Open Source Used In IOx-FogDirector_AC12 1.11.0

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1.5 glib 2.56.4-0ubuntu0.18.04.6

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1.6 aspect-j 1.9.2

1.7 ejb-api 3.0-alpha-1
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1.9 build-essential 12.4ubuntu1

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1.10 go-runewidth 3.0.3-0ubuntu1~18.04.1

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1.12 sigar-loader 1.6.6

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1.13 libdrm 2.4.99-1ubuntu1~18.04.2

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1.14 libalgorithm-diff-perl 1.19.03-1

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1.15 linux-kernel 3.10.87

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

*

*/

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freedom to share and change it. By contrast, the GNU General Public
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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.

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

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

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

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
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Note that it is possible for a library to be covered by the ordinary
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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.)

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for his contributions to the dvb-net driver

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for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0 || strcmp(license, "GPL v2") == 0 || strcmp(license, "GPL and additional rights") == 0 || strcmp(license, "Dual BSD/GPL") == 0 || strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
} 

#endif

1.16 mgo 3.0.3-0ubuntu1~18.04.1

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func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `
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    }
}
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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.

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import (  
    "strings"  
    "time"  
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {  
    Name            string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text            string   // License text data  
    Header          string   // License header for source files  
}
func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.

// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                        Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
}
return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license:" + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == ""
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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package cmd

func initGpl2() {
Licenses["gpl2"] = License{
Name: "GNU General Public License 2.0",
PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
Header: `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.

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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}
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mgo - MongoDB driver for Go

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        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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        Header: `All rights reserved.
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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza
/

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*/
// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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package cmd

func initMit() {

  Licenses["mit"] = License{
    Name: "MIT License",
    PossibleMatches: []string{"mit"},
    Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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```

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```
{ }
```

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1.23 bsdmainutils 11.1.2ubuntu1

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This package was debianized by Henrique de Moraes Holschuh <hmh@debian.org> on Sun Jun 10 10:54:36 BRT 2012

It was downloaded from http://www.amd64.org/support/microcode.html up to version 20120910 (now: http://www.amd64.org/microcode.html). For version 20131007 onwards, it was built from the linux-firmware git repository at: https://git.kernel.org/pub/scm/linux/kernel/git/firmware/linux-firmware.git/

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1.26 bash 4.4.18 2ubuntu1.2

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1.29 gettext 2.42.1+18.04

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1.31 coreutils 8.28 1ubuntu1

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1.34 command-not-found 18.04.5

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1.35 dnsmasq 2.79-1

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1.40 pcre 2.56.4-0ubuntu0.18.04.6

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1.41 quartz 1.6.1

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1.44 zlib 1.2.11

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1.45 libmpc 1.1.0-1
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1.46 datasource-proxy 1.4.1

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1.47 laptop-detect 0.16

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1.48 psmisc 23.1-1ubuntu0.1
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1.59 python 3.6.9-1~18.04

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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Mersenne Twister

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

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

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Asynchronous socket services

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------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
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-----------------------------

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--------

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

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

strtod and dtoa
------------

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-------

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<th>Year</th>
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<th>GPL-compatible? (1)</th>
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<td>PSF</td>
<td>no</td>
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tomb - support for clean goroutine termination in Go.

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 */

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var osi = []string{
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var licenseExceptions = ["Autoconf-exception-2.0",
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"Classpath-exception-2.0",
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mgo - MongoDB driver for Go

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1.67 libuv 1.18.0 3
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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 */

Files: *

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1.71 libnfnetlink 1.0.1 3

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.82 python-defaults 2.7.15~rc1-1

1.82.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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dh_python2, pycompile, pyclean and debpython module:

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

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1.93 rdma-cm 17.1-1ubuntu0.2

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1.103 mpg123 1.25.10 1

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1.104 cloud-initramfs-tools 0.40ubuntu1.1

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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1.109 readline 5.2+dfsg 3build1

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1.113 python-requests-unixsocket 0.1.5-3

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1.122 zlib 2.0.4 9ubuntu2

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1.123 java 0.68ubuntu1~18.04.1

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1.124 zlib 3.1.2-2.1ubuntu1.1

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1.125 lzo 2.08 1.2

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75dpi-courB12-IL2.bdf 75dpi-courB14.bdf 75dpi-courB14c.bdf
75dpi-courB14-IL2.bdf 75dpi-courR12.bdf 75dpi-courR12c.bdf
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1.138 jackson-module-paranamer 2.10.3

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1.139 vertx-web-common 3.8.5

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1.144 python-certifi 2018.1.18 2
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1.148 libevent 2.1.8-stable 4build1

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1.149 dnsjava 2.1.7

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1.150 lxd 3.0.3-0ubuntu1~18.04.1

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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `
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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"false", "", ""}}

    initApache2()
    initMit()
    initBsd Clause3()
    initBsd Clause2()
    initGpl2()
    initGpl3()
initLGPL()
initAGPL()

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != "" {
    return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                   Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
}
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

Paul Borman <borman@google.com>
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package cmd

func initGpl3() {
Licenses["gpl3"] = License{
Name:    "GNU General Public License 3.0",
PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
Header: `
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        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `
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defaultBsdClause3() {
  Licenses["bsd"] = License{
    Name: "NewBSD",
    PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
    Header: "All rights reserved.

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Name: "Simplified BSD License",
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
"2 clause bsd", "simplified bsd license"},
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package legal

import (  "testing" )
func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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mgo - MongoDB driver for Go

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/*

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}
// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["apache"] = License{
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        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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```
package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Affero General Public License as published by
```
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1.151 distro-info-data 0.37ubuntu0.6

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1.153 glib 2.56.4-0ubuntu0.18.04.6

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1.157 keyrings-alt 3.0-1

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1.159 javax-inject 2.5.0

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 *
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#define WIFEXITED(w)(!((_W_INT(w)) & 0377))

#define WIFSTOPPED(w)((_W_INT(w)) & 0100)

#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */

pid_t waitpid(int, int *, int);

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   *
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   *
   * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
   * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*$OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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#endif
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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#if !defined(_COMPAT_POLL_H_)
define _COMPAT_POLL_H_

typedef struct pollfd {
  int fd;
  short events;
  short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020

#if 0 /* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORMPOLLRDNORM
#define POLLRWNRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

Programming Language Specification

1.162 retrofit 1.9.0

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        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", ´gnu gpl3”, "gnu gpl"},
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func initApache2() {​
  Licenses["apache"] = License{
    Name: "Apache 2.0",
    PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
    Header: `Licensed under the Apache License, Version 2.0 (the "License");
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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*/

package legal

import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {  
    initial := len(licenses)  
    RegisterLicense("dummy")  
    if initial+1 != len(licenses) {

    
}
t.Fatal("didn't add a license")
}
}
mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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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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running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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fee.

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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.

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these notices.

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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
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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package cmd

func initAgpl() {
Licenses["agpl"] = License{
Name: "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "afferogpl", "gnu agpl"},
Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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An older license, called the Affero General Public License and published by Affero, was designed to accomplish similar goals. This is a different license, not a version of the Affero GPL, but Affero has released a new version of the Affero GPL which permits relicensing under this license.

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

To "propagate" a work means to do anything with it that, without
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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

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

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includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

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

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

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

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

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a
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func initBsdClause2() {
  Licenses["freebsd"] = License{
    Name: "Simplified BSD License",
    PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                             "2 clause bsd", "simplified bsd license"},
    Header: "All rights reserved.

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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
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BSON library for Go

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package cmd

import (  
    "strings"  
    "time"  
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name           string  // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text           string   // License text data
    Header         string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                        Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") { return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
author := viper.GetString("author")

year := viper.GetString("year") // For tests.
if year == "" {
    year = time.Now().Format("2006")
}

return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
}

return
// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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cmd

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    Licenses["gpl2"] = License{
        Name:          "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `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
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    }
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Licenses["lgpl"] = License{
Name: "GNU Lesser General Public License",
PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
Header: `This program is free software: you can redistribute it and/or modify
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<script type="text/javascript">

var DOCUMENTATION_OPTIONS = {

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  VERSION: '1.17',
  COLLAPSE_INDEX: false,
  FILE_SUFFIX: '.html',
  HAS_SOURCE: true,
  SOURCELINK_SUFFIX: '.txt'
};
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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```c
lib/gssapi/gssapi_err_generic.c
```
including the following files:
```c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
```
and the initial implementation of incremental propagation, including the following new or changed files:
include iprop_hdr.h

kadmin/server/ipropd_svc.c

lib/kdb/iprop.x

lib/kdb/kdb_convert.c

lib/kdb/kdb_log.c

lib/kdb/error_tables/kdb5_err.et

kprop/kpropd_rpc.c

kprop/kproplog.c

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        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*- ' and we don't want to change them.
        if line != '' and line != '- ':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'(^ [^ ]*)( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

---

Open Source Used In IOx-FogDirector_AC12 1.11.02111
# Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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1.179 sharutils 4.15.2-3

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<li>Sai Pullabhrotla &lt;psai&#064064linoma.com&gt; - fix to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Perez Paz Luis Alberto &lt;laperez&#064banxico.org.mx&gt; - patch to use of ByteString in X.500 name.</li>
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- Vladimir Molotkov &lt;vladimir.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5@064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung &lt;t2cung@hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee &lt;dmlee@064crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francese Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke &lt;brianorourke&#064;gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier&#064;cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;david.josse&#064;transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k&#064;hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan&#064;gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont&#064;gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc&#064;bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn &lt;eichhorn&#064;ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand&#064;064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos&#064;tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock&#064;gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz&#064;gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice&#064;gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold&#064;gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles&#064;yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen&#064;nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.

encode method.

Maria Ivanova &lt;maria.ivanova@#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin Häußler &lt;arminha@#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vrouch &lt;xavier@#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@#064dce.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in X.509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga Käumlither &lt;olga kaethler@#064hp-consulting.com&gt; - initial implementation of TeleTrust EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

Nuria Marial &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.

Janis Schuller &lt;jxs@#064zi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pknopp@#064mtg.de&gt; - fix for named curve recognition in EC/ECOST key generation.

Jakub Gwozdzi &lt;jakub.gwozdz@#064gpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064gigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding.
property check.</li>
<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknez@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Guido Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude@064epiuise.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@064isignature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BIA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BIA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BIA-102].</li>
<li>Michael Schoene &lt;michael@064sig-grid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Ion Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream. </li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bounceycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henrique &lt;pmahenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kinneringer &lt;l@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;rfarr.se@064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;rt@373lundgren.se@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;l@lindemann@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
Alex Artamonov &lt;alexart.home@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Mike Lyons &lt;mlyons@64layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole@64yahoo.com&gt; look up patch for GOST-2001 parameters.

Tomas Krivanek &lt;tom@64atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;enfau@64lt-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@64cykryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilårs &lt;markus@64primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@64yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@64cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@64gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@64birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@64gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info@64frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@64dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@64hotmail.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;matheis@64seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;messche@64gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alpralfmal@64hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso massa@64insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@64unicamicaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@64ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski@64gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev@64gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@64hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@64google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@64gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@64keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@64hotmai.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@64gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Ing Morisbak &lt;stein.inge.morisbak@64BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@64tngtech.com&gt; Additional expiry time check in PGPPublicKeys.
Phil Steitz &lt;phil.steitz@064gmail.com&gt;: Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignot.korchagin@064gmail.com&gt;: Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petr Petrov &lt;tpetrov@064bers-soft.com&gt;: Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt;: Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson@064quest.com&gt;: a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj@064gmail.com&gt;: patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth@WPECGLtYbVi8RI6Y7Vzl2Lvd2EUVW99v3yNV3JWROG8.fms&gt;: speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny@064the-b.org&gt;: patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.

Maarten Bodewes &lt;maarten.bodewes@064gmail.com&gt;: initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;phil_f_b@064gyahoo.com&gt;: Initial implementation of J-PAKE.

Brian Carlstrom &lt;bcd@064carlstrom.com&gt;: compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lidé&eacute;n Borell &lt;samuel@064primekey.se&gt;: patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@064certimix.com&gt;: pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@064orionhealth.com&gt;: patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInputStream/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digestes, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@064primekey.se&gt;: patch for working arround JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt;: patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;st5555d@064gmail.com&gt;: initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@064gmail.com&gt;: ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt;: patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirsch &lt;dev@064daniel-hirsch.de&gt;: patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt;: initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio &lt;matti.aarnio&#064;methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi&#064;akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller&#064;064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts&#064;064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov&#064;064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86&#064;064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc&#064;064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis&#064;ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb&#064;064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;rtyley&#064;064keysecurity.com&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick&#064;064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward&#064;064pdf1labs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin&#064;064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student&#064;064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter&#064;iat.grfaz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller&#064;064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli&#064;064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt&#064;064cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle&#064;064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;m.aarts&#064;064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb&#064;yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco&#064;064nightlabs.de&gt; Reported verification bug in GenericSigner.

Martin Schaef &lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;tobias.wich&#064;064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke&#064;064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz&#064;064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;jt.kapitza&#064;064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan&#064;064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.
**Open Source Used In IOx-FogDirector_AC12 1.11.02179**

- Fix to encoding of EC private keys to ensure encoding matches order length.

- Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.

- Documentation fixes to X9ObjectIdentifiers.

- Correction to notification/error message handling in SignedMailValidator.

- Fix for counter signature SID in CMSSignedData.

- Initial CertPathLoopTest for demonstrating stack overflow issue.

- Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

- Refinements to cert path validation (authority key addition, certificate order preservation).

- Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

- Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

- Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

- Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

- Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

- Fix to S2K usage of none on changing passwords on keys without passwords originally.

- Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.


- Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

- Fix for IES data length check on decryption.

- Fix to cast issue in getOutputSize() for ECIES.

- Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.

- BasicConstraintsValidation pathlen fix in PKIX certpath classes.

- Fixed bugs in TlsUtils read methods [#BJA-592].

- Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.

- Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

- Patch to make cipher/hash/signature name methods in PGP internal API public.

- Initial implementation of GOST R 34.11-2012.
William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegele &lt;jnaegele@#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazozi@#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AEEEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe@#064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storojs72@#064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@#064samsung.com&gt; Constructor patches to CMC PKIData.

Evanghelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSSMT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLEntities.

Artem Storozhuk &lt;storojs72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown@#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;@&gt; identification of M-R test issue on higher certainty values in RSA.
key pair generation.\</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.\</li>
<li>Adam Vartanian &lt;https://github.com/flooeey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().\</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make GPGUtil.pipeFileContents use buffer and not leak file handle.\</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.\</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.\</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.\</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).\</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.\</li>
<li>fgrieu &lt;fgrieu@gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.\</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.\</li>
<li>Andreas Gadermaier &lt;up.gadermaier#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.\</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.\</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.\</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.\</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.\</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.\</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.\</li>
<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palm&eacute;r@truesec.se&gt; Additional improvements to constant time comparisons.\</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.\</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.\</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.\</li>
<li>im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.\</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.\</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.\</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java
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Christos Zoulas of Cornell University.

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1.183 gstreamer 1.14.5-0ubuntu1~18.04.1

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1.204 x-crypto 3.0.3-0ubuntu1~18.04.1

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func initLGPL() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Lesser General Public License as published by
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```
}
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mgo - MongoDB driver for Go

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package legal

import (  
"testing"
)

func TestRegisterLicense(t *testing.T) {  
initial := len(licenses)  
RegisterLicense("dummy")  
if initial+1 != len(licenses) {  
t.Fatal("didn't add a license")  
}
}

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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: ' Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights
    }
}
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Protocol Buffers for Go with Gadgets

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

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

import (
"strings"
"time"

"github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
Name            string   // The type of license in use
PossibleMatches []string // Similar names to guess
Text            string   // License text data
Header          string   // License header for source files
}

func init() {
// Allows a user to not use a license.
Licenses["none"] = License{"None", []string{"none", "false"}, ",", ","}

initApache2()
initMt()        
initBsdClause3()
initBsdClause2()
initGPL2()      
initGPL3()      
initLGPL()      
initAGPL()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != "" {
return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
    Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return ""
            }
        }
    }
    return ""
return key
}
}
}

return ""
}

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    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", "chflags", NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", "clock_settime", NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%"s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s("%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%#p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d,\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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Version 2.1, February 1999

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That's all there is to it!

A. HISTORY OF THE SOFTWARE

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

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

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

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

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

Contributors to log15:

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- Alan Shreve
- Chris Hines
- Ciaran Downey
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PossibleMatches: []string{"mit"},
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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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*/

package legal

import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {  
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {  
        t.Fatal("didn't add a license")
    }
}

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                 "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
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Licenses["bsd"] = License{
    Name: "NewBSD",
    PossibleMatches: string["bsd", "newbsd", "3 clause bsd", "3-clause bsd"],
    Header: "All rights reserved.

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package cmd

import (
	"strings"
	"time"

github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
	Name            string   // The type of license in use
	PossibleMatches []string // Similar names to guess
	Text            string   // License text data
	Header          string   // License header for source files
}

func init() {
	// Allows a user to not use a license.
	Licenses["none"] = License{"none", []string{"none", "false"}, "", ""}
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    if userLicense != "" {
        return findLicense(userLicense)
    }

    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {

found := matchLicense(name)
if found == "" {
  er("unknown license: " + name)
}
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn’t find
// then appropriate match to name.
func matchLicense(name string) string {
  if name == "" {
    return ""
  }
  for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
      if strings.EqualFold(name, match) {
        return key
      }
    }
  }
  return ""
}

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    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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1.212 tdb 1.44.1-1ubuntu1.3

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1.213 orc 0.4.28-1

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1.214 netty-codec-http 4.1.42

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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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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
</xsl:template>

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

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">
<xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
<xsl:text>&#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
<xsl:if test="translate($rest, '&#9;&#32;', '')">
<xsl:call-template name="isc.copyright.format">
  <xsl:with-param name="text" select="$rest"/>
</xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.
</xsl:text>
</xsl:variable>

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

<!--
- Local variables:
- mode: sgml
- End:
-->  
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.235 jctools-core 2.1.1

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1.236 netty-transport-native-unix-common

4.1.31

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1.238 javax-ws-rs-api 2.1

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1.240 juju-errors 3.0.3-0ubuntu1~18.04.1

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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `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.

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    }
}
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mgo - MongoDB driver for Go

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    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    }
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Licenses["bsd"] = License{
   Name: "NewBSD",
   PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
   Header: `All rights reserved.
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tomb - support for clean goroutine termination in Go.

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cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"),
        Header: ` Licensed under the Apache License, Version 2.0 (the "License");
        you may not use this file except in compliance with the License.
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        http://www.apache.org/licenses/LICENSE-2.0

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        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Affero General Public License as published by
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        `,
        Text: `GNU AFFERO GENERAL PUBLIC LICENSE
        `}
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package cmd

func initLgpl() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: ` This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Lesser General Public License as published by
        the Free Software Foundation, either version 3 of the License, or
        (at your option) any later version.

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```plaintext
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*/

cpyackage legal

import (  
"testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
}
// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
author := viper.GetString("author")
year := viper.GetString("year") // For tests.
if year == "" {
year = time.Now().Format("2006")
}
return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
found := matchLicense(name)
if found == "" {
err("unknown license: " + name)
}
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
if name == "" {
return ""
}
for key, lic := range Licenses {
for _, match := range lic.PossibleMatches {
if strings.EqualFold(name, match) {
return key
}
}
}
return ""
}

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package cmd

func initBsdClause2() {
  Licenses["freebsd"] = License{
    Name: "Simplified BSD License",
    PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
    Header: "All rights reserved."}
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Developed by:

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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
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Version 3.1, 31 March 2009

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The End
#!perl
=head1 NAME
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compile" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "
  my $copyright_msg = <$readme>

  my ($year) = $copyright_msg =~ /.*\b\d{4,}\b/";
  or die "Year not found in README copyright message $copyright_msg";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright \d{4,}/
  or die "Copyright statement not found in perl -v output $output"

  $year;
}

------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

1.251 apport-symptoms 0.20
1.251.1 Available under license:

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: apport-symptoms
Upstream-Contact: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
Source: https://code.launchpad.net/~ubuntu-dev/apport/apport-symptoms

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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 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.)

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.

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

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

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.

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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
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to use the modified definitions.)

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

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d) If distribution of the work is made by offering access to copy
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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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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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.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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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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(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming.
converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated “know” assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.
David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.257 angular-ui-bootstrap 0.12.0
1.257.1 Available under license:
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1.258 x-text 2.42.1+18.04

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BSON library for Go

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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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 */

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// from https://spdx.org/licenses/
var osi = []string{
  "AFL-1.1",}
"LPPL-1.3c",
"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",
"LiLiQ-R-1.1",
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"Nokia",
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"NTP",
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"PHP-3.0",
"PostgreSQL",
"Python-2.0",
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var allLicenses = []string{
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"BSD-2-Clause",
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"BSD-3-Clause-No-Nuclear-License",
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"Ruby",
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"Sendmail",
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"Spencer-94",
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"UPL-1.0",

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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACg9wIImQoE4ltKRW4rM1TYiTvEVOs/edit?pli%3D1%23heading%3Dh.ruw3y18g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarXIToOesGWXg9Af657mA
var licenseExceptions = [string{
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"GCC-exception-3.1",
"WxWindows-exception-3.1",
}
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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high
level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy
building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations.
To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be
reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The
XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under
LGPL license to minimize risk of incompatible implementations).

1.263 jakarta-validation-api 2.0.2

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

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.

^L

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
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and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
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2. You may modify your copy or copies of the Library or any portion
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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,
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themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under the GPL.

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- the libintl.jar Java library,
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@subheading Preamble

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use in any particular case, based on the explanations below.

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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 introduced by others.

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

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

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

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

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

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

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You must cause the whole of the work to be licensed at no
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
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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.

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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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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.

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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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1.272 netbase 5.4

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tomb - support for clean goroutine termination in Go.

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Gocheck - A rich testing framework for Go

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conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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

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

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

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

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or household purposes, or (2) anything designed or sold for incorporation
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doubtful cases shall be resolved in favor of coverage. For a particular
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of the particular user or of the way in which the particular user
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```

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BSON library for Go

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 */

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// from https://spdx.org/licenses/
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var allLicenses = ['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',
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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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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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
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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
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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
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Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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d) If a facility in the modified Library refers to a function or a
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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
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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.

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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.

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Upstream-Contact: Michael Kerrisk <mtk.manpages@gmail.com>, linux-man@vger.kernel.org
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man3/SLIST_NEXT.3 man3/SLIST_REMOVE.3 man3/SLIST_REMOVE_HEAD.3
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man3/getsubopt.3 man3/offsetof.3 man3/program_invocation_name.3
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man2/__clone2.2 man2/_syscall.2 man2/acct.2 man2/add_key.2
man2/adjtimex.2 man2/afs_systcall.2 man2/bdflush.2 man2/break.2
man2/brk.2 man2/cacheflush.2 man2/capget.2 man2/capset.2 man2/clone.2
man2/clone2.2 man2/create_module.2 man2/epoll_create.2
man2/epoll_create1.2 man2/epoll_ctl.2 man2/epoll_pwait.2

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license_information = [
    {
        'shortname': 'BSD-3-clause',
        'filename': 'BSD-3-clause-UCB',
        'upstream_names': ['BSD_3_CLAUSE_UCB'],
    },
    {
        'shortname': 'BSD-4-clause',
        'filename': 'BSD-4-clause-UCB',
        'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
    },
    {
        'shortname': 'Expat',
        'filename': 'Expat',
        'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
    },
    {
        'shortname': 'freely-redistributable',
        'filename': 'freely-redistributable',
        'upstream_names': ['FREELY_REDISTRIBUTABLE'],
    },
    {
        'shortname': 'GPL-2',
        'filename': 'GPL-2',
        'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
    },
    {
        'shortname': 'GPL-2+',
        'filename': 'GPL-2+',
        'upstream_names': ['GPLv2_NOVERSION_ONELINE', 'GPLv2+',
                           'GPLv2+_DOC_FULL', 'GPLv2+_DOC_MISC',
                           'GPLv2+_DOC_ONEPARA', 'GPLv2+_SW_3_PARA',
                           'GPLv2+_SW_ONEPARA'],
    },
    {
        'shortname': 'henry-spencer-regex',
        'filename': 'henry-spencer-regex',
        'upstream_names': ['MISC'],
    },
    {
        'shortname': 'LDPv1',
        'filename': 'LDPv1',
        'upstream_names': ['LDPv1'],
    }]

licenses_with_manpages = {}
symlinks = {}

def get_license_shortname(name):
    """Gets the Debian shortname for the name supplied by upstream.
    Includes a check that upstream's names are only assigned
to one shortname.
    """
    shortname = ""
    already_found = False
    for info in license_information:
        if name in info['upstream_names']:
            if not already_found:
                shortname = info['shortname']
                already_found = True
            else:
                sys.exit("Fatal error: Upstream license name defined multiple times: " + name)
    return shortname

def add_manpage_to_shortname(manpage, copyright_holders, licenses):
    # Ensure a string for the filename
    filename = str(manpage)
    # Strip the leading "./"
    filename = filename[3:len(filename)]
    # Common case: only one license for the manpage, so
    # the shortname is just e.g. "GPL-2+"
    shortname = "" and ".join(sorted(licenses))
    if shortname not in licenses_with_manpages:
        licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
    else:
        licenses_with_manpages[shortname]['files'].append(filename)
    # Do not add same lines twice
    existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ''
    # Collect files and symlinks into a common list
    all_files = file_info['files']
    for file in file_info['files']:
        if file in symlinks:
            all_files = all_files + symlinks[file]
    # Join the files into a whitespace separated list,
    # at most 76 characters long
    files = ' '.join(sorted(all_files))
    # The wrap is 69 + 7 (length of "Files: ") = 76
    files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
    files = '
    '.join(files)
    # Now format the copyright holders
    copyright = '
    '.join(sorted(file_info['copyright']))
    # An empty field is an error, so ensure a value
    if len(copyright) == 0:
        copyright = '(could not be detected automatically)'
    # Finally, create the stanza
    stanza += 'Files: ' + files
    stanza += '
    Copyright: ' + copyright
    stanza += '
    License: ' + shortname + '

    return stanza

def get_license_text(shortname):
    """Gets the text for the Debian license shortname."""
    text = ''
    for info in license_information:
        if info['shortname'] == shortname:
            text += 'License: ' + shortname + '
    with open("licenses/" + info['filename']) as licensefile:
        for line in licensefile:
            text += ' ' + line
    return text

p = Path('..')
for manpage in p.glob("man?/*"):
    with manpage.open() as file:
        licenses = []
        copyright_holders = []
        manpage_is_symlink = False
        for line in file:
            # Do not create copyright stanzas for symlink files
            # but add them to a symlink list
            symlink = re.search(r'^\s*so\s*(.*)', line)
if symlink:
    manpage_is_symlink = True
# Ensure a string for the filename
linkname = str(manpage)
# Strip the leading "../"
linkname = linkname[3:len(linkname)]
filename = symlink.group(1)
if filename in symlinks:
symlinks[filename].append(linkname)
else:
symlinks[filename] = [linkname]
break
# Only parse the header, so stop after seeing ".TH"
if re.search(r"^\.TH", line):
break
# Extract all copyright holders
copyright = re.search(r"^\\\".*?Copyright (.*)", line)
if copyright:
copyright_holders.append(copyright.group(1))
# Match the beginning of the license
license_start = re.search(r"^\" %%%LICENSE_START\((.*)\)\"”, line)
if license_start:
    license_name = license_start.group(1)
    license_short_name = get_license_shortname(license_name)
    if not license_short_name:
        sys.exit("Fatal error: Upstream license name not known: " + license_name)
    licenses.append(license_short_name)
if not manpage_is_symlink:
    add_manpage_to_shortname(manpage, copyright_holders, licenses)

# Flatten the symlinks by detecting and removing
# a symlink which points to another symlink.
for link_to_test in symlinks:
    for link in symlinks:
        if link_to_test in symlinks[link]:
            symlinks[link] = symlinks[link] + symlinks[link_to_test]

# Make sorting of licenses deterministic
stanzas = ""
license_texts = []
for shortname in sorted(licenses_with_manpages):
stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
text = get_license_text(shortname)
if text:
    license_texts.append(text)

# Read in the first lines of copyright, without
# the automatically generated parts. Stop after
# the third occurrence of "License".

manual_lines = ""
license_line_count = 0
with open("copyright") as copyright_file:
    for line in copyright_file:
        manual_lines += line
        if re.search(r"^License: " , line):
            license_line_count += 1
        if license_line_count == 3:
            # Add a final newline for separation
            manual_lines += "n"
            break

# Open the file for output
with open("copyright", "w") as copyright_file:
    copyright_file.write(manual_lines)
    copyright_file.write(stanzas)
    copyright_file.write("n".join(license_texts))

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*/

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
"2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.

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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

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    }
}

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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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mgo - MongoDB driver for Go

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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
Name:   "GNU General Public License 2.0",
PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
Header: `
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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {

if name == "" {
    return ""
}

for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
        if strings.EqualFold(name, match) {
            return key
        }
    }
}

return ""

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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Protocol Buffers for Go with Gadgets

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

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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name:        "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal
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package cmd

func initLgil() {
Licenses["lgpl"] = License{
Name: "GNU Lesser General Public License",
PossibleMatches: ["string["lgpl", "lesser gpl", "gnu lgpl"],
Header: 
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```go
package cmd

func initLgpl() {
  Licenses["lgpl"] = License{
      Name:            "GNU Lesser General Public License",
      PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
      Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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Version 3, 29 June 2007

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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                   "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

import (  
    "strings"  
    "time"  
    "github.com/spf13/viper"  
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {  
    Name            string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text            string   // License text data  
    Header          string   // License header for source files  
}

func init() {

// Allows a user to not use a license.
Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != "" {
return findLicense(userLicense)
}
// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
return License{Header: viper.GetString("license.header"),
Text: viper.GetString("license.text")}
}
// If user wants to have built-in license, use that.
if viper.IsSet("license") {
return findLicense(viper.GetString("license"))
}
// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
author := viper.GetString("author")
year := viper.GetString("year") // For tests.
if year == "" {
year = time.Now().Format("2006")
}
return "Copyright " + year + " " + author
}
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

Paul Borman <borman@google.com>
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shawnps
theory
jboverfelt
dsymonds
cdl
wallclockbuilder
dansouza

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mgo - MongoDB driver for Go

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BSON library for Go

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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tomb - support for clean goroutine termination in Go.

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initAgpl() {
    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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package legal

import ( "testing" )

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
    The MIT License (MIT)

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func initMit() {
    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09)

A portable, public domain, version of the Data Encryption Standard.

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That's all there is to it!

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Protocol Buffers for Go with Gadgets

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

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cpackage cmd

func initGpl2() {
Licenses["gpl2"] = License{
    Name:    "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
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mgo - MongoDB driver for Go

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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```
package cmd

func initLgpl() {
    Licenses["lgpl"] = License{
        Name:     "GNU Lesser General Public License",
        PossibleMatches: ["lgpl", "lesser gpl", "gnu lgpl"],
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Lesser General Public License as published by
        the Free Software Foundation, either version 3 of the License, or
        (at your option) any later version.

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        but WITHOUT ANY WARRANTY; without even the implied warranty of
       `
    }
}
```
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func initMit() {
  Licenses["mit"] = License{
    Name:            "MIT License",
    PossibleMatches: []string{"mit"},
    Header: `  
    Permission is hereby granted, free of charge, to any person obtaining a copy
    of this software and associated documentation files (the "Software"), to deal
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```
package cmd

func initAgpl() {
Licenses["agpl"] = License{
    Name: "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU Affero General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

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    along with this program.  If not, see <http://www.gnu.org/licenses/>.`,
    Text: `GNU AFFERO GENERAL PUBLIC LICENSE
    Version 3, 19 November 2007`
}
```
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package cmd

import (  
    "strings"  
    "time"  
    "github.com/spf13/viper"  
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {  
    Name           string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text           string   // License text data  
    Header         string   // License header for source files  
}

func init() {  
    // Allows a user to not use a license.  
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}  

    initApache2()  
    initMit()  
    initBsdClause3()  
    initBsdClause2()  
    initGpl2()  
    initGpl3()
// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
}
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name:             "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
        you may not use this file except in compliance with the License.
        You may obtain a copy of the License at
        http://www.apache.org/licenses/LICENSE-2.0
        Unless required by applicable law or agreed to in writing, software
        distributed under the License is distributed on an "AS IS" BASIS,
        WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
        See the License for the specific language governing permissions and
        limitations under the License.`
    }
}
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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*/

package legal
import (  
"testing"
)

func TestRegisterLicense(t *testing.T) {  
initial := len(licenses)  
RegisterLicense("dummy")  
if initial+1 != len(licenses) {  
t.Fatal("didn't add a license")  
}  
}

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tomb - support for clean goroutine termination in Go.

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var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}
// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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1.319 berkeley-db 5.3.28 13.1ubuntu1.1

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

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

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

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

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func initMit() {
    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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package cmd

func initAgpl() {
  Licenses["agpl"] = License{
    Name: "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
    it under the terms of the GNU Affero General Public License as published by
    the Free Software Foundation, either version 3 of the License, or
    (at your option) any later version.

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    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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tomb - support for clean goroutine termination in Go.

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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
                 modify it under the terms of the GNU General Public License
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mgo - MongoDB driver for Go
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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, ",", ","}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
}
// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == ""
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == ""
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == ""
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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package cmd

func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
  licenses = append(licenses, text)
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
  return licenses
}

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: ` This program is free software: you can redistribute it and/or modify
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package cmd

cmd func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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*/

package legal

import (
   "testing"
)

func TestRegisterLicense(t *testing.T) {


initial := len(licenses)
RegisterLicense("dummy")
if initial+1 != len(licenses) {
    t.Fatal("didn't add a license")
}

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    }
}
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1.334 python-systemd 234 1build1

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a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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

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

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

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
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A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
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suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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   (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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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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This option is useful when you wish to copy part of the code of
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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.

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

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specified materials from the same place.

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1.354 libflac 1.3.2 1
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Preamble

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

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   (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
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```

1.362 iproute 2.0.28-1ubuntu1

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mgo - MongoDB driver for Go

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: ` 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 3 of the License, or (at your option) any later version. 

    `}
}
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        Name: "GNU General Public License 2.0",
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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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func initApache2() {
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BSON library for Go

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package legal

import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {  
    initial := len(licenses)  
    RegisterLicense("dummy")  
    if initial+1 != len(licenses) {  
        t.Fatal("didn't add a license")  
    }  
}  

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Protocol Buffers for Go with Gadgets

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func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `
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    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `
    }
}
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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:            "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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package cmd

import {
    "strings"
    "time"
    "github.com/spf13/viper"
}

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetTime("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == ""
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == ""
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match)
                return key
        }
    }
    return ""
}

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package cmd

func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",}
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1.369 python-keyring 10.6.0-1

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package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

    /**
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     */
    String url();

    /**
     * License metadata available within the info section of a Swagger definition, see
     * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
     *
     * @since 1.5.0
     */

    @Target(ElementType.ANNOTATION_TYPE)
    @Retention(RetentionPolicy.RUNTIME)
    public @interface License {

        /**
         * The name of the license.
         *
         *
         * @return the name of the license
         */
        String name();

        /**
         * An optional URL for the license.
         *
         */
        String url();

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         * limitations under the License.
         */

        @Target(ElementType.ANNOTATION_TYPE)
        @Retention(RetentionPolicy.RUNTIME)
        public @interface License {

            /**
             * The name of the license.
             *
             *
             * @return the name of the license
             */
            String name();

            /**
             * An optional URL for the license.
             *
             */
* @return an optional URL for the license.
 */

String url() default "";
}

1.371 bind 9.11.3+dfsg 1ubuntu1.11

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<!-- $Id$ -->

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

<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
    xmlns:xi="http://www.w3.org/2001/XInclude"
    xmlns:db="http://docbook.org/ns/docbook">
    <xsl:template name="isc.copyright.format">
        <xsl:param name="text"/>
        <xsl:value-of select="$isc.copyright.leader"/>
        <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
        <xsl:text>&#10;</xsl:text>
        <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
        <xsl:if test="translate($rest, '&#9;&#32;', '')">
            <xsl:call-template name="isc.copyright.format">
                <xsl:with-param name="text" select="$rest"/>
            </xsl:call-template>
        </xsl:if>
    </xsl:template>

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

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

    </xsl:variable>
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfff2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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   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
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   be optional: if the application does not supply it, the square
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Although the Lesser General Public License is Less protective of the users’ freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and
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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
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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.

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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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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.

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

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components (compiler, kernel, and so on) of the operating system on
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"@(#)queue.3 8.2 (Berkeley) 1/24/94
"SFreeBSD$
".Dd May 13, 2011
.Dt QUEUE 3
.Os
.Sh NAME
.Nm SLIST_EMPTY ,
.Nm SLIST_ENTRY ,
.Nm SLIST_FIRST ,
.Nm SLIST_FOREACH ,
.Nm SLIST_FOREACH_SAFE ,
.Nm SLIST_HEAD ,
.Nm SLIST_HEAD_INITIALIZER ,
.Nm SLIST_INIT ,
.Nm SLIST_INSERT_AFTER ,
.Nm SLIST_INSERT_HEAD ,
.Nm SLIST_NEXT ,
.Nm SLIST_REMOVE_AFTER ,
.Nm SLIST_REMOVE_HEAD ,
.Nm SLIST_REMOVE ,
.Nm SLIST_SWAP ,
.Nm STAILQ_CONCAT ,
.Nm STAILQ_EMPTY ,
.Nm STAILQ_ENTRY ,
.Nm STAILQ_FIRST ,
.Nm STAILQ_FOREACH ,
.Nm STAILQ_FOREACH_SAFE ,
.Nm STAILQ_HEAD ,
.Nm STAILQ_HEAD_INITIALIZER ,
.Nm STAILQ_INIT ,
.Nm STAILQ_INSERT_AFTER ,
.Nm STAILQ_INSERT_HEAD ,
.Nm STAILQ_INSERT_TAIL ,
.Nm STAILQ_LAST ,
.Nm STAILQ_NEXT ,
.Nm STAILQ_REMOVE_AFTER ,
.Nm STAILQ_REMOVE_HEAD ,
.Nm STAILQ_REMOVE ,
.Nm STAILQ_SWAP ,
.Nm LIST_EMPTY ,
.Nm LIST_ENTRY ,
.Nm LIST_FIRST ,
.Nm LIST_FOREACH ,
.Nm LIST_FOREACH_SAFE ,
.Nm LIST_HEAD ,
.Nm LIST_HEAD_INITIALIZER ,
.Nm LIST_INIT ,
.Nm LIST_INSERT_AFTER ,
.Nm LIST_INSERT_BEFORE ,
.Nm LIST_INSERT_HEAD ,
.Nm LIST_NEXT ,
.Nm LIST_REMOVE ,
.Nm LIST_SWAP ,
.Nm TAILQ_CONCAT ,
.Nm TAILQ_EMPTY ,
.Nm TAILQ_ENTRY ,
Nd implementations of singly-linked lists, singly-linked tail queues, lists and tail queues.

Sh SYNOPSIS

In sys/queue.h

\`
.Fn SLIST_EMPTY "SLIST_HEAD *head"
.Fn SLIST_ENTRY "TYPE"
.Fn SLIST_FIRST "SLIST_HEAD *head"
.Fn SLIST_FOREACH "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_FOREACH_SAFE "TYPE *var" "SLIST_HEAD *head" "SLIST_ENTRY NAME" "TYPE *temp_var"
.Fn SLIST_HEAD "HEADNAME" "TYPE"
.Fn SLIST_HEAD_INITIALIZER "SLIST_HEAD head"
.Fn SLIST_INIT "SLIST_HEAD *head"
.Fn SLIST_INSERT_AFTER "TYPE *listelm" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_INSERT_HEAD "SLIST_HEAD *head" "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_NEXT "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_AFTER "TYPE *elm" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE_HEAD "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_REMOVE "SLIST_HEAD *head" "SLIST_ENTRY NAME"
.Fn SLIST_SWAP "SLIST_HEAD *head1" "SLIST_HEAD *head2" "SLIST_ENTRY NAME"
\`

.Fn STAILQ_CONCAT "STAILQ_HEAD *head1" "STAILQ_HEAD *head2"
.Fn STAILQ_EMPTY "STAILQ_HEAD *head"
.Fn STAILQ_ENTRY "TYPE"
.Fn STAILQ_FIRST "STAILQ_HEAD *head"
.Fn STAILQ_FOREACH "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME"
.Fn STAILQ_FOREACH_SAFE "TYPE *var" "STAILQ_HEAD *head" "STAILQ_ENTRY NAME" "TYPE *temp_var"
.Fn STAILQ_HEAD "HEADNAME" "TYPE"
.Fn STAILQ_HEAD_INITIALIZER "STAILQ_HEAD head"
.Fn STAILQ_INIT "STAILQ_HEAD *head"
These macros define and operate on four types of data structures: singly-linked lists, singly-linked tail queues, lists, and tail queues. All four structures support the following functionality:

- Insertion of a new entry at the head of the list.
- Insertion of a new entry after any element in the list.
- O(1) removal of an entry from the head of the list.
- Forward traversal through the list.
- Swapping the contents of two lists.

Singly-linked lists are the simplest of the four data structures and support only the above functionality. Singly-linked lists are ideal for applications with large datasets and few or no removals, or for implementing a LIFO queue. Singly-linked lists add the following functionality:

- O(n) removal of any entry in the list.

Singly-linked tail queues add the following functionality:

- Entries can be added at the end of a list.
- O(n) removal of any entry in the list.
- They may be concatenated.

However:

- All list insertions must specify the head of the list.
- Each head entry requires two pointers rather than one.

Code size is about 15% greater and operations run about 20% slower than singly-linked lists.
Singly-linked tailqs are ideal for applications with large datasets and few or no removals, or for implementing a FIFO queue.

All doubly linked types of data structures (lists and tail queues) additionally allow:
- Insertion of a new entry before any element in the list.
- O(1) removal of any entry in the list.

However:
- Each element requires two pointers rather than one.
- Code size and execution time of operations (except for removal) is about twice that of the singly-linked data-structures.

Linked lists are the simplest of the doubly linked data structures and support only the above functionality over singly-linked lists.

Tail queues add the following functionality:
- Entries can be added at the end of a list.
- They may be traversed backwards, from tail to head.
- They may be concatenated.

However:
- All list insertions and removals must specify the head of the list.
- Each head entry requires two pointers rather than one.
- Code size is about 15% greater and operations run about 20% slower than singly-linked lists.
is the name of a user defined structure, that must contain a field of type
.Li SLIST_ENTRY ,
.Li STAILQ_ENTRY ,
.Li LIST_ENTRY ,
or
.Li TAILQ_ENTRY ,

named 
.Fa NAME .
The argument 
.Fa HEADNAME
is the name of a user defined structure that must be declared using the macros
.Li SLIST_HEAD ,
.Li STAILQ_HEAD ,
.Li LIST_HEAD ,
or
.Li TAILQ_HEAD .

See the examples below for further explanation of how these macros are used.

.Sh SINGLY-LINKED LISTS

A singly-linked list is headed by a structure defined by the 
.Nm SLIST_HEAD macro.
This structure contains a single pointer to the first element on the list.
The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements.

New elements can be added to the list after an existing element or at the head of the list.

An 
.Fa SLIST_HEAD structure is declared as follows:
.Bd -literal -offset indent
SLIST_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp

where 
.Fa HEADNAME
is the name of the structure to be defined, and
.Fa TYPE
is the type of the elements to be linked into the list.

A pointer to the head of the list can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
.Pp
(The names

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The macro `.Nm SLIST_HEAD_INITIALIZER` evaluates to an initializer for the list `.Fa head`.
The macro `.Nm SLIST_EMPTY` evaluates to true if there are no elements in the list.
The macro `.Nm SLIST_ENTRY` declares a structure that connects the elements in the list.
The macro `.Nm SLIST_FIRST` returns the first element in the list or NULL if the list is empty.
The macro `.Nm SLIST_FOREACH` traverses the list referenced by `.Fa head` in the forward direction, assigning each element in turn to `.Fa var`.
However, unlike `.Fn SLIST_FOREACH` here it is permitted to both remove `.Fa var` as well as free it from within the loop safely without interfering with the traversal.
The macro `.Nm SLIST_INIT` initializes the list referenced by
The macro \texttt{SLIST_INSERT_HEAD} inserts the new element \texttt{elm} at the head of the list.

The macro \texttt{SLIST_INSERT_AFTER} inserts the new element \texttt{elm} after the element \texttt{listelm}.

The macro \texttt{SLIST_NEXT} returns the next element in the list.

The macro \texttt{SLIST_REMOVE_AFTER} removes the element after \texttt{elm} from the list. Unlike \texttt{SLIST_REMOVE}, this macro does not traverse the entire list.

The macro \texttt{SLIST_REMOVE_HEAD} removes the element \texttt{elm} from the head of the list. For optimum efficiency, elements being removed from the head of the list should explicitly use this macro instead of the generic \texttt{SLIST_REMOVE} macro.

The macro \texttt{SLIST_SWAP} swaps the contents of \texttt{head1}
SINGLY-LINKED LIST EXAMPLE

SLIST_HEAD(slisthead, entry) head =
    SLIST_HEAD_INITIALIZER(head);
struct slisthead *headp; /* Singly-linked List head. */
struct entry {
    ...
    SLIST_ENTRY(entry) entries; /* Singly-linked List. */
    ...
}*n1, *n2, *n3, *np;

SLIST_INIT(&head); /* Initialize the list. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
SLIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
SLIST_INSERT_AFTER(n1, n2, entries);

SLIST_REMOVE(&head, n2, entry, entries); /* Deletion. */
free(n2);

n3 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries); /* Deletion from the head. */
free(n3);

/* Forward traversal. */
SLIST_FOREACH(np, &head, entries)
    np-> ... 
/* Safe forward traversal. */
SLIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    SLIST_REMOVE(&head, np, entry, entries);
    free(np);
}

while (!SLIST_EMPTY(&head)) /* List Deletion. */
n1 = SLIST_FIRST(&head);
SLIST_REMOVE_HEAD(&head, entries);
free(n1);
}

SINGLY-LINKED TAIL QUEUES
A singly-linked tail queue is headed by a structure defined by the
Nm STAILQ_HEAD
macro.
This structure contains a pair of pointers, one to the first element in the tail queue and the other to the last element in the tail queue. The elements are singly linked for minimum space and pointer manipulation overhead at the expense of O(n) removal for arbitrary elements. New elements can be added to the tail queue after an existing element, at the head of the tail queue, or at the end of the tail queue.

A

\texttt{STAILQ\_HEAD}

structure is declared as follows:

\begin{verbatim}
STAILQ\_HEAD(HEADNAME, TYPE) head;
\end{verbatim}

where

\texttt{HEADNAME}
is the name of the structure to be defined, and

\texttt{TYPE}
is the type of the elements to be linked into the tail queue. A pointer to the head of the tail queue can later be declared as:

\begin{verbatim}
struct HEADNAME *headp;
\end{verbatim}

(The names
\texttt{head}
and
\texttt{headp}
are user selectable.)

The macro
\texttt{STAILQ\_HEAD\_INITIALIZER}
evaluates to an initializer for the tail queue

\begin{verbatim}
\texttt{head}.
\end{verbatim}

The macro
\texttt{STAILQ\_CONCAT}
concatenates the tail queue headed by
\begin{verbatim}
\texttt{head2}
\end{verbatim}
on to the end of the one headed by
\begin{verbatim}
\texttt{head1}
\end{verbatim}
removing all entries from the former.

The macro
\texttt{STAILQ\_EMPTY}
evaluates to true if there are no items on the tail queue.

\begin{verbatim}
\end{verbatim}
The macro
.Nm STAILQ_ENTRY
declares a structure that connects the elements in the tail queue.
.Pp
The macro
.Nm STAILQ_FIRST
returns the first item on the tail queue or NULL if the tail queue is empty.
.Pp
The macro
.Nm STAILQ_FOREACH
traverses the tail queue referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
.Pp
The macro
.Nm STAILQ_FOREACH_SAFE
traverses the tail queue referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var . However, unlike
.Fn STAILQ_FOREACH here it is permitted to both remove
.Fa var as well as free it from within the loop safely without interfering with the traversal.
.Pp
The macro
.Nm STAILQ_INIT
initializes the tail queue referenced by
.Fa head .
.Pp
The macro
.Nm STAILQ_INSERT_HEAD
inserts the new element
.Fa elm at the head of the tail queue.
.Pp
The macro
.Nm STAILQ_INSERT_TAIL
inserts the new element
.Fa elm at the end of the tail queue.
The macro `STAILQ_INSERT_AFTER` inserts the new element 
`elm` after the element 
`listelm`.

The macro `STAILQ_LAST` returns the last item on the tail queue. 
If the tail queue is empty the return value is 
`NULL`.

The macro `STAILQ_NEXT` returns the next item on the tail queue, or NULL if this item is the last. 

The macro `STAILQ_REMOVE_AFTER` removes the element after 
`elm` from the tail queue. Unlike 
`STAILQ_REMOVE`, this macro does not traverse the entire tail queue.

The macro `STAILQ_REMOVE_HEAD` removes the element at the head of the tail queue. 
For optimum efficiency, elements being removed from the head of the tail queue should use this macro explicitly rather than the generic 
`STAILQ_REMOVE` macro.

The macro `STAILQ_REMOVE` removes the element 
`elm` from the tail queue.

The macro `STAILQ_SWAP` swaps the contents of 
`head1` and 
`head2`.

SINGLY-LINKED TAIL QUEUE EXAMPLE
STAILQ_HEAD(stailhead, entry) head =
    STAILQ_HEAD_INITIALIZER(head);
struct stailhead *headp; /* Singly-linked tail queue head. */
struct entry {

    } *n1, *n2, *n3, *np;

STAILQ_INIT(&head); /* Initialize the queue. */

n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
STAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
STAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
STAILQ_INSERT_AFTER(&head, n1, n2, entries);
/* Deletion. */
STAILQ_REMOVE(&head, n2, entry, entries);
free(n2);
/* Deletion from the head. */
n3 = STAILQ_FIRST(&head);
STAILQ_REMOVE_HEAD(&head, entries);
free(n3);
/* Forward traversal. */
STAILQ_FOREACH(np, &head, entries)
    np-> ...
/* Safe forward traversal. */
STAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
STAILQ_REMOVE(&head, np, entry, entries);
free(np);
}
/* TailQ Deletion. */
while (!STAILQ_EMPTY(&head)) {
    n1 = STAILQ_FIRST(&head);
    STAILQ_REMOVE_HEAD(&head, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
n1 = STAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = STAILQ_NEXT(n1, entries);
    free(n1);
n1 = n2;
}
STAILQ_INIT(&head);
.Ed
.Sh LISTS
A list is headed by a structure defined by the
.Nm LIST_HEAD
macro.
This structure contains a single pointer to the first element
on the list.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the list.
New elements can be added to the list after an existing element,
before an existing element, or at the head of the list.
A
.Fa LIST_HEAD
structure is declared as follows:
.Bd -literal -offset indent
LIST_HEAD(HEADNAME, TYPE) head;
.Ed
.Ed
.Pp
where
.Fa HEADNAME
is the name of the structure to be defined, and
.Fa TYPE
is the type of the elements to be linked into the list.
A pointer to the head of the list can later be declared as:
.Bd -literal -offset indent
struct HEADNAME *headp;
.Ed
.Ed
.Pp
(The names
.Li head
and
.Li headp
are user selectable.)
.Pp
The macro
.Nm LIST_HEAD_INITIALIZER
evaluates to an initializer for the list
.Fa head.
.Pp
The macro
.Nm LIST_EMPTY
evaluates to true if there are no elements in the list.
.Pp
The macro
.Nm LIST_ENTRY
declares a structure that connects the elements in
the list.
.Pp
The macro
.Nm LIST_FIRST
returns the first element in the list or NULL if the list
is empty.
.Pp
The macro
.Nm LIST_FOREACH
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
.Pp
The macro
.Nm LIST_FOREACH_SAFE
traverses the list referenced by
.Fa head
in the forward direction, assigning each element in turn to
.Fa var .
However, unlike
.Fn LIST_FOREACH
here it is permitted to both remove
.Fa var as well as free it from within the loop safely without interfering with the
traversal.
.Pp
The macro
.Nm LIST_INIT
initializes the list referenced by
.Fa head .
.Pp
The macro
.Nm LIST_INSERT_HEAD
inserts the new element
.Fa elm
at the head of the list.
.Pp
The macro
.Nm LIST_INSERT_AFTER
inserts the new element
.Fa elm
after the element
.Fa listelm .
.Pp
The macro
.Nm LIST_INSERT_BEFORE
inserts the new element
before the element
.Pp
The macro
.Nm LIST_NEXT
returns the next element in the list, or NULL if this is the last.
.Pp
The macro
.Nm LIST_REMOVE
removes the element
from the list.
.Pp
The macro
.Nm LIST_SWAP
swaps the contents of
and
.Nm LIST EXAMPLE
.Bd -literal
LIST_HEAD(listhead, entry) head =
   LIST_HEAD_INITIALIZER(head);
struct listhead *headp;/* List head. */
struct entry {
   ...
   LIST_ENTRY(entry) entries;/* List. */
   ...
} *n1, *n2, *n3, *np, *np_temp;
LIST_INIT(&head);/* Initialize the list. */

n1 = malloc(sizeof(struct entry));/* Insert at the head. */
LIST_INSERT_HEAD(&head, n1, entries);

n2 = malloc(sizeof(struct entry));/* Insert after. */
LIST_INSERT_AFTER(n1, n2, entries);

n3 = malloc(sizeof(struct entry));/* Insert before. */
LIST_INSERT_BEFORE(n2, n3, entries);

LIST_REMOVE(n2, entries);/* Deletion. */
free(n2);
/* Forward traversal. */
LIST_FOREACH(np, &head, entries)
np-> ...
/* Safe forward traversal. */
LIST_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    LIST_REMOVE(np, entries);
    free(np);
}

while (!LIST_EMPTY(&head)) { /* List Deletion. */
    n1 = LIST_FIRST(&head);
    LIST_REMOVE(n1, entries);
    free(n1);
}

n1 = LIST_FIRST(&head); /* Faster List Deletion. */
while (n1 != NULL) {
    n2 = LIST_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
LIST_INIT(&head);
.Ed
.Sh TAIL QUEUES
A tail queue is headed by a structure defined by the
.Nm TAILQ_HEAD
macro.
This structure contains a pair of pointers,
one to the first element in the tail queue and the other to
the last element in the tail queue.
The elements are doubly linked so that an arbitrary element can be
removed without traversing the tail queue.
New elements can be added to the tail queue after an existing element,
before an existing element, at the head of the tail queue,
or at the end of the tail queue.
A
.Fa TAILQ_HEAD
structure is declared as follows:
.Bd -literal -offset indent
TAILQ_HEAD(HEADNAME, TYPE) head;
.Ed
.Pp
where
.Li HEADNAME
is the name of the structure to be defined, and
.Li TYPE
is the type of the elements to be linked into the tail queue.
A pointer to the head of the tail queue can later be declared as:
struct HEADNAME *headp;

(The names head and headp are user selectable.)

The macro TAILQ_HEAD_INITIALIZER evaluates to an initializer for the tail queue head.

The macro TAILQ_CONCAT concatenates the tail queue headed by head2 onto the end of the one headed by head1 removing all entries from the former.

The macro TAILQ_EMPTY evaluates to true if there are no items on the tail queue.

The macro TAILQ_ENTRY declares a structure that connects the elements in the tail queue.

The macro TAILQ_FIRST returns the first item on the tail queue or NULL if the tail queue is empty.

The macro TAILQ_FOREACH traverses the tail queue referenced by head in the forward direction, assigning each element in turn to var. var is set to NULL if the loop completes normally, or if there were no elements.
The macro `.Nm TAILQ_FOREACH.Reverse` traverses the tail queue referenced by `.Fa head` in the reverse direction, assigning each element in turn to `.Fa var`.

The macros `.Nm TAILQ_FOREACH.Safe` and `.Nm TAILQ_FOREACH.Reverse.Safe` traverse the list referenced by `.Fa head` in the forward or reverse direction respectively, assigning each element in turn to `.Fa var`.

However, unlike their unsafe counterparts, `.Nm TAILQ_FOREACH` and `.Nm TAILQ_FOREACH.Reverse` permit to both remove `.Fa var` as well as free it from within the loop safely without interfering with the traversal.

The macro `.Nm TAILQ_Init` initializes the tail queue referenced by `.Fa head`.

The macro `.Nm TAILQ_Insert.Head` inserts the new element `.Fa elm` at the head of the tail queue.

The macro `.Nm TAILQ_Insert.Tail` inserts the new element `.Fa elm` at the end of the tail queue.

The macro `.Nm TAILQ_Insert.After` inserts the new element `.Fa elm` after the element `.Fa listelm`.
The macro `TAILQ_INSERT_BEFORE` inserts the new element `elm` before the element `listelm`.

The macro `TAILQ_LAST` returns the last item on the tail queue. If the tail queue is empty the return value is `NULL`.

The macro `TAILQ_NEXT` returns the next item on the tail queue, or `NULL` if this item is the last.

The macro `TAILQ_PREV` returns the previous item on the tail queue, or `NULL` if this item is the first.

The macro `TAILQ_REMOVE` removes the element `elm` from the tail queue.

The macro `TAILQ_SWAP` swaps the contents of `head1` and `head2`.

```
TAILQ_HEAD(tailhead, entry) head =
    TAILQ_HEAD_INITIALIZER(head);
struct tailhead *headp; /* Tail queue head. */
struct entry {
    ...
    TAILQ_ENTRY(entry) entries; /* Tail queue. */
    ...
} *n1, *n2, *n3, *np;

TAILQ_INIT(&head); /* Initialize the queue. */
```
n1 = malloc(sizeof(struct entry)); /* Insert at the head. */
TAILQ_INSERT_HEAD(&head, n1, entries);

n1 = malloc(sizeof(struct entry)); /* Insert at the tail. */
TAILQ_INSERT_TAIL(&head, n1, entries);

n2 = malloc(sizeof(struct entry)); /* Insert after. */
TAILQ_INSERT_AFTER(&head, n1, n2, entries);

n3 = malloc(sizeof(struct entry)); /* Insert before. */
TAILQ_INSERT_BEFORE(n2, n3, entries);

TAILQ_REMOVE(&head, n2, entries); /* Deletion. */
free(n2);
/* Forward traversal. */
TAILQ_FOREACH(np, &head, entries)
    np-> ... 
/* Safe forward traversal. */
TAILQ_FOREACH_SAFE(np, &head, entries, np_temp) {
    np->do_stuff();
    ...
    TAILQ_REMOVE(&head, np, entries);
    free(np);
}
/* Reverse traversal. */
TAILQ_FOREACH_REVERSE(np, &head, tailhead, entries)
    np-> ... 
/* TailQ Deletion. */
while (!TAILQ_EMPTY(&head)) {
    n1 = TAILQ_FIRST(&head);
    TAILQ_REMOVE(&head, n1, entries);
    free(n1);
}
/* Faster TailQ Deletion. */
n1 = TAILQ_FIRST(&head);
while (n1 != NULL) {
    n2 = TAILQ_NEXT(n1, entries);
    free(n1);
    n1 = n2;
}
TAILQ_INIT(&head);
.Ed
.Sh SEE ALSO
.Xr tree 3
.Sh HISTORY
The
.Nm queue
functions first appeared in
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1.383 tcp-dump 4.9.3-0ubuntu0.18.04.1

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1.384 mlocate 0.26-2ubuntu3.1

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AC_DEFUN([gl_CANONICALIZE_LGPL],
[
    dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
AC_CHECK_DECLS_ONCE(canonicalize_file_name)
AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
if test $ac_cv_func_canonicalize_file_name = no; then
  AC_LIBOBJ(canonicalize-lgpl)
  AC_DEFINE([realpath], [rpl_realpath],
    [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
fi
)
}

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
  []
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
)
)

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
  [
    AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
    AC_CHECK_FUNCS_ONCE(getcwd readlink)
  ]
)

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1.385 python-stdlib-extensions 3.6.9-1~18.04
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   =============================

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

   In 1995, Guido continued his work on Python at the Corporation for
   National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
   in Reston, Virginia where he released several versions of the
   software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see http://www.digicool.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Digital Creations is a sponsoring member of the PSF.

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1.388 pcre 8.39 9
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1.389 beanutils 1.8.3

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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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# STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

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1.393 libxml 2.9.4+dfsg1-6.1ubuntu1.3

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

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

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package cmd

func initLGPL() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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    Name: "MIT License",
    PossibleMatches: []string{"mit"},
    Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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Protocol Buffers for Go with Gadgets

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

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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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  Licenses["gpl2"] = License{
    Name: "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `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.

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tomb - support for clean goroutine termination in Go.

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn’t check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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package cmd

func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.

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package cmd

import ( "strings" "time"

"github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of the license, its possible matches (on the command line as given to cobra), the header to be used with each file on the file's creating, and the text of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
year := viper.GetString("year") // For tests.
if year == "" {
year = time.Now().Format("2006")
}

return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
found := matchLicense(name)
if found == "" {
er("unknown license: " + name)
}
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
if name == "" {
return ""
}
for key, lic := range Licenses {
for _, match := range lic.PossibleMatches {
if strings.EqualFold(name, match) {
return key
}
}
return ""
}
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func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affer o gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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cmd

func initGpl3() {
  //
  Licenses["gpl3"] = License{
    Name: "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    Header: `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 3 of the License, or
    (at your option) any later version.`
}
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BSON library for Go

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That's all there is to it!

mgo - MongoDB driver for Go

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 */

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// from https://spdx.org/licenses/
var osi = []string{
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Open Source Used In IOx-FogDirector_AC12 1.11.06359
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"Zimbra-1.4",
"Zlib",

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"ZPL-1.1",
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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4ltKRW4rzMI TYifvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPlDea rXTOesGWXg9Afb57mA

var licenseExceptions = []string{
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  "Bison-exception-2.2",
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  "GCC-exception-2.0",
  "GCC-exception-3.1",
  "WxWindows-exception-3.1",
}

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Source: https://github.com/snapcore/snapd
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BSON library for Go

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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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1.410 goprotobuf 1.3.3

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1.411 glib-networking 2.56.0-1

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1.413 hazelcast 3.12.2

1.413.1 Available under license:
# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported
commercially by FasterXML.com.

## Licensing

Jackson core and extension components may licensed under different licenses.
To find the details that apply to this artifact see the accompanying LICENSE file.
For more information, including possible other licensing options, contact
FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included
in some artifacts (usually source distributions); but is always available
from the source code management (SCM) system project uses.
package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
package com.hazelcast.security.permission;

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);  
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */

    //private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

    public static class SecurityPermission {
        private static final int ALL = CREATE | DESTROY;

        public SecurityPermission(String name, String... actions) {
            super(name, actions);
        }

        @Override
        protected int initMask(String[] actions) {
            int mask = NONE;
            for (String action : actions) {
                if (ActionConstants.ACTION_ALL.equals(action)) {
                    return ALL;
                } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                    mask |= CREATE;
                } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                    mask |= DESTROY;
                }
            }
            return mask;
        }
    }
}

}
package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashcode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashcode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashcode = result;
        }
        return hashcode;
    }
}
return hashcode;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}

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*/

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    }
public RingBufferPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}

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 */
package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {
    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

package com.hazelcast.security.permission;

public class TopicPermission extends InstancePermission {
    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
            mask |= PUBLISH;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {
    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}

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 */
package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            }
        }
        return mask;
    }
}
else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}
else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}
else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
}
else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
}
else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
}
return mask;
}
*/

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*/

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;

        return mask;
    }
}
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
} return mask;
*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

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    * limitations under the License.
    */
@Override
public boolean implies(Permission permission) {
    return true;
}

@Override
public String getActions() {
    return "<all actions>";
}

@Override
public PermissionCollection newPermissionCollection() {
    return new AllPermissionsCollection();
}

@Override
public String toString() {
    return "<allow all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof AllPermissions;
}

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }
}
public boolean implies(Permission permission) {
    return all;
}

public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        public boolean hasMoreElements() {
            return more;
        }

        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

public int hashCode() {
    return all ? 13 : -13;
}

public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

public String toString() {
    return "<allow all permissions>";
}
package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX | INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {

                } else if (ActionConstants.ACTION_REMOVE.equals(action)) {

                } else if (ActionConstants.ACTION_READ.equals(action)) {

                } else if (ActionConstants.ACTION_LISTEN.equals(action)) {

                } else if (ActionConstants.ACTION_LOCK.equals(action)) {

                } else if (ActionConstants.ACTION_INDEX.equals(action)) {

                } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {

            }
        }

        return mask;
    }
}

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 */
mask |= DESTROY;
} else if (ActionConstants.ACTION_PUT.equals(action)) {
    mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_INDEX.equals(action)) {
    mask |= INDEX;
} else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
    mask |= INTERCEPT;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class FlakeIdGeneratorPermission extends InstancePermission {

    private static final int MODIFY = 4;

    private static final int ALL = MODIFY | CREATE | DESTROY;

    public FlakeIdGeneratorPermission(String name, String... actions) {
        super(name, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }
    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
    return mask;
}

-package com.hazelcast.security.permission;
import com.hazelcast.internal.usercodedeployment.UserCodeDeploymentService;

public class UserCodeDeploymentPermission extends InstancePermission {

    private static final int DEPLOY = 4;
    private static final int ALL = DEPLOY;

    public UserCodeDeploymentPermission(String... actions) {
        super(UserCodeDeploymentService.SERVICE_NAME, actions);
    }
}
@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }

    if (ActionConstants.ACTION_USER_CODE_DEPLOY.equals(action)) {
        mask |= DEPLOY;
    }
    return mask;
}

package com.hazelcast.security.permission;

public class CountDownLatchPermission extends InstancePermission {
    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountDownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
    }

    return mask;
}

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*/
return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
}
}
return mask;
}
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 */

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {

int mask = NONE;
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}
return mask;
}*/

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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
for (String action : actions) {
    if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    }
}

return mask;

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {
    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }

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     */

    package com.hazelcast.security.permission;

    public class CardinalityEstimatorPermission extends InstancePermission {
        private static final int READ = 4;
        private static final int MODIFY = 8;
        private static final int ALL = READ | MODIFY | CREATE | DESTROY;

        public CardinalityEstimatorPermission(String name, String... actions) {
            super(name, actions);
        }

        @Override
        protected int initMask(String[] actions) {
            int mask = NONE;
            for (String action : actions) {
                if (ActionConstants.ACTION_ALL.equals(action)) {
                    return ALL;
                }

                if (ActionConstants.ACTION_CREATE.equals(action)) {
                    mask |= CREATE;
                } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                    mask |= DESTROY;
                }
            }
            return mask;
        }
    }
if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_MODIFY.equals(action)) {
    mask |= MODIFY;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
}
}
return mask;
}

package com.hazelcast.security.permission;

public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {

return ALL;
}
if (ActionConstants.ACTION_ALL.equals(action)) {
    return ALL;
}

if (ActionConstants.ACTION_CREATE.equals(action)) {
    mask |= CREATE;
} else if (ActionConstants.ACTION_DESTROY.equals(action)) {
    mask |= DESTROY;
} else if (ActionConstants.ACTION_LOCK.equals(action)) {
    mask |= LOCK;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
}

return mask;

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

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 */

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;
private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();
protected final int mask;
protected final String actions;
public InstancePermission(String name, String... actions) {
super(name);
if (name == null || "".equals(name)) {
throw new IllegalArgumentException("Permission name is mandatory!");
}
mask = initMask(actions);
final StringBuilder s = new StringBuilder();
for (String action : actions) {
s.append(action).append(" ");
}
// trim the trailing space
if (s.length() > 0) {
s.setLength(s.length() - 1);
}
this.actions = s.toString();
}
/**
* init mask
*/
protected abstract int initMask(String[] actions);
@Override
public boolean implies(Permission permission) {
if (this.getClass() != permission.getClass()) {
return false;
}
InstancePermission that = (InstancePermission) permission;
boolean maskTest = ((this.mask & that.mask) == that.mask);
if (!maskTest) {
return false;
}
return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}
@Override
public String getActions() {
return actions;

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@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}

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 */
package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

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 */
package com.hazelcast.security.permission;

class PNCounterPermission extends InstancePermission {
  private static final int READ = 4;
  private static final int MODIFY = 8;
  private static final int ALL = READ | MODIFY | CREATE | DESTROY;

  public PNCounterPermission(String name, String... actions) {
    super(name, actions);
  }

  @Override
  protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
      if (ActionConstants.ACTION_ALL.equals(action)) {
        return ALL;
      }

      if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
      } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
      } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
      } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
      }
    }
    return mask;
  }
}

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 */
package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }

        return mask;
    }

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*/

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return false;
            }

            @Override
            public Permission nextElement() {
                return null;
            }
        };
    }

    @Override
    public int hashCode() {
        return 37;
    }

    @Override
    public String toString() {
        return "<deny all permissions>";
    }
}
package com.hazelcast.security.permission;

import java.security.Permission;

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 */

package com.hazelcast.security.permission;

import java.security.Permission;

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 */

public class ConfigPermission extends ClusterPermission {

    private static final String CONFIG_PERMISSION_NAME = "<config>";
    private static final String CONFIG_PERMISSION_ACTIONS = "config";

    public ConfigPermission() {
        super(CONFIG_PERMISSION_NAME);
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return CONFIG_PERMISSION_ACTIONS;
    }
}
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*/

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;
    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }

        return mask;
    }
}
package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            } else if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            }
        }
        return mask;
    }

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     */
mask |= PUT;
} else if (ActionConstants.ACTION_REMOVE.equals(action)) {
    mask |= REMOVE;
} else if (ActionConstants.ACTION_READ.equals(action)) {
    mask |= READ;
} else if (ActionConstants.ACTION_LISTEN.equals(action)) {
    mask |= LISTEN;
}

return mask;
}

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package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    public ClusterPermissionCollection(PermissionCollection collection) {
        super(collection);
        this.permClass = collection.getPermissionClass();
        this.perms = new HashSet<Permission>(collection.getPermissions());
    }

    public int getPermissionsCount() {
        return perms.size();
    }

    public void addPermission(Permission p) {
        perms.add(p);
    }

    public void removePermission(Permission p) {
        perms.remove(p);
    }

    // Other methods...
}

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;

public class ClusterPermissionCollection extends PermissionCollection {

    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;

    public ClusterPermissionCollection() {
        permClass = null;
    }

    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }

    public ClusterPermissionCollection(PermissionCollection collection) {
        super(collection);
        this.permClass = collection.getPermissionClass();
        this.perms = new HashSet<Permission>(collection.getPermissions());
    }

    public int getPermissionsCount() {
        return perms.size();
    }

    public void addPermission(Permission p) {
        perms.add(p);
    }

    public void removePermission(Permission p) {
        perms.remove(p);
    }

    // Other methods...
}
this.permClass = permClass;
}

@Override
public void add(Permission permission) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
    || (permission instanceof ClusterPermission);
    if (shouldAdd && !implies(permission)) {
        perms.add(permission);
    }
}

public void add(PermissionCollection permissions) {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
}
break;
}
}
if (implies) {
    iter.remove();
}
}
setReadOnly();
}

@Override
publicEnumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

publicSet<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "]";
}

package com.hazelcast.security.permission;

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;


public AtomicLongPermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }
        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}

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*/

/**
* Contains Hazelcast client permissions.
*
* @see com.hazelcast.security.jsm
*/
package com.hazelcast.security.permission;

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*/
package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.cp.internal.datastructures.atomic.long.RaftAtomicLongService;
import com.hazelcast.cp.internal.datastructures.atomic.ref.RaftAtomicRefService;
import com.hazelcast.cp.internal.datastructures.countdown.latch.RaftCountDownLatchService;
import com.hazelcast.cp.internal.datastructures.lock.RaftLockService;
import com.hazelcast.cp.internal.datastructures.semaphore.RaftSemaphoreService;
import com.hazelcast.cr.d.t.pncounter.PNCounterService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.flakeidgen.impl.FlakeIdGeneratorService;
import com.hazelcast.internal.usercodedeploymentUserCodeDeploymentService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

@SuppressWarnings("checkstyle:executablestatementcount")
public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";
    public static final String ACTION_PUBLISH = "publish";
    public static final String ACTION_AGGREGATE = "aggregate";
    public static final String ACTION_PROJECTION = "projection";
    public static final String ACTION_USER_CODE_DEPLOY = "deploy";

    private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(RaftAtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new CountDownLatchPermission(name, actions);
        }
    });
}
return new CountDownLatchPermission(name, actions);
}
});
PERMISSION_FACTORY_MAP.put(RaftCountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftSemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftLockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});

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@Override
public Permission create(String name, String... actions) {
    return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
}
});
PERMISSION_FACTORY_MAP.put(FlakeIdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new FlakeIdGeneratorPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RaftAtomicRefService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
}

PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});

PERMISSION_FACTORY_MAP.put(UserCodeDeploymentService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return newUserCodeDeploymentPermission(actions);
    }
});

PERMISSION_FACTORY_MAP.put(PNCounterService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new PNCounterPermission(name, actions);
    }
});

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }
}
package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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func initLgpl() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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Protocol Buffers for Go with Gadgets

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

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    Licenses["freebsd"] = License{
        Name:  "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)
// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
// 
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text"))
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
        if strings.EqualFold(name, match) {
            return key
        }
    }
}

return ""
}

package cmd

func initAgpl() {
    Licenses["agpl"] = License{
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cfunc initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: ["bsd", "newbsd", "3 clause bsd", "3-clause bsd"],
        Header: `All rights reserved.
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cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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tomb - support for clean goroutine termination in Go.

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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BSON library for Go

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package cmd

func initApache2() {
Licenses["apache"] = License{
Name: "Apache 2.0",
PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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1.422 libogg 1.3.2.1

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The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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    func initAgpl() {
        Licenses["agpl"] = License{
            Name: "GNU Affero General Public License",
            PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
            Header: `This program is free software: you can redistribute it and/or modify
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import (  "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}
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package cmd

func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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Protocol Buffers for Go with Gadgets

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    Licenses["mit"] = License{
        Name: "MIT License",
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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["gpl2"] = License{
        Name:    "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    }
}
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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved. Redistribution and use in source and binary forms, with or without
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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
  // If explicitly flagged, use that.
  if userLicense != "" {
    return findLicense(userLicense)
  }

  // If user wants to have custom license, use that.
  if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                   Text: viper.GetString("license.text")}
  }

  // If user wants to have built-in license, use that.
  if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
  }

  // If user didn't set any license, use Apache 2.0 by default.
  return Licenses["apache"]
}

func copyrightLine() string {
  author := viper.GetString("author")
  year := viper.GetString("year") // For tests.
  if year == "" {
    year = time.Now().Format("2006")
  }

  return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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mgo - MongoDB driver for Go

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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tomb - support for clean goroutine termination in Go.

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).
With this starting point the community will, under the supervision of Canonical and Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

**Licensing**

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners' experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with
individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):
  * [5]SIL International
  * [6]Open Font Library
  * [7]Software Freedom Law Center
  * [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:
  * [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.
  * [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.
  * [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more)
licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [Ubuntu Font License (UFL)](http://example.com). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

1. Document embedding (see [embedding section above](#)).
2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [ofl-1.1-ufl-1.0.diff.html](#)
References

13. https://launchpad.net/~uff-contributors

1.441 base-passwd 3.5.44

1.441.1 Available under license:
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
Copyright: Copyright 1999-2002 Wichert Akkerman <wichert@deephackmode.org>
Copyright 2002, 2003, 2004 Colin Watson <cjwatson@debian.org>
License: GPL-2

Files: passwd.master, group.master
License: PD
X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
Bruce Perens <bruce@pixar.com>.

Files: doc/*
Copyright: Copyright 2001, 2002 Joey Hess
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1.445 apr 1.6.3-2

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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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:

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To apply these terms, attach the following notices to the library. 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 library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
- the libintl and libasprintf libraries and their header files,
- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
- the gettext.sh shells script function library.
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freedom to share and change it. By contrast, the GNU General Public
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This license, the Lesser General Public License, applies to some
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it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

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

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

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

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

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

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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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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:

The modified work must itself be a software library.

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

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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.

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.

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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.

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

- 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
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@item
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.

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

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@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

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

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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
@item
Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Theodore Ts'o
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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall:
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.455 six 1.11.0 2
1.455.1 Available under license :

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1.456 cron 3.0pl1-128.1ubuntu1

1.457 zstd 1.3.3+dfsg 2ubuntu1.1
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**1.465 go-capability 3.0.3-0ubuntu1~18.04.1**

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*/

package legal

import (
  "testing"
func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

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package cmd

func initAgpl() {
Licenses["agpl"] = License{
    Name: "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
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mgo - MongoDB driver for Go

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BSON library for Go

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*/

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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func initApache2() {
Licenses["apache"] = License{
Name: "Apache 2.0",
PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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func initGpl3() {
  Licenses["gpl3"] = License{
    Name:            "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    Header: `This program is free software: you can redistribute it and/or modify
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package cmd

import (  
    "strings"  
    "time"  

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.  
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license  
type License struct {  
    Name            string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text            string   // License text data  
    Header          string   // License header for source files  
}

func init() {  
    // Allows a user to not use a license.  
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()  
    initMit()  
    initBsdClause3()  
    initBsdClause2()  
    initGpl2()  
    initGpl3()  
    initLGPL()  
    initAgpl()  
}

// getLicense returns license specified by user in flag or in config.  
// If user didn't specify the license, it returns Apache License 2.0.  
//  
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {

func initLGPL() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `
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func initGpl2() {  
Locations["gpl2"] = License{  
Name: "GNU General Public License 2.0",  
PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},  
Header: '  
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    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `  
        Permission is hereby granted, free of charge, to any person obtaining a copy
        of this software and associated documentation files (the "Software"), to deal
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    }
}
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tomb - support for clean goroutine termination in Go.

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        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
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Protocol Buffers for Go with Gadgets

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

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(For example, a function in a library to compute square roots has
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1.488 argon2 0~20161029-1.1

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1.491 libfile-fcntllock-perl 0.22-3build2
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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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src/bsd_getopt.c
src/err.c
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include/bsd/sys/queue.h
include/bsd/sys/time.h
include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwl.3bsd
man/fpurge.3bsd
man/funopen.3bsd
man/getbsize.3bsd
man/heapsort.3bsd
man/nlist.3bsd
man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
man/reallocf.3bsd
man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcscpy.3bsd
src/getbsize.c
src/heapsort.c
src/merge.c
src/nlist.c
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man/humanize_number.3bsd
man/stringlist.3bsd
man/timeval.3bsd
src/fmtcheck.c
src/humanize_number.c
src/stringlist.c

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man/byteorder.3bsd
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man/expand_number.3bsd
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man/getpeereid.3bsd
man/pidfile.3bsd
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- src/arc4random_openbsd.h
- src/arc4random_uniform.c
- src/closefrom.c
- src/getentropy_aix.c
- src/getentropy_bsd.c
- src/getentropy_hpux.c
- src/getentropy_hurd.c
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- src/getentropy_osx.c
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam(pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID to %d temporarily\n",
+                        pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }

finished:
+finished:
+  if (pam_modutil_regain_priv(pamh, &privs)) {
+    pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+    retval = PAM_SESSION_ERR;
+  }
+
+  _pam_drop(flag);
+  _pam_drop(dir);
+}
+
+ return retval;
+
extern
int pam_sm_open_session(pam_handle_t *pamh, int flags,
        int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.513 spring-web-mvc 5.2.4
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**1.515 gpm 1.20.7 5**

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===============

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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1.517 xfsprogs 4.9.0+nmu1ubuntu2

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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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also 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:

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

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

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

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

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

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

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

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1.525 gnupg1 1.4.22-3ubuntu2

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Julian Seward, jseward@bzip.org
bzlib/libbz2 version 1.0.6 of 6 September 2010

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1.527 tar 1.29b 2ubuntu0.1

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1.534 shadow 4.5 1ubuntu2

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func initAgnpl() {
  Licenses["agpl"] = License{
    Name:            "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "afferogpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:          "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header:        "All rights reserved.
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```
}
```

mgo - MongoDB driver for Go

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: ["gpl2", "gnu gpl2", "gplv2"],
        Header: `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.

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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package legal

var licenses []string

// RegisterLicense stores the license text. // It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}
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package cmd

func initMit() {
Licenses["mit"] = License{
Name: "MIT License",
PossibleMatches: []string{"mit"},
Header: ` Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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tomb - support for clean goroutine termination in Go.

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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, ",", "}
    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
// getLicense returns license specified by user in flag or in config.  // If user didn't specify the license, it returns Apache License 2.0.  // TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.  // If it didn't find license, then the app will be terminated and  // error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
}
// matchLicense compares the given a license name to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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func initBsdClause2() {

Licenses["freebsd"] = License{
  Name: "Simplified BSD License",
  PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                           "2 clause bsd", "simplified bsd license"},
  Header: `All rights reserved.

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func initApache2() {
  Licenses["apache"] = License{
    Name:            "Apache 2.0",
    PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

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  conf:
    client:
      fuse set user groups: true
      fuse default permissions: false
    client acl type: posix_acl

tasks:
  - workunit:
    timeout: 6h
    clients:
      all:
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BSON library for Go

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Gocheck - A rich testing framework for Go

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 *
*/

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// from https://spdx.org/licenses/
var osi = []string{
    "AFL-1.1",
    "AFL-1.2",
    "AFL-2.0",
    "AFL-2.1",
    "AFL-3.0",
    "APL-1.0",
    "Apache-1.1",
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    "AAL",
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    "BSD-2-Clause",
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}
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"MIT",
"Motosoto",
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"Multics",
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"Nokia",
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"BSD-3-Clause-No-Nuclear-License-2014",
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"BSD-4-Clause",
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"HPND",
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"IPL-1.0",
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"I4G"
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"NLPL",
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"Noweb",
"NRL",
"NTP",

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"Rdisc",
"RPSL-1.0",

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"Ruby",
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"SWL",
"SMPPL",
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"SGI-B-2.0",
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"OFL-1.1",

"SimPL-2.0",

"Sleepycat",

"SNIA",
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"Spencer-94",
"Spencer-99"
"SMLNJ",
"SugarCRM-1.1.3",
"SISSL",

"SISSL-1.2",
"SPL-1.0",

"Watcom-1.0",

"TCL",
"TCP-wrappers",
"Unlicense",
"TMate",
"TORQUE-1.1",
"TOSL",
"Unicode-DFS-2015",
"Unicode-DFS-2016",
"Unicode-TOU",
"UPL-1.0",

"NCSA",

"Vim",
"VOSTROM",
"VSL-1.0",

"W3C-20150513",
"W3C-19980720",
"W3C",

"Wsuipa",
"Xnet",

"X11",
"Xerox",
"XFree86-1.1",
"xinetd",
"xpp",
"XSkat",
"YPL-1.0",
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"Zed",
"Zend-2.0",
"Zimbra-1.3",
"Zimbra-1.4",
"Zlib",

"zlib-acknowledgement"
"ZPL-1.1",
"ZPL-2.0",

"ZPL-2.1",

// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291AG9wIJmQoE4lKRW4rzM1TYiVVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarXlTOesGWxsGiAfb57mA

var licenseExceptions = [
"Autoconf-exception-2.0",
"Bison-exception-2.2",
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"eCos-exception-2.0",
"Font-exception-2.0",
"GCC-exception-2.0",
"GCC-exception-3.1",
"WxWindows-exception-3.1",
]

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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1.542 apparmor 2.12-4ubuntu5.1

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BSON library for Go

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 *
 */

package spdx

// from https://spdx.org/licenses/
var osi = []string{
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// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIImQoE4tKRW4rzM1TYilvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdE9eX1TOesGWxg9Afb57mA
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"GCC-exception-2.0",
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}

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Gocheck - A rich testing framework for Go

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tomb - support for clean goroutine termination in Go.

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1.547 godbus 2.42.1+18.04

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// from https://spdx.org/licenses/
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// FIXME: non SPDX licenses that the snapstore uses
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// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291AC9w1ImQoE4hKRW4rzMITYi1vEVOs/edit?pli%3D1%23heading%3Dh.ruw3y18g6czd&sa=D&ust=1473291615601000&usg=
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Version 3, 29 June 2007

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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Gocheck - A rich testing framework for Go

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1.548 libavc 0.5.4-4build1

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1.549 netty-codec-dns 4.1.42

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1.550 liblocale-gettext-perl 1.07-3build2

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1.551 influxdb-java 2.1

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1.552 ubuntu-release-upgrader 18.04.37

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1.559 libsepol 2.7-1

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Manoj Srivastava <srivasta@debian.org>
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1.560 python 2.7.6-8ubuntu0.2

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
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The `mod`:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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

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

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------------------

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Modified by Jack Jansen, CWI, July 1995:  
- Use binascii module to do the actual line-by-line conversion  
  between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.  
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--------------------------

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-------------

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---------

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

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

strtod and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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

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

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<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.562 pyxdg 0.25 4ubuntu1

1.562.1 Available under license:
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Version 2, June 1991

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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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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END OF TERMS AND CONDITIONS

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Ty Coon, President of Vice

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1.563 libalgorithm-merge-perl 0.08-3
1.563.1 Available under license :

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Upstream-Contact: James G. Smith <jsmith@cpan.org>
Source: https://metacpan.org/release/Algorithm-Merge

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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4. Removing some modules altogether without replacing them.

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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code to PyCrypto must be able to certify the following (taken from the Linux
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In addition, the code's author must not be a national, citizen, or resident of the United States of America.

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=== EOF ===

1.565 springfoxswagger 2.9.2
1.565.1 Available under license :

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tomb - support for clean goroutine termination in Go.

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bmatsuo
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theory
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is`
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/*

// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}
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func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `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 3 of the License, or
(at your option) any later version. `}
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    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: ` This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
        "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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BSON library for Go

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    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `
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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: ` This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License

Open Source Used In IOx-FogDirector_AC12 1.11.08898`
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func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", ["none", "false"], "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
initGpl3()
initLGPL()
initAGPL()

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

package legal

import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
if initial+1 != len(licenses) {
    t.Fatal("didn't add a license")
}
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1.568 vim 8.0.1453-1ubuntu1.3
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*uganda.txt*    For Vim version 8.2.  Last change: 2020 Jan 08

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      - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
  [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.

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  MODIFIED_BY define.
Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a
volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

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1.569 installation-report 2.62ubuntu1

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1.576 linux-signed 4.15.0-74.84

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Gocheck - A rich testing framework for Go

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tomb - support for clean goroutine termination in Go.

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*/

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// from https://spdx.org/licenses/
var osi = []string{
    "AFL-1.1",
    "AFL-1.2",
    "AFL-2.0",
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"MIT",
"Motosoto",
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"MPL-1.0",
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"MPL-2.0-no-copyleft-exception",
"Multics",
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"OFL-1.1",

Open Source Used In IOx-FogDirector_AC12 1.11.09066
"SimPL-2.0",
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"TMate",
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"TOSL",
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"Unicode-TOU",
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"Zlib",

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"ZPL-1.1",
"ZPL-2.0",

"ZPL-2.1",

// FIXME: non SPDX licenses that the snapstore uses
"Proprietary",
}

// from https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoEl4lKRW4rzM1TYilvEVOs/edit?pli%3D1%23heading%3Dh.ruv3yI8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLdEarX1TOesGWxg9Afb57mA
var licenseExceptions = []string{
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"Bison-exception-2.2",
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"GCC-exception-3.1",
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}
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BSON library for Go

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mgo - MongoDB driver for Go

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Upstream-Name: snappy

Source: https://github.com/snapcore/snapd

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tomb - support for clean goroutine termination in Go.

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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*/

package spdx

// from https://spdx.org/licenses/
var osi = []string{
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BSON library for Go

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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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# Contributions to the urllib3 project

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  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Better unicode support for filepost using StringIO buffers

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  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts
* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.
* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.
* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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1.595 d-bus 1.12.2 1ubuntu1.1

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1.603 libjpeg 6b

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DOCUMENTATION ROADMAP

This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

OVERVIEW
========

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

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpegs" and "djpegs", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.
In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.
The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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

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

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

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

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

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

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

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

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

RELATED SOFTWARE

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

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

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

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

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

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

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary

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

As always, speeding things up is of great interest.

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

1.604 libksba 1.3.5-2

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1.607 libcap 2.42.1+18.04

1.607.1 Available under license:

mgo - MongoDB driver for Go

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Gucheck - A rich testing framework for Go

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Version 3, 29 June 2007

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 *
 */

package spdx

// from https://spdx.org/licenses/
var osi = []string{
  "AFL-1.1",
  "AFL-1.2",

```
"AFL-2.0",
"AFL-2.1",
"AFL-3.0",
"APL-1.0",
"Apache-1.1",
"Apache-2.0",
"APSL-1.0",
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"APSL-1.2",
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"Artistic-1.0",
"Artistic-1.0-Perl",
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"AAL",
"BSL-1.0",
"BSD-2-Clause",
"BSD-3-Clause",
"0BSD",
"CECILL-2.1",
"CNRI-Python",
"CDDL-1.0",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"CUA-OPL-1.0",
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"ECL-1.0",
"ECL-2.0",
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"Entessa",
"EUDatagrid",
"EUPL-1.1",
"Fair",
"Frameworx-1.0",
"AGPL-3.0",
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"LGPL-3.0",
"LGPL-2.0",
"HPND",
"IPL-1.0",
"Intel",
"IPA",
"ISC",
"LPPL-1.3c"
"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",
"LiLiQ-R-1.1",
"LPL-1.02",
"LPL-1.0",
"MS-PL",
"MS-RL",
"Mitoso",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"Multics",
"NASA-1.3",
"Naumen",
"NGPL",
"Nokia",
"NPOS-3.0",
"NTP",
"OCLC-2.0",
"OGTSL",
"OSL-1.0",
"OSL-2.0",
"OSL-2.1",
"OSL-3.0",
"OSET-PL-2.1",
"PHP-3.0",
"PostgreSQL",
"Python-2.0",
"QPL-1.0",
"RPSL-1.0",
"RPL-1.1",
"RPL-1.5",
"RSCPL",
"OFIL-1.1",
"SimPL-2.0",
"Sleepycat",
"SISSL",
"SPL-1.0",
"Watcom-1.0",
"UPL-1.0",
"NCSA",
"VSL-1.0",
"W3C",
"Xnet",
"Zlib"
"ZPL-2.0",
}

var allLicenses = []string{
  "Glide",
  "Abstyles",
  "AFL-1.1",
  "AFL-1.2",
  "AFL-2.0",
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  "AFL-3.0",
  "AMPAS",
  "AFL-1.0",
  "Adobe-Glyph",
  "APAFML",
  "Adobe-2006",
  "AGPL-1.0",
  "Afmparse",
  "Aladdin",
  "ADS-L",
  "AMDOPLPA",
  "ANTLR-PD",
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  "Artistic-1.0-Perl",
  "Artistic-1.0-cl8",
  "Artistic-2.0",
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  "Bahyph",
  "Barr",
  "Beerware",
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  "BSD-2-Clause-FreeBSD",
  "BSD-2-Clause-NetBSD",
  "BSD-3-Clause",
  "BSD-3-Clause-Clear",
  "BSD-3-Clause-No-Nuclear-License",\n"
"BSD-3-Clause-No-Nuclear-License-2014",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-4-Clause",
"BSD-Protection",
"BSD-Source-Code",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
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"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"ClArtistic",
"MIT-CMU",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPOL-1.02",
"CDDL-1.0",
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"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"Condor-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-ND-1.0",
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"CC-BY-ND-3.0",
"CC-BY-ND-4.0",
"CC-BY-NC-1.0",
"CC-BY-NC-2.0",
"CC-BY-NC-2.5",
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"CC-BY-NC-ND-3.0"
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"GFDL-1.2",
"GFDL-1.3",
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"LGPL-3.0",
"LGPL-2.0",
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"gSOAP-1.3b",
"HaskellReport",
"HPND",
"IBM-pibs",
"IPL-1.0",
"ICU",
"ImageMagick",
"iMatix",
"Imlib2",
"IJJG",
"Info-ZIP",
"Intel-ACPI",
"Intel",
"Interbase-1.0",
"IPA",
"ISC",
"JasPer-2.0",
"JSON",
"LPPL-1.0",
"LPPL-1.1",
"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
"Latex2e",
"BSD-3-Clause-LBNL",
"Leptonica",
"LGPLL",
"Libpng",
"libtiff",
"LAL-1.2",
"LAL-1.3",
"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",
"LiLiQ-R-1.1",
"LPL-1.02",
"LPL-1.0"
"MakeIndex",
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// FIXME: non SPDX licenses that the snapstore uses

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}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4ltKRW4rzML1TYiwEVOs/edit?pli=1%23heading%3Dh.ruv3yl8g6czd&sa=D&ust=1473291615601000&usg=AFQjCNCNFeLcPLdEarX1TOesGWxg9Afb57mA

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Upstream-Name: snappy
Source: https://github.com/snapcore/snapd

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Version 3, 29 June 2007

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

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

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

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1.614 gcc-defaults 7.4.0 1ubuntu2.3

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Definitions for BSD assembler syntax for Intel 386 (actually AT&T syntax for insns and operands, adapted to BSD conventions for symbol names and debugging.)

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */
/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "t.byte\t"
#define ASM_SHORT "t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE)  
fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUTAligned_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%du,%du\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#endif

*/
/* This is how to output an assembler line */
that says to advance the location counter
to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG)
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF */
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009
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This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

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0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

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"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.
A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

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#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
# This script 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 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            ...]
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'	')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):

return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years.  Include '.' for typos.
    ranges = '[0-9][?:[-0-9,\s]\[s+and\$s+]*[0-9]]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w,.-]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+' )

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|name')

    # Matches a full copyright notice:
    self.copyright_re = re.compile (  
        # 1: 'Copyright (C)', etc.
        '([Cc]opyright'  
        '([Cc]opyrights+\([Cc]\))'  
        '([Cc]opyrights+\%)'  
        '([Cc]opyrights+&copy;)'  
        '([Cc]opyrights+@copyright\( )'  
        '\copyright\( u\)'  
        '\@set\s+\copyright[\w-\)]+'  
        '

    # 2: the years.  Include the whitespace in the year, so that
    # we can remove any excess.
    '\s\s*\(??: ranges + \.\?\)  
    '\@value\(^[ \{ ]*\)\)s\s*\)'

    # 3: 'by ', if used
    '(by\s+)?'
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + name + '(?<!\s?' + name + '+')\)?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join(dir, filename)

intro = match.group(1)
if intro.startswith('@set '):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
                           'trailing characters in @set: ' + after_years)
        return(False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match

    holder = match.group(4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return(False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname,
                           'unrecognised copyright holder: ' + holder)
def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        try:
            os.remove(pathname)
        except:
            pass

    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith('right'):
        intro = intro[:3] + '(C')
    elif intro.endswith('c'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                          file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (
                    ['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don’t recurse through directories that should be skipped.
            for i in range (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
'% os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
# Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True
return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set (['
            # Contains automatically-generated sources.
            'html',
        ])
# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
})

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
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        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks')
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        self.add_external_author ('National Research Council of Canada')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        # libcilkrts is imported from upstream.
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecimal')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        # libssp
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                    'include',
                    'libada',
                    'libatomic',
                    'libbacktrace',
                    'libcc1',
                    'libcpp',
                    'libdecdnumber',
                    'libgcc',
                    'libgfortran',
                    'libgomp',
                    'libhsail-rt',
                    'libiberty',
                    'libitm',
                    'libobjc',
                    'libssp',
                    'libstdc++-v3',
                    'libvtv',
                    'lto-plugin',
                   ]

GCCCmdLine().main()

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[applies only to hppa-*-pro targets]

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anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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

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

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

@end enumerate

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

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

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

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

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@end enumerate

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading 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
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
one line to give the program's name and a brief idea of what it does.
Copyright (C) @var{year} @var{name of author}
@end example

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 3 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, see @url{http://www.gnu.org/licenses/}.
@end example

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

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

@example
program Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a ``copyright disclaimer'' for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}. 
The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.

@c man end

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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.]

Preamble
========

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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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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

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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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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   b. You must cause the files modified to carry prominent notices
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   c. You must cause the whole of the work to be licensed at no
      charge to all third parties under the terms of this License.

   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
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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 engineering for debugging such modifications.

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

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

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

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

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

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

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

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

a. Accompany the combined library with a copy of the same work
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010


Set up some character translations and predefined strings. \*(- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won’t be available. \*(C’ and \*(C’ expand to ‘’ in nroff, nothing in troff, for use with C<>.

```
\tr \l(*W-
\ds C+ C\l'1.1v'\h'-1p'u-2+\h'-1p'+'s0\l'1v'\h'-1p'
\ie n \{
  .ds -- \l(*W-
  .ds PI pi
  .if (\l.H=4u)&(1m=24u) .ds -- \l(*W\h'-12u'\l'*W\h'-12u'-\l'*W\l'-12u'\l' diablo 10 pitch
  .if (\l.H=4u)&(1m=20u) .ds -- \l(*W\h'-12u'\l'*W\h'-8u'-\l'*W\l'-12u'\l' diablo 12 pitch
  .ds L" "
  .ds R" "
  .ds C" "
  .ds C' "
}'br\}
\el \{
  .ds -- \l(eml]
  .ds PI \l*p
  .ds L" "
  .ds R" "
  .ds C" 
  .ds C'
}'br\}
```

Escape single quotes in literal strings from groff’s Unicode transform.

```
\ie \l.(g .ds Aq \l'aq
\el .ds Aq 
```

If the F register is turned on, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.

Avoid warning from groff about undefined register ‘F’.

```
.de IX
```

```
.de rF 0
.if \l.(g .if rF .nr rF 1
.if (\l(nrF:\l.(g==0)) \{
  .if \l.nF \{
    .de IX
    tm Index:\l\\$1\\\\n%\t\\\\$2
```

```
..
.
if !\nF==2 \{
.
nr % 0
.
nr F 2
.
\}
. \}
.\}
.rr rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \" fudge factors for nroff and troff
.if n \{\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\\\\n(.fu%2u))*.13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \{\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{\
. ds ' \\k:\h'-(\\n(.wu*8/10-\*(#H)'\'\h"|\\n:u"
. ds ` \\k:\h'-(\\n(.wu*8/10-\*(#H)'\`\h'|\\n:u'
. ds ^ \\k:\h'-(\\n(.wu*10/11-\*(#H)'^\h'|\\n:u'
. ds , \\k:\h'-(\\n(.wu*8/10)',\h'|\\n:u'
. ds ~ \\k:\h'-(\\n(.wu-\*(#H-.1m)'~\h'|\\n:u'
. ds / \\k:\h'-(\\n(.wu*8/10-\*(#H)'\z\(sl\h'|\\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \\k:\h'-(\\n(.wu*8/10-\*(#H+.1m+\*(#F)'\v'-\*(#V'\z.\h'.2m+\*(#F'.\h'|\\n:u'\v'\*(#V'
.ds 8 \h'\*(#H'\(*b\h'-\*(#H'
.ds o \\k:\h'-(\\n(.wu+\w'\(de'u-\*(#H)/2u'\v'-.3n'\*(#[\z\(de\v'.3n'\h'|\\n:u'\*(#]
.ds d- \h'\*(#H'\(pd\h'-\w'~'u'\v'-.25m'\f2\(hy\fP\v'.25m'\h'-\*(#H'

Open Source Used In IOx-FogDirector_AC12 1.11.09642


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Version 3, 29 June 2007

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```
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```

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

```
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```

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1.616 jcl-over-slf4j 1.7.25

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1.619 openjsse 1.1.2
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**1.620 libsigsegv 2.12-1**

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/* List of signals that are sent when an invalid virtual memory address
is accessed, or when the stack overflows. */
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) 
{ int var; var = SIGSEGV; { body } var = SIGBUS; { body } }

/* Fault handler information. BSD Unix version. 
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#define SIGSEGV_FAULT_HANDLER_ARGLIST  int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS  addr

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  Licenses["gpl2"] = License{
    Name: "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: ` This program is free software; you can redistribute it and/or
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Licenses["apache"] = License{
Name: "Apache 2.0",
PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
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        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name          string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text          string   // License text data
    Header        string   // License header for source files
}

func init() {
// Allows a user to not use a license.
    Licenses["none"] = License{
        "None", []string{
            "false"},
        "", ""
    }

    initApache2()
    initMit()}
// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {

found := matchLicense(name)
if found == "" {
er("unknown license: " + name)
}
return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn’t find
// then appropriate match to name.
func matchLicense(name string) string {
if name == "" {
return ""
}
for key, lic := range Licenses {
for _, match := range lic.PossibleMatches {
if strings.EqualFold(name, match) {
return key
}
}
}
return ""
}

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    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        of the GNU Lesser General Public License from time to time. Such new
        versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

        Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
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whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.`,
    }
}
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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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package cmd

func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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Protocol Buffers for Go with Gadgets

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

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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

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BSON library for Go

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*/

package legal

import (  "testing"
)

func TestRegisterLicense(t *testing.T) {  initial := len(licenses)  RegisterLicense("dummy")  if initial+1 != len(licenses) {    t.Fatal("didn't add a license")  }}

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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*/
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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

1.632 ehcac...
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1.637 spring-jdbc 5.2.4
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1.638 nss 3.35-2ubuntu2.7

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package cmd
func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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```
package cmd

func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Lesser General Public License as published by
        the Free Software Foundation, either version 3 of the License, or
        (at your option) any later version.

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        `,
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*/

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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BSON library for Go

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func initApache2() {
  Licenses["apache"] = License{
    Name:            "Apache 2.0",
    PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
    Header: `Licensed under the Apache License, Version 2.0 (the "License");
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func initGpl2() {
    Licenses["gpl2"] = License{
        Name:            "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name:        "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
        of this software and associated documentation files (the "Software"), to deal
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}
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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}
initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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package cmd

func initGpl3() {
 Licenses["gpl3"] = License{
 Name: "GNU General Public License 3.0",
 PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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*/

package legal

import ("testing")

func TestRegisterLicense(t *testing.T) {
  initial := len(licenses)
  RegisterLicense("dummy")
  if initial+1 != len(licenses) {
    t.Fatal("didn't add a license")
  }
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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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1.647 libxext 1.3.3 1
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1.648 json-c 0.99.8 2

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1.649 libpcap 1.8.1-6ubuntu1.18.04.1

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1.650 libmspack 0.6-3ubuntu0.3
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## Commands to generate dependency files  
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)  

## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC  

## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =  

## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE=-Wl,-rpath,  

## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%:.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \
| sed '"s/\(^.*\)\.o[ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@"

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \
| sed '"s/\(^.*\)\.o[ :]*/\1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'

```plaintext
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

## End BSD-specific setup

---

### squashfs-tools 4.3-6ubuntu0.18.04.1

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* Cordys R&D BV

* Cryptocom LTD

1.669 alsa 1.1.3-5ubuntu0.4

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.680 pyyaml 3.12-1build2
1.680.1 Available under license:

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find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program output less verbose.

import argparse
import codecs
import io
import sys
import warnings

from debian import copyright

def parse_args():
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                        help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                        help='Whether to suppress warnings')
    return parser.parse_args()
def main():
    args = parse_args()
    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = {}
    parse_failures = []
    dump_failures = []

    total = 0
    for filename in sys.stdin:
        total += 1
        filename = filename.rstrip()
        with io.open(filename, mode='rt', encoding='utf-8') as f:
            try:
                c = copyright.Copyright(f)
            except Exception as e:
                problems.setdefault((1, 'Parse failures'), []).append((filename, e))
                continue

            try:
                c.dump()
            except Exception as e:
                problems.setdefault((2, 'Dump failures'), []).append((filename, e))

            if not c.header.known_format():
                problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

        invalid_globs = []
globsWithLeadingDotSlash = []
globsWithTrailingComma = []
globsWithDoubleStar = []
    for p in c.all_files_paragraphs():
        try:
            p.files_pattern()
        except Exception as e:
            invalid_globs.append(e)
        for glob in p.files:
            if glob.startswith('./ '):
                globsWithLeadingDotSlash.append(glob)
if glob.endswith(','):
globs_with_trailing_comma.append(glob)
if '**' in glob:
globs_with_double_star.append(glob)
if invalid_globs:
problems.setdefault((4, 'Invalid glob'), []).append(
(filename, invalid_globs))
if globs_with_leading_dot_slash:
problems.setdefault((5, 'Globs with leading ./'), []).append(
(filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
problems.setdefault((6, 'Globs with trailing ,'), []).append(
(filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
"""Utilities for parsing and creating machine-readable debian/copyright files.

Open Source Used In IOx-FogDirector_AC12 1.11.010556


The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Copyright docstring for usage information.

```
from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings

from debian import deb822

_CURRENT_FORMAT = ('http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)

KNOWN_FORMATS = frozenset([
    CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/'),
])

class Error(Exception):
    """Base class for exceptions in this module."
"

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."
"

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)
`
header = c.header
# Header exposes standard fields, e.g.
print('Upstream name: ', header.upstream_name)
lic = header.license
if lic:
    print('Overall license: ', lic.synopsis)
# You can also retrieve and set custom fields.
hdr[My-Special-Field'] = 'Very special'

# Find the license for a given file.
paragraph = c.find_files_paragraph('debian/rules')
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

---

def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
        NotMachineReadableError if 'sequence' does not contain a
        machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
for i in range(1, len(paragraphs)):
    p = paragraphs[i]
    if 'Files' in p:
        p = FilesParagraph(p)
    elif 'License' in p:
        p = LicenseParagraph(p)
    else:
        warnings.warn('Non-header paragraph has neither "Files"
                       nor "License" fields')
        self.__paragraphs.append(p)
    else:
        self.__header = Header()

@property
def header(self):
    """The file header paragraph.""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.

    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information

    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename."""
In accordance with the spec, this method returns the last FilesParagraph that matches the filename. If no paragraphs matched, returns None.

```python
result = None
for p in self.all_files_paragraphs():
    if p.matches(filename):
        result = p
return result
```

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')

    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents to f, which must be a file-like object that is opened in text mode (i.e. that accepts unicode objects directly). It is thus up to the caller to arrange for the file to do any appropriate encoding.
    """
    return_string = False
    if f is None:
return_string = True
f = io.StringIO()
self.header.dump(f, text_mode=True)
for p in self.__paragraphs:
f.write('
')
p.dump(f, text_mode=True)
if return_string:
    return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError.""
    if '
' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples.""

    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple.""
        return tuple(v for v in
                     (line.strip() for line in (s or '').strip().splitlines())
                     if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        ""
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if '
' in s:
                raise ValueError('values must not contain newlines')
            return s
        if len(l) == 1:
return process_and_validate(l[0])

tmp = ['
for s in l:
    tmp.append(’’ + process_and_validate(s))
return ’
’.join(tmp)

class _SpaceSeparated(object):
    '''Namespace for conversion methods for space-separated lists as tuples.'''
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r’\s’)

    @staticmethod
    def from_str(s):
        '''Returns the values in s as a tuple (empty if only whitespace).'''
        return tuple(v for v in (s or ’’).split() if v)

    @classmethod
    def to_str(cls, seq):
        '''Returns the sequence as a space-separated string (None if empty).'''
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError(’values must not contain whitespace’)
            s = s.strip()
            if not s:
                raise ValueError(’values must not be empty’)
            tmp.append(s)
        return ’ ’.join(tmp)

    # TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    '''Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with ’.’
    '''
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())
def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '.
                line = ' ' + line
                out_lines.append(line)
    return ''.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with ' .'. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ')') from each proceeding line.
    - Replaces any line that is ' .' with an empty line.
    """
    if s is None:
        return None
    return ''.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    """
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable."""
def __new__(cls, synopsis, text=''):  
    """Creates a new License object.

    :param synopsis: The short name of the license, or an expression giving alternatives. (The first line of a License field.)
    :param text: The full text of the license, if any (may be None). The lines should not be mangled for "deb822"-style wrapping - i.e. they should not have whitespace prefixes or single '.' for empty lines.
    """
    return super(License, cls).__new__(cls, synopsis=_single_line(synopsis), text=(text or ''))

@classmethod
def from_str(cls, s):
    if s is None:
        return None
    lines = parse_multiline_as_lines(s)
    if not lines:
        return cls('')
    return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r"""Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via \* and \?, respectively. A literal backslash is matched \\ . Any other character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    """
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|
        i = 0
        n = len(glob)
        while i < n:
c = glob[i]
i += 1
if c == '*':
    buf.write('.*')
elif c == '?':
    buf.write('\')
elif c == '\':
    if i < n:
        c = glob[i]
i += 1
    else:
        raise ValueError('single backslash not allowed at end')
if c in r'\?*':
    buf.write(re.escape(c))
else:
    raise ValueError(r'invalid escape sequence: \%s' % c)
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string.  (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    ""
    Represents a Files paragraph of a debian/copyright file.
    
    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    ""

    def __init__(self, data, _internal_validate=True):
        super(FilesParagraph, self).__init__(data)

        if _internal_validate:
            if 'Files' not in data:
                raise ValueError("Files" field required)
            # For the other "required" fields, we just warn for now.  Perhaps
            # these should be upgraded to exceptions (potentially protected by
            # a "strict" param).
            if 'Copyright' not in data:
                warnings.warn('Files paragraph missing Copyright field')
            if 'License' not in data:
                warnings.warn('Files paragraph missing License field')

            if not self.files:
                warnings.warn('Files paragraph has empty Files field')
self.__cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    ""
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files.""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField(
    'Files', from_str=_SpaceSeparated.from_str,
    to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)
comment = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
Represents a standalone license paragraph of a debian/copyright file.

Minimally, this kind of paragraph requires a 'License' field and has no 'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.

```python
def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("License" field required)
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

    @classmethod
    def create(cls, license):
        """Returns a LicenseParagraph with the given license."""
        if not isinstance(license, License):
            raise TypeError('license must be a License instance')
        paragraph = cls(deb822.Deb822(), _internal_validate=False)
        paragraph.license = license
        return paragraph

    # TODO(jsw): Validate that the synopsis of the license is a short name or
    # short name with exceptions (not an alternatives expression). This
    # requires help from the License class.
    license = deb822.RestrictedField(
        'License', from_str=License.from_str, to_str=License.to_str,
        allow_none=False)

    comment = deb822.RestrictedField('Comment')

    # Hide 'Files'.
    __files = deb822.RestrictedField('Files')
```

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

    def __init__(self, data=None):
        """Initializer.

        :param parsed: A deb822.Deb822 object for underlying data. If None, a
```python
if data is None:
    data = deb822.Deb822()
    data['Format'] = _CURRENT_FORMAT

if 'Format-Specification' in data:
    warnings.warn('use of deprecated "Format-Specification" field;
                   rewriting as "Format"')
    data['Format'] = data['Format-Specification']
    del data['Format-Specification']

super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError(
        'input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)
```

copyright = deb822.RestrictedField('Copyright')
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>

  Copyright (C) 2006-2010 John Wright <john@johnwright.org>
  Copyright (C) 2006       Adeodato Sim <dato@net.com.org.es>
  Copyright (C) 2008 Stefano Zacchiroli <zack@upsilon.cc>
  Copyright (C) 2014       Google, Inc.
License: GPL-2+

Files:
examples/changelog/*
lib/debian/changelog.py
README.changelog
setup.py.in
lib/debian/tests/test_changelog.py
Copyright: Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>

  Copyright (C) 2008 Canonical Ltd.
License: GPL-2+
Comment: lib/debian/changelog.py’s parsing code is based on that from dpkg which is:
Copyright 1996 Ian Jackson
Copyright 2005 Frank Lichtenheld <frank@lichtenheld.de>
and licensed under the same license.

Files:
lib/debian/debian_support.py
lib/debian/tests/test_debian_support.py
Copyright: Copyright (C) 2005 Florian Weimer <fw@deneb.enyo.de>

  Copyright (C) 2006-2007 James Westby <jw+debian@jameswestby.net>
  Copyright (C) 2010 John Wright <jsw@debian.org>
License: GPL-2+

Files:
examples/debtags/*
lib/debian/debtags.py
lib/debian/doc-debtags
lib/debian/tests/test_debtags.py
Copyright: Copyright (C) 2003-2007 Enrico Zini <enrico@debian.org>
License: GPL-3+
Files:
examples/debfile/*
lib/debian/arfile.py
lib/debian/debfile.py
lib/debian/tests/test_debfile.py
Copyright: Copyright (C) 2007-2008 Stefano Zacchiroli <zack@debian.org>
Copyright (C) 2007 Filippo Giunchedi <filippo@debian.org>
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Copyright: Copyright (C) Ben Finney <ben+debian@benfinney.id.au>
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lib/debian/tests/test_copyright.py
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1.682 python-defaults 3.6.7 1~18.04

1.683 tablewriter 3.0.3-0ubuntu1~18.04.1

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
            "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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    Licenses["mit"] = License{
        Name:            "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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BSON library for Go

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `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
        Open Source Used In IOx-FogDirector_AC12 1.11.010621"
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mgo - MongoDB driver for Go

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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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`
}

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package cmd

import (  
    "strings"  
    "time"
    
    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {  
    Name            string   // The type of license in use  
    PossibleMatches []string // Similar names to guess  
    Text            string   // License text data  
    Header          string   // License header for source files
}

func init() {  
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}
    initApache2()  
    initMit()  
    initBsdClause3()  
    initBsdClause2()  
    initGpl2()  
    initGpl3()  
    initLgpl()  
    initAgpl()
}
// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}
tomb - support for clean goroutine termination in Go.

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package cmd

cfunc initLGPL() {
    Licenses["lgpl"] = License{
        Name:            "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
                 it under the terms of the GNU Lesser General Public License as published by
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                 (at your option) any later version.

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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package cmd

func initAgpl() {
Licenses["agpl"] = License{
Name: "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
Header: `
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it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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Version 3, 19 November 2007

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func initApache2() {
    Licenses["apache"] = License{
        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
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Walter Schulze <awalterschulze@gmail.com>

package cmd
func initLgpl() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: "
    }
}
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func initBsdClause3() {
    Licenses["bsd"] = License{
        Name: "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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    }

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`,
```
}
}
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Protocol Buffers for Go with Gadgets

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

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package cmd

import (  
"strings"  
"time"  
"github.com/spf13/viper"  
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {  
Name string // The type of license in use  
PossibleMatches []string // Similar names to guess  
Text string // License text data  
Header string // License header for source files  
}

func init() {  
// Allows a user to not use a license.  
Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

initApache2()  
initMit()  
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                      Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }

    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
if found == "" {
    er("unknown license: " + name)
}
return Licenses[found]

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

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BSON library for Go

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*/

package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

tomb - support for clean goroutine termination in Go.

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package cmd

func initAgpl() {
  Licenses["agpl"] = License{
    Name: "GNU Affero General Public License",
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Affero General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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        Name:            "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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mgo - MongoDB driver for Go

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package cmd

func initBsdClause2() {
Licenses["freebsd"] = License{
Name: "Simplified BSD License",
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
"2 clause bsd", "simplified bsd license"},
Header: `All rights reserved.
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package cmd

func initBsdClause2() {
Licenses["freebsd"] = License{
Name: "Simplified BSD License",
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
"2 clause bsd", "simplified bsd license"},
Header: `All rights reserved.
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*/

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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func initGpl3() {
    licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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package cmd

func initGpl2() {
    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: ` This program is free software; you can redistribute it and/or
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*******************************************************************************
* file name: UBiDiProps.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/.c.

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-->
<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>,
For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced.
- If no characters are replaced, use the metadata of the previous character.
- If there is no previous character (i.e. start == 0), use the following character.
- If there is no following character (i.e. the replaceable was empty), use default metadata.
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata.

If this is not the behavior, the subclass should document any differences.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement Replaceable in their text representation class.
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 */

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import java.io.Serializable;

/**
* Legacy security code; do not use.
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public abstract class Permission implements Guard, Serializable { public Permission(String name) { } } public final String getName() { return null; } public void checkGuard(Object obj) throws SecurityException { } public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
} public abstract String getActions();

    public abstract boolean implies(Permission permission);
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Linus Torvalds

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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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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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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1.700 log-rotate 3.11.0 0.1ubuntu1

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- **P**: Public domain
- **T**: Titlepage footnote, Titlepage index

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Index Entry Section

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- **C**
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Appendix A Copying and indices

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The node you are looking for is at <a href="Chapter.html#Copying-information">Copying information</a>.

use vars qw(%result_texis %result_texts %result_trees %result_errors %result_indices %result_sectioning %result_nodes %result_menus %result_floats %result_converted %result_converted_errors %result_elements %result_directions_text);

use utf8;

$result_trees{'copying_not_closed'} = {
  contents => [
    {
      cmdname => 'copying',
      contents => [
        {
          extra => {
            command => {}
          },
          parent => {},
          text => '',
          type => 'empty_line_after_command'
        },
        {
          parent => {},
          text => '',
          type => 'empty_line'
        },
        {
          contents => [
            {
              parent => {},
              text => 'This is a copyright notice'
            }
          ],
          parent => {},
          type => 'paragraph'
        }
      ]
    }
  ]
}
This is a copyright notice

";

$ result_texts{copying_not_closed} = ";

$ result_errors{copying_not_closed} = [
    {
        'error_line' => ':3: no matching `@end copying\n
        ',
        'file_name' => ",
        'line_nr' => 3,
        'macro' => ",
        'text' => 'no matching `@end copying\n
        ',
        'type' => 'error'
    }
];
This is a test manual, trivially and explicitly in the public domain.
In the appendix, we print the indices and references.

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Jump to: &nbsp; &lt;th align="top"&gt;Index Entry)&lt;/th&gt;&lt;th align="left"&gt;Section)&lt;/th&gt;&lt;hr/&gt;&lt;/td&gt;&lt;/tr&gt;
&lt;tr&gt;&lt;th&gt;&lt;a name="Copying-and-indices_cp_letter-C">C)&lt;/th&gt;&lt;td valign="top"&gt;&lt;a href="#index-Copying-appendix">Copying appendix)&lt;/a&gt;&lt;/td&gt;&lt;td valign="top"&gt;&lt;a href="#Copying-and-indices">Copying and indices)&lt;/a&gt;&lt;/td&gt;&lt;/tr&gt;
In the appendix, we print the references and the copying once more and the list of copyright notices (listoffloats).

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<a class="summary-letter" href="#Copying-and-floats-1_cp_letter-L"><b>L</b></a>

<a class="summary-letter" href="#Copying-and-floats-1_cp_letter-T"><b>T</b></a></td></tr></table>
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If such an object file uses only numerical parameters, data
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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.

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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
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Public License instead of this License.
1.721 gnu-tls 3.5.18-1ubuntu1.3

1.721.1 Available under license:

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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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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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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   (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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1.730 asn1crypto 0.24.0-1

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src/bdf/bdfdrivr.c
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src/gzip/inftreeutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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1.739 libcap 237-3ubuntu10.38

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1.740 xorg 7.7+19ubuntu7.1

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Source Package: xorg
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1.741 postgresql-jdbc 9.3-1103-jdbc41

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1.742 libSDL 1.2.15+dfsg2-0.1ubuntu0.1

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October 28, 1997
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Sam Lantinga (slouken@libsdl.org)

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1.745 libyaml 0.1.7 2ubuntu3

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1.746 python-pyasn1-modules 0.2.1 0.2

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

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[This is the first released version of the library GPL. It is
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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.

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

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"Source code" for a work means the preferred form of the work for
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the 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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END OF TERMS AND CONDITIONS

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

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package cmd

import (
    "strings"
    "time"
    "github.com/spf13/viper"
)

var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, ",", ""}
initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright" + year + "" + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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package cmd

func initBsdClause3() {
    Licenses["bsd"] = License{
        Name:        "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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package legal

import (
    "testing"
)

func TestRegisterLicense(t *testing.T) {
    initial := len(licenses)
    RegisterLicense("dummy")
    if initial+1 != len(licenses) {
        t.Fatal("didn't add a license")
    }
}

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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mgo - MongoDB driver for Go

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tomb - support for clean goroutine termination in Go.

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package cmd

func initGpl3() {
    Licenses["gpl3"] = License{
        Name:            "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                           "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.

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    PossibleMatches: []string{"mit"},
    Header: ’
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    licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version."
    }
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package cmd

func initApache2() {
Licenses["apache"] = License{
Name: "Apache 2.0",
PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
Header: `Licensed under the Apache License, Version 2.0 (the "License");
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    Licenses["gpl2"] = License{
        Name:           "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `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.

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package legal

var licenses []string

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// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}
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src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

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src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehypht-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found
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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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EOF

1.774 xauth 1.0.10-1

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1.776 jsr305 3.0.2

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