
- 1.309.1 Available under license
- 1.310 requests-toolbelt 0.8.0**
- 1.310.1 Available under license
- 1.311 responses 0.5.1**
- 1.311.1 Available under license
- 1.312 rfc3987 1.3.7**
- 1.312.1 Available under license
- 1.313 rsyslog 8.22.0**
- 1.313.1 Available under license
- 1.314 safe-buffer 5.1.1**
- 1.314.1 Available under license

1.315 scandir 1.5

1.315.1 Available under license

1.316 set-immediate-shim 1.0.1

1.317 setuptools 35.0.2

1.317.1 Available under license

1.318 setuptools 18.7.1

1.319 simplegeneric 0.8.1 :1

1.320 six 1.10.0

1.321 six 1.10.0

1.321.1 Available under license

1.322 slash 1.0.0

1.323 source-map 0.5.7

1.323.1 Available under license

1.324 source-map-support 0.4.18

1.324.1 Available under license

1.325 sqlite 3.16.2

1.325.1 Available under license

1.326 squashfs-tools 4.3 :3de1687d7432ea9b302c2db9521996f506c140a3

1.326.1 Available under license

1.327 strict-rfc3339 0.7

1.327.1 Available under license

1.328 string_decoder 1.1.1

1.328.1 Available under license

1.329 strip-ansi 3.0.1

1.329.1 Available under license

1.330 stunnel 5.36 :2013.03.22

1.330.1 Available under license

1.331 sudo 1.8.19p2

1.331.1 Available under license

1.332 supports-color 2.0.0

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1.1 4tH 3.62.4

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```
# 4tH Makefile (c) 1997 G.B. Stott
#
# This is for use with the linux operating system. Do the following:
#
# 1. Check the 5 variables below which may need to be changed.
#
# 2. As superuser, type `make pre-build' to install the headers as described
#    in develop.doc section 2.
#
# 3. Type `make' to build everything.
#
# 4. As superuser, type `make install' to install the programs and library.
#
# 5. Type `make clean'. This restores the directory to the initial state.
#

# The following five variables may need to be changed
LIBRARIES=/usr/lib
INCLUDES=/usr/include
BINARIES=/usr/local/bin
CC=$(CROSS)gcc
CFLAGS= -DUNIX -DBSD -fsigned-char -Wall -O3 -s

# Cross compilation variables
LD=$(CROSS)ld
AR=$(CROSS)ar

OBJ4TH = errs_4th.o save_4th.o load_4th.o free_4th.o comp_4th.o \
name_4th.o dump_4th.o exec_4th.o open_4th.o cgen_4th.o \
str2cell.o

all: lib4th.a 4th 4tsh pp4th # 4thc 4thd 4thx 4thg

lib4th.a: $(OBJ4TH)
```

\$(AR) r \$@ \$(OBJ4TH)

4th: lib4th.a 4th.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

4tsh: lib4th.a 4tsh.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

4thc: lib4th.a 4thc.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

4thd: lib4th.a 4thd.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

4thx: lib4th.a 4thx.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

4thg: lib4th.a 4thg.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

pp4th: lib4th.a pp4th.o

\$(CC) \$(CFLAGS) -I. -o \$@ \$@.o -L. -14th

mostlyclean:

-rm *.o 4th 4tsh pp4th # 4th?

clean: mostlyclean

-rm lib4th.a

Superuser privileges will probably be required for the rest

install: all

cp lib4th.a \$(LIBRARIES)

cp 4th 4tsh pp4th \$(BINARIES)

uninstall:

-rm \$(LIBRARIES)/lib4th.a

-rm \$(BINARIES)/4th \$(BINARIES)/4tsh \$(BINARIES)/pp4th # \$(BINARIES)/4thc \$(BINARIES)/4thd
\$(BINARIES)/4thx \$(BINARIES)/4thg

.SUFFIXES:

.SUFFIXES: .c .o

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1.68 backbone.marionette 3.4.4

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1.72 backgrid-filter 0.3.7

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1.74 backports.shutil-get-terminal-size 1.0.0

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1.77 bash 4.4.12

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.85 bzip2 1.0.6

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jseward@acm.org

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/*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)

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*/

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1.87 celery 4.0.2

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1.95 contextlib2 0.5.4

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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 (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 that included the contextlib module.

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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes

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1.99 core-util-is 1.0.2

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1.100 coreutils 8.26

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1.101 coverage 4.3.4

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1.102 cryptography 1.8.2

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* Tim Martin

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1.107 dcron 4.5

1.108 debug 2.6.9

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1.112 dhcp 4.3.5

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* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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-->

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

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xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

```

<xsl:value-of select="$isc.copyright.leader"/>
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

```

```

<xsl:variable name="isc.copyright.text">
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  </xsl:text>

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```

</xsl:text>
</xsl:variable>

```

```

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="db:year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="db:holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

```

<!--

```

```
- Local variables:
- mode: sgml
- End:
-->
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1.113 diff-match-patch 20121119

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1.114 Django 1.10.7

1.114.1 Available under license :

=====
Advice for new contributors
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

First steps

=====

Start with these easy tasks to discover Django's development process.

****Sign the Contributor License Agreement****

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the ``CLA`_`. See the ``Contributor License Agreement FAQ`_` for a more thorough explanation.

****Triage tickets****

If an ``unreviewed ticket`_` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `:ref:`how-can-i-help-with-triaging``

****Look for tickets that are accepted and review patches to build familiarity with the codebase and the process****

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. `:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

****Keep old patches up to date****

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on `:doc:`writing-code/submitting-patches``.

****Write some documentation****

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

`.. note::`

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

`.. _reports page: https://code.djangoproject.com/wiki/Reports`

`.. _CLA: https://www.djangoproject.com/foundation/cla/`

`.. _Contributor License Agreement FAQ: https://www.djangoproject.com/foundation/cla/faq/`

`.. _unreviewed ticket: https://code.djangoproject.com/query?status=!closed&stage=Unreviewed`

Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's

some advice to make your work on Django more useful and rewarding.

****Pick a subject area that you care about, that you are familiar with, or that you want to learn about****

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

****Analyze tickets' context and history****

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if a core team member hasn't been recently involved in a discussion, then a ticket may not have the support required to get into trunk.

****Start small****

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

****If you're going to engage in a big task, make sure that your idea has support first****

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

****Be bold! Leave feedback!****

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core team. We can't do it without ****you****!

****Err on the side of caution when marking things Ready For Check-in****

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

****Wait for feedback, and respond to feedback that you receive****

Focus on one or two tickets, see them through from start to finish, and

repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

* **Be rigorous** *

When we say "pep: 8", and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. `_easy pickings`: <https://code.djangoproject.com/query?status=!closed&easy=1>

.. `_new-contributors-faq`:

FAQ

===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (even the core team), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `|django-developers|` mailing list asking for review on the ticket, or to bring it up in the `#django-dev`` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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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 (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
2.1.2	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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1.115 django-auth-ldap 1.2.10

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1.116 django-bulk-update 1.1.10

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1.117 django-cors-headers 2.0.2

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1.118 django-import-export 0.5.1

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1.119 django-redis 4.6.0

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1.120 djangorestframework 3.5.4

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1.121 docker 1.13.0

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

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)

Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)

Parse an Accept Header string returning a sorted list of clauses

TYPES

```
type Accept struct {
    Type, SubType string
    Q          float32
    Params    map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

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

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see <http://github.com/gogo/protobuf/gogoprotobuf/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the `--gogo_out`
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.

If you are using any `gogo.proto` extensions you will need to specify the
`proto_path` to include the `descriptor.proto` and `gogo.proto`.
`gogo.proto` is located in github.com/gogo/protobuf/gogoprotobuf
This should be fine, since your import is the same.
`descriptor.proto` is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The `proto` package converts data structures to and from the
wire format of protocol buffers. It works in concert with the
Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
 - There are no methods on `v` to set fields; just treat
them as structure fields.
 - There are getters that return a field's value if set,
and return the field's default value if unset.
The getters work even if the receiver is a nil message.
 - The zero value for a struct is its correct initialization state.
- All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.


```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"
```

```

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

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Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoprotoc

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F *int32.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;
```

```

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out

parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
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The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F *int32.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a `String` method, and a `Enum` method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    }
  }
```

```

    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{ }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

```

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=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
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```

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```
msg.Foo = proto.String("hello") // set field
```
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  required string label = 1;
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

```
}
```

To create and play with a Test object from the example package,

```
package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```

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=====

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```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
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```

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.
That is, optional or required field `int32 f` becomes `F *int32`.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
`msg.Foo = proto.String("hello") // set field`
- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`.
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the

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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
}
```



```

}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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  optional group OptionalGroup = 4 {
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  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
```

```

"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
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```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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<https://github.com/golang/protobuf>

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This should be fine, since your import is the same.

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    },
  }
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package main

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    },
  },
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```

}
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enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
}
```

```
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
```

gRPC Support

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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msg.Foo = proto.String("hello") // set field
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```

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test := &example.Test {
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},
}
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if err != nil {
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Consider file test.proto, containing

```
package example;  
  
enum FOO { X = 17; };
```

```

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

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func main() {
  test := &example.Test {
    Label: proto.String("hello"),
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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  }
  // etc.
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```

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```
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```

=====

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  }
}
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data, err := proto.Marshal(test)
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Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the
wire format of protocol buffers. It works in concert with the
Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.

- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.


```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
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gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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}
```

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package main

import (
  "log"

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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
```

```
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
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```

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

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To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

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The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoproto/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoprototo`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.
 - Helper functions are available to aid the setting of fields.
- Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
- ```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)
```



```

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
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 err = proto.Unmarshal(data, newTest)
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 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
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 // Now test and newTest contain the same data.
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---

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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

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### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

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```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoproto](https://github.com/gogo/protobuf/gogoproto)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
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msg.Foo = proto.String("hello") // set field
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 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
```

```

if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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// etc.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

= Godeps/\_workspace/src/github.com/gogo/protobuf/protoc-gen-gogo/descriptor licensed under: =

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

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See

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Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
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```

```
=====
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 }
}
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To create and play with a Test object from the example package,

```

package main

import (
 "log"

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func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
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```
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=====

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=====

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=====

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msg.Foo = proto.String("hello") // set field
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
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```
package main

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 "log"

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 "path/to/example"
)
```

```

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 test := &example.Test {
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 Optionalgroup: &example.Test_OptionalGroup {
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 data, err := proto.Marshal(test)
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 newTest := &example.Test{}
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 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
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```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see  
<https://developers.google.com/protocol-buffers/>

## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from  
<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from  
<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at  
<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```



The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoproto/doc.go>

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto. gogo.proto is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto). This should be fine, since your import is the same. descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/). Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F \*int32.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {
```

```

required string label = 1;
optional int32 type = 2 [default=77];
repeated int64 reps = 3;
optional group OptionalGroup = 4 {
 required string RequiredField = 5;
}
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

## gRPC Support

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass

the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

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=====

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msg.Foo = proto.String("hello") // set field
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 }
}
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 "path/to/example"
)

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 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
```

```

log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

## ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run ``go get -u github.com/golang/protobuf/{proto,protoc-gen-go}``.

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`, defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.  
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
  - There are no methods on `v` to set fields; just treat them as structure fields.
  - There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
  - The zero value for a struct is its correct initialization state.
- All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.  
That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.  
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.  
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.  
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```

```proto
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

```

To create and play with a Test object from the example package,

```
```go
package main

import (
    "log"

    "github.com/golang/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Reps: []int64{1, 2, 3},
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```
```

## Parameters ##

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```



- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

## gRPC Support ##

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

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<http://bitbucket.org/ww/goautoneg>

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perks - a fork of <https://github.com/bmizerany/perks>

<https://github.com/beorn7/perks>

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See <https://github.com/beorn7/perks/blob/master/README.md> for license details.

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

<http://github.com/golang/protobuf/>

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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Gocheck - A rich testing framework for Go

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

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

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Extensions for Protocol Buffers to create more go like structures.

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Gocheck - A rich testing framework for Go

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

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## FUNCTIONS

```
func Negotiate(header string, alternatives []string) (content_type string)
```

Negotiate the most appropriate content\_type given the accept header and a list of alternatives.

```
func ParseAccept(header string) (accept []Accept)
```

Parse an Accept Header string returning a sorted list of clauses

## TYPES

```
type Accept struct {
 Type, SubType string
 Q float32
 Params map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

## SUBDIRECTORIES

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

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

### ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.



There is support for gRPC in Go using protocol buffers.  
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
see <http://github.com/gogo/protobuf/gogoprotobuf/doc.go>

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.  
First you must compile the protocol buffer definitions and then import  
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out  
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below  
for an example using such a file.

The package comment for the proto library contains text describing  
the interface provided in Go for protocol buffers. Here is an edited  
version.

If you are using any gogo.proto extensions you will need to specify the  
proto\_path to include the descriptor.proto and gogo.proto.  
gogo.proto is located in [github.com/gogo/protobuf/gogoprotobuf](http://github.com/gogo/protobuf/gogoprotobuf)  
This should be fine, since your import is the same.  
descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the  
wire format of protocol buffers. It works in concert with the  
Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface  
for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat

them as structure fields.

- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F \*int32.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

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```
msg.Foo = proto.String("hello") // set field
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- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.

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Consider file test.proto, containing

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```
enum FOO { X = 17; };
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```
message Test {
 required string label = 1;
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

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 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
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 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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 }
 // etc.
}

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=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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gogo.proto is located in [github.com/gogo/protobuf/gogoproto](https://github.com/gogo/protobuf/gogoproto)

This should be fine, since your import is the same.

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or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](https://github.com/gogo/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

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package example;

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 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
```

```
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

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To use this software, you must:

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- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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See the note at the bottom of this file for details.

There are no insertion points in the plugin.

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### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=:github.com/gogo/protobuf/protobuf *.proto
```

=====

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.
- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.  
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.  
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.  
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

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)
```

```

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
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 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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 // etc.
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## gRPC Support

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

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```

=====

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```

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 },
 }
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 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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=====

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

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<https://github.com/golang/protobuf>

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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There is support for gRPC in Go using protocol buffers.

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- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
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msg.Foo = proto.String("hello") // set field
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- a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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enum FOO { X = 17; };

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To create and play with a Test object from the example package,

```
package main

import (
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)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
```

```

log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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  - Helper functions are available to aid the setting of fields.
- Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
- ```
msg.Foo = proto.String("hello") // set field
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- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.
- Because the getter methods handle defaulted values, direct use of these constants should be rare.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
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  }
}
```

To create and play with a Test object from the example package,


```

package main

import (
    "log"

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    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
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  data, err := proto.Marshal(test)
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  newTest := &example.Test{ }
  err = proto.Unmarshal(data, newTest)
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  // Now test and newTest contain the same data.
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The getters work even if the receiver is a nil message.

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All desired fields must be set before marshaling.

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- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field `int32 f` becomes `F *int32`.

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Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

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```
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```

```
enum FOO { X = 17; };
```

```
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  optional int32 type = 2 [default=77];  
  repeated int64 reps = 3;  
  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;  
  }  
}
```

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```
package main
```

```
import (  
  "log"  
  
  "github.com/gogo/protobuf/proto"  
  "path/to/example"  
)
```

```
func main() {
```

```

test := &example.Test {
  Label: proto.String("hello"),
  Type: proto.Int32(17),
  Optionalgroup: &example.Test_OptionalGroup {
    RequiredField: proto.String("good bye"),
  },
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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```
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gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

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package example;

enum FOO { X = 17; };

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  optional int32 type = 2 [default=77];
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    required string RequiredField = 5;
  }
}
```

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```
package main

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  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
}
```

```

}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
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```

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```

=====

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`gogo.proto` is located in github.com/gogo/protobuf/gogoprotoc

This should be fine, since your import is the same.

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```
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  optional group OptionalGroup = 4 {
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  }
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To create and play with a Test object from the example package,

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package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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}
```

```
// etc.  
}
```

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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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```

```
=====
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A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
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Consider file `test.proto`, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {  
  required string label = 1;  
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  repeated int64 reps = 3;  
  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;  
  }  
}
```

To create and play with a `Test` object from the example package,

```
package main
```

```
import (  
  "log"  
  
  "github.com/gogo/protobuf/proto"  
  "path/to/example"  
)
```

```
func main() {  
  test := &example.Test {
```

```

Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
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```

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=====

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```
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```

=====

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Consider file test.proto, containing

```
package example;

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message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
```

```

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optional group OptionalGroup = 4 {
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import (
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=====
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    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
}
```



```

newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

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```

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
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gogo.proto is located in github.com/gogo/protobuf/gogoproto
This should be fine, since your import is the same.
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Its import is google/protobuf/descriptor.proto so it might need some help.

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msg.Foo = proto.String("hello") // set field
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  repeated int64 reps = 3;
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    required string RequiredField = 5;
  }
}
```

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```
package main
```

```

import (
    "log"

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    "path/to/example"
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func main() {
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        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
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    err = proto.Unmarshal(data, newTest)
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=====

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package main

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    Type: proto.Int32(17),
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  }
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```
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```

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Consider file `test.proto`, containing

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package example;

enum FOO { X = 17; };

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 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
```

```

Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
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```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
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```

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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msg.Foo = proto.String("hello") // set field
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 if err != nil {
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 }
 newTest := &example.Test{}
```

```

err = proto.Unmarshal(data, newTest)
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```
package example;

enum FOO { X = 17; };

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 optional int32 type = 2 [default=77];
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
```

```

"log"

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func main() {
test := &example.Test {
Label: proto.String("hello"),
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},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
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```

=====

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```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
  - There are no methods on v to set fields; just treat them as structure fields.
  - There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
  - The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
  - A Reset() method will restore a protobuf struct to its zero state.
  - Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
  - Repeated fields are slices.
  - Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
- ```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a `String` method, and a `Enum` method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
```

```

Optionalgroup: &example.Test_OptionalGroup {
  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.
The simplest way is to run ``go get -u github.com/golang/protobuf/{proto,protoc-gen-go}``.
The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`,
defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol
compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that
generates Go source files that, once compiled, can access and manage
protocol buffers; and a library that implements run-time support for
encoding (marshaling), decoding (unmarshaling), and accessing protocol
buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out`
parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.

```
=====
```

The proto package converts data structures to and from the
wire format of protocol buffers. It works in concert with the
Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat

them as structure fields.

- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies ``syntax="proto3"`, there are some differences:`

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```
``proto
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
```

```

repeated int64 reps = 3;
optional group OptionalGroup = 4 {
  required string RequiredField = 5;
}
}
...

```

To create and play with a Test object from the example package,

```

```go
package main

import (
 "log"

 "github.com/golang/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Reps: []int64{1, 2, 3},
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}
...

Parameters

```

To pass extra parameters to the plugin, use a comma-separated

parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

### ## gRPC Support ##

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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

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Extensions for Protocol Buffers to create more go like structures.

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## FUNCTIONS

`func Negotiate(header string, alternatives []string) (content_type string)`  
Negotiate the most appropriate content\_type given the accept header and a list of alternatives.

`func ParseAccept(header string) (accept []Accept)`  
Parse an Accept Header string returning a sorted list of clauses

## TYPES

```
type Accept struct {
 Type, SubType string
 Q float32
 Params map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

## SUBDIRECTORIES

.hg

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<http://github.com/gogo/protobuf/gogoproto>

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

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<https://github.com/golang/protobuf>

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## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

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- Of course, install the Go compiler and tools from

<https://golang.org/>

See



<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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```
Using protocol buffers with Go
```

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoprotoc](http://github.com/gogo/protobuf/gogoprotoc)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)

Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
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- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
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Consider file test.proto, containing

```

package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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See the note at the bottom of this file for details.

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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf

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### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto. gogo.proto is located in [github.com/gogo/protobuf/gogoprotos](https://github.com/gogo/protobuf/gogoprotos). This should be fine, since your import is the same. descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/). Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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  - A Reset() method will restore a protobuf struct to its zero state.
  - Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
  - Repeated fields are slices.
  - Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
- ```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
```

```

Optionalgroup: &example.Test_OptionalGroup {
  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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```
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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
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```

```
=====
```

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msg.Foo = proto.String("hello") // set field
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- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
```

```

    required string RequiredField = 5;
}
}

```

To create and play with a Test object from the example package,

```

package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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<https://github.com/golang/protobuf>

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- Grab the code from the repository and install the proto package.

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Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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```
package example;

enum FOO { X = 17; };

message Test {
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
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)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
```



```

if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
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```

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- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; `nil` means unset.

That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

`GetFoo` methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
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- Constants are defined to hold the default values of all fields that

have them. They have the form `Default_StructName_FieldName`.

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Enum values are prefixed with the enum's type name. Enum types have

a `String` method, and a `Enum` method to assist in message construction.

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- Extensions are given descriptor names that start with `E_`,

followed by an underscore-delimited list of the nested messages

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extension field itself. `HasExtension`, `ClearExtension`, `GetExtension`

and `SetExtension` are functions for manipulating extensions.

- Oneof field sets are given a single field in their message,

with distinguished wrapper types for each possible field value.

- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {
```

```
  required string label = 1;
```

```
  optional int32 type = 2 [default=77];
```

```
  repeated int64 reps = 3;
```

```
  optional group OptionalGroup = 4 {
```

```
    required string RequiredField = 5;
```

```
  }
```

```
}
```

To create and play with a `Test` object from the example package,

```
package main
```

```
import (
```

```
  "log"
```

```

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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// etc.
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message Test {
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  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
  newTest := &example.Test{ }
  err = proto.Unmarshal(data, newTest)
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  // Now test and newTest contain the same data.
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Enum values are prefixed with the enum's type name. Enum types have a `String` method, and a `Enum` method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.

- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
```

```

    RequiredField: proto.String("good bye"),
  },
}
data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from
<https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from
<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that

generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotobuf
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface

for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
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- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
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msg.Foo = proto.String("hello") // set field
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```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {  
  required string label = 1;  
  optional int32 type = 2 [default=77];  
  repeated int64 reps = 3;  
  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;
```

```
}  
}
```

To create and play with a Test object from the example package,

```
package main  
  
import (  
    "log"  
  
    "github.com/gogo/protobuf/proto"  
    "path/to/example"  
)  
  
func main() {  
    test := &example.Test {  
        Label: proto.String("hello"),  
        Type: proto.Int32(17),  
        Optionalgroup: &example.Test_OptionalGroup {  
            RequiredField: proto.String("good bye"),  
        },  
    }  
    data, err := proto.Marshal(test)  
    if err != nil {  
        log.Fatal("marshaling error: ", err)  
    }  
    newTest := &example.Test{ }  
    err = proto.Unmarshal(data, newTest)  
    if err != nil {  
        log.Fatal("unmarshaling error: ", err)  
    }  
    // Now test and newTest contain the same data.  
    if test.GetLabel() != newTest.GetLabel() {  
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())  
    }  
    // etc.  
}
```

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```
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```

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
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```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited

version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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- Repeated fields are slices.

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Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName.

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Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of the surrounding message type.

- Extensions are given descriptor names that start with E_,

followed by an underscore-delimited list of the nested messages

that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
```

```

log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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To compile the protocol buffer definition, run protoc with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in github.com/gogo/protobuf/gogoprotobuf. This should be fine, since your import is the same. `descriptor.proto` is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
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```

=====

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
 - There are no methods on `v` to set fields; just treat them as structure fields.
 - There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
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Consider file test.proto, containing

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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"
```

```

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
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=====

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```

=====

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```
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gogo.proto is located in github.com/gogo/protobuf/gogoprotoc

This should be fine, since your import is the same.

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```
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package main

import (
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)

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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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  // Now test and newTest contain the same data.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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```

```
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package example;

enum FOO { X = 17; };

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  optional group OptionalGroup = 4 {
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  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

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)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    }
  }
```

```

    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{ }
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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  }
  // etc.
}

```

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```
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```

=====

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enum FOO { X = 17; };

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  }
}
```

```
}
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package main

import (
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}
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  "path/to/example"
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    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
}
```

```

}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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```

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To create and play with a Test object from the example package,

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package main

import (
  "log"

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```

"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
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```

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data, err := proto.Marshal(test)
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    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
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    }
    // etc.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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        },
    }
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Consider file test.proto, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {  
  required string label = 1;  
  optional int32 type = 2 [default=77];  
  repeated int64 reps = 3;  
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  }  
}
```

To create and play with a Test object from the example package,

```
package main
```

```
import (  
  "log"
```

```
  "github.com/gogo/protobuf/proto"
```

```
  "path/to/example"
```

```

)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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// etc.
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```

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=====

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```
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```

=====

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- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
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- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
}
```

```

data, err := proto.Marshal(test)
if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see
<https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from
<https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from
<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol

buffers.

There is support for gRPC in Go using protocol buffers.
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf
see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.
First you must compile the protocol buffer definitions and then import
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below
for an example using such a file.

The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
version.

If you are using any gogo.proto extensions you will need to specify the
proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotoc
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the
wire format of protocol buffers. It works in concert with the
Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface
for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.

- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}
```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

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

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<https://github.com/golang/protobuf>

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<https://github.com/golang/protobuf>

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package. The simplest way is to run `go get -u github.com/golang/protobuf/{proto,protoc-gen-go}`. The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`, defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

Using protocol buffers with Go

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```

```proto
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

```

To create and play with a Test object from the example package,

```

```go
package main

import (
 "log"

 "github.com/golang/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Reps: []int64{1, 2, 3},
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
}
```

```

```

err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
...

```

Parameters

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

gRPC Support

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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ffjson

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Gocheck - A rich testing framework for Go

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

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description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels in DTR

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa. When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

- * Manage users across Docker Datacenter,
- * Manage DTR repositories and settings,
- * Manage the whole UCP cluster.

Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

| Repository operation | read | read-write | admin |
|-----------------------|------|------------|-------|
| View/ browse | x | x | x |
| Pull | x | x | x |
| Push | | x | x |
| Delete tags | | x | x |
| Edit description | | | x |
| Set public or private | | | x |
| Manage user access | | | x |
| Delete repository | | | |

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

Overall permissions

Here's an overview of the permission levels available in DTR:

- * Anonymous users: Can search and pull public repositories.
- * Users: Can search and pull public repos, and create and manage their own repositories.
- * Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
- * Team admin: Everything a team member can do, and can also add members to the team.
- * Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
- * DDC admin: Can manage anything across UCP and DTR.

Where to go next

- * [Authentication and authorization](index.md)

title: License your installation

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

- * When upgrading to a new major version,
- * When your current license expires.

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Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.

License your installation

Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.

Click the **Apply new license** button, and upload your new license file.

Where to go next

* [Use your own TLS certificates](use-your-own-tls-certificates.md)

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

redirect_from:

- /docker-trusted-registry/user-management/permission-levels/

title: Permission levels

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Where to go next

- * [\[Authentication and authorization\]\(index.md\)](#)

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

```
redirect_from:
- /docker-trusted-registry/license/
- /docker-trusted-registry/install/license
title: License Docker Trusted Registry
---
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Where to go next

- * [Install DTR](index.md)
- * [Install DTR offline](install-dtr-offline.md)

```
---
description: Learn about the permission levels available in Docker Trusted Registry.
keywords: docker, registry, security, permissions
title: Permission levels
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```

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Where to go next

- * [\[Authentication and authorization\]\(index.md\)](#)

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keywords: docker, dtr, install, license

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Where to go next

- * [Install DTR](index.md)
- * [Install DTR offline](install-offline.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over

volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description |
|--------------------------|--|
| `No Access` | The user can't view any resource, like volumes, networks, images, or containers. |
| `View Only` | The user can view volumes, networks and images, but can't create any containers. |
| `Restricted Control` | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control` | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers. |

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE****: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

| Team permission level | Description |
|-----------------------|--|
| `No Access` | The user can't view containers with this label. |
| `View Only` | The user can view but can't create containers with this label. |
| `Restricted Control` | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |
| `Full Control` | The user can view and create containers with this label, without any restriction. |

Where to go next

* [Create and manage users](create-and-manage-users.md)

* [Create and manage teams](create-and-manage-teams.md)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License UCP

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

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Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

{: .with-border}

License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

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Click **Upload License** for the changes to take effect.

Where to go next

- * [Install UCP](index.md)
- * [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

redirect_from:

- /ucp/user-management/permission-levels/

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description |
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| `No Access` | The user can't view any resource, like volumes, networks, images, or containers. |
| `View Only` | The user can view volumes, networks and images, but can't create any containers. |
| `Restricted Control` | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control` | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers. |

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

****NOTE****: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

Team permission levels

Teams allow you to define fine-grain permissions to containers that have the label `com.docker.ucp.access.label` applied to them.

There are four permission levels:

| Team permission level | Description |
|-----------------------------------|--|
| <code>`No Access`</code> | The user can't view containers with this label. |
| <code>`View Only`</code> | The user can view but can't create containers with this label. |
| <code>`Restricted Control`</code> | The user can view and create containers with this label. The user can't run <code>`docker exec`</code> , or containers that require privileged access to the host. |
| <code>`Full Control`</code> | The user can view and create containers with this label, without any restriction. |

Where to go next

* [Create and manage users](create-and-manage-users.md)

* [Create and manage teams](create-and-manage-teams.md)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

redirect_from:

- /ucp/installation/license/

title: License UCP

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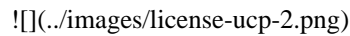
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Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.



Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](install-production.md)

* [Install UCP offline](install-offline.md)

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- * Managing user and team permissions,
- * Managing cluster configurations like adding and removing nodes to the cluster.

Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description |
|--------------------------|-------------|
|--------------------------|-------------|

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|----------------------|--|
| `No Access` | The user can't view any resource, like volumes, networks, images, or containers. |
| `View Only` | The user can view volumes, networks and images, but can't create any containers. |
| `Restricted Control` | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control` | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers. |

If a user has Restricted Control or Full Control default permissions, they can create resources without labels, and only the user and Admins can see and access the resources. Default permissions also affect ability for a user to access things that can't have labels, images and nodes.

Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

| Team permission level | Description |
|-----------------------|--|
| `No Access` | The user can't view containers with this label. |
| `View Only` | The user can view but can't create containers with this label. |
| `Restricted Control` | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |
| `Full Control` | The user can view and create containers with this label, without any restriction. |

Where to go next

- * [Create and manage users](create-and-manage-users.md)
- * [Create and manage teams](create-and-manage-teams.md)
- * [Docker Reference Architecture: Securing Docker Datacenter and Security Best Practices](https://success.docker.com/KBase/Docker_Reference_Architecture%3A_Securing_Docker_Datacenter_and_Security_Best_Practices)

```
---
description: Learn how to license your Docker Universal Control Plane installation.
keywords: Universal Control Plane, UCP, install, license
title: License your installation
---
```

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

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License your installation

Once you've downloaded the license file, you can apply it to your UCP installation. Navigate to the **UCP web UI**, and then go to the **Settings page**.

On the **License** page you can upload the new license.

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Click **Upload License** for the changes to take effect.

Where to go next

* [Install UCP](../install/index.md)

* [Install UCP offline](../install/install-offline.md)

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1.122 docker-compose 1.10.0

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1.123 docker-pycreds 0.2.1

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1.124 docopt 0.6.2

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1.125 dpkg 1.18.10

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[1]: <http://eligrey.com>

1.135 filename-regex 2.0.1

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1.136 fill-range 2.2.3

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1.138 for-own 0.1.5

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1.139 fs-readdir-recursive 1.1.0

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1.140 fs.realpath 1.0.0

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1.141 funcsigns 1.0.2

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1.142 functools32 3.2.3.post2 :py2.7

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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 (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 |
| 2.6 | 2.5 | 2008 | PSF | yes |
| 2.6.1 | 2.6 | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |

| | | | | |
|-------|-------|------|-----|-----|
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 3.0 | 2.6 | 2008 | PSF | yes |
| 3.0.1 | 3.0 | 2009 | PSF | yes |
| 3.1 | 3.0.1 | 2009 | PSF | yes |
| 3.1.1 | 3.1 | 2009 | PSF | yes |
| 3.1.2 | 3.1.1 | 2010 | PSF | yes |
| 3.1.3 | 3.1.2 | 2010 | PSF | yes |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
| 3.2.2 | 3.2.1 | 2011 | PSF | yes |
| 3.2.3 | 3.2.2 | 2012 | 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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1.143 glib 2.50.2

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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1.144 glibc 2.23

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it

does `@emph{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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`@item`

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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.

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

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

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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.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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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:

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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.)

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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.

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Give prominent notice with the combined library of the fact

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#~ "This is free software: you are free to change and redistribute it.\n"
#~ "There is NO WARRANTY, to the extent permitted by law.\n"
#~ "\n"
#~ msgstr ""
#~ "\n"
#~ "&#12521;&#12452;&#12475;&#12531;&#12473; GPLv3+: GNU GPL version 3 or later
<http://gnu.org/licenses/gpl.html>.\n"
#~ "This is free software: you are free to change and redistribute it.\n"
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1.145 glob 7.1.2

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1.150 gnutls 3.5.10

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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```

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Version 2.1, February 1999

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Version 3, 29 June 2007

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1.151 gojsonpointer

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1.155 gsap 1.20.3

1.156 has-ansi 2.0.0

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

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

Install

```
$ npm install --save has-ansi
```

Usage

```
```js
```

```
var hasAnsi = require('has-ansi');
```

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

---

## Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module

- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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## 1.159 idna 2.5

## 1.160 idna 2.1

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## 1.161 ifupdown 0.8.16

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Upstream-Name: ifupdown

Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

Files: \*

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## 1.186 isodate 0.6.0

## 1.187 jquery 3.1.1

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## 1.210 Linux kernel 4.17.11

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```
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<signature of Ty Coon>, 1 April 1990  
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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
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That's all there is to it!

```
/* 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
*
*
*/
/* 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
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* recycle large data buffers
* 2) skb_clone of received buffers
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*
*
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*
* M. Welsh, 6 July 1996
*
*/

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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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```
/* 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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 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
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=====

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Contributors

=====

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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=====

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This documentation file provides a description of how each source file should be annotated to make its license clear and unambiguous. It doesn't replace the Kernel's license.

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The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

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The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section 'License identifiers' and have been retrieved from the official SPDX license list at <https://spdx.org/licenses/> along with the license texts.

#### License identifier syntax

-----

##### 1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority of files this is the first line, except for scripts which require the '#!PATH\_TO\_INTERPRETER' in the first line. For those scripts the SPDX identifier goes into the second line.

|

##### 2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
```

```
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "`/* */`" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

### 3. Syntax:

A `<SPDX License Expression>` is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point ``Exceptions`_` in the chapter ``License identifiers`_`.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

#### License identifiers

-----

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

#### 1. Preferred licenses:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

```
LICENSES/preferred/
```

in the kernel source tree.

The files in this directory contain the full license text and Metatags. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

```
LICENSES/preferred/GPL-2.0
```

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

`_`Metatags`:`

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the ``License identifier syntax`_` guidelines.`

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0

Valid-License-Identifier: GPL-2.0+

SPDX-URL: <https://spdx.org/licenses/GPL-2.0.html>

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:

Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: <https://spdx.org/licenses/MIT.html>

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

|

## 2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and ``Metatags`_`. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the ``Preferred licenses`_`.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: <https://spdx.org/licenses/ISC.html>

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:

Full license text

|

### 3. `_`Exceptions``:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

LICENSES/exceptions/

in the kernel source tree. The files in this directory contain the full exception text and the required ``Exception Metatags`_``.

Examples::

LICENSES/exceptions/Linux-syscall-note

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

e.g. `^* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note \*/::`

LICENSES/exceptions/GCC-exception-2.0

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`_`Exception Metatags``:

The following meta tags must be available in an exception file:

- `SPDX-Exception-Identifier`:

One exception identifier which can be used with SPDX license identifiers.

- `SPDX-URL`:

The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`\_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note

SPDX-URL: <https://spdx.org/licenses/Linux-syscall-note.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: <https://spdx.org/licenses/GCC-exception-2.0.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text



All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the FSFE REUSE initiative <<https://reuse.software/>>`\_.

FlashPoint Driver Developer's Kit  
Version 1.0

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Version 2.1, February 1999

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```

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```
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```

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

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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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"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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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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- a) Accompany the work with the complete corresponding

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

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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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Version 2, June 1991

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```
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```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
return (strcmp(license, "GPL") == 0
```

```
|| strcmp(license, "GPL v2") == 0
```

```
|| strcmp(license, "GPL and additional rights") == 0
```

```
|| strcmp(license, "Dual BSD/GPL") == 0
```

```
|| strcmp(license, "Dual MIT/GPL") == 0
```

```
|| strcmp(license, "Dual MPL/GPL") == 0);
```

```
}
```

```
#endif
```

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.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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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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static inline int license_is_gpl_compatible(const char *license)
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 || strcmp(license, "GPL v2") == 0
 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
 || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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=====

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Contributors

=====

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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=====

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This documentation file provides a description of how each source file should be annotated to make its license clear and unambiguous.

It doesn't replace the Kernel's license.

The license described in the COPYING file applies to the kernel source as a whole, though individual source files can have a different license which is required to be compatible with the GPL-2.0::

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- LGPL-2.1 : GNU Lesser General Public License v2.1 only
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Aside from that, individual files can be provided under a dual license, e.g. one of the compatible GPL variants and alternatively under a

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The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see <https://spdx.org/>

The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section ``License identifiers`_` and have been retrieved from the official SPDX license list at <https://spdx.org/licenses/> along with the license texts.

License identifier syntax

-----

#### 1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the `'#!PATH_TO_INTERPRETER'` in the first line. For those scripts the SPDX identifier goes into the second line.

|

#### 2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
```

```
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "`/* */`" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

### 3. Syntax:

A `<SPDX License Expression>` is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point ``Exceptions`_` in the chapter ``License identifiers`_`.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual

licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

-----

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

#### 1. `_`Preferred licenses``:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

```
LICENSES/preferred/
```

in the kernel source tree.

The files in this directory contain the full license text and ``Metatags`_``. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

```
LICENSES/preferred/GPL-2.0
```

Contains the GPL version 2 license text and the required metatags::

LICENSES/preferred/MIT

Contains the MIT license text and the required metatags

\_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`\_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0

Valid-License-Identifier: GPL-2.0+

SPDX-URL: <https://spdx.org/licenses/GPL-2.0.html>

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:

Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: <https://spdx.org/licenses/MIT.html>

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

|

## 2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`\_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`\_.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: <https://spdx.org/licenses/ISC.html>

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:

Full license text

|

### 3. `_`Exceptions``:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

`LICENSES/exceptions/`

in the kernel source tree. The files in this directory contain the full exception text and the required ``Exception Metatags`_``.

Examples::

`LICENSES/exceptions/Linux-syscall-note`

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

e.g. `^* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note \*/::`

`LICENSES/exceptions/GCC-exception-2.0`

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`_`Exception Metatags``:

The following meta tags must be available in an exception file:

- `SPDX-Exception-Identifier:`

One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`\_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note

SPDX-URL: <https://spdx.org/licenses/Linux-syscall-note.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: <https://spdx.org/licenses/GCC-exception-2.0.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0



Exception-Text:

Full exception text

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Version 1.0

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```
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```
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```

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

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```
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```

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

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## 3

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## 1.232 netns

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# 1

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# 1.233 nettle 3.3

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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 */
```

## 1.235 normalize-path 2.1.1

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jpg "Clone me," says Dolly sheepishly.

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5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
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44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
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46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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50. [54]Michael Shields <shields@tembel.org> USNO clock driver
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  59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
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/\* -\*- Mode: Text -\*- \*/

```
copyright = {
 date = "1992-2017";
 owner = "The University of Delaware and Network Time Foundation";
 eaddr = "http://bugs.ntp.org, bugs@ntp.org";
 type = ntp;
};

long-opts;
config-header = config.h;
environrc;
```

```

no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version = `
eval VERSION=\`sed -e 's/.*,\\[/' -e 's/^\\.*/' < ../sntp/m4/version.m4`
[-z "${VERSION}"] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
// sub-name = version;
// sub-text = 's/#VERSION#/<<version>>/g';
// };
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
 UTC</p>
<br clear="left">
</p>
<hr>
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```

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Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snpt

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Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

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- George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
- Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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- Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
- Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
- Ray Schnitzler <schnitz@unipress.com> Unixware 1 port
- Michael Shields <shields@tembel.org> USNO clock driver
- Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

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Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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1.242 open-vm-tools

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> icu4c-4.4.1

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1.246 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
 */
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1.247 os-homedir 1.0.2

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1.248 os-tmpdir 1.0.2

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1.249 output-file-sync 1.1.2

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1.250 packaging 16.8

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1.252 path-is-absolute 1.0.1

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1.255 PCRE 8.40

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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Written by: Zoltan Herczeg
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Email domain: freemail.hu

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1.256 pexpect 4.2.1

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1.257 pickleshare 0.7.4

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1.258 pip 9.0.1

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1.259 pkijs 2.1.10

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1.260 postgresql 9.6.3

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>32.12. Notice Processing</A
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> Notice and warning messages generated by the server are not returned
by the query execution functions, since they do not imply failure of
the query. Instead they are passed to a notice handling function, and
execution continues normally after the handler returns. The default
notice handling function prints the message on

```



```

<TT
CLASS="FILENAME"
>stderr</TT
>, but the application can override this
  behavior by supplying its own handling function.
</P
><P
> For historical reasons, there are two levels of notice handling, called
  the notice receiver and notice processor. The default behavior is for
  the notice receiver to format the notice and pass a string to the notice
  processor for printing. However, an application that chooses to provide
  its own notice receiver will typically ignore the notice processor
  layer and just do all the work in the notice receiver.
</P
><P
> The function <CODE
CLASS="FUNCTION"
>PQsetNoticeReceiver</CODE
>

```

```

  sets or
  examines the current notice receiver for a connection object.
  Similarly, <CODE
CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE
>

```

```

  sets or
  examines the current notice processor.

```

```

</P><PRE
CLASS="SYNOPSIS"
>typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

```

```

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
                    PQnoticeReceiver proc,
                    void *arg);

```

```

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

```

```

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
                    PQnoticeProcessor proc,
                    void *arg);</PRE

```

```

><P>

```

Each of these functions returns the previous notice receiver or

processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

</P

><P

> When a notice or warning message is received from the server, or generated internally by <SPAN

CLASS="APPLICATION"

>libpq</SPAN

>, the notice

receiver function is called. It is passed the message in the form of a <TT

CLASS="SYMBOL"

>PGRES_NONFATAL_ERROR</TT

>

<TT

CLASS="STRUCTNAME"

>PGresult</TT

>. (This allows the receiver to extract individual fields using <CODE

CLASS="FUNCTION"

>PQresultErrorField</CODE

>, or obtain a

complete preformatted message using <CODE

CLASS="FUNCTION"

>PQresultErrorMessage</CODE

>

or <CODE

CLASS="FUNCTION"

>PQresultVerboseErrorMessage</CODE

>.) The same

void pointer passed to <CODE

CLASS="FUNCTION"

>PQsetNoticeReceiver</CODE

> is also

passed. (This pointer can be used to access application-specific state if needed.)

</P

><P

> The default notice receiver simply extracts the message (using <CODE

CLASS="FUNCTION"

>PQresultErrorMessage</CODE

>) and passes it to the notice

processor.

</P

><P

> The notice processor is responsible for handling a notice or warning

message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to <CODE>

```

CLASS="FUNCTION"
>PQsetNoticeProcessor</CODE>
>. (This pointer
  can be used to access application-specific state if needed.)
</P>
><P>
> The default notice processor is simply:
</P><PRE>
CLASS="PROGRAMLISTING"
>static void
defaultNoticeProcessor(void *arg, const char *message)
{
  fprintf(stderr, "%s", message);
}</PRE>
><P>
</P>
><P>
> Once you have set a notice receiver or processor, you should expect
  that that function could be called as long as either the
  <TT>
CLASS="STRUCTNAME"
>PGconn</TT>
> object or <TT>
CLASS="STRUCTNAME"
>PGresult</TT>
> objects made
  from it exist. At creation of a <TT>
CLASS="STRUCTNAME"
>PGresult</TT>
>, the
  <TT>
CLASS="STRUCTNAME"
>PGconn</TT>
>'s current notice handling pointers are copied
  into the <TT>
CLASS="STRUCTNAME"
>PGresult</TT>
> for possible use by functions like
  <CODE>
CLASS="FUNCTION"
>PQgetvalue</CODE>
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```

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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile

*** bsd_indent/Makefile Wed Oct 26 17:13:34 2011

--- pg_bsd_indent/Makefile Wed Oct 12 12:17:12 2011

*** 2,10 ****

Makefile

#

#

! TARGET = indent

XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="

! CFLAGS = -g

LIBS =

\$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o

--- 2,10 ----

Makefile

#

#

! TARGET = pg_bsd_indent

XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="

! CFLAGS = -O

LIBS =

\$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o

*** 31,37 ****

clean:

rm -f *.o \$(TARGET) log core

! install:

! make clean

! make CFLAGS=-O

install -s -o bin -g bin \$(TARGET) /usr/local/bin

--- 31,35 ----

clean:

rm -f *.o \$(TARGET) log core

! install: \$(TARGET)

install -s -o bin -g bin \$(TARGET) /usr/local/bin

diff -c -r bsd_indent/README pg_bsd_indent/README

*** bsd_indent/README Wed Oct 26 17:13:34 2011

--- pg_bsd_indent/README Mon Nov 14 19:30:24 2005

*** 1,3 ****

```

--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ -----
+
+
+
+ This is the C indenter, it originally came from the University of Illinois
+ via some distribution tape for PDP-11 Unix. It has subsequently been
+ hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c Wed Oct 26 17:16:56 2011
*****
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION "1.1"
+
+ /* profile types */
+ #define PRO_SPECIAL 1 /* special case */
+ #define PRO_BOOL 2 /* boolean */
+ *****
+ *** 99,106 ****
--- 101,113 ----
+ #define STDIN 3 /* use stdin */
+ #define KEY 4 /* type (keyword) */

+ #define KEY_FILE 5 /* only used for args */
+ #define VERSION 6 /* only used for args */
+
+ char *option_source = "?";

+ void add_typedefs_from_file(char *str);
+
+ /*
+ * N.B.: because of the way the table here is scanned, options whose names are
+ * substrings of other options must occur later; that is, with -lp vs -l, -lp
+ *****
+ *** 118,123 ****
--- 125,136 ----
+ "T", PRO_SPECIAL, 0, KEY, 0

```



```

    },
    {
+   "U", PRO_SPECIAL, 0, KEY_FILE, 0
+ },
+ {
+   "V", PRO_SPECIAL, 0, VERSION, 0
+ },
+ {
    "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
    },
    {
*****
*** 425,430 ****
--- 438,456 ----
    }
    break;

+   case KEY_FILE:
+   if (*param_start == 0)
+   goto need_param;
+   add_typedefs_from_file(param_start);
+   break;
+
+   case VERSION:
+   {
+   printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+   exit(0);
+   }
+   break;
+
    default:
        fprintf(stderr, "\
indent: set_option: internal error: p_special %d\n", p->p_special);
*****
*** 459,461 ****
--- 485,508 ----
        exit(1);
    }
}
+
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+   FILE *file;
+   char line[BUFSIZ];
+
+   if ((file = fopen(param_start, "r")) == NULL)

```

```

+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, "\t\n\r")) = '\0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h Mon Nov 14 19:30:24 2005
*****
*** 239,245 ****
    scomf, /* Same line comment font */
    bodyf; /* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
    int last_token;
--- 239,249 ----
    scomf, /* Same line comment font */
    bodyf; /* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
*****
*** 93,99 ****
    int rwcodes;
};

```

```

! struct templ specials[1000] =
{
  {"switch", 1},
  {"case", 2},
--- 93,99 ----
  int  rwd;
};

! struct templ specials[16384] =
{
  {"switch", 1},
  {"case", 2},
*****
*** 622,629 ****
  else
  p++;
  if (p >= specials + sizeof specials / sizeof specials[0])
! return; /* For now, table overflows are silently
!  * ignored */
  p->rwd = key;
  p->rwd = val;
  p[1].rwd = 0;
--- 622,632 ----
  else
  p++;
  if (p >= specials + sizeof specials / sizeof specials[0])
! {
! fprintf(stderr, "indent: typedef table overflow\n");
! exit(1);
! }
!
  p->rwd = key;
  p->rwd = val;
  p[1].rwd = 0;
Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
*** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
*****
*** 231,236 ****
--- 231,241 ----

} /* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+   fprintf(stderr, "indent: stack size overflow\n");
+   exit(1);
+ }

```

```

+
+   reduce(); /* see if any reduction can be done */
+
+   #ifdef debug
+   Only in pg_bsd_indent: parse.o
+   diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
+   *** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
+   --- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
+   ****
+   *** 148,154 ****
+       ps.box_com = true;
+       ps.com_col = 1;
+   } else {
+   ! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
+       ps.box_com = true; /* a comment with a '-', '*'
+           * or newline immediately
+           * after the start comment is
+   --- 148,158 ----
+       ps.box_com = true;
+       ps.com_col = 1;
+   } else {
+   ! /*
+   ! * Don't process '\n' or every comment is treated as a
+   ! * block comment, meaning there is no wrapping.
+   ! */
+   ! if (*buf_ptr == '-' || *buf_ptr == '*') {
+       ps.box_com = true; /* a comment with a '-', '*'
+           * or newline immediately
+           * after the start comment is
+   ****
+   *** 328,333 ****
+   --- 332,350 ----
+       goto end_of_comment;
+   }
+   } while (*buf_ptr == ' ' || *buf_ptr == '\t');
+
+
+
+   /*
+   * If there is a blank comment line, we need to prefix
+   * the line with the same three spaces that "/* " takes up.
+   * Without this code, blank stard lines in comments have
+   * three too-many characters on the line when wrapped.
+   */
+   if (s_com == e_com) {
+       *e_com++ = ' '; /* add blanks for continuation */
+       *e_com++ = ' ';
+       *e_com++ = ' ';
+       now_col += 3;
+   }

```

```
} else
if (++buf_ptr >= buf_end)
fill_buffer();
Only in pg_bsd_indent: pr_comment.o
```

1.261 preserve 0.2.0

1.261.1 Available under license :

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1.262 private 0.1.8

1.262.1 Available under license :

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1.263 process-nextick-args 2.0.0

1.263.1 Available under license :

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1.264 procps-ng 3.3.12

1.264.1 Available under license :

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Version 2, June 1991

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1.265 prompt-toolkit 1.0.14

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1.266 psycopg2 2.5.5

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1.267 ptyprocess 0.5.1

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1.268 pvutils 1.0.12

1.269 pyasn1 0.1.9

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1.270 pycparser 2.17

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1.272 pyOpenSSL 16.2.0

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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 (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.

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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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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.

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| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |

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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) |
| 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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| 1.3 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 | |
| +-----+ | | | | | |
| 2.2 and above | 2.1.1 | 2001-now | PSF | yes | |
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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)`
or `init_by_array(init_key, key_length)`.

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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 Project, <http://www.wide.ad.jp/>. ::

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L. Peter Deutsch
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Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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strtod and dtoa

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1.277 python-appdirs 1.4.3

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1.280 python-cached-property 1.3.0

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1.281 python-cffi 1.8.3

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1.282 python-cffi 1.10.0

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1.283 python-docker 2.0.2

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1.284 python-dockerpty 0.4.1

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1.285 python-enum34 1.0.4

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1.286 python-ldap 2.4.32

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1.287 python-requests 2.11.1

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1.288 pytz 2017.2

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1.289 PyYAML 3.12

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1.290 randomatic 1.1.7

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1.291 readable-stream 2.3.6

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1.294 Redis 3.2.8

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1.295 redis 2.10.5

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1.296 regenerate 1.3.3

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1.297 regenerator-runtime 0.11.1

1.298 regenerator-runtime 0.10.5

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1.299 regenerator-transform 0.10.1

1.300 regex-cache 0.4.4

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1.301 regexpu-core 2.0.0

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1.302 regjsgen 0.2.0

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1.303 regjsparser 0.1.5

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1.304 remove-trailing-separator 1.1.0

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1.305 repeat-element 1.1.2

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1.306 repeat-string 1.6.1

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1.307 repeating 2.0.1

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1.308 requests 2.12.5

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1.309 requests-ntlm 1.1.0

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1.310 requests-toolbelt 0.8.0

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1.311 responses 0.5.1

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Version 3, 29 June 2007

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1.315 scandir 1.5

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1.316 set-immediate-shim 1.0.1

1.317 setuptools 35.0.2

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1.318 setuptools 18.7.1

1.319 simplegeneric 0.8.1 :1

1.320 six 1.10.0

1.321 six 1.10.0

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1.322 slash 1.0.0

1.323 source-map 0.5.7

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1.324 source-map-support 0.4.18

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1.325 sqlite 3.16.2

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1.326 squashfs-tools 4.3

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a3

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1.328 string_decoder 1.1.1

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1.329 strip-ansi 3.0.1

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```
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```

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

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```
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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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1.331 sudo 1.8.19p2

1.331.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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
Brantley, Michael

Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysiner, Mike
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.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo

KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
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
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio

Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
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
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Rogueiro, Leandro
Sarar, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki

Uranga, Mikel Olasagasti
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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

1.332 supports-color 2.0.0

1.332.1 Available under license :

```
# supports-color [![Build Status](https://travis-ci.org/chalk/supports-color.svg?branch=master)](https://travis-ci.org/chalk/supports-color)
```

> Detect whether a terminal supports color

```
## Install
```

```
---
```

```
$ npm install --save supports-color
```

```
---
```

```
## Usage
```

```
```js
```

```
var supportsColor = require('supports-color');
```

```
if (supportsColor) {
 console.log('Terminal supports color');
}
```

```

```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

```
Related
```

- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module

- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

```
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# 1.333 syslinux 6.03

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- \*
- \* Author: Adam Dunkels <adam@sics.se>
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## 1.334 tablib 0.11.4

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## 1.352 websocket-client 0.40.0

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# 1.356 xmlltodict 0.10.2

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with the library after making changes to the library and recompiling  
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We protect your rights with a two-step method: (1) we copyright the

library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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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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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

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

## TERMS AND CONDITIONS

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#### 1. Source Code.

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