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In your requests please include the following reference number 78EE117C99-144935556

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 asgi-redis 1.0.0

1.4 asgiref 1.0.0

1.4.1 Available under license

1.5 attrs 16.3.0

1.5.1 Available under license

1.6 autobahn 0.17.1

1.6.1 Available under license

1.7 Automat 0.5.0

1.7.1 Available under license

1.8 backbone 1.3.3

1.8.1 Available under license

1.9 backbone-computedfields 0.0.12

1.9.1 Available under license

1.10 backbone.marionette 3.1.0

1.10.1 Available under license

1.11 backbone.paginator 2.0.6

1.11.1 Available under license

1.12 backgrid 0.3.7

1.12.1 Available under license

1.13 backgrid-filter 0.3.7

1.13.1 Available under license

1.14 backgrid-paginator 0.3.9

- 1.14.1 Available under license
- 1.15 backports.shutil_get_terminal_size 1.0.0**
 - 1.15.1 Available under license
- 1.16 bash 4.4**
 - 1.16.1 Available under license
- 1.17 billiard 3.5.0.2**
 - 1.17.1 Available under license
- 1.18 bootstrap-tagsinput 0.7.1**
 - 1.18.1 Available under license
- 1.19 bridge-utils 1.6**
 - 1.19.1 Available under license
- 1.20 busybox 1.26.2**
 - 1.20.1 Available under license
- 1.21 bzip2 1.0.6**
 - 1.21.1 Available under license
- 1.22 channels 1.0.3**
 - 1.22.1 Available under license
- 1.23 colorama 0.3.7**
 - 1.23.1 Available under license
- 1.24 constantly 15.1.0**
 - 1.24.1 Available under license
- 1.25 cookies 2.2.1**
 - 1.25.1 Available under license
- 1.26 coreutils 8.26**
 - 1.26.1 Available under license
- 1.27 cryptography 1.7.1**
 - 1.27.1 Available under license
- 1.28 cryptography-1.8.1 1.8.1**
 - 1.28.1 Available under license
- 1.29 cyrus-sasl 2.1.26**
 - 1.29.1 Available under license
- 1.30 daphne 1.0.3**
 - 1.30.1 Available under license
- 1.31 dcron 4.5**
- 1.32 decorator 4.0.11**
 - 1.32.1 Available under license
- 1.33 dhcp 4.3.5**
 - 1.33.1 Available under license
- 1.34 Django 1.10.5**

- 1.34.1 Available under license
- 1.35 django-auth-ldap 1.2.9**
 - 1.35.1 Available under license
- 1.36 django-bulk-update 1.1.10**
 - 1.36.1 Available under license
- 1.37 django-cors-headers 2.0.2**
 - 1.37.1 Available under license
- 1.38 django-redis 4.6.0**
 - 1.38.1 Available under license
- 1.39 djangorestframework 3.5.4**
 - 1.39.1 Available under license
- 1.40 docker 1.13.0**
 - 1.40.1 Available under license
- 1.41 docker-compose 1.10.0**
 - 1.41.1 Available under license
- 1.42 docker-pycreds 0.2.1**
 - 1.42.1 Available under license
- 1.43 docopt 0.6.2**
 - 1.43.1 Available under license
- 1.44 dpkg 1.18.10**
 - 1.44.1 Available under license
- 1.45 enum34 1.1.6**
 - 1.45.1 Available under license
- 1.46 expat 2.2.0**
 - 1.46.1 Available under license
- 1.47 fastclick 1.0.6**
 - 1.47.1 Available under license
- 1.48 FileSaver.js 1.3.3**
 - 1.48.1 Available under license
- 1.49 funcsigns 1.0.2**
 - 1.49.1 Available under license
- 1.50 glib 2.50.2**
 - 1.50.1 Available under license
- 1.51 glibc 2.23**
 - 1.51.1 Available under license
- 1.52 glibc/gplv2-subpart 2.23**
 - 1.52.1 Available under license
- 1.53 glibc/gplv3-subpart 2.23**
 - 1.53.1 Available under license

1.54 gmp 6.1.2

1.54.1 Available under license

1.55 gnutls 3.5.10

1.55.1 Available under license

1.56 i18next 7.1.1

1.56.1 Available under license

1.57 idna 2.1

1.57.1 Available under license

1.58 ifupdown 0.8.16

1.58.1 Available under license

1.59 incremental 16.10.1

1.59.1 Available under license

1.60 ipaddress 1.0.17

1.60.1 Available under license

1.61 iptables 1.6.1

1.61.1 Available under license

1.62 ipython 5.1.0

1.62.1 Available under license

1.63 ipython-genutils 0.1.0

1.63.1 Available under license

1.64 jquery 3.1.1

1.64.1 Available under license

1.65 js-cookie 2.1.3

1.65.1 Available under license

1.66 jsonschema 2.5.1

1.66.1 Available under license

1.67 kombu 4.0.2

1.67.1 Available under license

1.68 libdnet 1.11

1.68.1 Available under license

1.69 libestr 0.1.10

1.69.1 Available under license

1.70 libevent 2.1.8-stable

1.70.1 Available under license

1.71 libfastjson 0.99.4

1.71.1 Available under license

1.72 libffi 3.2.1 :Nov 12 2014 Anthony Green

1.72.1 Available under license

1.73 libffi_testsuite 3.2.1 :Nov 12 2014 Anthony Green

- 1.73.1 Available under license
- 1.74 liblogging 1.0.5**
 - 1.74.1 Available under license
- 1.75 libpopt0 1.16**
 - 1.75.1 Available under license
- 1.76 libtasn1 4.12**
 - 1.76.1 Available under license
- 1.77 libunistring 0.9.7**
 - 1.77.1 Available under license
- 1.78 libxml2 2.9.4**
 - 1.78.1 Available under license
- 1.79 libxslt 1.1.29**
 - 1.79.1 Available under license
- 1.80 libyaml 0.1.6**
 - 1.80.1 Available under license
- 1.81 Linux kernel 4.9.13**
 - 1.81.1 Available under license
- 1.82 lodash 4.17.4**
 - 1.82.1 Available under license
- 1.83 logrotate 3.11.0**
 - 1.83.1 Available under license
- 1.84 lxml 3.7.3**
 - 1.84.1 Available under license
- 1.85 mock 2.0.0**
 - 1.85.1 Available under license
- 1.86 moment 2.17.1**
 - 1.86.1 Available under license
- 1.87 moment-duration-format 1.3.0**
 - 1.87.1 Available under license
- 1.88 mpdecimal 2.4.1 :1**
 - 1.88.1 Available under license
- 1.89 msgpack-python 0.4.8**
 - 1.89.1 Available under license
- 1.90 ncurses 5.9**
 - 1.90.1 Available under license
- 1.91 ndisc6 1.0.2**
 - 1.91.1 Available under license
- 1.92 net-tools 3f170bff115303e92319791cbd56371e33dcbf6d**
 - 1.92.1 Available under license

1.93 netcat 0.7.1

1.93.1 Available under license

1.94 nettle 3.3

1.94.1 Available under license

1.95 nginx 1.10.3

1.95.1 Available under license

1.96 ntp 4.2.8p10

1.96.1 Available under license

1.97 open-vm-tools 5a9033ddfa95786d867e4d02bbb9a29bac8fb64f

1.97.1 Available under license

1.98 openldap 2.4.44

1.98.1 Available under license

1.99 OpenSSL 1.0.2k 1.0.2k

1.99.1 Available under license

1.100 packaging 16.8

1.100.1 Available under license

1.101 pbr 1.10.0 :1

1.101.1 Available under license

1.102 PCRE 8.40

1.102.1 Available under license

1.103 pexpect 4.2.1

1.103.1 Available under license

1.104 pickleshare 0.7.4

1.104.1 Available under license

1.105 pikjs 2.0.56

1.105.1 Available under license

1.106 pip 9.0.1

1.106.1 Available under license

1.107 postgresql 9.6.3

1.107.1 Available under license

1.108 procps-ng 3.3.12

1.108.1 Available under license

1.109 prompt-toolkit 1.0.13

1.109.1 Available under license

1.110 psycopg2 2.5.5

1.110.1 Available under license

1.111 ptyprocess 0.5.1

1.111.1 Available under license

1.112 pyasn1 0.1.9

- 1.112.1 Available under license
- 1.113 Pygments 2.2.0**
 - 1.113.1 Available under license
- 1.114 pyOpenSSL 16.2.0**
 - 1.114.1 Available under license
- 1.115 pyparsing 2.1.9**
 - 1.115.1 Available under license
- 1.116 python 2.7.13**
 - 1.116.1 Available under license
- 1.117 python 3.5.2**
 - 1.117.1 Available under license
- 1.118 python 2.7.12**
 - 1.118.1 Available under license
- 1.119 python-appdirs 1.4.3**
 - 1.119.1 Available under license
- 1.120 python-backports-ssl_match_hostname 3.5.0.1**
 - 1.120.1 Available under license
- 1.121 python-blessed 1.14.1**
 - 1.121.1 Available under license
- 1.122 python-cached-property 1.3.0**
 - 1.122.1 Available under license
- 1.123 python-cffi 1.10.0**
 - 1.123.1 Available under license
- 1.124 python-docker 2.0.2**
 - 1.124.1 Available under license
- 1.125 python-dockerpty 0.4.1**
 - 1.125.1 Available under license
- 1.126 python-enum34 1.0.4**
 - 1.126.1 Available under license
- 1.127 python-ldap 2.4.32**
 - 1.127.1 Available under license
- 1.128 python-requests 2.11.1**
 - 1.128.1 Available under license
- 1.129 pytz 2016.1**
 - 1.129.1 Available under license
- 1.130 PyYAML 3.12**
 - 1.130.1 Available under license
- 1.131 readline 7.0**
 - 1.131.1 Available under license

1.132 redis 2.10.5

1.132.1 Available under license

1.133 Redis 3.2.8

1.133.1 Available under license

1.134 requests 2.1.2.5

1.134.1 Available under license

1.135 rfc3987 1.3.7

1.135.1 Available under license

1.136 rsyslog 8.22.0

1.136.1 Available under license

1.137 scandir 1.5

1.137.1 Available under license

1.138 setuptools 35.0.2

1.138.1 Available under license

1.139 setuptools 28.8.0

1.139.1 Available under license

1.140 simplegeneric 0.8.1 :1

1.141 six 1.10.0

1.142 six 1.10.0

1.142.1 Available under license

1.143 sqlite 3.16.2

1.143.1 Available under license

1.144 squashfs-tools 4.3 :3de1687d7432ea9b302c2db9521996f506c140a3

1.144.1 Available under license

1.145 strict-rfc3339 0.7

1.145.1 Available under license

1.146 sudo 1.8.19p2

1.146.1 Available under license

1.147 syslinux 6.03

1.147.1 Available under license

1.148 texttable 0.8.7

1.148.1 Available under license

1.149 traitlets 4.3.1

1.149.1 Available under license

1.150 Twisted 17.1.0

1.150.1 Available under license

1.151 txai 2.6.1

1.151.1 Available under license

1.152 tzdata 2016j

1.152.1 Available under license
1.153 util-linux 2.29.2
1.153.1 Available under license
1.154 vcversioner 2.16.0.0
1.155 vine 1.1.3
1.155.1 Available under license
1.156 wcwidth 0.1.7 :1
1.156.1 Available under license
1.157 webcolors 1.7
1.157.1 Available under license
1.158 websocket-client 0.40.0
1.158.1 Available under license
1.159 wheel 0.29.0
1.159.1 Available under license
1.160 wsgiref 0.1.2
1.160.1 Available under license
1.161 xmltodict 0.10.2
1.161.1 Available under license
1.162 XZ Utils 5.2.3
1.162.1 Available under license
1.163 zlib 1.2.11
1.163.1 Available under license
1.164 zope.interface 4.3.3
1.164.1 Available under license

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. -l4th

4tsh: lib4th.a 4tsh.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

4thc: lib4th.a 4thc.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

4thd: lib4th.a 4thd.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

4thx: lib4th.a 4thx.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

4thg: lib4th.a 4thg.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

pp4th: lib4th.a pp4th.o
$(CC) $(CFLAGS) -I. -o $@ $@.o -L. -l4th

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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Version 3, 29 June 2007

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1.9 backbone-computedfields 0.0.12

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.21 bzip2 1.0.6

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jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

libbz2.dll test program.

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

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```
usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
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1.22 channels 1.0.3

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1.26 coreutils 8.26

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1.27 cryptography 1.7.1

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1.28 cryptography-1.8.1 1.8.1

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1.29 cyrus-sasl 2.1.26

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* Rob Earhart
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/* CMU libsacl

* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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1.30 daphne 1.0.3

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1.31 dcron 4.5

1.32 decorator 4.0.11

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1.33 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.

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```
=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2  
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```

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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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 -->

<!-- \$Id\$ -->

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

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
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">
<xsl:text>
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```

```
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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="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

-->

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1.34 Django 1.10.5

1.34.1 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.

A. HISTORY OF THE SOFTWARE

=====

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	Year	Owner	GPL-
	from			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

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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1.35 django-auth-ldap 1.2.9

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1.36 django-bulk-update 1.1.10

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1.37 django-cors-headers 2.0.2

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1.38 django-redis 4.6.0

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1.39 djangorestframework 3.5.4

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1.40 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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<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/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
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 --go_out=plugins=grpc:. *.proto
```

=====

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- Of course, install the Go compiler and tools from

<https://golang.org/>

See

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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/
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.
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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package example;

enum FOO { X = 17; };

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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;
  }
}
```

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

=====

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

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

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The simplest way is to run

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```
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```
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```

```
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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.
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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.
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msg.Foo = proto.String("hello") // set field
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    required string RequiredField = 5;
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To create and play with a Test object from the example package,

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package main

import (
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```

```

"path/to/example"
)

func main() {
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gogo.proto is located in github.com/gogo/protobuf/gogoprotoc

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Consider file test.proto, containing

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enum FOO { X = 17; };

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

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package main

import (
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func main() {
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    Type: proto.Int32(17),
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
  newTest := &example.Test{}
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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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  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

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

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data, err := proto.Marshal(test)
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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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- 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 {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    // etc.
}
```

gRPC Support

=====

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

=====

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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.

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// Now test and newTest contain the same data.
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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/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
```

=====

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

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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.
}

```

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=====

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

=====

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  err = proto.Unmarshal(data, newTest)
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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/gogoprotos

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/trunk/src/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.

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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.

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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
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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,

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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 extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

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() {
  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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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

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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.

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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
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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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  }
}
```

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

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package main

import (
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        Label: proto.String("hello"),
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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 {
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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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```
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```

=====

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package main

import (
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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)
  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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```
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```

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

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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.

- 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`.

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package main

import (
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 "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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=====

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```
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=====

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 },
 }
 data, err := proto.Marshal(test)
```

```

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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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- 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/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.  
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- 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.
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```

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```
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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;
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"),
 },
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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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 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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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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```

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

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

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```
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```

=====

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```
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 required string label = 1;
 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"

 "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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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.
- 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 {
        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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<http://github.com/gogo/protobuf/gogoproto>

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

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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:

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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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=====

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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
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  optional int32 type = 2 [default=77];
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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),
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      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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See

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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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```
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```

```
=====
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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`.

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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
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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 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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Consider file test.proto, containing

```
package example;
```

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

```
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() {
```

```

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

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Gocheck - A rich testing framework for Go

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

## ## Installation ##

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See

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

=====

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

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

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The simplest way is to run

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```
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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package example;

enum FOO { X = 17; };

message Test {
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  }
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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 {
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newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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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"

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    "path/to/example"
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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() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

```

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```

=====

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```

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```
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)
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  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.
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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.

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

- Constants are defined to hold the default values of all fields that

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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`

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

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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() {
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}
// etc.
}

```

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

=====

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See

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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.

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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
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import (
  "log"

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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)
  }
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```
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```

=====

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

  "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:

```
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```

=====

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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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    required string RequiredField = 5;
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```
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package main  
  
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)  
  
func main() {  
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        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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        log.Fatal("unmarshaling error: ", err)  
    }  
    // Now test and newTest contain the same data.  
    if test.GetLabel() != newTest.GetLabel() {  
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This should be fine, since your import is the same.

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

import (
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func main() {
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
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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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log.Fatal("unmarshaling error: ", err)
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// Now test and newTest contain the same data.
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```
protoc --go_out=plugins=grpc:. *.proto
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```

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```

=====

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```

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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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import (
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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)
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    newTest := &example.Test{}
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```
package main

import (
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  }
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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())
  }
  // etc.
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```

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

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

```
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import (
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=====

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    if err != nil {
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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.
- 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>

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

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

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

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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

```
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.

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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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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](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` 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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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/>

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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>

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

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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.

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.

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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/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` 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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```
msg.Foo = proto.String("hello") // set field
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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"
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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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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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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.
}

```

gRPC Support

=====

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

=====

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The simplest way is to run

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```
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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/trunk/src/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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- 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)
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// Now test and newTest contain the same data.
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}
// etc.
}

```

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```
protoc --go_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](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
```

=====

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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.
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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 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.
}
```

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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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  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 {
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    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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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.

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msg.Foo = proto.String("hello") // set field
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enum FOO { X = 17; };
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  required string label = 1;  
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  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;  
  }  
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package main
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```
import (  
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```

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```

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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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```
protoc --gogo_out=plugins=grpc:. *.proto
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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() {
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
  }
  // etc.
}

```

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 =====

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```
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```

=====

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```
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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 (
  "log"

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

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if err != nil {
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        },
    }
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    if err != nil {
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    }
    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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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
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Its import is google/protobuf/descriptor.proto so it might need some help.

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protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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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"),
    },
  }
  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
```

= Godeps/_workspace/src/github.com/gogo/protobuf/plugin/populate licensed under: =

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

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Using protocol buffers with 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.

```
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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.

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```
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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package example;

enum FOO { X = 17; };

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

=====

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Consider file test.proto, containing

```
package example;
```

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

```

message Test {
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```

package main

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

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 }
}
```

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```
package main

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 "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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See

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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.

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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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
```

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Helpers for getting values are superseded by the

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

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)

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

```
 log.Fatalf("data mismatch %q != %q", 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:

```
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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.

```
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.

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

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```
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import (
 "log"

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```

```

func main() {
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```

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=====

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

```
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 {
 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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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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See

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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.

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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/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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 }
}
```

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

=====

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The simplest way is to run

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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  
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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.  
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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
```

=====

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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 {
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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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 --go_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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    required string RequiredField = 5;
  }
}
```

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```
package main

import (
  "log"

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)

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      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
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  }
  newTest := &example.Test{ }
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  // Now test and newTest contain the same data.
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```

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protoc --gogo_out=plugins=grpc:. *.proto
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<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/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.

- 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>

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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}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN,

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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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Using protocol buffers with 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.

```
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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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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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.

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- \* When upgrading to a new major version,
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## ## 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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keywords: docker, dtr, install, license

redirect\_from:

- /docker-trusted-registry/license/

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## ## Where to go next

\* [Install DTR](index.md)

\* [Install DTR offline](install-dtr-offline.md)

---

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keywords: docker, registry, security, permissions

title: Permission levels

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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

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  
title: License UCP  
---

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### ## 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

---

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### ## Administrator users

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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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`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

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)

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## ## Where to go next

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- \* [Install UCP offline](install-offline.md)

---

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`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.
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### ## Where to go next

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- \* [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\_a

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## 1.41 docker-compose 1.10.0

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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"
#~ "ライセンス 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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## 1.53 glibc/gplv3-subpart 2.23

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## 1.55 gnutls 3.5.10

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## Constant-time SSSE3 AES core implementation.

## version 0.1

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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.

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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.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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Version 2, June 1991

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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
*
*/

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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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## 1.93 netcat 0.7.1

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space on the stuff in the html/pic/ subdirectory
  49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  50. [54]Michael Shields <shields@tembel.org> USNO clock driver
  51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock  
driver
  52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure  
makeover, various other bits (see the ChangeLog)
  53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast  
support
  55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock  
driver
  56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase,  
Solaris issues
  57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing  
(libseccomp) support
  58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic  
TrueTime clock driver
  59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and  
validated HTML documents according to the HTML DTD
- 

## References

1. [mailto:%20takao\\_abe@xurb.jp](mailto:%20takao_abe@xurb.jp)
2. [mailto:%20mark\\_andrews@isc.org](mailto:%20mark_andrews@isc.org)
3. <mailto:%20altmeier@atsoft.de>
4. <mailto:%20vbais@mailman1.intel.co>
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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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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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## References

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>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> icu4c-4.4.1
>>> unicode-5.0
```

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>>> libmspack-0.0.20040308alpha

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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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Version 2.8, 17 August 2003

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>>> icu4c-4.4.1

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## 1.98 openldap 2.4.44

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## THE BASIC LIBRARY FUNCTIONS

-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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>32.12. Notice Processing</H1

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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
>.
</P
></DIV
><DIV
CLASS="NAVFOOTER"
><HR
ALIGN="LEFT"
WIDTH="100%"><TABLE
SUMMARY="Footer navigation table"
WIDTH="100%"
BORDER="0"
CELLPADDING="0"
CELLSPACING="0"
><TR
><TD
WIDTH="33%"
ALIGN="left"
VALIGN="top"
><A
HREF="libpq-misc.html"
ACCESSKEY="P"
>Prev</TD
><TD
WIDTH="34%"
ALIGN="center"
VALIGN="top"
><A
HREF="index.html"
ACCESSKEY="H"
>Home</TD
><TD
WIDTH="33%"
ALIGN="right"
VALIGN="top"
><A
HREF="libpq-events.html"
ACCESSKEY="N"
>Next</TD
></TR
><TR
><TD
WIDTH="33%"
ALIGN="left"
```

```
VALIGN="top"
>Miscellaneous Functions</TD
><TD
WIDTH="34%"
ALIGN="center"
VALIGN="top"
><A
HREF="libpq.html"
ACCESSKEY="U"
>Up</TD
><TD
WIDTH="33%"
ALIGN="right"
VALIGN="top"
>Event System</TD
></TR
></TABLE
></DIV
></BODY
></HTML
>
```

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\*\*\*\*\*

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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 rwdcode;
};

! struct templ specials[1000] =
{
 {"switch", 1},
 {"case", 2},
--- 93,99 ----
 int rwdcode;
};

! 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->rwdcode = 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->rwdcode = 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 stered 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

```

# 1.108 procps-ng 3.3.12

## 1.108.1 Available under license :

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Version 2, June 1991

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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
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2.1	2.0+1.6.1	2001	PSF	no

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+-----+					
2.1.1	2.1+2.0.1	2001	PSF	yes	
+-----+					
2.1.2	2.1.1	2002	PSF	yes	
+-----+					
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#### Mersenne Twister

-----

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

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

Before using, initialize the state by using `init_genrand(seed)`  
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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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MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

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

XML Remote Procedure Calls

-----

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Select kqueue

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`strtod` and `dtoa`

-----

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expat

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## 1.117 python 3.5.2

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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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.2	2.1.1	2002	PSF	yes
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ElementTree
$Id: ElementInclude.py 1862 2004-06-18 07:31:02Z Fredrik $
#
limited xinclude support for element trees
#
history:
2003-08-15 fl created
2003-11-14 fl fixed default loader
#
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#### Mersenne Twister

-----

The :mod:'\_random' module includes code based on a download from  
<http://www.math.keio.ac.jp/matsumoto/MT2002/emt19937ar.html>. The following are  
the verbatim comments from the original code::

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

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matamoto/emt.html>

email: [matamoto@math.keio.ac.jp](mailto:matamoto@math.keio.ac.jp)

## 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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## Floating point exception control

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## MD5 message digest algorithm

-----

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L. Peter Deutsch  
ghost@aladdin.com

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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Cookie management

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#### Execution tracing

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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

## XML Remote Procedure Calls

-----

The :mod:'xmlrpc' module contains the following notice::

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test\_epoll

-----

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Select kqueue

-----

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

/\*

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\*/

# \$echo "\$cfile" | sed 's%^.\*%%' - Provide generalized library-building support services.

# Generated automatically by \$PROGRAM (GNU \$PACKAGE \$VERSION\$TIMESTAMP)

# NOTE: Changes made to this file will be lost: look at ltmain.sh.

#

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/\* microprotocols.c - minimalist and non-validating protocols implementation

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Name: CP1140
Unicode version: 3.2
Table version: 1.0
Table format: Format A
Date: 2005-10-25
Authors: Marc-Andre Lemburg <mal@egenix.com>
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/* -----
```

unicodedata -- Provides access to the Unicode 5.1 data base.

Data was extracted from the Unicode 5.1 UnicodeData.txt file.

Written by Marc-Andre Lemburg (mal@lemburg.com).

Modified for Python 2.0 by Fredrik Lundh (fredrik@pythonware.com)

Modified by Martin v. L"wis (martin@v.loewis.de)

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```
----- */
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```
----- */
/* -----
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```

#### IA64/unix Foreign Function Interface

Original author: Hans Boehm, HP Labs

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----- \*/

/\* Random objects \*/

/\* -----

The code in this module was based on a download from:

<http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html>

It was modified in 2002 by Raymond Hettinger as follows:

\* the principal computational lines untouched except for tabbing.

\* renamed `genrand_res53()` to `random_random()` and wrapped in python calling/return code.

\* `genrand_int32()` and the helper functions, `init_genrand()` and `init_by_array()`, were declared static, wrapped in Python calling/return code. also, their global data references were replaced with structure references.

\* unused functions from the original were deleted.  
new, original C python code was added to implement the `Random()` interface.

The following are the verbatim comments from the original code:

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

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: matumoto@math.keio.ac.jp

\*/

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#

# Module Name: dbShelve.py

#

# Description: A reimplementaion of the standard shelve.py that

# forces the use of cPickle, and DB.

#

# Creation Date: 11/3/97 3:39:04PM

#

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#

# -- Gregory P. Smith <greg@krypto.org>

#

# \$Id: test\_dbtables.py 66088 2008-08-31 14:00:51Z jesus.cea \$

```
Original version written by Greg Stein (gstein@lyra.org)
and Bill Tutt (rassilon@lima.mudlib.org)
February 1997.
#
Modifications and improvements for Python 2.0 by Jeremy Hylton and
Mark Hammond
#
Some fixes to try to have correct line number on almost all nodes
(except Module, Discard and Stmt) added by Sylvain Thenault
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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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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
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## 1.124 python-docker 2.0.2

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## 1.136 rsyslog 8.22.0

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## 1.140 simplegeneric 0.8.1 :1

## 1.141 six 1.10.0

## 1.142 six 1.10.0

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**:3de1687d7432ea9b302c2db9521996f506c140**

**a3**

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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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## 1.145 strict-rfc3339 0.7

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## 1.146 sudo 1.8.19p2

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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](mailto: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  
Frysinger, 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.  
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Jackson, Brian  
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Jorge, Joel Pele  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
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Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren

Moldung, Jan Thomas  
Morris, Charles  
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Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
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Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
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SATO, Yuichi  
Snchez, Wilfredo  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
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Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
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Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
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Stroucken, Michael  
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Todd, Giles  
Toft, Martin  
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Tucker, Darren  
Uhl, Robert  
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Valery, Reznic  
Van Dinter, Theo  
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de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
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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  
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Hein, Jochen  
Hufthammer, Karl Ove  
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Krznar, Tomislav  
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Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
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Uranga, Mikel Olasagasti  
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Wang, Wylmer

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## 1.147 syslinux 6.03

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\*

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\*

\*/

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## 1.157 webcolors 1.7

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## 1.158 websocket-client 0.40.0

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Version 3, 29 June 2007

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## 1.160 wsgiref 0.1.2

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