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```

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```
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1.2 godbus 0.0.0-20190422162347-ade71ed3457e

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```

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```
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```
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*

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*

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Version 2.1, February 1999

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1.10 pflag 1.0.5

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1.11 gdbm 1.11

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```
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```

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```
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```

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1.12 make 4.0

1.12.1 Available under license :

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Version 2, June 1991

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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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1.14 shim 14

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1.18 pcre 8.35

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1.19 pixman 0.32.6

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1.20 ed 1.9

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1.21 tail 1.0.0

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1.24 erlang-otp 22.3

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[zlib]

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

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

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

*/

[dialyzer]

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[edoc, syntax_tools]

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[ldap]

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* /opt/cola/permits/1000805675_1651084419.43/0/lu-a-5-3-5-tar-gz/lu-a-5.3.5/src/lu-a.h

1.26 pciutils 3.2.1

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1.27 xlsx go1.1.2

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XSLX

====

xlsx is intended to be a library to simplify reading the XML format used by recent version of Microsoft Excel in Go programs.

I've recently updated the code (23rd September 2013) to support a little more style information and made some of the code work concurrently, which will hopefully improve performance a little.

Updates are sporadic as I no longer rely on this code myself, but I'm always happy to look at patches and pull requests and I will try to respond to specific issues you might be having.

There are no current plans to support writing documents.

Usage

Presented here is a minimal example usage that will dump all cell data in a given XLSX file. A more complete example of this kind of functionality is contained in the XLSX2CSV program
<<https://github.com/tealeg/xlsx2csv>>.:

```
```go

import (
 "fmt"
 "github.com/tealeg/xlsx"
)

func main() {
 excelFileName := "/home/tealeg/foo.xlsx"
 xlFile, error := xlsx.OpenFile(excelFileName)
 if error != nil {
 ...
 }
 for _, sheet := range xlFile.Sheets {
 for _, row := range sheet.Rows {
 for _, cell := range row.Cells {
 fmt.Printf("%s\n", cell.String())
 }
 }
 }
}
```
```

Some additional information is available from the cell (for example, style information). For more details see the godoc output for this package.

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Eat a peach - Geoff

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1.28 runc 1.0.0-rc9

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1.33 libgpg-error 1.12

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1.34 ntp 4.2.8p13

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```
/* -*- Mode: Text -*- */
```

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version = `  
eval VERSION=\`sed -e 's/.*,\\[//' -e 's\\[.*/' < ../sntp/m4/version.m4\  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "; /* Don't use -v as a shortcut for --version */
```

```
/*
```

```
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .
```

```
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

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<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
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<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
<br clear="left">
</p>
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- Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael,barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt>

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George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

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Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

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Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

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Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

Jack Sasportas <jack@innovativeinternet.com>

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Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
Kenneth Stone <ken@sdd.hp.com> HP-UX port
Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock
 controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line
 and PCI-bus devices

4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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```
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```

```
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```
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```

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```

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```
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```

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

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1.36 coreutils 8.22

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1.37 go-connections 0.4.0

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1.38 bridgeutils 1.5

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

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

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1.40 backoff 3.1.1

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1.41 libfastjson 0.99.8

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1.42 tcp-wrappers 7.6

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1.43 iproute 3.16.0

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1.45 libcap 2.22

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1.48 libvmtools 10.3.5.7752

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```
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   version 1.2.11, January 15th, 2017
```

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1.54 Ixc 2.0.7

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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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}  
}
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```
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    Licenses["apache"] = License{
        Name:      "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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BSON library for Go

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mgo - MongoDB driver for Go

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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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Text: `      GNU LESSER GENERAL PUBLIC LICENSE
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```

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

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```
`
}
}
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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```

```
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```
`  
}  
}
```

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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

wallclockbuilder

dansouza

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

```
Text: `      GNU GENERAL PUBLIC LICENSE
          Version 2, June 1991
```

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Upstream-Name: golang-petname

Upstream-Contact: Dustin Kirkland <dustin.kirkland@gmail.com>

Source: <http://launchpad.net/golang-petname>

Files: *

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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 cmd

```
func initBsdClause2() {
```

```
    Licenses["frebsd"] = License{
```

```
        Name: "Simplified BSD License",
```

```
        PossibleMatches: []string{"frebsd", "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
```

```
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 initMit() {
```

```
    Licenses["mit"] = License{
```

```
        Name:      "MIT License",
```


PossibleMatches: []string{"mit"},

Header: `

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1.55 libestr 0.1.10

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1.56 elfutils 0.148

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1.57 libxcb 1.10

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1.59 gosnmp 1.22

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1.60 blang-semver 4.0.0

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1.61 golang-protobuf-extensions 1.0.1

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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.

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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.

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1.63 findutils 4.4.2

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Version 3, 29 June 2007

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1.66 zlib 1.2.8

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

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1.67 gzip 1.6

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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I **want** to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

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

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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

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The "Artistic License"

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1.73 klauspost-compress 1.9.4

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```
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# (and typically have contributed) code to the Snappy-Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
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# that people submitting code are listed in this file (by email address).
#
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#
# http://code.google.com/legal/individual-cla-v1.0.html
# http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.
```

```
# Names should be added to this file like so:
```

```
# Name <email address>
```

```
# Please keep the list sorted.
```

```
Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnm1@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
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1.74 log15 v0.0.0-20180818164646-67afb5ed74ec

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1.75 glibc 2.20

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@center Version 2.1, February 1999

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@display

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case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0

@item

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@enumerate a

@item

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@item

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@item

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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.

@item

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@enumerate a

@item

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.)

@item

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.

@item

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.

@item

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@item

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

@end enumerate

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@enumerate a

@item

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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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@subheading END OF TERMS AND CONDITIONS

@page

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

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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0. Definitions.

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"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

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

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

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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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1.83 gawk 4.1.1

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1.84 iputils 20121221

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1.87 rng-tools 6.9

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1.89 x-crypto 0.0.0 -

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1.90 msgp 1.1.2

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1.91 fuse 2.9.3

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

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

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

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

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

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

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2.1, February 1999

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

the library.

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

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

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

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

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

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

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

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

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

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

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

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

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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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

1.92 grep 2.19

1.92.1 Available under license :

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Version 3, 29 June 2007

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can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

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1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users

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1.96 dhcp 4.4.1

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

<!--

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-->

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

```

</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--

- Local variables:
- mode: sgml
- End:

-->

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1.97 postgresql 11.2

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1.98 mergo 0.3.8

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

1.99 errors 0.8.1

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1.100 opentracing-go 1.1.0

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1.101 shadow 4.2.1

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1.102 ghodss-yaml 1.0.0

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1.103 go-patricia 2.3.0+incompatible

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1.104 busybox 1.22.1

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jseward@bzip.org

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1.105 byacc 20140422

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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"},

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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
```

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

```
// Parts inspired by https://github.com/ryanuber/go-license
```

```
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  
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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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 http://www.gnu.org/licenses/`,  
    Text: `        GNU GENERAL PUBLIC LICENSE  
                Version 3, 29 June 2007
```

```
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```
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```

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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 ""
}
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 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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```

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```

```
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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: `
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```

```
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}
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```

```
package cmd
```

```
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    Licenses["mit"] = License{  
        Name:      "MIT License",  
        PossibleMatches: []string{"mit"},  
        Header: `
```

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```
/* number.c: Implements arbitrary precision numbers. */  
/*
```

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*****/

```
#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h> /* Prototypes needed for external utility routines. */
```

```
#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory
```

```
_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));
```

```
/* Storage used for special numbers. */
```

```
bc_num _zero_;
bc_num _one_;
bc_num _two_;
```

```
static bc_num _bc_Free_list = NULL;
```

```
/* new_num allocates a number and sets fields to known values. */
```

```
bc_num
bc_new_num (length, scale)
    int length, scale;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
    temp->n_sign = PLUS;
    temp->n_len = length;
```

```

temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = (char *) malloc (length+scale);
if (temp->n_ptr == NULL) bc_out_of_memory();
temp->n_value = temp->n_ptr;
memset (temp->n_ptr, 0, length+scale);
return temp;
}

/* "Frees" a bc_num NUM.  Actually decreases reference count and only
   frees the storage if reference count is zero. */

void
bc_free_num (num)
    bc_num *num;
{
if (*num == NULL) return;
(*num)->n_refs--;
if ((*num)->n_refs == 0) {
    if ((*num)->n_ptr)
        free ((*num)->n_ptr);
    (*num)->n_next = _bc_Free_list;
    _bc_Free_list = *num;
}
*num = NULL;
}

/* Initialize the number package! */

void
bc_init_numbers ()
{
    _zero_ = bc_new_num (1,0);
    _one_ = bc_new_num (1,0);
    _one_->n_value[0] = 1;
    _two_ = bc_new_num (1,0);
    _two_->n_value[0] = 2;
}

/* Make a copy of a number!  Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
    num->n_refs++;
}

```

```

return num;
}

/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
    *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
   _bc_rm_leading_zeros just moves the data "value" pointer to the
   correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
    /* We can move n_value to point to the first non zero digit! */
    while (*num->n_value == 0 && num->n_len > 1) {
        num->n_value++;
        num->n_len--;
    }
}

/* Compare two bc numbers. Return value is 0 if equal, -1 if N1 is less
   than N2 and +1 if N1 is greater than N2. If USE_SIGN is false, just
   compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
    char *n1ptr, *n2ptr;
    int count;

    /* First, compare signs. */
    if (use_sign && n1->n_sign != n2->n_sign)
    {
        if (n1->n_sign == PLUS)
            return (1); /* Positive N1 > Negative N2 */
        else

```

```

return (-1); /* Negative N1 < Positive N1 */
}

/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
{
    if (n1->n_len > n2->n_len)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
{
    n1ptr++;
    n2ptr++;
    count--;
}
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
    return (0);
if (count != 0)
{
    if (*n1ptr > *n2ptr)
    {
        /* Magnitude of n1 > n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (1);
        else
            return (-1);
    }
}

```

```

    else
    {
        /* Magnitude of n1 < n2. */
        if (!use_sign || n1->n_sign == PLUS)
            return (-1);
        else
            return (1);
    }
}

/* They are equal up to the last part of the equal part of the fraction. */
if (n1->n_scale != n2->n_scale)
{
    if (n1->n_scale > n2->n_scale)
    {
        for (count = n1->n_scale-n2->n_scale; count>0; count--)
            if (*n1ptr++ != 0)
            {
                /* Magnitude of n1 > n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (1);
                else
                    return (-1);
            }
    }
    else
    {
        for (count = n2->n_scale-n1->n_scale; count>0; count--)
            if (*n2ptr++ != 0)
            {
                /* Magnitude of n1 < n2. */
                if (!use_sign || n1->n_sign == PLUS)
                    return (-1);
                else
                    return (1);
            }
    }
}

/* They must be equal! */
return (0);
}

/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)

```

```

    bc_num n1, n2;
{
return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
int count;
char *nptr;

/* Quick check. */
if (num == _zero_) return TRUE;

/* Initialize */
count = num->n_len + num->n_scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0)
    return FALSE;
else
    return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
Specifically, all but the last digit is 0 and the last digit is 1.
Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{

```

```

int count;
char *nptr;

/* Error checking */
if (scale > num->n_scale)
    scale = num->n_scale;

/* Initialize */
count = num->n_len + scale;
nptr = num->n_value;

/* The check */
while ((count > 0) && (*nptr++ == 0)) count--;

if (count != 0 && (count != 1 || *--nptr != 1))
    return FALSE;
else
    return TRUE;
}

/* Perform addition: N1 is added to N2 and the value is
returned. The signs of N1 and N2 are ignored.
SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num sum;
    int sum_scale, sum_digits;
    char *n1ptr, *n2ptr, *sumptr;
    int carry, n1bytes, n2bytes;
    int count;

    /* Prepare sum. */
    sum_scale = MAX (n1->n_scale, n2->n_scale);
    sum_digits = MAX (n1->n_len, n2->n_len) + 1;
    sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

    /* Zero extra digits made by scale_min. */
    if (scale_min > sum_scale)
    {
        sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
        for (count = scale_min - sum_scale; count > 0; count--)
            *sumptr++ = 0;
    }
}

```

```

/* Start with the fraction part. Initialize the pointers. */
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part. First copy the longer fraction.*/
if (n1bytes != n2bytes)
{
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
    { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
    { *sumptr-- = *n2ptr--; n2bytes--;}
}

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
{
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
}

/* Now add carry the longer integer part. */
if (n1bytes == 0)
    { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
{
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
    {
        carry = 1;
        *sumptr -= BASE;
    }
}

```



```

    }
    else
carry = 0;
    sumptr--;
    }

/* Set final carry. */
if (carry == 1)
    *sumptr += 1;

/* Adjust sum and return. */
_bc_rm_leading_zeros (sum);
return sum;
}

/* Perform subtraction: N2 is subtracted from N1 and the value is
returned. The signs of N1 and N2 are ignored. Also, N1 is
assumed to be larger than N2. SCALE_MIN is the minimum scale
of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
    bc_num diff;
    int diff_scale, diff_len;
    int min_scale, min_len;
    char *n1ptr, *n2ptr, *diffptr;
    int borrow, count, val;

/* Allocate temporary storage. */
diff_len = MAX (n1->n_len, n2->n_len);
diff_scale = MAX (n1->n_scale, n2->n_scale);
min_len = MIN (n1->n_len, n2->n_len);
min_scale = MIN (n1->n_scale, n2->n_scale);
diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

/* Zero extra digits made by scale_min. */
if (scale_min > diff_scale)
    {
        diffptr = (char *) (diff->n_value + diff_len + diff_scale);
        for (count = scale_min - diff_scale; count > 0; count--)
            *diffptr++ = 0;
    }

/* Initialize the subtract. */

```

```

n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
{
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
}
else
{
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
    val = - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}
}

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
{
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
    {
        val += BASE;
        borrow = 1;
    }
    else
        borrow = 0;
    *diffptr-- = val;
}

/* If n1 has more digits than n2, we now do that subtract. */
if (diff_len != min_len)

```

```

    {
        for (count = diff_len - min_len; count > 0; count--)
        {
            val = *n1ptr-- - borrow;
            if (val < 0)
            {
                val += BASE;
                borrow = 1;
            }
            else
                borrow = 0;
            *diffptr-- = val;
        }
    }

    /* Clean up and return. */
    _bc_rm_leading_zeros (diff);
    return diff;
}

/* Here is the full subtract routine that takes care of negative numbers.
   N2 is subtracted from N1 and the result placed in RESULT. SCALE_MIN
   is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num diff = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign != n2->n_sign)
    {
        diff = _bc_do_add (n1, n2, scale_min);
        diff->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        /* Compare magnitudes. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
        switch (cmp_res)
        {
        case -1:
            /* n1 is less than n2, subtract n1 from n2. */

```

```

diff = _bc_do_sub (n2, n1, scale_min);
diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
break;
case 0:
/* They are equal! return zero! */
res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
diff = bc_new_num (1, res_scale);
memset (diff->n_value, 0, res_scale+1);
break;
case 1:
/* n2 is less than n1, subtract n2 from n1. */
diff = _bc_do_sub (n1, n2, scale_min);
diff->n_sign = n1->n_sign;
break;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = diff;
}

/* Here is the full add routine that takes care of negative numbers.
N1 is added to N2 and the result placed into RESULT. SCALE_MIN
is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
    bc_num sum = NULL;
    int cmp_res;
    int res_scale;

    if (n1->n_sign == n2->n_sign)
    {
        sum = _bc_do_add (n1, n2, scale_min);
        sum->n_sign = n1->n_sign;
    }
    else
    {
        /* subtraction must be done. */
        cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE); /* Compare magnitudes. */
        switch (cmp_res)
        {
            case -1:

```

```

/* n1 is less than n2, subtract n1 from n2. */
sum = _bc_do_sub (n2, n1, scale_min);
sum->n_sign = n2->n_sign;
break;
case 0:
/* They are equal! return zero with the correct scale! */
res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
sum = bc_new_num (1, res_scale);
memset (sum->n_value, 0, res_scale+1);
break;
case 1:
/* n2 is less than n1, subtract n2 from n1. */
sum = _bc_do_sub (n1, n2, scale_min);
sum->n_sign = n1->n_sign;
}
}

/* Clean up and return. */
bc_free_num (result);
*result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
    int length, scale;
    char *value;
{
    bc_num temp;

    if (_bc_Free_list != NULL) {
        temp = _bc_Free_list;
        _bc_Free_list = temp->n_next;
    } else {
        temp = (bc_num) malloc (sizeof(bc_struct));
        if (temp == NULL) bc_out_of_memory ();
    }
}

```

```

temp->n_sign = PLUS;
temp->n_len = length;
temp->n_scale = scale;
temp->n_refs = 1;
temp->n_ptr = NULL;
temp->n_value = value;
return temp;
}

```

```

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
             int full_scale)
{
    char *n1ptr, *n2ptr, *pvptr;
    char *n1end, *n2end; /* To the end of n1 and n2. */
    int indx, sum, prodlen;

    prodlen = n1len+n2len+1;

    *prod = bc_new_num (prodlen, 0);

    n1end = (char *) (n1->n_value + n1len - 1);
    n2end = (char *) (n2->n_value + n2len - 1);
    pvptr = (char *) ((*prod)->n_value + prodlen - 1);
    sum = 0;

    /* Here is the loop... */
    for (indx = 0; indx < prodlen-1; indx++)
    {
        n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
        n2ptr = (char *) (n2end - MIN(indx, n2len-1));
        while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
            sum += *n1ptr-- * *n2ptr++;
        *pvptr-- = sum % BASE;
        sum = sum / BASE;
    }
    *pvptr = sum;
}

```

```

/* A special adder/subtractor for the recursive divide and conquer
multiply algorithm. Note: if sub is called, accum must
be larger than what is being subtracted. Also, accum and val
must have n_scale = 0. (e.g. they must look like integers. *) */

```

```

static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
    signed char *accp, *valp;

```

```

int count, carry;

count = val->n_len;
if (val->n_value[0] == 0)
    count--;
assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
    accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
    /* Subtraction, carry is really borrow. */
    while (count--) {
        *accp -= *valp-- + carry;
        if (*accp < 0) {
            carry = 1;
            *accp-- += BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp -= carry;
        if (*accp < 0)
            *accp-- += BASE;
        else
            carry = 0;
    }
} else {
    /* Addition */
    while (count--) {
        *accp += *valp-- + carry;
        if (*accp > (BASE-1)) {
            carry = 1;
            *accp-- -= BASE;
        } else {
            carry = 0;
        }
        accp--;
    }
    while (carry) {
        *accp += carry;
        if (*accp > (BASE-1))
            *accp-- -= BASE;
    }
}

```

```

    else
    carry = 0;
    }
}
}

/* Recursive divide and conquer multiply algorithm.
Based on
Let u = u0 + u1*(b^n)
Let v = v0 + v1*(b^n)
Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
             int full_scale)
{
    bc_num u0, u1, v0, v1;
    int u0len, v0len;
    bc_num m1, m2, m3, d1, d2;
    int n, prodlen, m1zero;
    int d1len, d2len;

    /* Base case? */
    if ((ulen+vlen) < mul_base_digits
        || ulen < MUL_SMALL_DIGITS
        || vlen < MUL_SMALL_DIGITS ) {
        _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
        return;
    }

    /* Calculate n -- the u and v split point in digits. */
    n = (MAX(ulen, vlen)+1) / 2;

    /* Split u and v. */
    if (ulen < n) {
        u1 = bc_copy_num (_zero_);
        u0 = new_sub_num (ulen,0, u->n_value);
    } else {
        u1 = new_sub_num (ulen-n, 0, u->n_value);
        u0 = new_sub_num (n, 0, u->n_value+ulen-n);
    }
    if (vlen < n) {
        v1 = bc_copy_num (_zero_);
        v0 = new_sub_num (vlen,0, v->n_value);
    } else {
        v1 = new_sub_num (vlen-n, 0, v->n_value);

```



```

    v0 = new_sub_num (n, 0, v->n_value+vlen-n);
    }
    _bc_rm_leading_zeros (u1);
    _bc_rm_leading_zeros (u0);
    u0len = u0->n_len;
    _bc_rm_leading_zeros (v1);
    _bc_rm_leading_zeros (v0);
    v0len = v0->n_len;

    m1zero = bc_is_zero(u1) || bc_is_zero(v1);

    /* Calculate sub results ... */

    bc_init_num(&d1);
    bc_init_num(&d2);
    bc_sub (u1, u0, &d1, 0);
    d1len = d1->n_len;
    bc_sub (v0, v1, &d2, 0);
    d2len = d2->n_len;

    /* Do recursive multiplies and shifted adds. */
    if (m1zero)
        m1 = bc_copy_num (_zero_);
    else
        _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

    if (bc_is_zero(d1) || bc_is_zero(d2))
        m2 = bc_copy_num (_zero_);
    else
        _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

    if (bc_is_zero(u0) || bc_is_zero(v0))
        m3 = bc_copy_num (_zero_);
    else
        _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

    /* Initialize product */
    prodlen = ulen+vlen+1;
    *prod = bc_new_num(prodlen, 0);

    if (!m1zero) {
        _bc_shift_addsub (*prod, m1, 2*n, 0);
        _bc_shift_addsub (*prod, m1, n, 0);
    }
    _bc_shift_addsub (*prod, m3, n, 0);
    _bc_shift_addsub (*prod, m3, 0, 0);
    _bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

```

```

/* Now clean up! */
bc_free_num (&u1);
bc_free_num (&u0);
bc_free_num (&v1);
bc_free_num (&m1);
bc_free_num (&v0);
bc_free_num (&m2);
bc_free_num (&m3);
bc_free_num (&d1);
bc_free_num (&d2);
}

/* The multiply routine. N2 times N1 is put int PROD with the scale of
the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
*/

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
    bc_num pval;
    int len1, len2;
    int full_scale, prod_scale;

    /* Initialize things. */
    len1 = n1->n_len + n1->n_scale;
    len2 = n2->n_len + n2->n_scale;
    full_scale = n1->n_scale + n2->n_scale;
    prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

    /* Do the multiply */
    _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

    /* Assign to prod and clean up the number. */
    pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
    pval->n_value = pval->n_ptr;
    pval->n_len = len2 + len1 + 1 - full_scale;
    pval->n_scale = prod_scale;
    _bc_rm_leading_zeros (pval);
    if (bc_is_zero (pval))
        pval->n_sign = PLUS;
    bc_free_num (prod);
    *prod = pval;
}

/* Some utility routines for the divide: First a one digit multiply.

```

NUM (with SIZE digits) is multiplied by DIGIT and the result is placed into RESULT. It is written so that NUM and RESULT can be the same pointers. */

```
static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
    int carry, value;
    unsigned char *nptr, *rptr;

    if (digit == 0)
        memset (result, 0, size);
    else
        {
            if (digit == 1)
                memcpy (result, num, size);
            else
                {
                    /* Initialize */
                    nptr = (unsigned char *) (num+size-1);
                    rptr = (unsigned char *) (result+size-1);
                    carry = 0;

                    while (size-- > 0)
                        {
                            value = *nptr-- * digit + carry;
                            *rptr-- = value % BASE;
                            carry = value / BASE;
                        }

                    if (carry != 0) *rptr = carry;
                }
        }
}
```

```
/* The full division routine. This computes N1 / N2. It returns
0 if the division is ok and the result is in QUOT. The number of
digits after the decimal point is SCALE. It returns -1 if division
by zero is tried. The algorithm is found in Knuth Vol 2. p237. */
```

```
int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
```

```

{
bc_num qval;
unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int scale1, val;
unsigned int len1, len2, scale2, qdigits, extra, count;
unsigned int qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int norm;

/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1. If it is we must truncate. */
if (n2->n_scale == 0)
{
if (n2->n_len == 1 && *n2->n_value == 1)
{
qval = bc_new_num (n1->n_len, scale);
qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
memset (&qval->n_value[n1->n_len],0,scale);
memcpy (qval->n_value, n1->n_value,
n1->n_len + MIN(n1->n_scale,scale));
bc_free_num (quot);
*quot = qval;
}
}

/* Set up the divide. Move the decimal point on n1 by n2's scale.
Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
extra = scale - scale1;
else
extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);

```

```

if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
{
    n2ptr++;
    len2--;
}

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
{
    qdigits = scale+1;
    zero = TRUE;
}
else
{
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1; /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
}

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
{
    /* Normalize */
    norm = 10 / ((int)*n2ptr + 1);
    if (norm != 1)
    {
        _one_mult (num1, len1+scale1+extra+1, norm, num1);
        _one_mult (n2ptr, len2, norm, n2ptr);
    }

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;

```

```

else
qptr = (unsigned char *) qval->n_value;

/* Loop */
while (qdig <= len1+scale-len2)
{
/* Calculate the quotient digit guess. */
if (*n2ptr == num1[qdig])
qguess = 9;
else
qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

/* Test qguess. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
{
qguess--;
/* And again. */
if (n2ptr[1]*qguess >
    (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
    + num1[qdig+2])
qguess--;
}

/* Multiply and subtract. */
borrow = 0;
if (qguess != 0)
{
*mval = 0;
_one_mult (n2ptr, len2, qguess, mval+1);
ptr1 = (unsigned char *) num1+qdig+len2;
ptr2 = (unsigned char *) mval+len2;
for (count = 0; count < len2+1; count++)
{
val = (int) *ptr1 - (int) *ptr2-- - borrow;
if (val < 0)
{
val += 10;
borrow = 1;
}
else
borrow = 0;
*ptr1-- = val;
}
}

/* Test for negative result. */

```

```

if (borrow == 1)
{
    qguess--;
    ptr1 = (unsigned char *) num1+qdig+len2;
    ptr2 = (unsigned char *) n2ptr+len2-1;
    carry = 0;
    for (count = 0; count < len2; count++)
    {
        val = (int) *ptr1 + (int) *ptr2-- + carry;
        if (val > 9)
        {
            val -= 10;
            carry = 1;
        }
        else
            carry = 0;
        *ptr1-- = val;
    }
    if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
}

/* We now know the quotient digit. */
*qptr++ = qguess;
qdig++;
}
}

/* Clean up and return the number. */
qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
if (bc_is_zero (qval)) qval->n_sign = PLUS;
_bc_rm_leading_zeros (qval);
bc_free_num (quot);
*quot = qval;

/* Clean up temporary storage. */
free (mval);
free (num1);
free (num2);

return 0; /* Everything is OK. */
}

/* Division *and* modulo for numbers. This computes both NUM1 / NUM2 and
NUM1 % NUM2 and puts the results in QUOT and REM, except that if QUOT
is NULL then that store will be omitted.
*/

```

```

int
bc_divmod (num1, num2, quot, rem, scale)
    bc_num num1, num2, *quot, *rem;
    int scale;
{
    bc_num quotient = NULL;
    bc_num temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero (num2)) return -1;

    /* Calculate final scale. */
    rscale = MAX (num1->n_scale, num2->n_scale+scale);
    bc_init_num(&temp);

    /* Calculate it. */
    bc_divide (num1, num2, &temp, scale);
    if (quot)
        quotient = bc_copy_num (temp);
    bc_multiply (temp, num2, &temp, rscale);
    bc_sub (num1, temp, rem, rscale);
    bc_free_num (&temp);

    if (quot)
    {
        bc_free_num (quot);
        *quot = quotient;
    }

    return 0; /* Everything is OK. */
}

/* Modulo for numbers. This computes NUM1 % NUM2 and puts the
   result in RESULT. */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD. The result is
   placed in RESULT. If a EXPO is not an integer,
   only the integer part is used. */

```



```

int
bc_raisemod (base, expo, mod, result, scale)
    bc_num base, expo, mod, *result;
    int scale;
{
    bc_num power, exponent, parity, temp;
    int rscale;

    /* Check for correct numbers. */
    if (bc_is_zero(mod)) return -1;
    if (bc_is_neg(expo)) return -1;

    /* Set initial values. */
    power = bc_copy_num (base);
    exponent = bc_copy_num (expo);
    temp = bc_copy_num (_one_);
    bc_init_num(&parity);

    /* Check the base for scale digits. */
    if (base->n_scale != 0)
        bc_rt_warn ("non-zero scale in base");

    /* Check the exponent for scale digits. */
    if (exponent->n_scale != 0)
    {
        bc_rt_warn ("non-zero scale in exponent");
        bc_divide (exponent, _one_, &exponent, 0); /*truncate */
    }

    /* Check the modulus for scale digits. */
    if (mod->n_scale != 0)
        bc_rt_warn ("non-zero scale in modulus");

    /* Do the calculation. */
    rscale = MAX(scale, base->n_scale);
    while ( !bc_is_zero(exponent) )
    {
        (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
        if ( !bc_is_zero(parity) )
        {
            bc_multiply (temp, power, &temp, rscale);
            (void) bc_modulo (temp, mod, &temp, scale);
        }

        bc_multiply (power, power, &power, rscale);
        (void) bc_modulo (power, mod, &power, scale);
    }
}

```

```

/* Assign the value. */
bc_free_num (&power);
bc_free_num (&exponent);
bc_free_num (result);
*result = temp;
return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power. The result is placed in RESULT.
Maximum exponent is LONG_MAX. If a NUM2 is not an integer,
only the integer part is used. */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
    bc_num temp, power;
    long exponent;
    int rscale;
    int pwrscale;
    int calcscale;
    char neg;

    /* Check the exponent for scale digits and convert to a long. */
    if (num2->n_scale != 0)
        bc_rt_warn ("non-zero scale in exponent");
    exponent = bc_num2long (num2);
    if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
        bc_rt_error ("exponent too large in raise");

    /* Special case if exponent is a zero. */
    if (exponent == 0)
    {
        bc_free_num (result);
        *result = bc_copy_num (_one_);
        return;
    }

    /* Other initializations. */
    if (exponent < 0)
    {
        neg = TRUE;
        exponent = -exponent;
        rscale = scale;
    }
    else

```

```

{
    neg = FALSE;
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
}

/* Set initial value of temp. */
power = bc_copy_num (num1);
pwrscale = num1->n_scale;
while ((exponent & 1) == 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
}
temp = bc_copy_num (power);
calcscale = pwrscale;
exponent = exponent >> 1;

/* Do the calculation. */
while (exponent > 0)
{
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
calcscale = pwrscale + calcscale;
bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
}

/* Assign the value. */
if (neg)
{
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
}
else
{
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
(*result)->n_scale = rscale;
}
bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
after the decimal place. */

```

```

int
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
int rscale, cmp_res, done;
int cscale;
bc_num guess, guess1, point5, diff;

/* Initial checks. */
cmp_res = bc_compare (*num, _zero_);
if (cmp_res < 0)
    return 0; /* error */
else
{
    if (cmp_res == 0)
    {
        bc_free_num (num);
        *num = bc_copy_num (_zero_);
        return 1;
    }
}
cmp_res = bc_compare (*num, _one_);
if (cmp_res == 0)
{
    bc_free_num (num);
    *num = bc_copy_num (_one_);
    return 1;
}

/* Initialize the variables. */
rscale = MAX (scale, (*num)->n_scale);
bc_init_num(&guess);
bc_init_num(&guess1);
bc_init_num(&diff);
point5 = bc_new_num (1,1);
point5->n_value[1] = 5;

/* Calculate the initial guess. */
if (cmp_res < 0)
{
    /* The number is between 0 and 1. Guess should start at 1. */
    guess = bc_copy_num (_one_);
    cscale = (*num)->n_scale;
}
else

```

```

{
/* The number is greater than 1. Guess should start at 10^(exp/2). */
bc_int2num (&guess,10);

bc_int2num (&guess1,(*num)->n_len);
bc_multiply (guess1, point5, &guess1, 0);
guess1->n_scale = 0;
bc_raise (guess, guess1, &guess, 0);
bc_free_num (&guess1);
cscale = 3;
}

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
{
bc_free_num (&guess1);
guess1 = bc_copy_num (guess);
bc_divide (*num, guess, &guess, cscale);
bc_add (guess, guess1, &guess, 0);
bc_multiply (guess, point5, &guess, cscale);
bc_sub (guess, guess1, &diff, cscale+1);
if (bc_is_near_zero (diff, cscale))
{
if (cscale < rscale+1)
cscale = MIN (cscale*3, rscale+1);
else
done = TRUE;
}
}

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}

/* The following routines provide output for bcd numbers package
using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
long digit;

```

```

struct stk_rec *next;
} stk_rec;

/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";

/* A special output routine for "multi-character digits." Exactly
SIZE characters must be output for the value VAL. If SPACE is
non-zero, we must output one space before the number. OUT_CHAR
is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
    char digits[40];
    int len, ix;

    if (space) (*out_char) (' ');
    sprintf (digits, "%ld", val);
    len = strlen (digits);
    while (size > len)
    {
        (*out_char) ('0');
        size--;
    }
    for (ix=0; ix < len; ix++)
        (*out_char) (digits[ix]);
}

/* Output of a bcd number. NUM is written in base O_BASE using OUT_CHAR
as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();

```

```

#endif
    int leading_zero;
    {
    char *nptr;
    int index, fdigit, pre_space;
    stk_rec *digits, *temp;
    bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

    /* The negative sign if needed. */
    if (num->n_sign == MINUS) (*out_char) ('-');

    /* Output the number. */
    if (bc_is_zero (num))
        (*out_char) ('0');
    else
        if (o_base == 10)
            {
            /* The number is in base 10, do it the fast way. */
            nptr = num->n_value;
            if (num->n_len > 1 || *nptr != 0)
                for (index=num->n_len; index>0; index--)
                    (*out_char) (BCD_CHAR(*nptr++));
            else
                nptr++;

            if (leading_zero && bc_is_zero (num))
                (*out_char) ('0');

            /* Now the fraction. */
            if (num->n_scale > 0)
                {
                (*out_char) ('. ');
                for (index=0; index<num->n_scale; index++)
                    (*out_char) (BCD_CHAR(*nptr++));
                }
            }
            else
                {
                /* special case ... */
                if (leading_zero && bc_is_zero (num))
                    (*out_char) ('0');

                /* The number is some other base. */
                digits = NULL;
                bc_init_num (&int_part);
                bc_divide (num, _one_, &int_part, 0);
                bc_init_num (&frac_part);
                bc_init_num (&cur_dig);

```

```

bc_init_num (&base);
bc_sub (num, int_part, &frac_part, 0);
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);

/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
{
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
}

/* Print the digits on the stack. */
if (digits != NULL)
{
    /* Output the digits. */
    while (digits != NULL)
    {
        temp = digits;
        digits = digits->next;
        if (o_base <= 16)
            (*out_char) (ref_str[ (int) temp->digit]);
        else
            bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
        free (temp);
    }
}

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
{
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
        bc_multiply (frac_part, base, &frac_part, num->n_scale);
        fdigit = bc_num2long (frac_part);
        bc_int2num (&int_part, fdigit);
    }
}

```



```

    bc_sub (frac_part, int_part, &frac_part, 0);
    if (o_base <= 16)
(*out_char) (ref_str[fdigit]);
    else {
bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
pre_space = 1;
    }
    bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
}

/* Clean up. */
bc_free_num (&int_part);
bc_free_num (&frac_part);
bc_free_num (&base);
bc_free_num (&cur_dig);
bc_free_num (&max_o_digit);
}
}
/* Convert a number NUM to a long. The function returns only the integer
part of the number. For numbers that are too large to represent as
a long, this function returns a zero. This can be detected by checking
the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
    long val;
    char *nptr;
    int index;

/* Extract the int value, ignore the fraction. */
    val = 0;
    nptr = num->n_value;
    for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
        val = val*BASE + *nptr++;

/* Check for overflow. If overflow, return zero. */
    if (index>0) val = 0;
    if (val < 0) val = 0;

/* Return the value. */
    if (num->n_sign == PLUS)
        return (val);
    else
        return (-val);
}

```

```

}

/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
    char buffer[30];
    char *bptr, *vptr;
    int ix = 1;
    char neg = 0;

    /* Sign. */
    if (val < 0)
    {
        neg = 1;
        val = -val;
    }

    /* Get things going. */
    bptr = buffer;
    *bptr++ = val % BASE;
    val = val / BASE;

    /* Extract remaining digits. */
    while (val != 0)
    {
        *bptr++ = val % BASE;
        val = val / BASE;
        ix++; /* Count the digits. */
    }

    /* Make the number. */
    bc_free_num (num);
    *num = bc_new_num (ix, 0);
    if (neg) (*num)->n_sign = MINUS;

    /* Assign the digits. */
    vptr = (*num)->n_value;
    while (ix-- > 0)
        *vptr++ = *--bptr;
}

/* Convert a numbers to a string. Base 10 only.*/

```

```

char
*num2str (num)
    bc_num num;
{
char *str, *sptr;
char *nptr;
int index, signch;

/* Allocate the string memory. */
signch = ( num->n_sign == PLUS ? 0 : 1 ); /* Number of sign chars. */
if (num->n_scale > 0)
    str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
else
    str = (char *) malloc (num->n_len + 1 + signch);
if (str == NULL) bc_out_of_memory();

/* The negative sign if needed. */
sptr = str;
if (signch) *sptr++ = '-';

/* Load the whole number. */
nptr = num->n_value;
for (index=num->n_len; index>0; index--)
    *sptr++ = BCD_CHAR(*nptr++);

/* Now the fraction. */
if (num->n_scale > 0)
{
    *sptr++ = '.';
    for (index=0; index<num->n_scale; index++)
        *sptr++ = BCD_CHAR(*nptr++);
}

/* Terminate the string and return it! */
*sptr = '\0';
return (str);
}

/* Convert strings to bc numbers. Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
int digits, strscale;
char *ptr, *nptr;
char zero_int;

```

```

/* Prepare num. */
bc_free_num (num);

/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ((*ptr == '+') || (*ptr == '-')) ptr++; /* Sign */
while (*ptr == '0') ptr++; /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++; /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
{
    *num = bc_copy_num (_zero_);
    return;
}

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
{
    zero_int = TRUE;
    digits = 1;
}
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
{
    (*num)->n_sign = MINUS;
    ptr++;
}
else
{
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
}
while (*ptr == '0') ptr++; /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
{
    *nptr++ = 0;
    digits = 0;
}

```

```

for (;digits > 0; digits--)
    *nptr++ = CH_VAL(*ptr++);

/* Build the fractional part. */
if (strscale > 0)
{
    ptr++; /* skip the decimal point! */
    for (;strscale > 0; strscale--)
        *nptr++ = CH_VAL(*ptr++);
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
    putchar(c);
}

void
pn (num)
    bc_num num;
{
    bc_out_num (num, 10, out_char, 0);
    out_char ('\n');
}

/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
    int i;
    printf ("%s=", name);
    for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
    printf ("\n");
}

```

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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.

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1.111 kingpin 2.2.6

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1.113 net-tools 1.60

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1.114 iconv 2.20

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1.115 gpt-fdisk 1.0.4

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1.116 postgresql 12.4

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1.117 libpng 1.6.13

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One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

WolfSSL

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BoringSSL

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libressl

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c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

MIT Kerberos

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Heimdal

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GNU GSS

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libidn

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.
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1.121 pgzip 1.2.1

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1.122 libffi 3.1

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Version 3, 29 June 2007

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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

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

Ty Coon, President of Vice

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1.125 tcpdump 4.9.3

1.125.1 Available under license :

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1.126 go-diff lib 1.0.0

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1.127 go-multierror 1.0.0

1.127.1 Available under license :

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1.128 bsd-mailx 12.5-5

1.128.1 Available under license :

3.0 (quilt)

This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on Mon, 23 Dec 1996 00:13:13 +0100.

The package is currently maintained by Robert Lubberda <robert@debian.org>

It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major

ftp sites.

See the README.Debian (and changelog.Debian) for the complicated history of the Debian package.

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bsd-mailx for DEBIAN

The history of this package is quite complicated. The changelog includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5 mail version from FreeBSD.

There has been a lot of work on the package shipped with Debian 0.93R6, which was based on a BSD 8.1 mail version from BSD4.4Lite. The extensions include support for dotfile locking, setgid support, POP support, signal handling hacks.

here is a README originally found:

```
+ README for Berkely mailx version 8.1 with POP extension
+
+ This is "mailx", a simple program for sending and receiving email.
+
+ This is based on mailx version 8.1 (as distributed with BSD 4.4lite).
+
+ It has been extended to support the post-office protocol (POP). Run
+ "mail -p" and it will retrieve your email from a POP server rather than
+ from your local mail queue. See the manual page for more details.
+
+ The POP support was written by Jonathan I. Kamens for version mailx 5.5
+ (as distributed with BSD 4.3.)
+
+ The POP support was integrated into version 8.1 by Salvatore Valente
+ for no particular reason. (It would have been simpler for me to
+ simply use Jonathan's 5.5 source tree. There are no major differences
+ between the two versions.)
+
+ Have a nice day.
+ -Salvatore Valente. <svalente@athena.mit.edu>
+ 5/12/94
+
+
+ PORTING
+
+ Before attempting to compile this for _any_ system, you should do two
+ things:
+
+ Edit CFLAGS in Makefile.
+ Edit pathnames.h.
+
+ These sources are _extremely_ BSDish. I have successfully built this
+ for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
+ successfully gotten it to build for Solaris or any System 5ish system.
+ If you want to try, here are some issues you will face:
+
+ It uses BSD signal() semantics. Use sigaction().
+ It uses BSD longjmp() semantics. Use siglongjmp().
+ It uses BSD sgtty. Use termios.
+ It uses BSD signal mask functions. Use posix sigmask functions.
+
+ There will probably be other hurdles too. Good luck.
```

With Debian1.1 a switch was done to a version base on a BSD5.5 mail program, because of signal handling problems (which I think were due

to bad compilation options). So no more POP support. Some patches from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding README was:

```
+ mailx-5.5-kw 5/30/95
+
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+
+ 5/4/95:
+
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+
+ -- -H switch for header summary only
+
+ Still to be done:
+
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")
+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+  is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a,~A tilde escapes leave an extra trailing blank on each line
```

+ -- to conform to original style, I should really be using char *cp
+ instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation is kind of gross. grep for "hdronly" in
+ source files; much room for improvement!
+
+
+ HOW TO INSTALL
+
+ Apply Sal Valente's debian patch first, so:
+
+ tar xvfz mailx-5.5.tar.gz
+ cd mailx-5.5
+ zcat ../mailx-5.5.debian.diff.gz | patch -p1
+ zcat ../mailx-5.5-kw.diff.gz | patch -p1
+ make
+
+ Or you may wish to just uncompress the diff file and pick and choose
+ the changes that you like.
+
+
+ AUTHOR
+
+ Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission on /var/mail+dotfile locking), so Loic Prylli <lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD mail with the minimum number of patches to make it suited for debian (see changelog). There is no more POP support, nor the added functionality from Ken Whang, but all these patches are archived, so mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli <lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr 4 14:05:38 CEST 1998:

After a security patch to fix tmp races, a number of things broke.

Here is what I have tried to fix them:

The rationale is to have all file openings go through safe_open:

File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)

Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls

diff-ignore

tar-ignore

```
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifneq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
export CC = gcc
endif

%:
dh "$@" --parallel

override_dh_auto_clean:
# Don't try to run make clean on unpatched version of Makefile
! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
dh_installchangelogs -a debian/EXT/ChangeLog
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-libblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Intialize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch
83-nosendmail.patch
```

9

etc

usr/bin

usr/share/bsd-mailx

usr/share/man/man1

bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

- * SECURITY UPDATE: shell command injection
- Apply OpenBSD patches from Todd Miller (taken from Debian update):
 - + 80-remove_T.patch (remove undocumented/obsolete -T option)
 - + 81-minus_f.patch (adjust -f processing)
 - + 82-expandaddr.patch (fix CVE-2014-7844)
 - + 83-nosendmail.patch (make -- work for option parsing suppression)
- CVE-2014-7844

-- Marc Deslauriers <marc.deslauriers@ubuntu.com> Mon, 05 Jan 2015 11:36:44 -0500

bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx implementations and will not treat messages containing a single new line only as an empty ones (LP: #607099, reopens #355545).
- * Extend description of this package to mention the fact that bsd-mailx lacks many features that may be found in other packages like heirloom-mailx or mailutils (closes: #508303).
- * Add 26-Fix-confusing-error.patch to make a message given when -b is used without -t less confusing (closes: #327809).
- * Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
- * debian/rules:
 - + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC for cross-compiling;
 - + do not try to run make clean on unpatched Makefile.
- * Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * Drop the additional source files from EXT directory, use libbsd-dev instead. Move EXT to debian.
- * 00-Makefile: don't override CFLAGS set in environment.
- * Switch to dpkg-source 3.0 (quilt) format.
- * Use debhelper v9 and tiny debian/rules file.
- * debian/control:
 - + Build-Depends on libbsd-dev;

- + Standards-Version: 3.9.2;
- + use Breaks instead of versioned Conflicts;
- + add Vcs fields;
- + reformat the dependencies fields with `wrap-and-sort' command.
- * Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org> Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * Follow upstream and stop installing the outdated documentation (closes: #455708); also remove doc-base file.
- * debian/control:
 - + depend on default-mta instead of exim4 (closes: #555495);
 - + add \${misc:Depends} dependency (lintian);
 - + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org> Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

- * Fix a bogus "can't send mail: sendmail process failed" errors appearing rarely on systems under heavy loads (closes: #550116).
- Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation and patch.

-- Robert Luberda <robert@debian.org> Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

- * New upstream release from OpenBSD repository.
- * Fix grammar in description (closes: #515781).
- * Drop mailx transitional package.
- * Bump debhelper compat mode to 7.
- * Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org> Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

- * Upload to unstable.

-- Robert Luberda <robert@debian.org> Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

- * New upstream release.

- * Lower priority of mailx package to extra.
- * Standards-Version: 3.8.0 (no changes).
- * Remove duplicated `it' from description (lintian).

-- Robert Luberda <robert@debian.org> Sat, 01 Nov 2008 12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

- * Lower priority of mailx package to optional (see #477124).
- * copyright: Add a copyright notice (lintian).
- * Build depend on debhelper >= 6 (lintian).
- * Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

- * Add conflict with old mailx packages (closes: #459621).
- * Standards-Version: 3.7.3 (no changes).
- * Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

- * New upstream version.
- * Rename package to bsd-mailx, and create dummy mailx package for smooth upgrades.
- * Manage /usr/bin/mailx with update-alternatives to allow other packages like mailutils or nail to be installed together with bsd-mailx.
- * Remove outdated preinst script.

-- Robert Luberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

- * collect.c: Oops, for debugging I commented out the line responsible for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * send.c: treat messages which contain only a new line sign as empty messages (closes: #355545).
- * Fix `debian-rules-ignores-make-clean-error' lintian warning.
- * Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * Standards-Version: 3.7.2.
- * Lower package priority to standard to match the override file.
- * main.c: Replace with spaces any embeded newline passed in arguments for '-s' and '-a' options (closes: #419840).
- * mail.1: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository:
 - + fixed segfault in list.c (closes: #313306).
- * Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

- * Fix documentation of sendmail options in the man page and in the mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

- * fio.c: Fix segfault on wildcard expansion introduced in previous upload. Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

- * Bugfix release (closes: #278748):
 - + fio.c: Use wordexpr() instead of calling /bin/echo not to allow executing external commands while expanding shell variables and wildcards.
 - + names.c: isfileaddr function return false if '@', '!' or '%' i characters occur anywhere (e.g not only before the slash) in the recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD CVS repository.
- * debian/control: add exim4 alternative to mail-transport-agent dependency (closes: #248498).
- * USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to /etc/mail.rc.
- * USD.doc/Makefile, debian/rules: generate and install manual.txt (like in the upstream version).
- * Removed lintian override file, it's no longer needed.
- * Add lintian source overrides for `cvsignore-file-in-source' and `source-contains-CVS-dir'.

-- Robert Luberda <robert@debian.org> Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

- * edit.c: if the external editor (called by ~e or ~v commands) fails for some reason, don't delete the temporary file if it has been modified. This partly fixes bug#148037.
- * popen.c: print exit code of failed commands.
- * quit.c: change message saying that mailbox was "removed" to "truncated" (closes: #196682); mailx does not remove mailboxes, see the entry for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org> Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD.
- * Fix problem with building on Hurd (closes: #213929).
- * mail.1: removed reference to non-existent lockspool man page.
- * Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org> Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1) unstable; urgency=low

- * New upstream version from OpenBSD.
- * Added EXT/vis.[ch] files, needed for compiling this version.
- * Minor fix in Makefile (closes: #181022).
- * debian/control: Remove ending dot from synopsis line (lintian).
- * Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org> Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

- * cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
- * Support DEB_BUILD_OPTIONS=noopt instead of debug.
- * Build with debhelper v4.
- * Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org> Sat, 7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low

- * send.c: Always wait for a sendmail process, check its exit code and if non-zero, print a warning message to user and save original message to ~/dead.letter (closes: #145379).
- * popen.c: Make wait_child() return an exit code of the child.

- * mail.1: s/^\.ne li\$/.ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

- * aux.c: in function alter() do initialize tv_usec part of the timeval structure used to set modification time on the mailbox file (closes: #152038).
- Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

- * collect.c: return from grabh() if stdin is not a terminal. This fixes the ``-I'` option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

- * New upstream CVS snapshot, with only one change, which fixes potential security problem:
 - + collect.c:
 - Don't do tilde escapes unless we are in interactive mode. Now the behavior matches the man page...
- * Many thanks to Michal Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

- * fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

* fio.c: Don't delete mailbox file, always truncate it, because liblockfile fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100

mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

* Applied patches from Arnaud Giersch <arnaud.giersch@free.fr> which fix outstanding problems:

+ closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).

+ closes: #71759: mailx concatenates messages.

MANY THANKS FOR YOUR HELP, Arnaud!

* New upstream version from OpenBSD CVS repository:

+ closes: #34752: mail causes segmentation fault when pushing Ctrl+C.

* This version uses strcpy&strcat functions, appropriate files were included in Debian patch.

* Added upstream changelog file, generated by hand from CVS logs using `cvs2cl --no-wrap -S'.

* Makefile: added -p option to install (preserve timestamps of installed files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

* debian/copyright: text of BSD license can be found in common-licences, so do not include it here...

-- Robert Luberda <robert@debian.org> Fri, 4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

* debian/copyright: removed 3th paragraph from the text of BSD license as suggested by Branden Robinson (closes: #123828).

* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

* New version from OpenBSD cvs repository:

+ aux.c: In skin(), only add a space after a comma if there is actually a

space in the input buffer. This prevents a rare buffer overflow on very long header lines... (closes: #108677). See #108677 for more info.
+ aux.c: In skin() don't die if realloc() fails since its only purpose is to shrink the buffer, not expand it.

* No other changes was made, so I think this version should go to woody as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200

mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

* Removed exim from exim|mail-transport-agent dependency (closes: #106122).
* Added a lintian override file for virtual-package-without-real-package-dependency warning.
* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

* New version from OpenBSD cvs.
* Updated copyright and README.Debian files.
* Removed IOSAFE patch - it wasn't used.
* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds "showname" option to mailx (closes: #96867).
* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
* quit.c: Use lockf instead if flock.
* quit.c: Add missing newline in `Saved ...' message.
* Added doc-base support.
* Added versioned dependency on base-files, as suggested in upgrading-checklist for Debian Policy 3.5.4.
* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

* Applied some patches from FreeBSD:
+ Add Reply-To header if REPLYTO environment variable is set.
+ Add In-Reply-To header for replies (closes: #23115).
* When saving messages to mbox, print its real filename (closes: #68920).

Thanks to Tollef Fog Heen for patch.

* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Lubberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

* Don't ask about (B)Cc: header twice (closes: #90822).

-- Robert Lubberda <robert@debian.org> Fri, 23 Mar 2001 23:47:43 +0100

mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

* New maintainer (closes: #90146).

* New upstream version from OpenBSD CVS repository.

* Security fix: don't install mailx binary setgid mail.

Now the liblockfile library is used for mailbox locking.

* cmd3.c: Initialize head variable with NULLs. This should fix problem with garbage text when replying (closes: #84166).

* Add conflicts with older suidmanager.

* Helpfiles moved to /usr/share/mailx.

* Added support for DEB_BUILD_OPTIONS=debug,nostrip.

* Updated Standards-Version: 3.5.2

* Switch to debhelper v3.

* Updated Build-Depends field.

* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Lubberda <robert@debian.org> Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org> Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

* debian/control: Standards-Version updated.

* debian/control: Build-Depends added.

* debian/control: Depends line fixed (Closes: Bug#41909).

* debian/rules: rewritten, still uses debhelper.

* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).

* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).

* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de> (Closes: Bug#26757, Bug#40424).

* misc/mail.help, USD.doc/mail[1568].nr: changed references from /usr/spool/mail to /var/mail (Closes: Bug#41910).

* send.c: Comment out bcc code (Closes: Bug#75232).

- * pathnames.h: Change default shell from /bin/csh to /bin/sh.
- * pathnames.h: Change default pager from /bin/more to /usr/bin/pager (Closes: Bug#41228).
- * pathnames.h: Change default editor from /bin/ex to /usr/bin/editor (Closes: Bug#66385).
- * debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org> Sun, 14 Jan 2001 12:36:16 -0700

mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

- * Fix the security fix: only accept a couple environment variables instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

- * Another security problem: refuse to get the interactive variable from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10 -0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

- * NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

- * Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

- * correct major security flaw, patch from Alvaro Martinez Echevarria <alvaro@lander.es>, bug#23880, bug#23901
- * other potential buffer overflow, patch from Juan-Mariano de Goyeneche <jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

* recompile without the signal handling workarounds (lo
that eliminate critical bugs where message parts can be lost
(#20798) and (#20558)

-- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high

* previous patch broke most file accesses, corrected safe_open (#20634)
* try to check every access to Fopen, change "a" into "w" for new files,
to suit behaviour of safe_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

* convert to debhelper
* changelog now compressed (bug#15431)
* removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

* apply David Brown patch so mailx choose the right window size
(#12197)
* correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

* mailx was sending empty message, ignoring user input
add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

* Non-maintainer release.
* Libc6 compile. (#11705)

* Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

- * add dpkg --assert-working-epoch in preinst bug#6850
- * add writing of pid in mailbox locking file
- * fix:mailx was not removing temporary lock files

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 1 Feb 1997 11:44:04 +0100

mailx (1:8.1.1-2) unstable; urgency=low

- * correct bug #2733 (occur when no space left) dans quit.c
- * detection of From_ lines with tring to match the date bug#2010
- * corrected garble output bug #2284

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 28 Dec 1996 15:02:22 +0100

mailx (1:8.1.1-1) unstable; urgency=medium

- * recreate completely starting from OpenBSD mail version (we loose a lot of extension but we have a working program now)
- * OpenBSD base version is the last one in december 96
- * rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the last upstream digit is to change each time we update to a new opensbd version.
- * fix the problem of longjmp inside signals inside stdio calls
- * reincorporate a patch to be dot file locking+setgid safe
- * some fix in signal handling

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Dec 1996 01:57:44 +0100

Mon Apr 29 17:21:42 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

- * releasing 8.5.5-1
- * added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996 Sven Rudolph <sr1@inf.tu-dresden.de>

- * set version number to 8.5.5 because it has to supersede 8.1
- * switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)
- * no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:

Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have added a "hold-pop" option to hold messages on the POP server after retrieving them. (Also fixed a minor bug with mailx thinking that there is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>
* Fixed control file to depend on smail|sendmail. Updated to latest guidelines
bsd-mailx source: source-contains-cvs-control-dir
Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
 groff,
 libbsd-dev (>= 0.3),
 libblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
 default-mta | mail-transport-agent,
 \${misc:Depends},
 \${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.

.
The /usr/bin/mail command provided by this package is a very simple one,
and does not include many features that can be found in more advanced
mail user agents.
.

For example bsd-mailx DOES NOT support:

- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).

If the above features are needed, please consider installing another package providing similar /usr/bin/mail interface:

- heirloom-mailx package,
- or mailutils package.

1.129 libx11 1.6.2

1.129.1 Available under license :

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1.130 gorilla-csrf 1.6.1

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1.131 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.133 sed 4.2.2

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1.138 psycopg 2.8.4

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1.139 logrus 1.4.2

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1.141 cronie 1.4.11

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1.142 socat 1.7.3.3

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1.144 fdisk 2.24.2

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.145 go-dockerclient 1.6.0

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1.146 e2fsprogs 1.42.9

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

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1.147 libmnl 1.0.4

1.147.1 Available under license :

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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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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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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

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

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

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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 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.

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

concluded that weaker conditions might promote sharing better.

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

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

That's all there is to it!

1.151 bzip2 1.0.6

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Julian Seward, Cambridge, UK.

jseward@acm.org

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

minibz2

libbz2.dll test program.

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

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

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1.152 go-jose 2.3.1

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1.153 lib-pq 11.2

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>Legal Notice</title><link rel="stylesheet" type="text/css" href="stylesheet.css" /><link
rev="made" href="pgsql-docs@lists.postgresql.org" /><meta name="generator" content="DocBook XSL
Stylesheets V1.79.1" /></head><body><div class="legalnotice" id="LEGALNOTICE"><p class="legalnotice-
title">Legal Notice</p><p>
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PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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<?xml version="1.0" encoding="UTF-8" standalone="no"?>

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"

```

"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>34.12.Notice Processing</title><link rel="stylesheet" type="text/css" href="stylesheet.css"
/><link rev="made" href="pgsql-docs@lists.postgresql.org" /><meta name="generator" content="DocBook XSL
Stylesheets V1.79.1" /><link rel="prev" href="libpq-misc.html" title="34.11.Miscellaneous Functions" /><link
rel="next" href="libpq-events.html" title="34.13.Event System" /></head><body><div
xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="5" align="center">34.12.Notice Processing</th></tr><tr><td
width="10%" align="left"><a accesskey="p" href="libpq-misc.html" title="34.11.Miscellaneous
Functions">Prev</a></td><td width="10%" align="left"><a accesskey="u" href="libpq.html"
title="Chapter34.libpq - C Library">Up</a></td><th width="60%" align="center">Chapter34.<span
xmlns="http://www.w3.org/1999/xhtml" class="application">libpq</span> - C Library</th><td width="10%"
align="right"><a accesskey="h" href="index.html" title="PostgreSQL 11.2 Documentation">Home</a></td><td
width="10%" align="right"><a accesskey="n" href="libpq-events.html" title="34.13.Event
System">Next</a></td></tr></table><hr></hr></div><div class="sect1" id="LIBPQ-NOTICE-
PROCESSING"><div class="titlepage"><div><div><h2 class="title" style="clear: both">34.12.Notice
Processing</h2></div></div></div><a id="id-1.7.3.19.2" class="indexterm"></a><p>

```

Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `<code class="filename">stderr</code>`, but the application can override this behavior by supplying its own handling function.

</p><p>

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

</p><p>

The function `<code class="function">PQsetNoticeReceiver</code>` [sets](#) and examines the current notice receiver for a connection object. Similarly, `<code class="function">PQsetNoticeProcessor</code>` [sets](#) and examines the current notice processor.

</p><pre class="synopsis">

```
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
```

```
PQnoticeReceiver
```

```
PQsetNoticeReceiver(PGconn *conn,
```

```
    PQnoticeReceiver proc,
```

```
    void *arg);
```

```
typedef void (*PQnoticeProcessor) (void *arg, const char *message);
```

```
PQnoticeProcessor  
PQsetNoticeProcessor(PGconn *conn,  
                    PQnoticeProcessor proc,  
                    void *arg);  
</pre><p>
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

</p><p>

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or obtain a complete preformatted message using `PQresultErrorMessage` or `PQresultVerboseErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

</p><p>

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

</p><p>

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`. (This pointer can be used to access application-specific state if needed.)

</p><p>

The default notice processor is simply:

```
</pre><pre class="programlisting">  
static void  
defaultNoticeProcessor(void *arg, const char *message)  
{  
    fprintf(stderr, "%s", message);  
}  
</pre><p>
```

</pre><p>

</p><p>

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the

`PGconn` object or `PGresult` objects made

from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

```
</p></div><div class="navfooter"><hr /><table width="100%" summary="Navigation footer"><tr><td width="40%" align="left"><a accesskey="p" href="libpq-misc.html">Prev</a></td><td width="20%" align="center"><a accesskey="u" href="libpq.html">Up</a></td><td width="40%" align="right"><a accesskey="n" href="libpq-events.html">Next</a></td></tr><tr><td width="40%" align="left" valign="top">34.11.Miscellaneous Functions</td><td width="20%" align="center"><a accesskey="h" href="index.html">Home</a></td><td width="40%" align="right" valign="top">34.13.Event System</td></tr></table></div></body></html>
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>20.14.BSD Authentication</title><link rel="stylesheet" type="text/css"
href="stylesheet.css" /><link rev="made" href="pgsql-docs@lists.postgresql.org" /><meta name="generator"
content="DocBook XSL Stylesheets V1.79.1" /><link rel="prev" href="auth-pam.html" title="20.13.PAM
Authentication" /><link rel="next" href="client-authentication-problems.html" title="20.15.Authentication
Problems" /></head><body><div xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader"><table
width="100%" summary="Navigation header"><tr><th colspan="5" align="center">20.14.BSD
Authentication</th></tr><tr><td width="10%" align="left"><a accesskey="p" href="auth-pam.html"
title="20.13.PAM Authentication">Prev</a></td><td width="10%" align="left"><a accesskey="u" href="client-
authentication.html" title="Chapter20.Client Authentication">Up</a></td><th width="60%"
align="center">Chapter20.Client Authentication</th><td width="10%" align="right"><a accesskey="h"
href="index.html" title="PostgreSQL 11.2 Documentation">Home</a></td><td width="10%" align="right"><a
accesskey="n" href="client-authentication-problems.html" title="20.15.Authentication
Problems">Next</a></td></tr></table><hr></div><div class="sect1" id="AUTH-BSD"><div
class="titlepage"><div><div><h2 class="title" style="clear: both">20.14.BSD
Authentication</h2></div></div></div><a id="id-1.6.7.21.2" class="indexterm"></a><p>
```

This authentication method operates similarly to

`password` except that it uses BSD Authentication to verify the password. BSD Authentication is used only to validate user name/password pairs. Therefore the user's role must already exist in the database before BSD Authentication can be used for authentication. The BSD Authentication framework is currently only available on OpenBSD.

</p><p>

BSD Authentication in `PostgreSQL` uses the `auth-postgresql` login type and authenticates with the `postgresql` login class if that's defined in `login.conf`. By default that login class does not exist, and `PostgreSQL` will use the default login class.

</p><div class="note"><h3 class="title">Note</h3><p>

To use BSD Authentication, the PostgreSQL user account (that is, the operating system user running the server) must first be added to the `auth` group. The `auth` group exists by default on OpenBSD systems.

```
</p></div></div><div class="navfooter"><hr /><table width="100%" summary="Navigation footer"><tr><td width="40%" align="left"><a accesskey="p" href="auth-pam.html">Prev</a></td><td width="20%" align="center"><a accesskey="u" href="client-authentication.html">Up</a></td><td width="40%" align="right"><a accesskey="n" href="client-authentication-problems.html">Next</a></td></tr><tr><td width="40%" align="left" valign="top">20.13.PAM Authentication</td><td width="20%" align="center"><a accesskey="h" href="index.html">Home</a></td><td width="40%" align="right" valign="top">20.15.Authentication Problems</td></tr></table></div></body></html>
```

1.154 unzip 6.0

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- *
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 * -----
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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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.

1.155 x-sys 0.0.0 -

da207088b7d1961c44ec61e9dc15a737

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1.156 goprotobuf 1.3.2

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1.157 toml 0.3.1

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1.158 zip 3.0

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Format stream_lf

1.159 libxdmcp 1.1.1

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1.160 go-systemd 0.0.0-20190719114852- fd7ab80b32e1f

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1.162 dosfs-tools 2.11

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

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
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: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="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:

- mode: sgml

- End:

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1.168 gorilla 1.7.3

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*/

NR START END SECTORS SIZE NAME UUID

```
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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b68221c37ee597950364788204546f9c9d0e46a1.

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

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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!

1.174 cracklib 2.9.5

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

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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>=20

> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done

> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

>> What I am hearing so far is that LGPL makes sense, since it can be
>> linked with any code, not just GPL...

>

> My apologies for not chiming in in anything resembling a reasonable
> timeframe.

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?

>

> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umn.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly

> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.175 python 3.5.6

1.175.1 Available under license :

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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.

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

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=====

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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes	
+-----+-----+-----+-----+-----+					
2.2 and above	2.1.1	2001-now	PSF	yes	
+-----+-----+-----+-----+-----+					

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Mersenne Twister

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

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

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

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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

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Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

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Select kqueue

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SipHash24

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto_auth/siphash24/little2](https://github.com/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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libmpdec

The `:mod:`_decimal`` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`::`

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1.176 fsnotify 1.4.7

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1.177 prometheus-client 1.1.0

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1.178 curl 7.62.0

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=====

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1.180 inf 0.9.1

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1.181 rrdtool 1.7.0

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Pablo Sanchez <pablo at blueoakdb.com> (CDEF vs VDEF)
Patrick Cherry <patrick with bytemark.co.uk>
Paul Joslin <Paul.Joslin with sdr.com>
Peter Speck <speck with vitality.dk> eps/svg/pdf file format code in rrdtool-1.x
Peter Stamfest <peter with stamfest.at> initial multi-thread support
Peter Breitenlohner <peb with mppmu.mpg.de> many patches for rrdtool 1.2.x
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Poul-Henning Kamp <phk with freebsd.org> CDEF enhancements
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Travis Brown <tebrown with csh.rit.edu>
Tuc <ttsg with ttsg.com>
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1.182 pcre 8.43

1.182.1 Available under license :

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1.183 glib 2.40.0

1.184 xz 5.1.3

1.184.1 Available under license :

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1.186 pango 1.36.6

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1.187 luajit 2.0.5

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1.188 tar 1.27.1

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1.191 **streadway-amqp 0.0.0 - edfb9018d2714e4ec54dbaba37dbfef2**

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1.193 linux-kernel 5.4.70

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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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1.199 vmihailenco-msgpack 4.0.4

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1.202 go-yaml 2.2.7

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1.203 json-c 0.99.8

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1.204 popt 1.16

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1.205 perl 5.20.0

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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\nModule-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>
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version: 3

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

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

Copyright (C) 19yy <name of author>

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

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

That's all there is to it!

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c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=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-compilation" );
```

```
}
```

```
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';
```

```
}
```

```
# Otherwise simply check that the two copyright dates match each other:
```

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

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

```

1.206 x-text 0.0.0 -

81608d7e9c6863c922f599e4ff1329a6

1.206.1 Available under license :

```

# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

```

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