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

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

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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1.2 alpine-keys 2.1 :1

1.3 ansible 2.3.1.0 :1.e17

1.3.1 Available under license :

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It was downloaded from <https://github.com/ansible/ansible.git>

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Version 3, 29 June 2007

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1.4 apk-tools 2.7.1 :1

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1.5 apr 1.4.8 :3.el7

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```
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

*
* cvt - IEEE floating point formatting routines.

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1.6 apr-util 1.5.2 :6.e17

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

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

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```
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This is free software, and you are welcome to redistribute it  
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```

The hypothetical commands `show w' and `show c' should show the appropriate

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1.8 atk 2.14.0 :1.e17

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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1.9 atkmm 2.22.7 :3.e17

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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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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1.10 attr 2.4.46 :12.e17

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1.12 bash-completion 2.1 :6.e17

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```
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#
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#
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```

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1.13 bc 1.06.95 :13.el7

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.25 conntrack-tools 1.4.4 :3.el7_3

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1.26 container-selinux 2.19 :2.1.el7

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```

```
<signature of Ty Coon>, 1 April 1989
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1.29 cryptsetup 1.7.2 :1.e17

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Preamble

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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

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

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
```

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

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

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

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
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library. If this is what you want to do, use the GNU Library General
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a

program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.31 deltarpm 3.6 :3.e17

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1.32 device-mapper-persistent-data 0.6.3

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

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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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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>

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

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FUNCTIONS

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

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

TYPES

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

Structure to represent a clause in an HTTP Accept Header

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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}
```

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

=====

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

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.

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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/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.

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

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

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

All desired fields must be set before marshaling.

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

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

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

- Repeated fields are slices.

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

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

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

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

Because the getter methods handle defaulted values,

direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

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

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

```
package main

import (
  "log"

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

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

```

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

```

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

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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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The simplest way is to run

```
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```

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```
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gogo.proto is located in github.com/gogo/protobuf/gogoproto
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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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}
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To create and play with a Test object from the example package,

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package main

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        Label: proto.String("hello"),
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        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
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        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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The simplest way is to run

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

```
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
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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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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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)
```

```

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

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=====

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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.

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

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

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

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Using protocol buffers with Go
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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.

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protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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 data, err := proto.Marshal(test)
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```

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

```
 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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- 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

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



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

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

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

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

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

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

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

=====

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

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

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

- Helper functions are available to aid the setting of fields.  
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.  
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.  
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

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

```
package main

import (
 "log"

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

```

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

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

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

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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.

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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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=====

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

```
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```
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```
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```

=====

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- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

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

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

```

package main

import (
    "log"

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

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

=====

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

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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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descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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```
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    },
  }
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  }
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  if test.GetLabel() != newTest.GetLabel() {
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  }
}
```

```
}  
// etc.  
}
```

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```
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```

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

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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/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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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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GetFoo methods and their use is deprecated.

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

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Consider file test.proto, containing

```
package example;
```

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

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

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

```
package main
```

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

```
func main() {
```



```

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

```

gRPC Support

=====

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

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

=====

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```

```

optional int32 type = 2 [default=77];
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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"
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func main() {
    test := &example.Test {
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    data, err := proto.Marshal(test)
    if err != nil {
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    }
    newTest := &example.Test{ }
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    }
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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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    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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```
protoc --go_out=plugins=grpc:. *.proto
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        },
    }
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    if err != nil {
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```

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```
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=====

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=====

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)
```

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

```

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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)
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=====

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Extensions for Protocol Buffers to create more go like structures.

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

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

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

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This 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

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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.

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
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=====

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

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

```
package example;

enum FOO { X = 17; };

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

```

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

```

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

```

package main

import (
  "log"

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

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

gRPC Support

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

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

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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` so it might need some help.

```
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
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  optional group OptionalGroup = 4 {
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  }
}
```

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

```
package main

import (
  "log"

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  "path/to/example"
)

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

```

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

```

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```
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```

=====

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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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- 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;
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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 {
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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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    }
    // etc.
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```

gRPC Support

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

=====

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

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

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

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

Installation

To use this software, you must:

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

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

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

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

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

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

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

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

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

There is support for gRPC in Go using protocol buffers.

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

There are no insertion points in the plugin.

Using protocol buffers with Go

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

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

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

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

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

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

=====

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

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

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

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

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

Consider file test.proto, containing

```
```proto
package example;

enum FOO { X = 17; };

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

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

```
```go
package main

import (
 "log"

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

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

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

```

## Parameters ##

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

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

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

## gRPC Support ##

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

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

=====

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

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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  
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## 1.39 fontpackages 1.44 :8.e17

### 1.39.1 Available under license :

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Version 3, 29 June 2007

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## 1.40 gawk 4.0.2 :4.e17\_3.1

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Version 2, June 1991

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to

use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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Section 6 states terms for distribution of such executables.

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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 compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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## 1.42 glibc 2.17 :157.el7\_3.4

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

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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.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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## 1.43 glibmm24 2.42.0 :1.e17

### 1.43.1 Available under license :

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 */
```

```
#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncreult.h>
```

```
_DEFS(giomm,gio)
_PINCLUDE(glibmm/private/object_p.h)
_PINCLUDE(gio/gio.h)
```

```
namespace Gio
{
```

```
/** An object representing the permission to perform a certain action.
 *
 * A Permission represents the status of the caller's permission to
 * perform a certain action.
 *
 * You can query if the action is currently allowed and if it is
 * possible to acquire the permission so that the action will be allowed
 * in the future.
 *
 * There is also an API to actually acquire the permission and one to
 * release it.
```



```

*
* As an example, a Permission might represent the ability for the
* user to write to a Settings object. This Permission object could
* then be used to decide if it is appropriate to show a "Click here to
* unlock" button in a dialog and to provide the mechanism to invoke
* when that button is clicked.
*
* @newin{2,42}
*/
class Permission : public Glib::Object
{
 _CLASS_GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

 _WRAP_METHOD(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire,
errthrow)
 _WRAP_METHOD(void acquire_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_acquire_async, slot_name slot, slot_callback
SignalProxy_async_callback)
 _WRAP_METHOD(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish,
errthrow)

 _WRAP_METHOD(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release,
errthrow)
 _WRAP_METHOD(void release_async(const SlotAsyncReady& slot{callback}, const
Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_release_async, slot_name slot, slot_callback
SignalProxy_async_callback)
 _WRAP_METHOD(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish,
errthrow)

 _WRAP_METHOD(bool get_allowed() const, g_permission_get_allowed)
 _WRAP_METHOD(bool get_can_acquire() const, g_permission_get_can_acquire)
 _WRAP_METHOD(bool get_can_release() const, g_permission_get_can_release)

 _WRAP_PROPERTY("allowed", bool)
 _WRAP_PROPERTY("can-acquire", bool)
 _WRAP_PROPERTY("can-release", bool)

protected:

 _CTOR_DEFAULT

 // A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
 #m4 _CONVERSION(`GAsyncResult*',`const Glib::RefPtr<AsyncResult>&`,`Glib::wrap($3, true)')
 #m4 _CONVERSION(`GCancellable*',`const Glib::RefPtr<Cancellable>&`,`Glib::wrap($3, true)')

 _WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable), acquire, errthrow)

```

```

_WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{.}), acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)
_WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)

_WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable), release, errthrow)
_WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>&
cancellable{.}), release_async, slot_name slot, slot_callback SignalProxy_async_callback)
_WRAP_VFUNC(bool release_finish(const Glib::RefPtr<AsyncResult>& result), release_finish, errthrow)

// You should never call this function except from a Gio::Permission implementation.
_WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release),
g_permission_impl_update)
};

} // namespace Gio
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*/

#include <gio/gio.h>
#include "slot_async.h"

namespace Gio
{
} // namespace Gio

```

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4971afdc2f162e82d185353533d3cf16188a9f4e

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## 1.46 grafana 4.1.2

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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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



Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the

library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.



However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

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## 1.51 haproxy 1.5.18 :3.e17\_3.1

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## 1.52 harfbuzz 0.9.36 :1.e17

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## 1.55 httpd 2.4.6 :45.el7.centos.4

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XX
X
 This file is generated from xml source: DO NOT EDIT
XX
X
 -->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"></div>
<div id="path">
Apache > HTTP Server > Documentation > Version 2.4</div><div id="page-
```

content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>  
<div class="toplang">  
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>  
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<p class="centered">Apache License<br />  
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</div>

</div>

<div class="bottomlang">

<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>

</div><div class="top"><a href="#page-header"></a></div><div

class="section"><h2><a id="comments\_section" name="comments\_section">Comments</a></h2><div

class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our

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

var comments\_shortcode = 'httpd';

var comments\_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments\_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show\_comments.lua?site=' + comments\_shortcode + '&page=' +

comments\_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments\_thread">Comments are disabled for this page at the moment.</div>');

}

})(window, document);

```
!--><![></script></div><div id="footer">
<p class="apache">Copyright 2013 The Apache Software Foundation.
Licensed under the Apache License, Version 2.0.</p>
<p class="menu">Modules | Directives | FAQ | Glossary | Sitemap</p></div><script type="text/javascript"><!--><![CDATA[<!--
if (typeof(prettyPrint) !== 'undefined') {
 prettyPrint();
}
--><![></script>
</body></html>
```

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 * -----
 */
```

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```
/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 *
 */
 *
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 *
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For the srclib\apr-util\xml\expat\conftools\install-sh component:

```

install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).

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#
```

For the test\zb.c component:

/\* ZeusBench V1.01

=====

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

\*/

For the expat xml parser component:

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## 1.57 ipvsadm 1.27 :7.el7

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-----  
ipvsadm - Version 1.14 - 11th January 2001

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ipvsadm is a utility to administer the IP virtual server services offered by the Linux kernel with IP virtual server support.

This version of ipvsadm requires IPVS module v0.0.5 for kernel 2.4 or later. Check out the Linux Virtual Server Project home page on the World Wide Web:

<http://www.LinuxVirtualServer.org/>

or

<http://www.Linux-VS.org/>

for the most recent information and original sources about ipvsadm.

To make, make sure your Linux kernel is already patched with IPVS and "make menuconfig" or "make xconfig" to setup the right compiling options, see the README of the virtual server patch for detail, then simply type  
make  
in the source directory.

Install to your liking. We suggest the following pathnames:

/sbin/ipvsadm

/usr/man/man8/ipvsadm.8

This will be done automatically when calling  
make install  
in the source directory.

Wensong Zhang <wensong@linuxvirtualserver.org>

---

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## 1.58 iscsi-initiator-utils 6.2.0.873 :35.el7

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```

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```

```
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```
Jan Holmberg, <jan@artech.net> :
o Memory framework
o HTTP/SSL checkers
```

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont\_track\_primary, nopreempt, preempt\_delay, and misc\_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u\_threshold and l\_threshold support.

Willy Tarreau, <w at 1wt.eu> :

- o Extended VRRP framework to support floating priority.

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```
<one line to give the program's name and a brief idea of what it does.>
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```

```
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```
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```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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Jan Holmberg, <jan@artech.net> :

- o Memory framework
- o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :

- o MISC checker redesign
- o Scheduler framework extension to support child process handling.
- o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :

- o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :

- o Added dont\_track\_primary, nopreempt, preempt\_delay, and misc\_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :

- o Fixed shadowed declaration reported by -Wshadow.
- o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :

- o Patch for u\_threshold and l\_threshold support.

Willy Tarreau, <w at lwt.eu> :

- o Extended VRRP framework to support floating priority.

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```

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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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
```

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 \*  
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 \* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*  
 \*/

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## 1.67 libbasicobjects 0.1.1-27.el7.x86\_64.

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Version 3, 29 June 2007

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/\*

Simple buffer

Basic buffer manipulation routines. Taken from ELAPI code.

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\*/

```
#ifndef ELAPI_SIMPLEBUFFER_H
```

```
#define ELAPI_SIMPLEBUFFER_H
```

```
#include <stdint.h>
```

```
#ifndef EOK
```

```
#define EOK 0
```

```
#endif
```

```
/* Generic data structure for the buffer */
```

```
struct simplebuffer {
```

```
 unsigned char *buffer;
```

```
 uint32_t size;
```

```

 uint32_t length;
};

/* Function to free data */
void simplebuffer_free(struct simplebuffer *data);

/* Allocate data structure */
int simplebuffer_alloc(struct simplebuffer **data);

/* Function to add memory to the buffer */
int simplebuffer_grow(struct simplebuffer *data,
 uint32_t len,
 uint32_t block);

/* Function to add raw data to the end of the buffer.
 * Terminating 0 is not counted in length but appended
 * automatically.
 */
int simplebuffer_add_raw(struct simplebuffer *data,
 void *data_in,
 uint32_t len,
 uint32_t block);

/* Function to add string to the buffer.
 * Same as above just uses string as an argument.
 */
int simplebuffer_add_str(struct simplebuffer *data,
 const char *str,
 uint32_t len,
 uint32_t block);

/* Function to add CR to the buffer */
int simplebuffer_add_cr(struct simplebuffer *data);

/* Function to write data synchronously */
int simplebuffer_write(int fd,
 struct simplebuffer *data,
 uint32_t *left);

/* Get buffer */
const unsigned char *simplebuffer_get_buf(struct simplebuffer *data);

/* Get buffer */
void *simplebuffer_get_vbuf(struct simplebuffer *data);

```



```
/* Get length */
uint32_t simplebuffer_get_len(struct simplebuffer *data);

#endif
```

## 1.68 libc-dev 0.7.1 :0

## 1.69 libdrm 2.4.67 :3.el7

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# 1.71 libldb 1.1.26 :1.e17

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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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```
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Ty Coon, President of Vice
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## 1.77 libpng 1.5.13 :7.el7\_2

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September 27, 2012

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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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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it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library



creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

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Version 2.1, February 1999

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## 1.88 libXau 1.0.8 :2.1.e17

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## 1.94 libXfixes 5.0.1 :2.1.e17

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## 1.95 libXft 2.3.2 :2.e17

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## 1.96 libXi 1.7.4 :2.e17

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## 1.97 libXinerama 1.1.3 :2.1.e17

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## 1.99 libXrender 0.9.8 :2.1.el7

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# 1.100 libxshmfence 1.2 :1.e17

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```
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# 1.104 Im\_sensors 3.4.0

## :4.20160601gitf9185e5.el7

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Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

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/\*  
\* imap\_gssapi.c is partially derived from sample code in:  
\* GSS-API Programming Guide  
\* Part No: 816-1331-11  
\* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.  
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*/
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```
/* md5.h and md5.c are derived from RFC 1321:
```

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=====

```
/*
```



\* hmac.c is derived from:

Network Working Group      H. Krawczyk  
Request for Comments: 2104      IBM  
Category: Informational      M. Bellare  
                                 UCSD  
                                 R. Canetti  
                                 IBM  
                                 February 1997

## HMAC: Keyed-Hashing for Message Authentication

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### Appendix -- Sample Code

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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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## 1.110 mesa 11.2.2 :2.20160614.e17

### 1.110.1 Available under license :

Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:50 PM  
To: Tom Callaway <tcallawa@redhat.com>  
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,  
Jorge

From: Tom Callaway <tcallawa@redhat.com>  
Sent: January 8, 2013 6:49 PM  
To: Jorge Jimenez <iryoku@gmail.com>  
CC: jorge@iryoku.com  
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

- > Hi Tom,
- >
- > What we meant with that is that we made an exception for clause 2.
- > Instead of clause 2, in the case of the Mesa project, you have to name
- > the technique Jimenez's MLAA in the config options of Mesa. We did that
- > just to allow them to solve license issues. This exception should be for
- > the Mesa project, and any project using Mesa, like Fedora.
- >
- > We want to widespread usage of our MLAA, so we want to avoid any kind of
- > license complications. Hope current one is good for Fedora, if not

> please tell, and we'll see what we can do!

Okay, a few more questions:

\* If Fedora decides to simply reproduce the quoted statement:  
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,  
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with  
Mesa, is that sufficient to meet clause 2 even if the Mesa config option  
is not set as described in your exception?

\* Currently, the Mesa config option for MLAA says: "Morphological  
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default  
quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:39 PM  
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.  
Instead of clause 2, in the case of the Mesa project, you have to name  
the technique Jimenez's MLAA in the config options of Mesa. We did that  
just to allow them to solve license issues. This exception should be for  
the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of  
license complications. Hope current one is good for Fedora, if not  
please tell, and we'll see what we can do!

Cheers,  
Jorge

From: Tom Callaway <tcallawa@redhat.com>  
Sent: January 8, 2013 6:30 PM  
To: jorge@iryoku.com  
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

- \* 2. Redistributions in binary form must reproduce the following statement:
- \*
- \* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
- \* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
- \*
- \* Only for use in the Mesa project, this point 2 is filled by naming the
- \* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

\*\*\*\*\*

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway  
Fedora Legal

==

Fedora Project

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# 1.111 musl 1.1.16 :9

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.  
<http://www.lua.org/>
- o OpenSSL: Cryptographic library. OpenSSL is used by service detection

and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.

<http://www.openssl.org/>

o LIBLINEAR. Used for IPv6 OS classification.

<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>

o libsvn. The Subversion library, used by the updater program

`nmap-update`. <http://subversion.apache.org/>

o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory `mswin32/winpcap`.

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Zenmap and Ndiff require:

o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either `py2exe` or `py2app`.

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The Windows and Mac OS X binary packages include bundled versions of:

o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file `licenses/LGPL-2`.

<http://www.gtk.org/>

o Cairo: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files `licenses/LGPL-2.1` and `licenses/MPL-1.1`.

<http://www.cairographics.org/>

o libgailutil: Accessibility support for GTK+.

o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.

<http://www.libpng.org/> <http://www.ijg.org/> <http://www.libtiff.org/>

o zlib and bzip2: compression libraries.

<http://www.zlib.org/> <http://www.bzip.org/>

o Expat: XML parser library.

<http://expat.sourceforge.net/>

o fontconfig: font configuration library.

<http://www.fontconfig.org/>

o FreeType: font rendering library.

<http://www.freetype.org/>

o libiconv. Under the GNU LGPL 2.

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o libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.

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o libxml2: XML parsing library.

<http://xmlsoft.org/>

o SQLite.

<http://www.sqlite.org/>

o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.

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

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## 1.115 nodejs 6.10.3

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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// Original can be found at:

// <https://bitbucket.org/lindenlab/lld>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>



```
// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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```

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validate-npm-package-license

=====

Give me a string and I'll tell you if it's a valid npm package license string.

```
```javascript
var valid = require('validate-npm-package-license');
```
```

SPDX license identifiers are valid license strings:

```
```javascript

var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```
```



...

The function will return a warning and suggestion for nearly-correct license identifiers:

```
```javascript
assert.deepEqual(
  valid('Apache 2.0'),
  {
    validForOldPackages: false,
    validForNewPackages: false,
    warnings: [
      'license should be ' +
      'a valid SPDX license expression (without "LicenseRef"), ' +
      "'UNLICENSED', or ' +
      "'SEE LICENSE IN <filename>",
      'license is similar to the valid expression "Apache-2.0"'
    ]
  }
);
```
```

SPDX expressions are valid, too ...

```
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0 OR BSD-2-Clause)'),
  validSPDXExpression
);
```
```

... except if they contain `LicenseRef`:

```
```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    "'UNLICENSED', or ' +
    "'SEE LICENSE IN <filename>",
  ]
};

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);
```
```

```
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
...

```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```
```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

```

```
assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
...

```

If there aren't any licensing terms, use `UNLICENSED`:

```
```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
...

```

```
```javascript
var parse = require('spdx-expression-parse')
var assert = require('assert')

var firstAST = {
  left: { license: 'LGPL-2.1' },

```

```

conjunction: 'or',
right: {
  left: { license: 'BSD-3-Clause' },
  conjunction: 'and',
  right: { license: 'MIT' } } }

assert.deepEqual(
  parse('(LGPL-2.1 OR BSD-3-Clause AND MIT)'),
  firstAST)

var secondAST = {
  left: { license: 'MIT' },
  conjunction: 'and',
  right: {
    left: {
      license: 'LGPL-2.1',
      plus: true },
    conjunction: 'and',
    right: { license: 'BSD-3-Clause' } } }

assert.deepEqual(
  parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause))'),
  secondAST)

```

// We handle all the bare SPDX license and exception ids as well.

```

require('spdx-license-ids').forEach(function(id) {
  assert.deepEqual(
    parse(id),
    { license: id })
  require('spdx-exceptions').forEach(function(e) {
    assert.deepEqual(
      parse(id + ' WITH ' + e),
      { license: id, exception: e } ) }) })
...

```

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Installation

Package managers

[npm](https://www.npmjs.com/)

```
```sh
npm install spdx-license-ids
```
```

[bower](http://bower.io/)

```
```sh
bower install spdx-license-ids
```
```

[Duo](http://duojs.org/)

```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```
```

Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

API

spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```
```javascript
```

```
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ...]
^^^
```

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```
```\njavascript\nvar correct = require('spdx-correct');\nvar assert = require('assert');\n\nassert.equal(correct('mit'), 'MIT')\n\nassert.equal(correct('Apache 2'), 'Apache-2.0')\n\nassert(correct('No idea what license') === null)\n```\nSPDX:Apache-2.0
```

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Written by: Philip Hazel
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*/

#ifndef UV_BSD_H

```

#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
int rcount; \
int wcount; \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
{
  "_args": [
    [
      "spdx-license-ids@^1.0.0",
      "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-expression-parse"
    ],
    [
      "spdx-license-ids@^1.0.2",
      "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-correct"
    ]
  ],
  "_from": "spdx-license-ids@>=1.0.0 <2.0.0",
  "_id": "spdx-license-ids@1.2.0",
  "_inCache": true,
  "_installable": true,
  "_location": "/validate-npm-package-license/spdx-expression-parse/spdx-license-ids",
  "_nodeVersion": "5.4.0",
  "_npmUser": {
    "email": "snnskwtnb@gmail.com",
    "name": "shinnn"
  },
  "_npmVersion": "3.5.2",
  "_phantomChildren": {},
  "_requested": {
    "name": "spdx-license-ids",
    "raw": "spdx-license-ids@^1.0.0",
    "rawSpec": "^1.0.0",
    "scope": null,
    "spec": ">=1.0.0 <2.0.0",
    "type": "range"
  },
  "_requiredBy": [
    "/validate-npm-package-license/spdx-expression-parse"
  ],
  "_shrinkwrap": null,
  "_spec": "spdx-license-ids@^1.0.0",

```

```

"_where": "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-expression-
parse",
"author": {
  "name": "Shinnosuke Watanabe",
  "url": "https://github.com/shinnn"
},
"bugs": {
  "url": "https://github.com/shinnn/spdx-license-ids/issues"
},
"dependencies": {},
"description": "A list of SPDX license identifiers",
"devDependencies": {
  "@shinnc/eslintc": "^1.0.0",
  "each-async": "^1.1.1",
  "eslint": "^0.24.0",
  "got": "^3.3.0",
  "istanbul": "^0.3.17",
  "require-bower-files": "^2.0.0",
  "rimraf": "^2.4.1",
  "stringify-object": "^2.2.0",
  "tape": "^4.0.0"
},
"directories": {},
"dist": {
  "shasum": "b549dd0f63dcb745a17e2ea3a07402e0e332d1e2",
  "tarball": "http://registry.npmjs.org/spdx-license-ids/-/spdx-license-ids-1.2.0.tgz"
},
"files": [
  "spdx-license-ids.json"
],
"gitHead": "f74a7a16ca05540e0e97f1bbb61da07829b5d9ab",
"homepage": "https://github.com/shinnc/spdx-license-ids#readme",
"keywords": [
  "array",
  "browser",
  "client-side",
  "id",
  "identifier",
  "identifiers",
  "json",
  "license",
  "licenses",
  "oss",
  "spdx"
],
"license": "Unlicense",
"main": "spdx-license-ids.json",
"maintainers": [

```

```

{
  "name": "shinnn",
  "email": "snnskwtb@gmail.com"
}
],
"name": "spdx-license-ids",
"optionalDependencies": {},
"readme": "ERROR: No README data found!",
"repository": {
  "type": "git",
  "url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"scripts": {
  "build": "node --harmony_arrow_functions build.js",
  "coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
  "coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls",
  "lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
  "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
  "test": "node --harmony_arrow_functions test.js"
},
"version": "1.2.0"
}
[
"Glide",
"Abstyles",
"AFL-1.1",
"AFL-1.2",
"AFL-2.0",
"AFL-2.1",
"AFL-3.0",
"AMPAS",
"APL-1.0",
"Adobe-Glyph",
"APAFML",
"Adobe-2006",
"AGPL-1.0",
"Afmparse",
"Aladdin",
"ADSL",
"AMDPLPA",
"ANTLR-PD",
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"Apache-1.1",
"Apache-2.0",
"AML",
"APSL-1.0",
"APSL-1.1",
"APSL-1.2",

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"Artistic-1.0",
"Artistic-1.0-Perl",
"Artistic-1.0-cl8",
"Artistic-2.0",
"AAL",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"BSL-1.0",
"Borceux",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",
"BSD-3-Clause",
"BSD-3-Clause-Clear",
"BSD-4-Clause",
"BSD-Protection",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"CIArtistic",
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"CC-BY-NC-ND-4.0",
"CC-BY-NC-SA-1.0",
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"GPL-2.0-with-bison-exception",
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"WXwindows"
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"Classpath-exception-2.0",
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"Font-exception-2.0",
"GCC-exception-2.0",
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"LZMA-exception",
"Libtool-exception",
"Nokia-Qt-exception-1.1",
"Qwt-exception-1.0",
"WxWindows-exception-3.1",
"eCos-exception-2.0",
"freertos-exception-2.0",
"gnu-javamail-exception",
"i2p-gpl-java-exception",
"mif-exception",
"u-boot-exception-2.0"
]
{
  "_args": [
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      "spdx-exceptions@^1.0.4",
      "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-expression-parse"
    ]
  ],
  "_from": "spdx-exceptions@>=1.0.4 <2.0.0",
  "_id": "spdx-exceptions@1.0.4",
  "_inCache": true,
  "_installable": true,
  "_location": "/validate-npm-package-license/spdx-expression-parse/spdx-exceptions",
  "_nodeVersion": "5.0.0",
  "_npmUser": {
    "email": "kyle@kemitchell.com",
    "name": "kemitchell"
  },
}

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"_npmVersion": "3.3.6",
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  "type": "range"
},
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],
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  "name": "The Linux Foundation"
},
"bugs": {
  "url": "https://github.com/kemitchell/spdx-exceptions.json/issues"
},
"contributors": [
  {
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "https://kemitchell.com/"
  }
],
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"devDependencies": {},
"directories": {},
"dist": {
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  "tarball": "http://registry.npmjs.org/spdx-exceptions/-/spdx-exceptions-1.0.4.tgz"
},
"gitHead": "770316d6c946417ab6efa8533b82d0b61779092b",
"homepage": "https://github.com/kemitchell/spdx-exceptions.json#readme",
"license": "CC-BY-3.0",
"maintainers": [
  {
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
  }
]

```

```

    ],
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    "optionalDependencies": {},
    "readme": "ERROR: No README data found!",
    "repository": {
      "type": "git",
      "url": "git+https://github.com/kemitchell/spdx-exceptions.json.git"
    },
    "scripts": {},
    "version": "1.0.4"
  }
}
var parser = require('./parser.generated.js').parser

module.exports = function(argument) {
  return parser.parse(argument) }
var spdxparse=function(){var o=function(k,v,o,l){for(o=o||{};l=k.length;l--;o[k[l]]=v);return
o},$V0=[1,5],$V1=[1,6],$V2=[1,7],$V3=[1,4],$V4=[1,9],$V5=[1,10],$V6=[5,14,15,17],$V7=[5,12,14,15,17];var
parser={trace:function
trace(){},yy:{},symbols_{error:2,start:3,expression:4,EOS:5,simpleExpression:6,LICENSE:7,PLUS:8,LICENSER
EF:9,DOCUMENTREF:10,COLON:11,WITH:12,EXCEPTION:13,AND:14,OR:15,OPEN:16,CLOSE:17,$accept:0
,$end:1},terminals_{2:"error",5:"EOS",7:"LICENSE",8:"PLUS",9:"LICENSEREF",10:"DOCUMENTREF",11:"C
OLON",12:"WITH",13:"EXCEPTION",14:"AND",15:"OR",16:"OPEN",17:"CLOSE"},productions_{0:[3,2],[6,1],[
6,2],[6,1],[6,3],[4,1],[4,3],[4,3],[4,3],[4,3]},performAction:function
anonymous(yytext,yyleng,yylineno,yy,yystate,$$,$_){var $0=$$.length-1;switch(yystate){case 1:return
this.$=$$[$0-1];break;case 2:case 4:case 5:this.$={license:yytext};break;case 3:this.$={license:$[$0-
1],plus:true};break;case 6:this.$=$$[$0];break;case 7:this.$={exception:$[$0]};this$.license=$$[$0-
2].license;if($$[$0-2].hasOwnProperty("plus")){this$.plus=$$[$0-2].plus}break;case
8:this.$={conjunction:"and",left:$[$0-2],right:$[$0]};break;case 9:this.$={conjunction:"or",left:$[$0-
2],right:$[$0]};break;case 10:this.$=$$[$0-
1];break}},table:[{3:1,4:2,6:3,7:$V0,9:$V1,10:$V2,16:$V3},{1:[3]},{5:[1,8],14:$V4,15:$V5},o($V6,[2,6]},{12:[1,1
1]},{4:12,6:3,7:$V0,9:$V1,10:$V2,16:$V3},o($V7,[2,2]},{8:[1,13]},{11:[1,14]},{1:[2,1]},{4:15,6:3,7
:$V0,9:$V1,10:$V2,16:$V3},{4:16,6:3,7:$V0,9:$V1,10:$V2,16:$V3},{13:[1,17]},{14:$V4,15:$V5,17:[1,18]},o($
V7,[2,3]},{9:[1,19]},o($V6,[2,8]),o([5,15,17],[2,9]},{14:$V4},o($V6,[2,7]),o($V6,[2,10]),o($V7,[2,5])],defaultActi
ons:{8:[2,1]},parseError:function parseError(str,hash){if(hash.recoverable){this.trace(str)}else{throw new
Error(str)}},parse:function parse(input){var
self=this,stack=[0],tstack=[],vstack=[null],lstack=[],table=this.table,yytext="",yylineno=0,yyleng=0,recovering=0,T
ERROR=2,EOF=1;var args=lstack.slice.call(arguments,1);var lexer=Object.create(this.lexer);var
sharedState={yy:{}};for(var k in
this.yy){if(Object.prototype.hasOwnProperty.call(this.yy,k){sharedState.yy[k]=this.yy[k]}}lexer.setInput(input,sha
redState.yy);sharedState.yy.lexer=lexer;sharedState.yy.parser=this;if(typeof
lexer.yylloc=="undefined"){lexer.yylloc={}}var yyloc=lexer.yylloc;lstack.push(yyloc);var
ranges=lexer.options&&lexer.options.ranges;if(typeof
sharedState.yy.parseError=="function"){this.parseError=sharedState.yy.parseError}else{this.parseError=Object.ge
tPrototypeOf(this).parseError}function popStack(n){stack.length=stack.length-2*n;vstack.length=vstack.length-
n;lstack.length=lstack.length-n}_token_stack:function lex(){var token;token=lexer.lex()||EOF;if(typeof
token!="number"){token=self.symbols_[token]||token}return token}var
symbol,preErrorSymbol,state,action,a,r,yyval={},p,len,newState,expected;while(true){state=stack[stack.length-
1];if(this.defaultActions[state]){action=this.defaultActions[state]}else{if(symbol===null||typeof

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symbol=="undefined"){symbol=lex()}action=table[state]&&table[state][symbol]}if(typeof
action==="undefined"||!action.length||!action[0]){var errStr="";expected=[];for(p in
table[state]){if(this.terminals_[p]&&p>TERROR){expected.push(""+this.terminals_[p]+"")}if(lexer.showPosition
){errStr="Parse error on line "+(yylineno+1)+"\n"+lexer.showPosition()+"\nExpecting "+expected.join(",")+", got
"+(this.terminals_[symbol]||symbol)+""}else{errStr="Parse error on line "+(yylineno+1)+"\nUnexpected
"+(symbol=="EOF?"end of
input":""+(this.terminals_[symbol]||symbol)+"")}this.parseError(errStr,{text:lexer.match,token:this.terminals_[sym
bol]||symbol,line:lexer.yylineno,loc:yyloc,expected:expected})}if(action[0]instanceof
Array&&action.length>1){throw new Error("Parse Error: multiple actions possible at state: "+state+", token:
"+symbol)}switch(action[0]){case
1:stack.push(symbol);vstack.push(lexer.yytext);lstack.push(lexer.yylloc);stack.push(action[1]);symbol=null;if(!preE
rrorSymbol){yylen=lexer.yylen;yytext=lexer.yytext;yylineno=lexer.yylineno;yyloc=lexer.yylloc;if(recovering>0)
{recovering--}else{symbol=preErrorSymbol;preErrorSymbol=null}break;case
2:len=this.productions_[action[1]][1];yyval.$=vstack[vstack.length-len];yyval._$={first_line:lstack[lstack.length-
(len||1)].first_line,last_line:lstack[lstack.length-1].last_line,first_column:lstack[lstack.length-
(len||1)].first_column,last_column:lstack[lstack.length-
1].last_column};if(ranges){yyval._$.range=[lstack[lstack.length-(len||1)].range[0],lstack[lstack.length-
1].range[1]}r=this.performAction.apply(yyval,[yytext,yylen,yylineno,sharedState.yy,action[1],vstack,lstack].conc
at(args));if(typeof r!="undefined"){return r}if(len){stack=stack.slice(0,-1*len*2);vstack=vstack.slice(0,-
1*len);lstack=lstack.slice(0,-
1*len)}stack.push(this.productions_[action[1]][0]);vstack.push(yyval.$);lstack.push(yyval._$);newState=table[stack
[stack.length-2]][stack[stack.length-1]];stack.push(newState);break;case 3:return true}return true}};var
lexer=function(){var lexer={EOF:1,parseError:function
parseError(str,hash){if(this.yy.parser){this.yy.parser.parseError(str,hash)}else{throw new
Error(str)}},setInput:function(input,yy){this.yy=yy||this.yy||{};this._input=input;this._more=this._backtrack=this.do
ne=false;this.yylineno=this.yylen=0;this.yytext=this.matched=this.match="";this.conditionStack=["INITIAL"];this.
yylloc={first_line:1,first_column:0,last_line:1,last_column:0};if(this.options.ranges){this.yylloc.range=[0,0]}this.of
fset=0;return this},input:function(){var
ch=this._input[0];this.yytext+=ch;this.yylen++;this.offset++;this.match+=ch;this.matched+=ch;var
lines=ch.match(/(?:\r\n?|\n).*/g);if(lines){this.yylineno++;this.yylloc.last_line++}else{this.yylloc.last_column++}if(
this.options.ranges){this.yylloc.range[1]++}this._input=this._input.slice(1);return ch},unput:function(ch){var
len=ch.length;var
lines=ch.split(/(?:\r\n?|\n)/g);this._input=ch+this._input;this.yytext=this.yytext.substr(0,this.yytext.length-
len);this.offset-=len;var oldLines=this.match.split(/(?:\r\n?|\n)/g);this.match=this.match.substr(0,this.match.length-
1);this.matched=this.matched.substr(0,this.matched.length-1);if(lines.length-1){this.yylineno-=lines.length-1}var
r=this.yylloc.range;this.yylloc={first_line:this.yylloc.first_line,last_line:this.yylineno+1,first_column:this.yylloc.firs
t_column,last_column:lines?(lines.length===oldLines.length?this.yylloc.first_column:0)+oldLines[oldLines.length-
lines.length].length-lines[0].length:this.yylloc.first_column-
len};if(this.options.ranges){this.yylloc.range=[r[0],r[0]+this.yylen-len]}this.yylen=this.yytext.length;return
this},more:function(){this._more=true;return
this},reject:function(){if(this.options.backtrack_lexer){this._backtrack=true}else{return this.parseError("Lexical
error on line "+(this.yylineno+1)+"\n. You can only invoke reject() in the lexer when the lexer is of the backtracking
persuasion (options.backtrack_lexer = true).\n"+this.showPosition(),{text:"",token:null,line:this.yylineno})}return
this},less:function(n){this.unput(this.match.slice(n))},pastInput:function(){var
past=this.matched.substr(0,this.matched.length-this.match.length);return(past.length>20?"...":"""+past.substr(-
20).replace(/\n/g,"")),upcomingInput:function(){var
next=this.match;if(next.length<20){next+=this._input.substr(0,20-
next.length)}return(next.substr(0,20)+(next.length>20?"...":""").replace(/\n/g,"")),showPosition:function(){var

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pre=this.pastInput();var c=new Array(pre.length+1).join("-");return
pre+this.upcomingInput()+"\n"+c+"^"},test_match:function(match,indexed_rule){var
token,lines,backup;if(this.options.backtrack_lexer){backup={ylineno:this.ylineno,yylloc:{first_line:this.yylloc.first_line,last_line:this.last_line,first_column:this.yylloc.first_column,last_column:this.yylloc.last_column},yytext:this.yytext,match:this.match,matches:this.matches,matched:this.matched,yyleng:this.yyleng,offset:this.offset,_more:this._more,_input:this._input,yy:this.yy,conditionStack:this.conditionStack.slice(0),done:this.done};if(this.options.ranges){backup.yylloc.range=this.yylloc.range.slice(0)}lines=match[0].match(/(?:\r\n?\n).*/g);if(lines){this.ylineno+=lines.length}this.yylloc={first_line:this.yylloc.last_line,last_line:this.ylineno+1,first_column:this.yylloc.last_column,last_column:lines?lines[lines.length-1].length-lines[lines.length-1].match(/r?\n?/)[0].length:this.yylloc.last_column+match[0].length};this.yytext+=match[0];this.match+=match[0];this.matches=match;this.yyleng=this.yytext.length;if(this.options.ranges){this.yylloc.range=[this.offset,this.offset+=this.yyleng]}this._more=false;this._backtrack=false;this._input=this._input.slice(match[0].length);this.matched+=match[0];token=this.performAction.call(this,this.yy,this,indexed_rule,this.conditionStack[this.conditionStack.length-1]);if(this.done&&this._input){this.done=false}if(token){return token}else if(this._backtrack){for(var k in backup){this[k]=backup[k]}return false}return false},next:function(){if(this.done){return this.EOF}if(!this._input){this.done=true}var token,match,tempMatch,index;if(!this._more){this.yytext="";this.match=""}var rules=this._currentRules();for(var i=0;i<rules.length;i++){tempMatch=this._input.match(this.rules[rules[i]]);if(tempMatch&&(!match||tempMatch[0].length>match[0].length)){match=tempMatch;index=i;if(this.options.backtrack_lexer){token=this.test_match(tempMatch,rules[i]);if(token!==false){return token}else if(this._backtrack){match=false;continue}else{return false}}else if(!this.options.flex){break}}if(match){token=this.test_match(match,rules[index]);if(token!==false){return token}return false}if(this._input===""){return this.EOF}else{return this.parseError("Lexical error on line "+(this.ylineno+1)+" . Unrecognized text.\n"+this.showPosition(),{text:"",token:null,line:this.ylineno})}},lex:function lex(){var r=this.next();if(r){return r}else{return this.lex()}},begin:function begin(condition){this.conditionStack.push(condition)},popState:function popState(){var n=this.conditionStack.length-1;if(n>0){return this.conditionStack.pop()}else{return this.conditionStack[0]}},_currentRules:function _currentRules(){if(this.conditionStack.length&&this.conditionStack[this.conditionStack.length-1]){return this.conditions[this.conditionStack[this.conditionStack.length-1]].rules}else{return this.conditions["INITIAL"].rules}},topState:function topState(n){n=this.conditionStack.length-1-Math.abs(n||0);if(n>=0){return this.conditionStack[n]}else{return "INITIAL"}},pushState:function pushState(condition){this.begin(condition)},stateStackSize:function stateStackSize(){return this.conditionStack.length},options:{},performAction:function anonymous(yy,yy_,$_avoiding_name_collisions,YY_START){var YYSTATE=YY_START;switch($_avoiding_name_collisions){case 0:return 5;break;case 1:break;case 2:return 8;break;case 3:return 16;break;case 4:return 17;break;case 5:return 11;break;case 6:return 10;break;case 7:return 9;break;case 8:return 14;break;case 9:return 15;break;case 10:return 12;break;case 11:return 7;break;case 12:return 7;break;case 13:return 7;break;case 14:return 13;break;case 15:return 13;break;case 16:return 13;break;case 17:return 13;break;case 18:return 13;break;case 19:return 13;break;case 20:return 13;break;case 21:return 13;break;case 22:return 7;break;case 23:return 7;break;case 24:return 13;break;case 25:return 13;break;case 26:return 13;break;case 27:return 7;break;case 28:return 13;break;case 29:return 13;break;case 30:return 13;break;case 31:return 7;break;case 32:return 7;break;case 33:return 13;break;case 34:return 13;break;case 35:return 13;break;case 36:return 7;break;case 37:return 13;break;case 38:return 7;break;case 39:return 7;break;case 40:return 7;break;case 41:return 7;break;case 42:return 7;break;case 43:return 7;break;case 44:return 7;break;case 45:return 7;break;case 46:return 7;break;case 47:return 7;break;case 48:return 7;break;case 49:return 7;break;case 50:return 7;break;case 51:return 13;break;case 52:return 7;break;case 53:return 7;break;case 54:return 7;break;case 55:return 13;break;case 56:return 7;break;case 57:return 7;break;case 58:return 7;break;case 59:return 13;break;case

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280:return 7;break;case 281:return 7;break;case 282:return 7;break;case 283:return 7;break;case 284:return 7;break;case 285:return 7;break;case 286:return 7;break;case 287:return 7;break;case 288:return 7;break;case 289:return 7;break;case 290:return 7;break;case 291:return 7;break;case 292:return 7;break;case 293:return 7;break;case 294:return 7;break;case 295:return 7;break;case 296:return 7;break;case 297:return 7;break;case 298:return 7;break;case 299:return 7;break;case 300:return 7;break;case 301:return 7;break;case 302:return 7;break;case 303:return 7;break;case 304:return 7;break;case 305:return 7;break;case 306:return 7;break;case 307:return 7;break;case 308:return 7;break;case 309:return 7;break;case 310:return 7;break;case 311:return 7;break;case 312:return 7;break;case 313:return 7;break;case 314:return 7;break;case 315:return 7;break;case 316:return 7;break;case 317:return 7;break;case 318:return 7;break;case 319:return 7;break;case 320:return 7;break;case 321:return 7;break;case 322:return 7;break;case 323:return 7;break;case 324:return 7;break;case 325:return 7;break;case 326:return 7;break;case 327:return 7;break;case 328:return 7;break;case 329:return 7;break;case 330:return 7;break;case 331:return 7;break;case 332:return 7;break;case 333:return 7;break;case 334:return 7;break;case 335:return 7;break;case 336:return 7;break;case 337:return 7;break;case 338:return 7;break } },rules:[/^(?;\$)/,^(?:s+)/,^(?:+),^(?:()/,^(?::)/,^(?:::)/,^(?:DocumentRef-([0-9A-Za-z-+.]+))/,^(?:LicenseRef-([0-9A-Za-z-+.]+))/,^(?:AND)/,^(?:OR)/,^(?:WITH)/,^(?:MPL-2.0-no-copyleft-exception)/,^(?:CNRI-Python-GPL-Compatible)/,^(?:BSD-3-Clause-Attribution)/,^(?:WxWindows-exception-3\1)/,^(?:Classpath-exception-2\0)/,^(?:gnu-javamail-exception)/,^(?:freertos-exception-2\0)/,^(?:i2p-gpl-java-exception)/,^(?:Autoconf-exception-2\0)/,^(?:Nokia-Qt-exception-1\1)/,^(?:Autoconf-exception-3\0)/,^(?:zlib-acknowledgement)/,^(?:BSD-2-Clause-FreeBSD)/,^(?:u-boot-exception-2\0)/,^(?:Bison-exception-2\2)/,^(?:CLISP-exception-2\0)/,^(?:BSD-2-Clause-NetBSD)/,^(?:FLTK-exception-2\0)/,^(?:eCos-exception-2\0)/,^(?:Font-exception-2\0)/,^(?:BSD-3-Clause-Clear)/,^(?:BSD-3-Clause-LBNL)/,^(?:GCC-exception-3\1)/,^(?:Qwt-exception-1\0)/,^(?:GCC-exception-2\0)/,^(?:Artistic-1\0-Perl)/,^(?:Libtool-exception)/,^(?:Artistic-1\0-cl8)/,^(?:CC-BY-NC-SA-4\0)/,^(?:CC-BY-NC-SA-1\0)/,^(?:CC-BY-NC-ND-4\0)/,^(?:CC-BY-NC-SA-3\0)/,^(?:CC-BY-NC-ND-3\0)/,^(?:CC-BY-NC-SA-2\5)/,^(?:CC-BY-NC-ND-2\0)/,^(?:CC-BY-NC-ND-1\0)/,^(?:CC-BY-NC-SA-2\0)/,^(?:MIT-advertising)/,^(?:BSD-4-Clause-UC)/,^(?:CC-BY-NC-ND-2\5)/,^(?:FLTK-exception)/,^(?:SugarCRM-1\1\3)/,^(?:CrystalStacker)/,^(?:BSD-Protection)/,^(?:LZMA-exception)/,^(?:BitTorrent-1\1)/,^(?:BitTorrent-1\0)/,^(?:Frameworx-1\0)/,^(?:mif-exception)/,^(?:Interbase-1\0)/,^(?:389-exception)/,^(?:HaskellReport)/,^(?:CC-BY-NC-3\0)/,^(?:CC-BY-ND-4\0)/,^(?:CC-BY-NC-1\0)/,^(?:CC-BY-NC-2\0)/,^(?:CC-BY-NC-2\5)/,^(?:CC-BY-SA-4\0)/,^(?:CC-BY-NC-4\0)/,^(?:W3C-19980720)/,^(?:BSD-4-Clause)/,^(?:Artistic-1\0)/,^(?:BSD-3-Clause)/,^(?:CC-BY-ND-1\0)/,^(?:BSD-2-Clause)/,^(?:CC-BY-ND-2\0)/,^(?:CC-BY-ND-2\5)/,^(?:CC-BY-ND-3\0)/,^(?:Artistic-2\0)/,^(?:CC-BY-SA-1\0)/,^(?:CC-BY-SA-2\0)/,^(?:CC-BY-SA-2\5)/,^(?:CC-BY-SA-3\0)/,^(?:XFree86-1\1)/,^(?:OLDAP-2\0\1)/,^(?:bzip2-1\0\6)/,^(?:OLDAP-2\2\1)/,^(?:ImageMagick)/,^(?:Unicode-TOU)/,^(?:Adobe-Glyph)/,^(?:CUA-OPL-1\0)/,^(?:CNRI-Jython)/,^(?:CNRI-Python)/,^(?:bzip2-1\0\5)/,^(?:OLDAP-2\2\2)/,^(?:PostgreSQL)/,^(?:Apache-1\1)/,^(?:CECILL-1\0)/,^(?:Apache-2\0)/,^(?:Zimbra-1\4)/,^(?:CECILL-1\1)/,^(?:Zimbra-1\3)/,^(?:Adobe-2006)/,^(?:JasPer-2\0)/,^(?:CECILL-2\0)/,^(?:TORQUE-1\1)/,^(?:CECILL-2\1)/,^(?:Watcom-1\0)/,^(?:Intel-ACPI)/,^(?:CIArtistic)/,^(?:Spencer-99)/,^(?:Condor-1\1)/,^(?:Spencer-94)/,^(?:gSOAP-1\3b)/,^(?:EUDatagrid)/,^(?:Spencer-86)/,^(?:Python-2\0)/,^(?:RHeCos-1\1)/,^(?:CATOSL-1\1)/,^(?:Apache-1\0)/,^(?:FreeImage)/,^(?:SGI-B-1\1)/,^(?:SGI-B-1\0)/,^(?:SimPL-2\0)/,^(?:Sleepycat)/,^(?:Crossword)/,^(?:EriPL-1\1)/,^(?:CPOL-1\02)/,^(?:OLDAP-2\8)/,^(?:OLDAP-2\7)/,^(?:OLDAP-2\6)/,^(?:CC-BY-1\0)/,^(?:OLDAP-2\5)/,^(?:OLDAP-2\4)/,^(?:OLDAP-2\3)/,^(?:SISSL-1\2)/,^(?:Unlicense)/,^(?:SGI-B-2\0)/,^(?:OLDAP-2\2)/,^(?:OLDAP-2\1)/,^(?:CC-BY-2\5)/,^(?:D-FSL-1\0)/,^(?:LPPL-1\3a)/,^(?:LPPL-1\3c)/,^(?:OLDAP-2\0)/,^(?:CC-BY-3\0)/,^(?:Leptonica)/,^(?:OLDAP-1\4)/,^(?:OLDAP-1\3)/,^(?:OLDAP-1\2)/,^(?:OLDAP-1\1)/,^(?:MakeIndex)/,^(?:CC-BY-4\0)/,^(?:NPOSL-3\0)/,^(?:CC-BY-2\0)/,^(?:PHP-3\01)/,^(?:ANTLR-PD)/,^(?:APSL-1\0)/,^(?:MIT-enna)/,^(?:IBM-pibs)/,^(?:APSL-1\1)/,^(?:APSL-1\2)/,^(?:Beerware)/,^(?:EUPL-1\0)/,^(?:EUPL-1\1)/,^(?:diffmark)/,^(?:CDDL-1\0)/,^(?:Zend-2\0)/,^(?:CDDL-1\1)/,^(?:CPAL-1\0)/,^(?:APSL-2\0)/,^(?:LPPL-1\0)/,^(?:AGPL-

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lexer});parser.lexer=lexer;function Parser(){this.yy={}}Parser.prototype=parser;parser.Parser=Parser;return new
Parser}();if(typeof require!=="undefined"&&typeof
exports!=="undefined"){exports.parser=spdxparse;exports.Parser=spdxparse.Parser;exports.parse=function(){return
spdxparse.parse.apply(spdxparse,arguments)};exports.main=function
commonjsMain(args){if(!args[1]){console.log("Usage: "+args[0]+" FILE");process.exit(1)}var
source=require("fs").readFileSync(require("path").normalize(args[1]),"utf8");return
exports.parser.parse(source)};if(typeof
module!=="undefined"&&require.main===module){exports.main(process.argv.slice(1))}
{
  "_args": [
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      "spdx-expression-parse@~1.0.0",

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"/Users/rebecca/code/npm/node_modules/validate-npm-package-license"
]
],
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"_id": "spdx-expression-parse@1.0.2",
"_inCache": true,
"_installable": true,
"_location": "/validate-npm-package-license/spdx-expression-parse",
"_nodeVersion": "5.0.0",
"_npmUser": {
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  "name": "kemitchell"
},
"_npmVersion": "3.3.6",
"_phantomChildren": {},
"_requested": {
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  "raw": "spdx-expression-parse@~1.0.0",
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  "scope": null,
  "spec": ">=1.0.0 <1.1.0",
  "type": "range"
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"_shrinkwrap": null,
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"_where": "/Users/rebecca/code/npm/node_modules/validate-npm-package-license",
"author": {
  "email": "kyle@kemitchell.com",
  "name": "Kyle E. Mitchell",
  "url": "http://kemitchell.com"
},
"bugs": {
  "url": "https://github.com/kemitchell/spdx-expression-parse.js/issues"
},
"dependencies": {
  "spdx-exceptions": "^1.0.4",
  "spdx-license-ids": "^1.0.0"
},
"description": "parse SPDX license expressions",
"devDependencies": {
  "defence-cli": "^1.0.1",
  "jison": "^0.4.15",
  "replace-require-self": "^1.0.0",

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  },
  "directories": {},
  "dist": {
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    "tarball": "http://registry.npmjs.org/spdx-expression-parse/-/spdx-expression-parse-1.0.2.tgz"
  },
  "gitHead": "ffe2fa7272ebf640b18286fc561f17a844d4f06b",
  "homepage": "https://github.com/kemitchell/spdx-expression-parse.js#readme",
  "keywords": [
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    "law",
    "legal",
    "license",
    "metadata",
    "package",
    "package.json",
    "standards"
  ],
  "license": "(MIT AND CC-BY-3.0)",
  "maintainers": [
    {
      "name": "kemitchell",
      "email": "kyle@kemitchell.com"
    }
  ],
  "name": "spdx-expression-parse",
  "optionalDependencies": {},
  "readme": "ERROR: No README data found!",
  "repository": {
    "type": "git",
    "url": "git+https://github.com/kemitchell/spdx-expression-parse.js.git"
  },
  "scripts": {
    "prepublish": "node generate-parser.js | uglifyjs > parser.generated.js",
    "pretest": "npm run prepublish",
    "test": "defence -i javascript README.md | replace-require-self | node"
  },
  "version": "1.0.2"
}
{
  "_args": [
    [
      "spdx-license-ids@^1.0.2",
      "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-correct"
    ]
  ],
  "_from": "spdx-license-ids@>=1.0.2 <2.0.0",

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"_id": "spdx-license-ids@1.2.0",
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  "name": "shinnn"
},
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  "type": "range"
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  "/validate-npm-package-license/spdx-correct"
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"_shrinkwrap": null,
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"_where": "/Users/rebecca/code/npm/node_modules/validate-npm-package-license/node_modules/spdx-correct",
"author": {
  "name": "Shinnosuke Watanabe",
  "url": "https://github.com/shinnn"
},
"bugs": {
  "url": "https://github.com/shinnn/spdx-license-ids/issues"
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"dependencies": {},
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  "@shinnn/eslintrc": "^1.0.0",
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  "eslint": "^0.24.0",
  "got": "^3.3.0",
  "istanbul": "^0.3.17",
  "require-bower-files": "^2.0.0",
  "rimraf": "^2.4.1",
  "stringify-object": "^2.2.0",
  "tape": "^4.0.0"
},
"directories": {},

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},
"files": [
  "spdx-license-ids.json"
],
"gitHead": "f74a7a16ca05540e0e97f1bbb61da07829b5d9ab",
"homepage": "https://github.com/shinnn/spdx-license-ids#readme",
"keywords": [
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  "id",
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  "identifiers",
  "json",
  "license",
  "licenses",
  "oss",
  "spdx"
],
"license": "Unlicense",
"main": "spdx-license-ids.json",
"maintainers": [
  {
    "name": "shinnn",
    "email": "snnskwtb@gmail.com"
  }
],
"name": "spdx-license-ids",
"optionalDependencies": {},
"readme": "ERROR: No README data found!",
"repository": {
  "type": "git",
  "url": "git+https://github.com/shinnn/spdx-license-ids.git"
},
"scripts": {
  "build": "node --harmony_arrow_functions build.js",
  "coverage": "node --harmony_arrow_functions node_modules/.bin/istanbul cover test.js",
  "coveralls": "${npm_package_scripts_coverage} && istanbul-coveralls",
  "lint": "eslint --config node_modules/@shinnn/eslintrc/rc.json --ignore-path .gitignore .",
  "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
  "test": "node --harmony_arrow_functions test.js"
},
"version": "1.2.0"
}

```

```

var licenseIDs = require('spdx-license-ids');

function valid(string) {
  return licenseIDs.indexOf(string) > -1;
}

// Common transpositions of license identifier acronyms
var transpositions = [
  ['APGL', 'AGPL'],
  ['Gpl', 'GPL'],
  ['GLP', 'GPL'],
  ['APL', 'Apache'],
  ['ISD', 'ISC'],
  ['GLP', 'GPL'],
  ['IST', 'ISC'],
  ['Claude', 'Clause'],
  [' or later', '+'],
  [' International', ""],
  ['GNU', 'GPL'],
  ['GUN', 'GPL'],
  ['+', ""],
  ['GNU GPL', 'GPL'],
  ['GNU/GPL', 'GPL'],
  ['GNU GLP', 'GPL'],
  ['GNU General Public License', 'GPL'],
  ['Gnu public license', 'GPL'],
  ['GNU Public License', 'GPL'],
  ['GNU GENERAL PUBLIC LICENSE', 'GPL'],
  ['MTI', 'MIT'],
  ['Mozilla Public License', 'MPL'],
  ['WTH', 'WTF'],
  ['-License', ""],
];

var TRANSPOSED = 0;
var CORRECT = 1;

// Simple corrections to nearly valid identifiers.
var transforms = [
  // e.g. 'mit'
  function(argument) {
    return argument.toUpperCase();
  },
  // e.g. 'MIT '
  function(argument) {
    return argument.trim();
  },
  // e.g. 'M.I.T.'

```

```

function(argument) {
  return argument.replace(/./g, "");
},
// e.g. 'Apache- 2.0'
function(argument) {
  return argument.replace(/s+/g, "");
},
// e.g. 'CC BY 4.0'
function(argument) {
  return argument.replace(/s+/g, '-');
},
// e.g. 'LGPLv2.1'
function(argument) {
  return argument.replace('v', '-');
},
// e.g. 'Apache 2.0'
function(argument) {
  return argument.replace(/,?\s*(\d)/, '-$1');
},
// e.g. 'GPL 2'
function(argument) {
  return argument.replace(/,?\s*(\d)/, '-$1.0');
},
// e.g. 'Apache Version 2.0'
function(argument) {
  return argument.replace(/,?\s*(V|.v|.V|v|Version|version)\s*(\d)/, '-$2');
},
// e.g. 'Apache Version 2'
function(argument) {
  return argument.replace(/,?\s*(V|.v|.V|v|Version|version)\s*(\d)/, '-$2.0');
},
// e.g. 'ZLIB'
function(argument) {
  return argument[0].toUpperCase() + argument.slice(1);
},
// e.g. 'MPL/2.0'
function(argument) {
  return argument.replace('/', '-');
},
// e.g. 'Apache 2'
function(argument) {
  return argument
    .replace(/s*V\s*(\d)/, '-$1')
    .replace(/(\d)$/, '$1.0');
},
// e.g. 'GPL-2.0-'
function(argument) {
  return argument.slice(0, argument.length - 1);
}

```

```

    },
    // e.g. 'GPL2'
    function(argument) {
        return argument.replace(/(\d)$/, '-$1.0');
    },
    // e.g. 'BSD 3'
    function(argument) {
        return argument.replace(/(-)?(\d)$/, '-$2-Clause');
    },
    // e.g. 'BSD clause 3'
    function(argument) {
        return argument.replace(/(-)clause(-)(\d)/, '-$3-Clause');
    },
    // e.g. 'BY-NC-4.0'
    function(argument) {
        return 'CC-' + argument;
    },
    // e.g. 'BY-NC'
    function(argument) {
        return 'CC-' + argument + '-4.0';
    },
    // e.g. 'Attribution-NonCommercial'
    function(argument) {
        return argument
            .replace('Attribution', 'BY')
            .replace('NonCommercial', 'NC')
            .replace('NoDerivatives', 'ND')
            .replace(/ (\d)/, '-$1')
            .replace(/ ?International/, "");
    },
    // e.g. 'Attribution-NonCommercial'
    function(argument) {
        return 'CC-' +
            argument
            .replace('Attribution', 'BY')
            .replace('NonCommercial', 'NC')
            .replace('NoDerivatives', 'ND')
            .replace(/ (\d)/, '-$1')
            .replace(/ ?International/, "") +
            '-4.0';
    }
};

// If all else fails, guess that strings containing certain substrings
// meant to identify certain licenses.
var lastResorts = [
    ['UNLI', 'Unlicense'],
    ['WTF', 'WTFPL'],

```

```

['2 CLAUSE', 'BSD-2-Clause'],
['2-CLAUSE', 'BSD-2-Clause'],
['3 CLAUSE', 'BSD-3-Clause'],
['3-CLAUSE', 'BSD-3-Clause'],
['AFFERO', 'AGPL-3.0'],
['AGPL', 'AGPL-3.0'],
['APACHE', 'Apache-2.0'],
['ARTISTIC', 'Artistic-2.0'],
['Affero', 'AGPL-3.0'],
['BEER', 'Beerware'],
['BOOST', 'BSL-1.0'],
['BSD', 'BSD-2-Clause'],
['ECLIPSE', 'EPL-1.0'],
['FUCK', 'WTFPL'],
['GNU', 'GPL-3.0'],
['LGPL', 'LGPL-3.0'],
['GPL', 'GPL-3.0'],
['MIT', 'MIT'],
['MPL', 'MPL-2.0'],
['X11', 'X11'],
['ZLIB', 'Zlib']
];

var SUBSTRING = 0;
var IDENTIFIER = 1;

var validTransformation = function(identifier) {
  for (var i = 0; i < transforms.length; i++) {
    var transformed = transforms[i](identifier);
    if (transformed !== identifier && valid(transformed)) {
      return transformed;
    }
  }
  return null;
};

var validLastResort = function(identifier) {
  var upperCased = identifier.toUpperCase();
  for (var i = 0; i < lastResorts.length; i++) {
    var lastResort = lastResorts[i];
    if (upperCased.indexOf(lastResort[SUBSTRING]) > -1) {
      return lastResort[IDENTIFIER];
    }
  }
  return null;
};

var anyCorrection = function(identifier, check) {

```

```

for (var i = 0; i < transpositions.length; i++) {
  var transposition = transpositions[i];
  var transposed = transposition[TRANSPOSED];
  if (identifier.indexOf(transposed) > -1) {
    var corrected = identifier.replace(
      transposed,
      transposition[CORRECT]
    );
    var checked = check(corrected);
    if (checked !== null) {
      return checked;
    }
  }
}
return null;
};

module.exports = function(identifier) {
  identifier = identifier.replace(/+$/, "");
  if (valid(identifier)) {
    return identifier;
  }
  var transformed = validTransformation(identifier);
  if (transformed !== null) {
    return transformed;
  }
  transformed = anyCorrection(identifier, function(argument) {
    if (valid(argument)) {
      return argument;
    }
  });
  return validTransformation(transformed);
};
if (transformed !== null) {
  return transformed;
}
transformed = validLastResort(identifier);
if (transformed !== null) {
  return transformed;
}
transformed = anyCorrection(identifier, validLastResort);
if (transformed !== null) {
  return transformed;
}
return null;
};
{
  "_args": [
    [

```

```

    "spdx-correct@~1.0.0",
    "/Users/rebecca/code/npm/node_modules/validate-npm-package-license"
  ]
},
"_from": "spdx-correct@>=1.0.0 <1.1.0",
"_id": "spdx-correct@1.0.2",
"_inCache": true,
"_installable": true,
"_location": "/validate-npm-package-license/spdx-correct",
"_nodeVersion": "4.2.1",
"_npmUser": {
  "email": "kyle@kemitchell.com",
  "name": "kemitchell"
},
"_npmVersion": "3.3.6",
"_phantomChildren": {},
"_requested": {
  "name": "spdx-correct",
  "raw": "spdx-correct@~1.0.0",
  "rawSpec": "~1.0.0",
  "scope": null,
  "spec": ">=1.0.0 <1.1.0",
  "type": "range"
},
"_requiredBy": [
  "/validate-npm-package-license"
],
"_resolved": "https://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.2.tgz",
"_shasum": "4b3073d933ff51f3912f03ac5519498a4150db40",
"_shrinkwrap": null,
"_spec": "spdx-correct@~1.0.0",
"_where": "/Users/rebecca/code/npm/node_modules/validate-npm-package-license",
"author": {
  "email": "kyle@kemitchell.com",
  "name": "Kyle E. Mitchell",
  "url": "https://kemitchell.com"
},
"bugs": {
  "url": "https://github.com/kemitchell/spdx-correct.js/issues"
},
"dependencies": {
  "spdx-license-ids": "^1.0.2"
},
"description": "correct invalid SPDX identifiers",
"devDependencies": {
  "defence-cli": "^1.0.1",
  "replace-require-self": "^1.0.0",
  "spdx-expression-parse": "^1.0.0",

```

```

    "tape": "~4.0.0"
  },
  "directories": {},
  "dist": {
    "shasum": "4b3073d933ff51f3912f03ac5519498a4150db40",
    "tarball": "http://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.2.tgz"
  },
  "gitHead": "8430a3ad521e1455208db33faafcb79c7b074236",
  "homepage": "https://github.com/kemitchell/spdx-correct.js#readme",
  "keywords": [
    "SPDX",
    "law",
    "legal",
    "license",
    "metadata"
  ],
  "license": "Apache-2.0",
  "maintainers": [
    {
      "name": "kemitchell",
      "email": "kyle@kemitchell.com"
    },
    {
      "name": "othiym23",
      "email": "ogd@aoaiioxxysz.net"
    }
  ],
  "name": "spdx-correct",
  "optionalDependencies": {},
  "readme": "ERROR: No README data found!",
  "repository": {
    "type": "git",
    "url": "git+https://github.com/kemitchell/spdx-correct.js.git"
  },
  "scripts": {
    "test": "defence README.md | replace-require-self | node && tape *.test.js"
  },
  "version": "1.0.2"
}
var parse = require('spdx-expression-parse');
var correct = require('spdx-correct');

var genericWarning = (
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"
);

```



```
var fileReferenceRE = /^SEE LICEN[CS]E IN (.+)$/;
```

```
function startsWith(prefix, string) {  
  return string.slice(0, prefix.length) === prefix;  
}
```

```
function usesLicenseRef(ast) {  
  if (ast.hasOwnProperty('license')) {  
    var license = ast.license;  
    return (  
      startsWith('LicenseRef', license) ||  
      startsWith('DocumentRef', license)  
    );  
  } else {  
    return (  
      usesLicenseRef(ast.left) ||  
      usesLicenseRef(ast.right)  
    );  
  }  
}
```

```
module.exports = function(argument) {  
  var ast;  
  
  try {  
    ast = parse(argument);  
  } catch (e) {  
    var match  
    if (  
      argument === 'UNLICENSED' ||  
      argument === 'UNLICENCED'  
    ) {  
      return {  
        validForOldPackages: true,  
        validForNewPackages: true,  
        unlicensed: true  
      };  
    } else if (match = fileReferenceRE.exec(argument)) {  
      return {  
        validForOldPackages: true,  
        validForNewPackages: true,  
        inFile: match[1]  
      };  
    } else {  
      var result = {  
        validForOldPackages: false,  
        validForNewPackages: false,  

```

```

    warnings: [genericWarning]
  };
  var corrected = correct(argument);
  if (corrected) {
    result.warnings.push(
      'license is similar to the valid expression "' + corrected + "'
    );
  }
  return result;
}
}

if (usesLicenseRef(ast)) {
  return {
    validForNewPackages: false,
    validForOldPackages: false,
    spdx: true,
    warnings: [genericWarning]
  };
} else {
  return {
    validForNewPackages: true,
    validForOldPackages: true,
    spdx: true
  };
}
};
{
  "name": "validate-npm-package-license",
  "description": "Give me a string and I'll tell you if it's a valid npm package license string",
  "version": "3.0.1",
  "author": {
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "https://kemitchell.com"
  },
  "dependencies": {
    "spdx-correct": "~1.0.0",
    "spdx-expression-parse": "~1.0.0"
  },
  "devDependencies": {
    "defence-cli": "^1.0.1",
    "replace-require-self": "^1.0.0"
  },
  "keywords": [
    "license",
    "npm",
    "package",

```

```

    "validation"
  ],
  "license": "Apache-2.0",
  "repository": {
    "type": "git",
    "url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
  },
  "scripts": {
    "test": "defence README.md | replace-require-self | node"
  },
  "gitHead": "00200d28f9960985f221bc1a8a71e4760daf39bf",
  "bugs": {
    "url": "https://github.com/kemitchell/validate-npm-package-license.js/issues"
  },
  "homepage": "https://github.com/kemitchell/validate-npm-package-license.js#readme",
  "_id": "validate-npm-package-license@3.0.1",
  "_shasum": "2804babe712ad3379459acfbe24746ab2c303fbc",
  "_from": "validate-npm-package-license@3.0.1",
  "_npmVersion": "2.13.5",
  "_nodeVersion": "0.12.7",
  "_npmUser": {
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
  },
  "dist": {
    "shasum": "2804babe712ad3379459acfbe24746ab2c303fbc",
    "tarball": "http://registry.npmjs.org/validate-npm-package-license/-/validate-npm-package-license-3.0.1.tgz"
  },
  "maintainers": [
    {
      "name": "kemitchell",
      "email": "kyle@kemitchell.com"
    },
    {
      "name": "othiym23",
      "email": "ogd@aoaiioxxysz.net"
    }
  ],
  "directories": {},
  "_resolved": "https://registry.npmjs.org/validate-npm-package-license/-/validate-npm-package-license-3.0.1.tgz",
  "readme": "ERROR: No README data found!"
}

var test = require('tap').test
var init = require('./')
var rimraf = require('rimraf')
var common = require('./lib/common')

test('license', function (t) {

```


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1.119 open-vm-tools 10.0.5 :4.el7_3

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```
>>> base64.c-none
>>> convertutf.c/.h from unicode, inc.-none
>>> freebsd-1.72
>>> icu4c-4.4.1
>>> unicode-5.0
```

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>>> base64.c-none

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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This work is based upon Base64 routines (developed by IBM) found Berkeley Internet Name Daemon (BIND) as distributed by ISC. They were adapted for inclusion in OpenLDAP Software by Kurt D. Zeilenga.

>>> convertutf.c/h from unicode, inc.-none

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xenserver/opt_xensource_libexec_InterfaceReconfigureVswitch.py
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lib/contrack-tcp.c

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include/windows/netinet/ip6.h
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lib/lldp/lldpd.c
lib/lldp/lldpd.h
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References

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

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

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

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

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

https://github.com/matttproud/golang_protobuf_extensions

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

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

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```
package spec
```

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```
type License struct {
```

```
    Name string `json:"name,omitempty"`
```

```
    URL string `json:"url,omitempty"`
```

```
}
```

```
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```

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Support for streaming Protocol Buffer messages for the Go language (golang).
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go-zookeeper - Native ZooKeeper client for Go

<https://github.com/samuel/go-zookeeper>

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1.132 pyOpenSSL 0.13.1 :3.eI7

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1.133 python-httpplib2 0.9.1 :2.el7

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UnixCrypt.java 0.9 96/11/25

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modified April 2001

by Iris Van den Broeke, Daniel Deville

modified Aug 2005

by Greg Wilkins (gregw)

converted to python Jun 2009

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1.135 python-psutil 2.2.1 :1.el7

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1.136 qemu-kvm 1.5.3 :126.el7_3.9

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

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software  
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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author
```

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

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

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'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 3, 29 June 2007

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```
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```

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```

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Gocheck - A rich testing framework for Go

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1.145 sudo 1.8.6p7 :23.el7_3

1.145.1 Available under license :

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Matt Ackeret

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Russ Allbery

Nick Andrew

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Tom Bates

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Jean-loup Gailly Mark Adler
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1.146 tcp_wrappers 7.6 :77.e17

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1.148 time 1.7 :45.e17

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Mathieu Desnoyers

May 13th, 2009

IBM Corporation allowed LGPLv2.1+ licensing of their contribution to the userspace RCU library in a patch submitted on May 8, 2009 from Paul E. McKenney and reviewed by Steven L. Bennett:

<http://lists.casi.polymtl.ca/pipermail/ltt-dev/2009-May/001584.html>

I (Mathieu Desnoyers) re-implemented ACCESS_ONCE(), likely(), unlikely() and barrier() from scratch without reference to the original code.

commit id : 2dc5fa0f7cfbfb0a64a7a67b39626650e863f16a

Bert Wesarg <bert.wesarg@googlemail.com> approved LGPL relicensing of his patch in an email dated May 13, 2009 :

<http://lkml.org/lkml/2009/5/13/16>

xchg() primitives has been rewritten from a MIT-licensed cmpxchg for Intel and powerpc. They are MIT-licensed and therefore usable in LGPL code. This cmpxchg code was obtained from the atomic_ops project:

http://www.hpl.hp.com/research/linux/atomic_ops/

I (Mathieu Desnoyers) wrote the remainder of the code.

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Mathieu Desnoyers
September 3, 2012

* LGPLv2.1

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```
#define _LGPL_SOURCE
#include <urcu.h>
```

Dynamic-only linking with the LGPL library is used if `_LGPL_SOURCE` is not defined. It permits relinking with newer versions of the library, which is required by the LGPL license.

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uatomic/s390.h
system.h

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m4/ax_tls.m4

1.151 xfsprogs 4.5.0 :10.el7_3

1.151.1 Available under license :

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Version 2.1, February 1999

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1.152 yajl 2.0.4 :4.e17

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1.153 zlib 1.2.11 :0

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1.154 zookeeper 3.5.2

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