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```

```
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1.3 humanity-icon-theme 0.6.15

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1.4 hicolor-icon-theme 0.17-2

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```
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```
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1.5 libjpeg 8c-2ubuntu8

1.5.1 Available under license :

Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: libjpeg8-empty

Files: *

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1.6 libidn 1.33-2.2ubuntu2

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include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
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src/heapsort.c
src/merge.c
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man/fmtcheck.3bsd

man/humanize_number.3bsd

man/stringlist.3bsd

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man/readpassphrase.3bsd
man/strncpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_linux.h
src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/arc4random_win.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c
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src/hash/md5.c

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1.12 libxau 1.0.9-0ubuntu1

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1.16 **bsd-mailx 8.1.2-0.20180807cvs-1**

1.16.1 Available under license :

Mail Command Description

t [message list] type message(s).
more [message list] read message(s), through the \$PAGER
n goto and type next message.
e [message list] edit message(s).
f [message list] give head lines of messages.

d [message list] delete message(s).
s [message list] <file> append message(s) to file.
u [message list] undelete message(s).
R [message list] reply to message sender(s).
r [message list] reply to message sender(s) and all recipients.
p [message list] print message list.
pre [message list] make messages go back to /var/mail.
m <recipient list> mail to specific recipient(s).
q quit, saving unresolved messages in mbox.
x quit, do not remove system mailbox.
h print out active message headers.
! shell escape.
| [msglist] command pipe message(s) to shell command.
pi [msglist] command pipe message(s) to shell command.
cd [directory] chdir to directory or home if none given
fi
<file> switch to file (%=system inbox, %user=user's
system inbox). + searches in your folder
directory for the file.
set variable[=value] set Mail variable.

A [message list] consists of integers, ranges of same, :status, /subject, or user names separated by spaces. If omitted, Mail uses the current message. The pipe command doesn't accept user names or subject message list, since that might conflict with the command string.

A <recipient list> consists of recipient addresses or aliases separated by spaces. Aliases are defined in .mailrc in your home directory.

<file> is a full or relative pathname, +folder, % (system inbox), %user (specified user's system inbox), # (previous file), & (mbox file), or an expression understood by \${SHELL:-/bin/sh} -c 'echo ...'.

```

.\" $OpenBSD: mail3.nr,v 1.4 2004/06/04 00:04:54 jmc Exp $
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.\"
.\" @(#)mail3.nr 8.1 (Berkeley) 6/8/93

.\"
.sh 1 "Maintaining folders"

.pp

.i Mail

includes a simple facility for maintaining groups of messages together
in folders. This section describes this facility.

.pp

To use the folder facility, you must tell

.i Mail

where you wish to keep your folders. Each folder of messages
will

be a single file. For convenience, all of your folders are kept in
a single directory of your choosing. To tell

.i Mail

where your folder directory is, put a line of the form

.(l

set folder=letters

.)l

in your

.i .mailrc

file. If, as in the example above, your folder directory does not
begin with a `/',

.i Mail

will assume that your folder directory is to be found starting from
your home directory. Thus, if your home directory is

.b /home/person

the above example told

.i Mail

to find your folder directory in

.b /home/person/letters .

.pp

Anywhere a file name is expected, you can use a folder name, preceded
with `+'. For example, to put a message into a folder with the

.b save
command, you can use:
.l
save +classwork
.l
to save the current message in the
.i classwork
folder. If the
.i classwork
folder does not yet exist, it will be created. Note that messages
which are saved with the
.b save
command are automatically removed from your system mailbox.

.pp
In order to make a
copy of a message in a folder without causing
that message to be removed from your system mailbox, use the
.b copy
command, which is identical in all other respects to the
.b save
command. For example,

.l
copy +classwork
.l
copies the current message into the
.i classwork
folder and leaves a copy in your system mailbox.

.pp
The
.b folder
command
can be used to direct
.i Mail
to the contents of a different folder.

For example,
.l
folder +classwork
.l
directs
.i Mail
to read the contents of the
.i classwork
folder. All of the commands that you can use on your system
mailbox are also applicable to folders, including

.b type ,
.b delete ,
and
.b reply .

To inquire which folder you are currently editing, use simply:

```
.(l
folder
.)l
.pp
```

To list your current set of folders, use the

```
.b folders
command.
```

```
.pp
To start
```

```
.i Mail
reading one of your folders, you can use the
```

```
.b \-f
option described in section 2. For example:
```

```
.(l
% Mail \-f +classwork
.)l
```

will cause

```
.i Mail
to read your
.i classwork
folder
```

without looking at your system mailbox.

```
# $OpenBSD: Makefile,v 1.11 2016/03/30 06:38:46 jmc Exp $
```

```
PROG= mail
```

```
SRCS= version.c aux.c cmd1.c cmd2.c cmd3.c cmdtab.c collect.c \
edit.c fio.c getname.c head.c v7.local.c lex.c list.c main.c names.c \
popen.c quit.c send.c strings.c temp.c tty.c vars.c
```

```
SFILES= mail.help mail.tildehelp
```

```
EFILES= mail.rc
```

```
LINKS= ${BINDIR}/mail ${BINDIR}/Mail ${BINDIR}/mail ${BINDIR}/mailx
```

distribution:

```
cd ${CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o root -g wheel \
-m 644 ${EFILES} ${DESTDIR}/etc
```

```
cd ${CURDIR}/misc; ${INSTALL} ${INSTALL_COPY} -o ${BINOWN} -g ${BINGRP} \
-m 444 ${SFILES} ${DESTDIR}/usr/share/misc
```

```
.include <bsd.prog.mk>
```

```
/* $OpenBSD: version.c,v 1.7 2009/10/27 23:59:40 deraadt Exp $ */
```

```
/* $NetBSD: version.c,v 1.4 1996/06/08 19:48:46 christos Exp $ */
```

```
/*
```

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*
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* SUCH DAMAGE.
*/

/*
* Just keep track of the date/sid of this version of Mail.
* Load this file first to get a "total" Mail version.
*/
const char version[] = "8.1.2 01/15/2001";
.\$OpenBSD: mail7.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
.\
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\" @(#)mail7.nr 8.1 (Berkeley) 6/8/93

\"

.sh 1 "Format of messages"

.pp

This section describes the format of messages.

Messages begin with a

.i from

line, which consists of the word

.q From

followed by a user name, followed by anything, followed by

a date in the format returned by the

.i ctime

library routine described

in section 3 of the Unix Programmer's

Manual. A possible

.i ctime

format date is:

.(l

Tue Dec 1 10:58:23 1981

.)l

The

.i ctime

date may be optionally followed by a single space and a

time zone indication, which

should be three capital letters, such as PDT.

.pp

Following the

.i from

line are zero or more

.i "header field"

lines.

Each header field line is of the form:

.(l

name: information

.)l

.i Name

can be anything, but only certain header fields are recognized as having any meaning. The recognized header fields are:

.i article-id ,
.i bcc ,
.i cc ,
.i from ,
.i reply-to ,
.i sender ,
.i subject ,
and
.i to .

Other header fields are also significant to other systems; see, for example, the current Arpanet message standard for much more information on this topic.

A header field can be continued onto following lines by making the first character on the following line a space or tab character.

.pp

If any headers are present, they must be followed by a blank line.

The part that follows

is called the

.i body

of the message, and must be ASCII text, not containing null characters.

Each line in the message body must be no longer than 512 characters and terminated with an ASCII newline character.

If binary data must be passed through the mail system, it is suggested that this data be encoded in a system which encodes six bits into a printable character (i.e.: uuencode).

For example, one could use the upper and lower case letters, the digits, and the characters comma and period to make up the 64 characters.

Then, one can send a 16-bit binary number

as three characters. These characters should be packed into lines, preferably lines about 70 characters long as long lines are transmitted more efficiently.

.pp

The message delivery system always adds a blank line to the end of each message. This blank line must not be deleted.

.pp

The UUCP message delivery system sometimes adds a blank line to the end of a message each time it is forwarded through a machine.

.pp

It should

be noted that some network transport protocols enforce limits to the lengths of messages.

.\ " \$OpenBSD: mail.1,v 1.79 2018/03/16 16:58:26 schwarze Exp \$

.\ "

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.\"
.\" @(#)mail.1 8.8 (Berkeley) 4/28/95
.\"
.Dd \$Mdocdate: March 16 2018 \$
.Dt MAIL 1
.Os
.Sh NAME
.Nm mail ,
.Nm mailx ,
.Nm Mail
.Nd send and receive mail
.Sh SYNOPSIS
.Nm mail
.Bk -words
.Op Fl dEInv
.Op Fl b Ar list
.Op Fl c Ar list
.Op Fl r Ar from-addr
.Op Fl s Ar subject
.Ar to-addr ...
.Ek
.Nm mail
.Op

FI dEIiNnv
 .FI f
 .Op Ar file
 .Nm mail
 .Op FI dEIiNnv
 .Op FI u Ar user
 .Sh DESCRIPTION
 .Nm mail
 is an intelligent mail processing system which has
 a command syntax reminiscent of
 .Xr ed 1
 with lines replaced by messages.
 .Pp
 The options are as follows:
 .Bl -tag -width Ds
 .It FI b Ar list
 Send blind carbon copies to
 .Ar list .
 .It FI c Ar list
 Send carbon copies to
 .Ar list
 of users.
 .Ar list
 should be a comma separated list of names.
 .It FI d
 Causes
 .Nm mail
 to output all sorts of information useful for debugging
 .Nm mail .
 .It FI E
 Don't send messages with an empty body.
 .It FI f
 Use an alternate mailbox.
 Defaults to the user's
 .Ar mbox
 if no
 .Ar file
 is specified.
 When quit,
 .Nm mail
 writes undeleted messages back to this
 .Ar file .
 .It FI I
 Forces
 .Nm mail
 to run in interactive mode, even when input is not a terminal.
 In particular, the special
 .Ic ~

command character, used when sending mail, is only available interactively.

.It Fl i

Ignore tty interrupt signals.

This is

particularly

useful when using

.Nm mail

on noisy phone lines.

.It Fl N

Inhibits initial display of message headers

when reading mail or editing a mail folder.

.It Fl n

Inhibits reading

.Pa /etc/mail.rc

upon startup.

.It Fl r Ar from-addr

Use

.Ar from-addr

as the from address in the message and envelope.

Overrides any

.Ar from

options in the startup files.

.It Fl s Ar subject

Specify subject on command line

(only the first argument after the

.Fl s

flag is used as a subject; be careful to quote subjects containing spaces).

.It Fl u Ar user

Equivalent to:

.Pp

.Dl \$ mail -f /var/mail/user

.Pp

except that locking is done.

.It Fl v

Verbose mode.

The details of

delivery are displayed on the user's terminal.

.El

.Ss Startup actions

At startup time,

.Nm mail

will execute commands in the system command file,

.Pa /etc/mail.rc ,

unless explicitly told not to by using the

.Fl n

option.

Next, the commands in the user's personal command file

.Pa ~/.mailrc
are executed.

.Nm mail
then examines its command line options
to determine whether the user
requested a new message to be sent or existing messages in a mailbox
to be examined.

.Ss Sending mail
To send a message to one or more people,
.Nm mail
can be invoked with arguments which are the names of people to
whom the mail will be sent.
You are then expected to type in
your message, followed
by a control-D

.Pq Sq ^D
at the beginning of a line.
The section below,
.Sx Replying to or originating mail ,
describes some features of
.Nm mail
available to help you compose your letter.

.Ss Reading mail
In normal usage,
.Nm mail
is given no arguments and checks your mail out of the
post office, then
prints out a one line header of each message found.
The current message is initially set to the first message (numbered 1)
and can be printed using the
.Ic print
command (which can be abbreviated
.Ic p) .
Moving among the messages is much like moving between lines in
.Xr ed 1 ;
you may use
.Ic +
and
.Ic -
to shift forwards and backwards, or simply enter a message
number to move
directly.

.Ss Disposing of mail
After examining a message you can
.Ic delete
.Pq Ic d
or
.Ic reply

.Pq Ic r

to it.

Deletion causes the

.Nm mail

program to forget about the message.

This is not irreversible; the message can be

.Ic undeleted

.Pq Ic u

by giving its number, or the

.Nm mail

session can be aborted by giving the

.Ic exit

.Pq Ic x

command.

Deleted messages, however, will usually disappear, never to be seen again.

.Ss Specifying messages

Commands such as

.Ic print

and

.Ic delete

can be given a list of message numbers as arguments to apply

to a number of messages at once.

Thus

.Ic delete 1 2

deletes messages 1 and 2, while

.Ic delete 1\|5

deletes messages 1 through 5.

.Pp

Messages may also be selected using one of the following categories:

.Pp

.Bl -tag -width Ds -offset indent -compact

.It *

all messages

.It \$

last message

.It :d

deleted messages

.It :n

new messages

.It :o

old messages

.It :r

read messages

.It :u

unread messages

.El

.Pp

Thus the command

.Ic top

,
which prints the first few lines of a message,
could be used in

.Ic top *

to print the first few lines of all messages.

.Ss Replying to or originating mail

You can use the

.Ic reply

command to

set up a response to a message, sending it back to the
person who it was from.

Text you then type in, up to an end-of-file,
defines the contents of the message.

While you are composing a message,

.Nm mail

treats lines beginning with the tilde

.Pq Sq ~

character specially.

For instance, typing

.Ic ~m

(alone on a line) will place a copy

of the current message into the response, right shifting it by a single
tab-stop (see the

.Va indentprefix

variable, below).

Other escapes will set up subject fields, add and delete recipients
to the message, and allow you to escape to an editor to revise the
message or to a shell to run some commands.

(These options

are given in the summary below.)

.Ss Ending a mail processing session

You can end a

.Nm mail

session with the

.Ic quit

.Pq Ic q

command.

Messages

which have been examined go to your

.Ar mbox

file unless they have been deleted, in which case they are discarded.

Unexamined messages go back to the post office (see the

.Fl f

option above).

.Ss Personal and system wide distribution lists

It is also possible to create personal distribution lists so that,

for instance, you can send mail to

.Dq Li cohorts
and have it go
to a group of people.
Such lists can be defined by placing a line like
.Pp
.Dl alias cohorts bill ozalp jkf mark kridle@ucbcory
.Pp
in the file
.Pa .mailrc
in your home directory.
The current list of such aliases can be displayed with the
.Ic alias
command in
.Nm mail .
System wide distribution lists can be created by editing
.Pa /etc/mail/aliases
(see
.Xr aliases 5) ;
these are kept in a different syntax.
In mail you send, personal aliases will be expanded in mail sent
to others so that they will be able to
.Ic reply
to the recipients.
System wide aliases
are not expanded when the mail is sent,
but any reply returned to
the machine will have the system wide
alias expanded as all mail goes through an MTA.
.Ss Recipient address specifications
Recipient addresses (any of the
.Dq To ,
.Dq Cc
or
.Dq Bcc
header fields) are subject to expansion when the
.Ic expandaddr
option is set.
.Pp
An address may be expanded as follows:
.Bl -bullet -width Ds
.It
An address that starts with a pipe
.Pq Ql |
character is treated as a command to run.
The command immediately following the
.Ql |
is executed with the message as its standard input.
.It

An address that starts with a

.Ql +

character is treated as a folder.

.It

An address that contains a

.Ql /

character but no

.Ql \&! ,

.Ql % ,

or

.Ql @

characters is also treated as a folder.

.It

If none of the above apply, the recipient is treated as a local or network mail address.

.El

.Pp

If the

.Ic expandaddr

option is not set (the default), no expansion is performed and the recipient is treated as a local or network mail address.

.Sh SUMMARY

(Adapted from the

.Dq Mail Reference

Manual .)

.Pp

Each command is typed on a line by itself, and may take arguments following the command word.

The command need not be typed in its

entirety \(\em the first command which matches the typed prefix is used.

For commands which take message lists as arguments, if no message list is given, then the next message forward which satisfies the command's requirements is used.

If there are no messages forward of

the current message, the search proceeds backwards, and if there are no good messages at all,

.Nm mail

types

.Dq \&No applicable messages

and

aborts the command.

.Bl -tag -width delete

.It Ic -

Print out the preceding message.

If given a numeric

argument

.Ar n ,

goes to the

.Ar n Ns th
previous message and prints it.

.It Ic \&=
Prints the currently selected message number.

.It Ic \&?
Prints a brief summary of commands.

.It Ic \&!
Executes the shell
(see
.Xr sh 1
and
.Xr csh 1)
command which follows.

.It Ic alias
.Pq Ic a
With no arguments, prints out all currently defined
aliases.
With one
argument, prints out that alias.
With more than one argument, creates
a new alias or changes an old one.

.It Ic alternates
.Pq Ic alt
The
.Ic alternates
command is useful if you have accounts on several machines.
It can be used to inform
.Nm mail
that the listed addresses are really you.
When you
.Ic reply
to messages,
.Nm mail
will not send a copy of the message to any of the addresses
listed on the
.Ic alternates
list.
If the
.Ic alternates
command is given with no argument, the current set of alternate
names is displayed.

.It Ic chdir
.Pf (Ic cd
or
.Ic ch)
Changes the user's working directory to that specified, if given.
If
no directory is given, then changes to the user's login directory.

.It Ic copy
.Pq Ic c
The
.Ic copy
command does the same thing that
.Ic save
does, except that it does not mark the messages it
is used on for deletion when you quit.

.It Ic delete
.Pq Ic d
Takes a list of messages as argument and marks them all as deleted.
Deleted messages will
not be saved in
.Ar mbox ,
nor will they be available for most other commands.

.It Ic dp
(also
.Ic dt)
Deletes the current message and prints the next message.
If there is no next message,
.Nm mail
says
.Dq Li "\&No more messages."

.It Ic edit
.Pq Ic e
Takes a list of messages and points the text editor at each one in
turn.
On return from the editor, the message is read back in.

.It Ic exit
.Pf (Ic ex
or
.Ic x)
Effects an immediate return to the shell without
modifying the user's system mailbox, his
.Ar mbox
file, or his edit file in
.Fl f .

.It Ic file
.Pq Ic fi
The same as
.Ic folder .
.It Ic folder
.Pq Ic fo
The
.Ic folder
command switches to a new mail file or folder.
With no
arguments, it tells you which file you are currently reading.

If you give it an argument, it will write out changes (such as deletions) you have made in the current file and read in the new file.

Some special conventions are recognized for the name.

means the previous file, % means your system mailbox,

%user means user's system mailbox, & means your

.Ar mbox

file, and

+folder means a file in your folder directory.

.It Ic folders

List the names of the folders in your folder directory.

.It Ic from

.Pq Ic f

Takes a list of messages and prints their message headers.

.It Ic headers

.Pq Ic h

Lists the current windowful of headers.

To view the next or previous group of headers, see the

.Ic z

command.

.It Ic help

A synonym for

.Ic \&? .

.It Ic hold

.Pf (Ic ho ,

also

.Ic preserve)

Takes a message list and marks each message therein to be saved in the user's system mailbox instead of in

.Ar mbox .

Does not override the

.Ic delete

command.

.It Ic ignore

Add the list of header fields named to the

.Ar ignored list .

Header fields in the ignore list are not printed on your terminal when you print a message.

This

command is very handy for suppression of certain machine-generated header fields.

The

.Ic Type

and

.Ic Print

commands can be used to print a message in its entirety, including ignored fields.

If

.Ic

ignore

is executed with no arguments, it lists the current set of ignored fields.

.It Ic inc

Incorporate any new messages that have arrived while mail is being read.

The new messages are added to the end of the message list, and the current message is reset to be the first new mail message.

This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.It Ic list

.Pq Ic l

List the valid

.Nm

commands.

.It Ic mail

.Pq Ic m

Takes as argument login names and distribution group names and sends mail to those people.

.It Ic mbox

Indicate that a list of messages be sent to

.Ar mbox

in your home directory when you quit.

This is the default

action for messages if you do

.Em not

have the

.Ic hold

option set.

.It Ic more

.Pq Ic \&mo

Takes a message list and invokes the pager on that list.

.It Ic next

.Pq Ic n

(like

.Ic +

or CR)

Goes to the next message in sequence and types it.

With an argument list, types the next matching message.

.It Ic preserve

.Pq

.Ic pre
A synonym for
.Ic hold .
.It Ic Print
.Pq Ic P
Like
.Ic print
but also prints out ignored header fields.
See also
.Ic print ,
.Ic ignore ,
and
.Ic retain .
.It Ic print
.Pq Ic p
Takes a message list and types out each message on the user's terminal.
.It Ic quit
.Pq Ic q
Terminates the session, saving all undeleted, unsaved messages in
the user's
.Ar mbox
file in his login directory, preserving all messages marked with
.Ic hold
or
.Ic preserve
or never referenced
in his system mailbox, and removing all other messages from his system
mailbox.
If new mail has arrived during the session, the message
.Dq Li "You have new mail"
is given.
If given while editing a
mailbox file with the
.Fl f
flag, then the edit file is rewritten.
A return to the shell is
effected, unless the rewrite of edit file fails, in which case the user
can escape with the
.Ic exit
command.
.It Ic Reply
.Pq Ic R
Reply to originator.
Does not reply to other
recipients of the original message.
.It Ic reply
.Pq

.Ic r

Takes a message list and sends mail to the sender and all recipients of the specified message.

The default message must not be deleted.

.It Ic respond

A synonym for

.Ic reply .

.It Ic retain

Add the list of header fields named to the

.Ar retained list .

Only the header fields in the retain list are shown on your terminal when you print a message.

All other header fields are suppressed.

The

.Ic Type

and

.Ic Print

commands can be used to print a message in its entirety.

If

.Ic retain

is executed with no arguments, it lists the current set of retained fields.

.It Ic save

.Pq Ic s

Takes a message list and a filename and appends each message in turn to the end of the file.

The filename in quotes, followed by the line count and character count is echoed on the user's terminal.

.It Ic saveignore

.Ic saveignore

is to

.Ic save

what

.Ic ignore

is to

.Ic print

and

.Ic type .

Header fields thus marked are filtered out when saving a message by

.Ic save

or when automatically saving to

.Ar

mbox .

.It Ic saveretain

.Ic saveretain

is to

.Ic save

what

.Ic retain

is to

.Ic print

and

.Ic type .

Header fields thus marked are the only ones saved

with a message when saving by

.Ic save

or when automatically saving to

.Ar mbox .

.Ic saveretain

overrides

.Ic saveignore .

.It Ic set

.Pq Ic se

With no arguments, prints all variable values.

Otherwise, sets

option.

Arguments are of the form

.Ar option=value

(no space before or after =) or

.Ar option .

Quotation marks may be placed around any part of the assignment statement to

quote blanks or tabs, i.e.,

.Ic set indentprefix="->" .

.It Ic shell

.Pq Ic sh

Invokes an interactive version of the shell.

.It Ic size

Takes a message list and prints out the size in characters of each message.

.It Ic source

The

.Ic source

command reads

commands from a file.

.It Ic top

Takes a message list and prints the top few lines of each.

The number of

lines printed is controlled by the variable

.Ic toplines

and defaults to five.

.It Ic Type

.Pq Ic T

Identical

to the

.Ic Print

command.
.It Ic type
.Pq Ic t
A synonym for
.Ic print .
.It Ic unalias
Takes a list of names defined by
.Ic alias
commands and discards the remembered groups of users.
The group names
no longer have any significance.
.It Ic undelete
.Pq Ic u
Takes a message list and marks each message as not being deleted.
.It Ic unread
.Pq Ic U
Takes a message list and marks each message as not having been read.
.It Ic unset
Takes a list of option names and discards their remembered values;
the inverse of
.Ic set .
.It Ic visual
.Pq Ic v
Takes a message list and invokes the display editor on each message.
.It Ic write
.Pq Ic w
Similar to
.Ic save ,
except that
.Ic only
the message body
(without the header)
is saved.
Extremely useful for such tasks as sending and receiving source
program text over the message system.
.It Ic xit
.Pq Ic x
A synonym for
.Ic exit .
.It Ic z
.Nm mail
presents message headers in windowfuls as described under the
.Ic headers
command.
You can move
.Nm mail
Ns 's
attention forward to the next window with the

.Ic z

command.

Also, you can move to the previous window by using

.Ic z- .

.El

.Ss Tilde/escapes

Here is a summary of the tilde escapes, which are used when composing messages to perform special functions.

Tilde escapes are only recognized at the beginning of lines.

The name

.Dq tilde escape

is somewhat of a misnomer since the actual escape character can be set by the option

.Ic escape .

.Pp

.Bl -tag -width Ds -compact

.It Ic ~b Ns Ar name ...

Add the given names to the list of carbon copy recipients but do not make the names visible in the Cc: line ("blind" carbon copy).

.Pp

.It Ic ~c Ns Ar name ...

Add the given names to the list of carbon copy recipients.

.Pp

.It Ic ~d

Read the file

.Pa dead.letter

from your home directory into the message.

.Pp

.It Ic ~e

Invoke the text editor on the message collected so far.

After the

editing session is finished, you may continue appending text to the message.

.Pp

.It Ic ~F Ns Ar messages

Identical

to

.Ic ~f ,

except all message headers are included.

.Pp

.It Ic ~f Ns Ar messages

Read the named messages into the message being sent.

If no messages are specified, read in the current message.

Message headers currently being ignored (by the

.Ic ignore

or

.Ic retain
command) are not included.

.Pp

.It Ic ~h
Edit the message header fields by typing each one in turn and allowing
the user to append text to the end or modify the field by using the
current terminal erase and kill characters.

.Pp

.It Ic ~M Ns Ar messages
Identical to

.Ic ~m ,
except all message headers are included.

.Pp

.It Ic ~m Ns Ar messages
Read the named messages into the message being sent, indented by a
tab or by the value of

.Va indentprefix .
If no messages are specified,
read the current message.
Message headers currently being ignored (by the

.Ic ignore
or
.Ic retain
command) are not included.

.Pp

.It Ic ~p
Print out the message collected so far, prefaced by the message header
fields.

.Pp

.It Ic ~q
Abort the message
being sent, copying the message to

.Pa dead.letter
in your home directory if

.Ic save
is set.

.Pp

.It Ic ~r Ns Ar filename
.It Ic ~< Ns Ar filename
Read the named file into the message.

.Pp

.It Ic ~s Ns Ar string
Cause the named string to become the current subject field.

.Pp

.It Ic ~t Ns Ar name ...
Add the given names to the direct recipient list.

.Pp

.It Ic ~v

Invoke an alternate editor (defined by the

`.Ev VISUAL`

option) on the

message collected so far.

Usually, the alternate editor will be a

screen editor.

After you quit the editor, you may resume appending

text to the end of your message.

`.Pp`

`.It Ic ~w Ns Ar filename`

Write the message onto the named file.

`.Pp`

`.It Ic ~x`

Abort the message being sent.

No message is copied to

`.Pa ~/dead.letter ,`

even if

`.Ic save`

is set.

`.Pp`

`.It Ic ~?`

Prints a brief summary of tilde escapes.

`.Pp`

`.It Ic ~! Ns Ar command`

Execute the indicated shell command, then return to the message.

`.Pp`

`.It Ic ~| Ns Ar command`

Pipe the message through the command

as a filter.

If the command gives

no output or terminates abnormally, retain the original text of the message.

The command

`.Xr fmt 1`

is often used as

`.Ic command`

to rejustify the message.

`.Pp`

`.It Ic ~: Ns Ar mail-command`

`.It Ic ~_ Ns Ar mail-command`

Execute the given mail command.

Not all commands, however, are allowed.

`.Pp`

`.It Ic ~~ Ns Ar string`

Insert the string of text in the message prefaced by a single ~.

If

you have changed the escape character, then you should double

that character in order to send it.

.Pp

.It Ic ~.

Simulate end of file on input.

.El

.Ss Mail options

A number of options can be set in the

.Pa .mailrc

file to alter the behavior of

.Nm ,

controlled via the

.Ic set

and

.Ic unset

commands.

Options may be either binary, in which case it is only significant to see whether they are set or not; or string, in which case the actual value is of interest.

The binary options include the following:

.Bl -tag -width append

.It Ar append

Causes messages saved in

.Ar mbox

to be appended

to the end rather than prepended.

This should always be set (perhaps in

.Pa /etc/mail.rc) .

.It Ar ask , asksub

Causes

.Nm mail

to prompt you for the subject of each message you send.

If

you respond with simply a newline, no subject field will be sent.

.It Ar askbcc

Causes you to be prompted for additional blind carbon copy recipients at the end of each message.

Responding with a newline indicates your satisfaction with the current list.

.It Ar askcc

Causes you to be prompted for additional carbon copy recipients at the end of each message.

Responding with a newline indicates your satisfaction with the current list.

.It Ar autoinc

Causes new mail to be automatically incorporated when it arrives.

Setting this is similar to issuing the

.Ic inc

command at each prompt, except that the current message is not reset when new mail arrives.

.It Ar autoprint
Causes the

.Ic delete
command to behave like

.Ic dp ;
thus, after deleting a message, the next one will be typed
automatically.

.It
Ar debug
Setting the binary option

.Ar debug
is the same as specifying

.Fl d
on the command line and causes

.Nm mail
to output all sorts of information useful for debugging

.Nm mail .

.It Ar dot
The binary option

.Ar dot
causes

.Nm mail
to interpret a period alone on a line as the terminator
of a message you are sending.

.It Ar expandaddr
Causes

.Nm mail
to expand message recipient addresses, as explained in the section
.Sx Recipient address specifications .

.It Ar from
Causes

.Nm mail
to use the specified sender address in the

.Dq From:
field of the message header.
A stripped down version of the address is also used in the message envelope.
If unset, the message will not include an explicit sender address and
a default value will be added by the MTA, typically

.Dq user@host .
This value can be overridden by specifying the

.Fl r
flag on the command line.

.It Ar hold
This option is used to hold messages in the system mailbox
by default.

.It Ar ignore
Causes interrupt signals from your

terminal to be ignored and echoed as
@'s.
.It Ar ignoreeof
An option related to
.Ar dot
is
.Ar ignoreeof
which makes
.Nm mail
refuse to accept a control-D as the end of a message.
.Ar ignoreeof
also applies to
.Nm mail
command mode.
.It Ar keep
Setting this option causes
.Nm
to truncate your system mailbox instead of deleting it
when it's empty.
.It Ar keepsave
Messages saved with the
.Ic save
command are not normally saved in
.Ar mbox
at quit time.
Use this option to retain those messages.
.It Ar metoo
Usually, when a group is expanded that contains the sender, the sender
is removed from the expansion.
Setting this option causes the sender
to be included in the group.
.It Ar noheader
Setting the option
.Ar noheader
is the same as giving the
.FI N
flag on the command line.
.It Ar nosave
Normally, when you abort a message with two interrupt characters
(usually control-C),
.Nm mail
copies the partial letter to the file
.Pa dead.letter
in your home directory.
Setting the binary option
.Ar
nosave
prevents this.

.It Ar quiet
Suppresses the printing of the version when first invoked.

.It Ar Replyall
Reverses the sense of

.Ic reply
and

.Ic Reply
commands.

.It Ar searchheaders
If this option is set, then a message-list specifier in the form

.Dq /x:y
will expand to all messages containing the substring

.Sq y
in the header
field

.Sq x .
The string search is case insensitive.

If
.Sq x
is omitted, it will default to the

.Dq Subject
header field.
The form

.Dq /to:y
is a special case, and will expand
to all messages containing the substring

.Sq y
in the

.Dq To ,
.Dq Cc
or
.Dq Bcc
header fields.

The check for
.Dq to
is case sensitive, so that

.Dq /To:y
can be used to limit the search for

.Sq y
to just the

.Dq To:
field.

.It Ar skipempty
Don't send messages with an empty body.

.It Ar verbose
Setting the option

.Ar verbose
is the same as using the

.Fl v
flag on the command line.

When

.Nm
runs in verbose mode,
the actual delivery of messages is displayed on the user's
terminal.

.El

.Ss
Option string values

.Bl -tag -width Va

.It Ev EDITOR
Pathname of the text editor to use in the

.Ic edit
command and

.Ic ~e
escape.

If not defined,

.Pa /usr/bin/ex
is used.

.It Ev LISTER
Pathname of the directory lister to use in the

.Ic folders
command.

Default is

.Pa /bin/ls .

.It Ev MBOX
The name of the

.Ar mbox
file.

It can be the name of a folder.

The default is

.Dq Li mbox
in the user's home directory.

.It Ev PAGER
Pathname of the program to use in the

.Ic more
command or when the

.Ar crt
variable is set.

The default paginator

.Xr more 1
is used if this option is not defined.

.It Ev SHELL
Pathname of the shell to use in the

.Ic !\&
command and the

.Ic ~!\&

escape.

A default shell is used if this option is not defined.

.It Ev VISUAL

Pathname of the text editor to use in the

.Ic visual

command and

.Ic ~v

escape.

If not defined,

.Pa /usr/bin/vi

is used.

.It Ar crt

The valued option

.Ar crt

is used as a threshold to determine how long a message must be before

.Ev PAGER

is used to

read it.

If

.Ar crt

is set without a value,

then the height of the terminal screen stored in the system

is used to compute the threshold (see

.Xr stty 1) .

.It Ar escape

If defined, the first character of this option gives the character to use in the place of ~ to denote escapes.

.It Ar folder

The name of the directory to use for storing folders of messages.

If this name begins with a

.Ql / ,

.Nm mail

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

.It Ar indentprefix

String used by the

.Ic ~m

tilde escape for indenting messages, in place of the normal tab character

.Pq Sq ^I .

Be sure to quote the value if it contains

spaces or tabs.

.It Ar record

If defined, gives the pathname of the file used to record all outgoing mail.

If not defined, then outgoing mail is not so saved.

.It Ar screen
Size of window of message headers for

.Ic z .
.It Ar sendmail
Pathname to an alternative mail delivery system.

.It Ar toplines
If defined,
gives the number of lines of a message to be printed out
with the

.Ic top
command; normally, the first five lines are printed.

.El

.Sh ENVIRONMENT

.Nm mail
utilizes the

.Ev HOME ,
.Ev LOGNAME ,
.Ev MAIL ,
.Ev MAILRC ,
and

.Ev USER
environment variables.

.Pp
If the

.Ev MAIL
environment variable is set, its value is used as the path to the
user's mail spool.

.Sh FILES

.Bl -tag -width /usr/share/misc/mail.*help -compact

.It Pa /var/mail/*
post office (unless overridden by the

.Ev MAIL
environment variable)

.It Pa ~/mbox
user's old mail

.It Pa ~/.mailrc
file giving initial mail commands; can be overridden by setting the

.Ev MAILRC
environment variable

.It Pa /tmp/R*
temporary files

.It Pa /usr/share/misc/mail.*help
help files

.It Pa /etc/mail.rc
system initialization file

.El

.Sh EXIT STATUS

.Ex -std mail

.Sh SEE ALSO

.Xr fmt 1 ,

.Xr lockspool 1 ,

.Xr vacation 1 ,

.Xr aliases 5 ,

.Xr mail.local 8 ,

.Xr newaliases 8 ,

.Xr sendmail 8 ,

.Xr smtpd 8

.Sh STANDARDS

The

.Nm mailx

utility

is compliant with the

.St -p1003.1-2008

specification.

.Pp

The flags

.Op Fl iNnu

are marked by

.St -p1003.1-2008

as being optional.

.Pp

The flags

.Op Fl eFH

are marked by

.St -p1003.1-2008

as being optional,

and are not supported by this implementation of

.Nm mailx .

.Pp

The flags

.Op Fl bcdEIrV

are extensions to the specification.

.Sh HISTORY

A

.Nm mail

command appeared in

.At v3 .

This man page is derived from the

.%T "Mail Reference Manual"

originally written by Kurt Shoens.

.Sh BUGS

Usually,

.Nm mail

and

.Nm mailx

are just links to

.Nm Mail ,
which can be confusing.

The following ~ escapes are defined:
~b name ... Add names to "blind" Cc: list.
~c name ... Add names to Cc: field.
~d Read dead.letter into message.
~e Invoke text editor on partial message.
~F messages Same as ~f, but includes all headers.
~f messages Read in messages.
~h Edit the header fields.
~M messages Same as ~m, but includes all headers.
~m messages Read in messages, right shifted by a tab.
~p Print (show) the message buffer.
~q Abort message; optionally save copy to ~/dead.letter.
~r file | ~< file Read a file into the message buffer.
~s string Set Subject: field to string.
~t name ... Add names to To: field.
~v Invoke display editor on message.
~w filename Write message to file.
~x Abort message; no copy is saved.
~? Print a brief summary of tilde escapes.
~!command Execute shell command.
~|command Pipe message through command.
~:command | ~_command Execute a Mail command.
~~string Quote
a single tilde.
~. Simulate end of file on input.

.\" \$OpenBSD: mail1.nr,v 1.4 2004/06/04 00:04:54 jmc Exp \$
.\"
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LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

.

@(#)mail1.nr 8.1 (Berkeley) 6/8/93

.

.sh 1 Introduction

.pp

.i Mail

provides a simple and friendly environment for sending and receiving mail.

It divides incoming mail into

its constituent messages and allows the user to deal with them

in any order. In addition, it provides a set of

edited -c

like commands for manipulating

messages and sending mail.

.i Mail

offers the user simple editing capabilities to ease the composition

of outgoing messages, as well as providing the ability to define and send

to names which address groups of users. Finally,

.i Mail

is able to send and receive messages across such networks as the

ARPANET, UUCP, and Berkeley network.

.pp

This document describes how to use the

.i Mail

program to send and receive messages. The reader is not assumed to

be familiar with other message handling systems, but should be

familiar with the `\s-2UNIX\`

.(f

`\s-1UNIX` is a trademark of Bell Laboratories.

.)f

shell, the text editor, and some of the common `\s-2UNIX` commands.

.q "The `\s-2UNIX` Programmer's Manual,"

.q "An Introduction to Csh,"

and

.q "Text Editing with Ex and Vi"

can be consulted for more information on these topics.

.pp

A word of explanation is in order here concerning the name

.i Mail :

the original UNIX mail program was known as

```
.i /bin/mail .
```

The BSD mail

program was called

```
.i Mail
```

to differentiate it from the older mail program.

```
.i /bin/mail
```

is not included in OpenBSD so there is no ambiguity and the BSD

mail program is installed as

```
.i /usr/bin/mail ;
```

```
.i /usr/bin/Mail
```

is simply a link for backwards compatibility.

To further confuse the issue, a second link was retained for

compatibility with SystemV systems,

```
.i mailx .
```

In this document, we use the original name, `Mail`,

to refer to any of these.

```
.pp
```

Here is how messages are handled:

the mail system accepts incoming

```
.i messages
```

for you from other people

and collects them in a file, called your

```
.i "system mailbox" .
```

When you log in, the system notifies you if there are any messages waiting in your system mailbox. If you are a

```
.i csh
```

user, you will be notified when new mail arrives if you inform

the shell of the location of your mailbox. On OpenBSD,

your system mailbox is located in the directory /var/mail

in a file with your login name. If your login name is

```
.q sam,
```

then you can make

```
.i
```

```
csh
```

notify you of new mail by including the following line in your .cshrc

file:

```
.(l
```

```
set mail=/var/mail/sam
```

```
.)l
```

When you read your mail using

```
.i Mail ,
```

it reads your system mailbox and separates that file into the

individual messages that have been sent to you. You can then

read, reply to, delete, or save these messages.

Each message is marked with its author and the date they sent it.

```
.\" $OpenBSD: mail2.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
```

```
.\"
```

```

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.\" SUCH DAMAGE.
.\"
.\" @(#)mail2.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Common usage"
.pp
The
.i Mail
command has two distinct usages, according to whether one
wants to send or receive mail. Sending mail is simple: to send a
message to a user whose login name is, say,
\*(lqroot,\*(rq
use the shell
command:
.(l
% Mail root
.)l
then type your
message. When you reach the end of the message, type
an EOT (Control-D) at the beginning of a line, which will cause
.i Mail
to echo \*(lqEOT\*(rq and return you to the Shell. When the user you sent mail

```

to next logs in, he will receive the message:

```
.(l
```

```
You have mail.
```

```
.)l
```

to alert him to the existence of your message.

```
.pp
```

If, while you are composing the message

you decide that you do not wish to send it after all, you can

abort the letter with a <Control-C>. Typing a single <Control-C>

causes

```
.i Mail
```

```
to print
```

```
.(l
```

```
(Interrupt -- one more to kill letter)
```

```
.)l
```

Typing a second

<Control-C> causes

```
.i Mail
```

```
to save your partial letter on the file
```

```
.q dead.letter
```

```
in your home directory and abort the letter.
```

Once you have

sent mail to someone, there is no way to undo the act, so be

careful.

```
.pp
```

The message your recipient reads will consist of the message you

typed, preceded by a line telling who sent the message (your login name)

and the date and time it

was sent.

```
.pp
```

If you want to send the

same message to several other people, you can list

their login names on the command line.

Thus,

```
.(l
```

```
% Mail sam bob john
```

```
Tuition fees are due next Friday. Don't forget!!
```

```
<Control-D>
```

```
EOT
```

```
%
```

```
.)l
```

will send the reminder to sam, bob, and john.

```
.pp
```

If, when you log in, you see the message,

```
.(l
```

```
You have mail.
```

```
.)l
```

you can read the mail by typing simply:

.(l
% Mail
.)l
.i Mail
will respond by typing its version number and date and then listing
the messages you have waiting. Then it will type a prompt and await
your command. The messages are assigned numbers starting with 1 *- you
refer to the messages with these numbers.

.i Mail
keeps track of which messages are
.i new
(have been sent since you last read your mail) and
.i read
(have been read by you). New messages have an
.b N
next to them in the header listing and old, but unread messages have
a
.b U
next to them.

.i Mail
keeps track of new/old and read/unread messages by putting a
header field called

.q Status
into your messages.

.pp
To look
at a specific message, use the
.b type
command, which may be abbreviated to simply
.b t .

For example, if you had the following messages:

```
.(l  
N 1 root   Wed Sep 21 09:21 "Tuition fees"  
N 2 sam    Tue Sep 20 22:55  
.)l
```

you could examine the first message by giving the command:

```
.(l  
type 1  
.)l
```

which might cause

.i Mail
to respond with, for example:

```
.(l  
Message 1:  
From root Wed Sep 21 09:21:45 1978  
Subject: Tuition fees  
Status: R
```

Tuition fees are due next Wednesday. Don't forget!!

.)l

Many

.i Mail

commands that operate on messages take a message number as an argument like the

.b type

command. For these commands, there is a notion of a current message. When you enter the

.i Mail

program, the current message is initially the first one. Thus, you can often omit the message number and use, for example,

.(l

t

.)l

to type the current message. As a further shorthand, you can type a message by simply giving its message number. Hence,

.(l

1

.)l

would type the first message.

.pp

Frequently,

it is useful to read the messages in your mailbox in order, one after another. You can read the next message in

.i Mail

by simply typing a newline. As a special case, you can type a newline as your first command to

.i Mail

to type the first message.

.pp

If, after reading a message, you wish to immediately send a reply, you can do so with the

.b reply

command.

.b Reply ,

like

.b type ,

takes a message number as an argument.

.i Mail

then begins a message addressed to the user who sent you the message.

You may then type in your letter in reply, followed by a <Control-D>

at the beginning of a line, as before.

.i Mail

will type EOT, then type the ampersand prompt to indicate its readiness to accept another command. In our example, if, after typing the first message, you wished to reply to it, you might give the command:

.(l
reply
.l
.i Mail
responds by typing:
.l
To: root
Subject: Re: Tuition fees
.l
and waiting for you to enter your letter.
You are now in the message collection
mode described at the beginning
of this section and
.i Mail
will gather up your message up to a <Control-D>.
Note that it copies the subject
header from the original message. This is useful in that correspondence
about a particular matter will tend to retain the same subject heading,
making it easy to recognize. If there are other header fields in
the message, the information found will also be used.
For example, if the letter had a
.q "To:"
header listing several recipients,
.i Mail
would arrange to send your reply to the same people as well.
Similarly, if the original message contained a
.q "Cc:"
(carbon copies to) field,
.i Mail
would send your reply to
.i those
users, too.
.i Mail
is careful, though, not to send the message to
.i you ,
even if you appear in the
.q "To:"
or
.q "Cc:"
field, unless you ask to be included explicitly. See section 4 for more
details.
.pp
After typing in your letter, the dialog with
.i Mail
might look like the following:
.l
reply
To: root

Subject:
Tuition fees

Thanks for the reminder

EOT

&

.)l

.pp

The

.b reply

command is especially useful for sustaining extended conversations
over the message system, with other

.q listening

users receiving copies of the conversation. The

.b reply

command can be abbreviated to

.b r .

.pp

Sometimes you will receive a message that has been sent to
several people and wish to reply

.i only

to the person who sent it.

.b Reply

with a capital

.b R

replies to a message, but sends a copy to the sender only.

.pp

If you wish, while reading your mail, to send a message to someone,
but not as a reply to one of your messages, you can send the message
directly with the

.b mail

command, which takes as arguments the names of the recipients you wish
to send to. For example, to send a message to

.q frank,

you would do:

.(l

mail frank

This is to confirm our meeting next Friday at 4.

EOT

&

.)l

The

.b mail

command can be abbreviated to

.b m .

.pp

Normally, each message you receive is saved in the file

.i mbox

in
your login directory at the time you leave
.i Mail .
Often,
however, you will not want to save a particular message you
have received because it is only of passing interest. To avoid
saving a message in
.i mbox
you can delete it using the
.b delete
command. In our example,
.l
delete 1
.l
will prevent
.i Mail
from saving message 1 (from root) in
.i mbox .
In addition to not saving deleted messages,
.i Mail
will not let
you type them, either. The effect is to make the message disappear
altogether, along with its number. The
.b delete
command can be abbreviated to simply
.b d .
.pp
Many features of
.i Mail
can be tailored to your liking with the
.b set
command. The
.b set
command has two forms, depending on whether you are setting
a
.i binary
option or a
.i valued
option.
Binary options are either on or off. For example, the
.q ask
option informs
.i Mail
that each time you send a message, you want it to prompt you for
a subject header, to be included in the message.
To set the
.q

ask
option, you would type
.l
set ask
.l
.pp
Another useful
.i Mail
option is
.q hold.
Unless told otherwise,
.i Mail
moves the messages from your system mailbox to the file
.i mbox
in your home directory when you leave
.i Mail .
If you want
.i Mail
to keep your letters in the system mailbox instead, you can set the
.q hold
option.
.pp
Valued options are values which
.i Mail
uses to adapt to your tastes. For example, the
.q SHELL
option tells
.i Mail
which shell you like to use, and is specified by
.l
set SHELL=/bin/csh
.l
for example. Note that no spaces are allowed in
.q "SHELL=/bin/csh."
A complete list of the
.i Mail
options appears in section 5.
.pp
Another important valued option is
.q crt.
If you use a fast video terminal, you will find that when you
print long messages, they fly by too quickly for you to read them.
With the
.q crt
option, you can make
.i Mail
print any message larger than a given number of lines by sending
it through a paging program. This program is specified

by the
valued option \fBPAGER\fP.
If \fBPAGER\fP is not set, a default paginator is used.
For example, most CRT users with 24-line screens should do:

```
.(l  
set crt=24  
.)l
```

to paginate messages that will not fit on their screens.
In the default state, \fImore\fP (default paginator) prints a screenful of
information, then types ``byte XXX", where `XXX' represents the number
of bytes paginated.

Type a space to see the next screenful.

```
.pp  
Another adaptation to user needs that  
.i Mail
```

provides is that of
.i aliases .

An alias is simply a name which stands for one or more
real user names.

```
.i Mail  
sent to an alias is really sent to the list of real users  
associated with it. For example, an alias can be defined for the  
members of a project, so that you can send mail to the whole project  
by sending mail to just a single name. The
```

```
.b alias  
command in
```

```
.i Mail  
defines an alias. Suppose that the users in a project are  
named Sam, Sally, Steve, and Susan. To define an alias called
```

```
.q project  
for  
them, you would use the
```

```
.i Mail  
command:
```

```
.(l  
alias project sam sally steve susan  
.)l
```

The
.b alias
command can also be used to provide a convenient name for someone
whose user name is inconvenient. For example, if a user named

```
.q "Bob Anderson"  
had the login name  
.q anderson,"  
you might want to use:
```

```
.(l  
alias bob anderson  
.)l
```

so that you could send mail to the shorter name,

```
.q bob.
```

```
.pp
```

While the

```
.b alias
```

```
and
```

```
.b set
```

commands allow you to customize

```
.i Mail ,
```

they have the drawback that they must be retyped each time you enter

```
.i Mail .
```

To make them more convenient to use,

```
.i Mail
```

always looks for two files when it is invoked. It first reads

a system wide file

```
.q /etc/mail.rc,
```

then a user specific file,

```
.q .mailrc,
```

which is found in the user's home directory.

The system wide file

is maintained by the system administrator and

contains

```
.b set
```

commands that are applicable to all users of the system.

The

```
.q .mailrc
```

file is usually used by each user to set options the way he likes

and define

individual aliases.

For example, my .mailrc file looks like this:

```
.(l
```

```
set ask nosave SHELL=/bin/csh
```

```
.)l
```

As you can see, it is possible to set many options in the

same

```
.b set
```

command. The

```
.q nosave
```

option is described in section 5.

```
.pp
```

Mail aliasing is implemented

at the system-wide level

by the mail delivery

system

```
.i sendmail .
```

These aliases are stored in the file /etc/mail/aliases and are

accessible to all users of the system.

The lines in /etc/mail/aliases are of

the form:

```
.(l  
alias: name\*<1\*>, name\*<2\*>, name\*<3\*>  
.)
```

where

```
.i alias
```

is the mailing list name and the

```
.i name\*<i\*>
```

are the members of the list. Long lists can be continued onto the next line by starting the next line with a space or tab. Remember that you must execute the command

```
.i newaliases
```

(as superuser)

after editing /etc/mail/aliases since the delivery system

uses an indexed file created by

```
.i newaliases .
```

```
.pp
```

We have seen that

```
.i Mail
```

can be invoked with command line arguments which are people to send

the message to, or with no arguments to read mail.

Specifying the

```
.rb -f
```

flag on the command line causes

```
.i Mail
```

to read messages from a file other than your system mailbox.

For example, if you have a collection of messages in

the file

```
.q letters
```

you can use

```
.i Mail
```

to read them with:

```
.(l
```

```
% Mail -f letters
```

```
.)
```

You can use all

the

```
.i Mail
```

commands described in this document to examine, modify, or delete messages from your

```
.q letters
```

file, which will be rewritten when you leave

```
.i Mail
```

with the

```
.b quit
```

command described below.

```
.pp
```

Since mail that you read is saved in the file

```
.i mbox
```

in your home directory by default, you can read

```
.i mbox
```

in your home directory by using simply

```
.(l
```

```
% Mail -f
```

```
.)l
```

```
.pp
```

Normally, messages that you examine using the

```
.b type
```

command are saved in the file

```
.q mbox
```

in your home directory if you leave

```
.i Mail
```

with the

```
.b quit
```

command described below.

If you wish to retain a message in your system mailbox

you can use the

```
.b preserve
```

command to tell

```
.i Mail
```

to leave

it there.

The

```
.b preserve
```

command accepts a list of message numbers, just like

```
.b type
```

and may be abbreviated to

```
.b pre .
```

```
.pp
```

Messages in your system mailbox that you do not examine are normally retained in your system mailbox automatically.

If you wish to have such a message saved in

```
.i mbox
```

without reading it, you may use the

```
.b mbox
```

command to have them so saved. For example,

```
.(l
```

```
mbox 2
```

```
.)l
```

in our example would cause the second message (from sam)

to be saved in

```
.i mbox
```

when the

```
.b quit
```

command is executed.

.b Mbox

is also the way to direct messages to your

.i mbox

file if you have set the

.q hold

option described above.

.b Mbox

can be abbreviated to

.b mb .

.pp

When you have perused all the messages of interest, you can leave

.i Mail

with the

.b quit

command, which saves the messages you have typed but not

deleted in the file

.i mbox

in your login directory. Deleted messages are discarded irretrievably,

and messages left untouched are preserved in your system mailbox so

that you

will see them the next time you type:

.(l

% Mail

.)l

The

.b quit

command can be abbreviated to simply

.b q .

.pp

If you wish for some reason to leave

.i Mail

quickly without altering either your system mailbox or

.i mbox ,

you can type the

.b x

command (short for

.b exit),

which will immediately return you to the Shell without changing anything.

.pp

If, instead, you want to execute a Shell command without leaving

.i Mail ,

you

can type the command preceded by an exclamation point, just as in the

text editor. Thus, for instance:

.(l

!date

.)l

will print the current date without leaving

```

.i Mail .
.pp
Finally, the
.b help
command is available to print out a brief summary of the
.i Mail
commands, using only the single character command abbreviations.
.\" $OpenBSD: mail9.nr,v 1.8 2009/07/29 18:15:38 martynas Exp $
.\"
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.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\" @(#)mail9.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Summary of commands, options, and escapes"
.pp
This section gives a quick summary of the
.i Mail
commands, binary and valued options, and tilde escapes.
.pp
The following table describes the commands:
.TS
center ;

```

c ci

lb l.

Command Description

–

+ Same as \fBnext\fP

- Back

up to previous message

? Print brief summary of \fIMail\fP commands

! Single command escape to shell

Print Type message with ignored fields

Reply Reply to author of message only

Respond Same as \fBReply\fP

Type Type message with ignored fields

alias Define an alias as a set of user names

alternates List other names you are known by

chdir Change working directory, home by default

copy Copy a message to a file or folder

delete Delete a list of messages

dp Same as \fBdt\fP

dt Delete current message, type next message

edit Edit a list of messages

else Start of else part of conditional; see \fBif\fP

endif End of conditional statement; see \fBif\fP

exit Leave mail without changing anything

file Interrogate/change current mail file

folder Same as \fBfile\fP

folders List the folders in your folder directory

from List headers of a list of messages

headers List current window of messages

help Same as \fB?\fP

hold Same as \fBpreserve\fP

if Conditional execution of \fIMail\fP commands

ignore Set/examine

list of ignored header fields

inc Incorporate new messages

list List valid \fIMail\fP commands

mail Send mail to specified names

mbox Arrange to save a list of messages in \fImbox\fP

more Invoke pager on message list

next Go to next message and type it

preserve Arrange to leave list of messages in system mailbox

print Print messages

quit Leave \fIMail\fP; update system mailbox, \fImbox\fP as appropriate

reply Compose a reply to a message

respond Same as \fBreply\fP

retain Supersedes \fBignore\fP

save Append messages, headers included, on a file

saveignore List of headers to ignore when using the \fBsave\fP command

saveretain List of headers to retain when using the `\fBsave\fp` command
 set Set binary or valued options
 shell Invoke an interactive shell
 size Prints out size of message list
 source Read `\fImail\fp` commands from a file
 top Print first so many (5 by default) lines of list of messages
 type Same as `\fBprint\fp`
 unalias Remove alias
 undelete Undelete list of messages
 unread Marks
 list of messages as not been read
 unset Undo the operation of a `\fBset\fp`
 visual Invoke visual editor on a list of messages
 write Append messages to a file, don't include headers
 xit Same as `\fBexit\fp`
 z Scroll to next/previous screenful of headers

.TE

.(b

.pp

The following table describes the options. Each option is shown as being either a binary or valued option.

.TS

center;

c ci ci

l ci l.

Option Type Description

—

EDITOR valued Pathname of editor for `~e` and `\fBedit\fp`

LISTER valued Pathname of directory lister

MBOX valued Pathname of the `\fImbox\fp` file

PAGER valued Pathname of pager for `\fBPrint\fp`, `\fBprint\fp`, `\fBType\fp` and `\fBtype\fp`

SHELL valued Pathname of shell for `\fBshell\fp`, `~!` and `\fB!\fp`

VISUAL valued Pathname of screen editor for `~v`, `\fBvisual\fp`

append binary Always append messages to end of `\fImbox\fp`

ask binary Prompt user for Subject: field when sending

askbcc binary Prompt user for additional BCC's at end of message

askcc binary Prompt user for

 additional Cc's at end of message

autoinc binary Automatically incorporate new mail

autoprint binary Print next message after `\fBdelete\fp`

crt valued Minimum number of lines before using `\fBPAGER\fp`

debug binary Print out debugging information

dot binary Accept `.` alone on line to terminate message input

escape valued Escape character to be used instead of `\ ~`

folder valued Directory to store folders in

hold binary Hold messages in system mailbox by default

ignore binary Ignore `<Control-C>` while sending mail

ignoreeof binary Don't terminate letters/command input with `\fB^D\fp`

indentprefix valued String used for indenting messages
 keep binary Don't unlink system mailbox when empty
 keepsave binary Don't delete \fBsave\fPd messages by default
 metoo binary Include sending user in aliases
 noheader binary Suppress initial printing of version and headers
 nosave binary Don't save partial letter in \fIdead.letter\fP
 Replyall binary Reverses the sense of the \fB[Rr]eply\fP commands
 quiet binary Suppress
 printing of \fIMail\fP version/message numbers
 record valued File to save all outgoing mail in
 screen valued Size of window of message headers for \fBz\fP, etc.
 searchheaders binary Search string for message headers
 sendmail valued Choose alternate mail delivery system
 topline valued Number of lines to print in \fBtop\fP
 verbose binary Invoke sendmail with the \fB\-v\fP flag

.TE

.)b

.(b

.pp

The following table summarizes the tilde escapes available while sending mail.

.TS

center;

c ci ci

l li l.

Escape Arguments Description

—

~b name ...	Add names to "blind" Cc: list.
~c name ...	Add names to Cc: field.
~d	Read \fIdead.letter\fP into message.
~e	Invoke text editor on partial message.
~F messages	Same as ~f, but includes all headers.
~f messages	Read in messages.
~h	Edit the header fields.
~M messages	Same as ~m, but includes all headers.
~m messages	Read in messages, right shifted by a tab.
~p	Print (show) the message buffer.
~q	Abort message; optionally save copy to ~/dead.letter.
~r file ~< file	Read a file into the message buffer.
~s string	Set Subject: field to \fIstring\fP.
~t name ...	Add names to To: field.
~v	Invoke display editor on message.
~w filename	Write message to file.
~x	Abort message; no copy is saved.
~?	Print a brief summary of tilde escapes.
~!command	Execute shell command.
~ command	Pipe message through \fIcommand\fP.

~:command | ~_command Execute a \fIMail\fP command.

~~string Quote a single tilde.

~. Simulate end of file on input.

.TE

.)b

.(b

.pp

The following table shows the command line flags that

.i Mail

accepts:

.TS

center;

c c

l a.

Flag Description

–

\-b \fIlist\fP Send blind carbon
copies to \fIlist\fP.

\-c \fIlist\fP Send carbon copies to \fIlist\fP

\-d Turn on debugging

\-f [\fIname\fP] Show messages in \fIname\fP or \fI~/mbox\fP

\-I Force \fIMail\fP to run in interactive mode

\-i Ignore tty interrupt signals

\-N Suppress the initial printing of headers

\-n Inhibit reading of /etc/mail.rc

\-s \fIsubject\fP Use \fIsubject\fP as subject in outgoing mail

\-T \fIfile\fP Article-id's of read/deleted messages to \fIfile\fP

\-u \fIuser\fP Read \fIuser\fP's mail instead of your own

\-v Invoke sendmail with the \fB\-v\fP flag

.TE

.)b

.lp

Notes:

.b \-d

and

.b \-T

are not for human use.

.\n \$OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 jmc Exp \$\n

.\n

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.\"
.\" @(#)mail5.nr 8.2 (Berkeley) 5/16/94
.\"

.sh 1 "Additional features"

.pp

This section describes some additional commands useful for reading your mail, setting options, and handling lists of messages.

.sh 2 "Message lists"

.pp

Several

.i Mail

commands accept a list of messages as an argument.

Along with

.b type

and

.b

delete ,

described in section 2,

there is the

.b from

command, which prints the message headers associated with the message list passed to it.

The

.b from

command is particularly useful in conjunction with some of the message list features described below.

.pp

A

.i "message list"

consists of a list of message numbers, ranges, and names,

separated by spaces or tabs. Message numbers may be either decimal numbers, which directly specify messages, or one of the special characters

.q "^" ,

.q ".",

or

.q "\$"

to specify the first relevant, current, or last relevant message, respectively.

.i Relevant

here means, for most commands

.q "not deleted"

and

.q "deleted"

for the

.b undelete

command.

.pp

A range of messages consists of two message numbers (of the form described in the previous paragraph) separated by a dash.

Thus, to print the first four messages, use

.(l

type 1\4

.)l

and to print all the messages from the current message to the last message, use

.(l

type .\-\$

.)l

.pp

A

.i name

is

a user name. The user names given in the message list are collected together and each message selected by other means is checked to make sure it was sent by one of the named users.

If the message consists entirely of user names, then every message sent by one of those users that is

.i relevant

(in the sense described earlier)

is selected. Thus, to print every message sent to you by

.q root,

do

.(l

type root

.)l

.pp

As a shorthand notation, you can specify simply

```

.q *
to get every
.i relevant
(same sense)
message. Thus,
.(l
type *
.)l
prints all undeleted messages,
.(l
delete *
.)l
deletes all undeleted messages, and
.(l
undelete *
.)l
undeletes all deleted messages.

.pp
You can search for the presence of a word in subject lines with
.b / .
For example, to print the headers of all messages that contain the
word
.q PASCAL,
do:
.(l
from /pascal
.)l
Note that subject searching ignores upper/lower case differences.
.sh 2 "List of commands"

.pp
This section describes all the
.i Mail
commands
available when
receiving mail.
.ip "\fB\-\fP\ \"
The
.rb \-
command goes to the previous message and prints it. The
.rb \-
command may be given a decimal number
.i n
as an argument, in which case the
.i n th
previous message is gone to and printed.
.ip "\fB?\fP\ \"
Prints a brief summary of commands.
.ip "\fB!\fP\ \"

```

Used to preface a command to be executed by the shell.

```
.ip "\fBPrint\fP\ \"
```

Like

```
.b print ,
```

but also print out ignored header fields. See also

```
\fBprint\fP, \fBignore\fP, and \fBretain\fP.
```

`\fBPrint\fP` can be abbreviated to `\fBP\fP`.

```
.ip "\fBReply\fP or \fBRespond\fP\ \"
```

Note the capital `\fBR\fP` in the name.

Frame a reply to one or more messages.

The reply (or replies if you are using this on multiple messages)

will be sent **ONLY** to the person who sent you the message

(respectively, the set of people who sent the messages you are replying to).

You can

add people using the `\fB~t\fP`, `\fB~c\fP`, and `\fB~b\fP`

tilde escapes. The subject in your reply is formed by prefacing the

subject in the original message with

```
.q "Re:"
```

unless it already began thus.

If the original message included a

```
.q "reply-to"
```

header field, the reply will go

```
.i only
```

to the recipient named by

```
.q "reply-to."
```

You type in your message using the same conventions available to you through the

```
.b mail
```

command.

The

```
.b Reply
```

command is especially useful for replying to messages that were sent

to enormous distribution groups when you really just want to

send a message to the originator. Use it often.

`\fBReply\fP` (and `\fBRespond\fP`) can be abbreviated to `\fBR\fP`.

```
.ip "\fBType\fP\ \"
```

Identical to the

```
.b Print
```

command.

`\fBType\fP` can be abbreviated to `\fBT\fP`.

```
.ip "\fBalias\fP\ \"
```

Define a name to stand for a set of other names.

This is used when you want to send messages to a certain

group of people and want to avoid retyping their names.

For example

```
.(l
```

alias project john sue willie kathryn

.)l

creates an alias

.i project

which expands to the four people John, Sue, Willie, and Kathryn.

If

no arguments are given, all currently-defined aliases are printed.

If one argument is given, that alias is printed (if it exists).

\fBAlias\fP can be abbreviated to \fBa\fP.

.ip "\fBalternates\fP\ \ "

If you have accounts on several machines, you may find it convenient to use /etc/mail/aliases on all the machines except one to direct your mail to a single account.

The

.b alternates

command is used to inform

.i Mail

that each of these other addresses is really

.i you .

.i Alternates

takes a list of user names and remembers that they are all actually you.

When you

.b reply

to messages that were sent to one of these alternate names,

.i Mail

will not bother to send a copy of the message to this other address (which would simply be directed back to you by the alias mechanism).

If

.i alternates

is given no argument, it lists the current set of alternate names.

.b Alternates

is usually used in the .mailrc file.

\fBAlternates\fP can be abbreviated to \fBalt\fP.

.ip "\fBchdir\fP\ \ "

The

.b chdir

command

allows you to change your current directory.

.b Chdir

takes a single argument, which is taken to be the pathname of the directory to change to. If no argument is given,

.b chdir

changes to your home directory.

\fBChdir\fP can be abbreviated to \fBc\fP.

.ip "\fBcopy\fP\ \ "

The

.b copy

command does the same thing that

`.b save`
 does, except that it does not mark the messages it is used on
 for deletion when you quit.
`\fBCopy\fP` can be abbreviated to `\fBco\fP`.

`.ip "\fBdelete\fP\ \"`
 Deletes a list of messages. Deleted messages can be reclaimed
 with the

`.b undelete`
 command.
`\fBDelete\fP` can be abbreviated to `\fBd\fP`.

`.ip "\fBdp\fP or \fBdt\fP\ \"`
 These
 commands delete the current message and print the next message.
 They are useful for quickly reading and disposing of mail.
 If there is no next message, `\fIMail\fP` says ``No more messages.''

`.ip "\fBedit\fP\ \"`
 To edit individual messages using the text editor, the
`.b edit`
 command is provided. The
`.b edit`
 command takes a list
 of messages as described under the

`.b type`
 command and processes each by writing it into the file
`Message\c`

`.i x`
 where
`.i x`
 is the message number being edited and executing the text editor on it.
 When you have edited the message to your satisfaction, write the message
 out and quit, upon which

`.i Mail`
 will read the message back and remove the file.

`.b Edit`
 can be abbreviated to

`.b e .`
`.ip "\fBelse\fP\ \"`
 Marks the end of the then-part of an

`.b if`
 statement and the beginning of the
 part to take effect if the condition of the

`.b if`
 statement is false.

`.ip "\fBendif\fP\ \"`
 Marks the end of an

`.b if`
 statement.

`.ip "\fBexit\fP or \fBxit\fP\ \"`

Leave

.i Mail

without updating the system mailbox or the file you were reading.

Thus, if you accidentally delete several messages, you can use

.b exit

to avoid scrambling your mailbox.

\fBExit\fP can be abbreviated to \fBex\fP or \fBx\fP.

.ip "\fBfile\fP\ \"

The same as

.b folder .

\fBFile\fP can be abbreviated to \fBfi\fP.

.ip "\fBfolders\fP\ \"

List

the names of the folders in your folder directory.

.ip "\fBfolder\fP\ \"

The

.b folder

command switches to a new mail file or folder. With no arguments, it

tells you which file you are currently reading. If you give

it an argument, it will write out changes (such as deletions)

you have made in the current file and read the new file.

Some special conventions are recognized for the name:

.(b

.TS

center;

c c

l a.

Name Meaning

—

Previous file read

% Your system mailbox

%name \fIName\fP's system mailbox

& Your ~/mbox file

+folder A file in your folder directory

.TE

.)b

\fBFolder\fP can be abbreviated to \fBfo\fP.

.ip "\fBfrom\fP\ \"

The

.b from

command takes a list of messages and prints out the header lines for each one;

hence

.(l

from joe

.)l

is the easy way to display all the message headers from *(lqjoe.*(rq

\fBFrom\fP can be abbreviated to \fBf\fP.

.ip "\fBheaders\fP\ \"

When you start up
.i Mail
to read your mail, it lists the message headers that you have.
These headers
tell you who each message is from, when they were
received, how many lines and characters each message is, and the
.q "Subject:"
header field of each message, if present. In addition,
.i Mail
tags the message header of each message that has been the object
of the
.b preserve
command with a
.q P.
Messages that have been
.b saved
or
.b written
are flagged with a
.q *.
Finally,
.b deleted
messages are not printed at all. If you wish to reprint the current
list of message headers, you can do so with the
.b headers
command. The
.b headers
command (and thus the initial header listing)
only lists the first so many message headers.
The number of headers listed depends on the speed of your
terminal.
.i Mail
maintains a notion of the current
.q window
into your messages for the purposes of printing headers.
Use the
.b z
command to move forward a window,
and
.b z-
to move back a window.
You can move
.i Mail's
notion of the current window directly to a particular message by
using, for example,
.l
headers

40

.)l

to move

.i Mail's

attention to the messages around message 40.

\fBHeaders\fP can be abbreviated to \fBh\fP.

.ip "\fBhelp\fP\ \"

Print a brief and usually out of date help message about the commands

in

.i Mail .

The

.i man

page for

.i mail

is usually more up-to-date than either the help message or this manual.

It is also a synonym for \fB?\fP.

.ip "\fBhold\fP\ \"

Arrange to hold a list of messages in the system mailbox, instead

of moving them to the file

.i mbox

in your home directory. If you set the binary option

.i hold ,

this will happen by default.

It does not override the \fBdelete\fP command.

\fBHold\fP can be abbreviated to \fBho\fP.

.ip "\fBif\fP\ \"

Commands in your

.q .mailrc

file can be executed conditionally depending on whether you are

sending or receiving mail with the

.b if

command. For example, you can do:

```
.(l
if receive
\fIcommands\fP...
endif
.)l
```

An

.b else

form is also available:

```
.(l
if send
\fIcommands\fP...
else
\fIcommands\fP...
endif
.)l
```

Note

that the only allowed conditions are

.b receive

and

.b send .

.ip "\fBignore\fP \ \"

.b N.B.:

.i Ignore

has been superseded by

.i retain .

.br

Add the list of header fields named to the

.i "ignore list" .

Header fields in the ignore list are not printed on your terminal when you print a message. This allows you to suppress printing of certain machine-generated header fields, such as

.i Via

which are not usually of interest. The

.b Type

and

.b Print

commands can be used to print a message in its entirety, including ignored fields.

If

.b ignore

is executed with no arguments, it lists the current set of ignored fields.

.ip "\fBinc\fP \ \"

Incorporate any new messages that have arrived while mail is being read.

The new messages are added to the end of the message list,

and the current message is reset to be the first new mail message.

This does not renumber the existing message list, nor does it cause any changes made so far to be saved.

.ip "\fBlist\fP \ \"

List the valid

.i Mail

commands.

\fBList\fP

can be abbreviated to \fBI\fP.

.. .ip \fBlocal\fP

.. Define a list of local names for this host. This command is useful

.. when the host is known by more than one name. Names in the list

.. may be qualified by the domain of the host. The first name on the local

.. list is the

.. .i distinguished

.. name of the host.

.. The names on the local list are used by

.. .i Mail

.. to decide which addresses are local to the host.

.. For example:

```

.. .(l
.. local ucbarpa.BERKELEY.ARPA arpa.BERKELEY.ARPA \
.. arpavax.BERKELEY.ARPA r.BERKELEY.ARPA \
.. ucb-arpa.ARPA
.. .)l
.. From this list we see that
.. .i "fred@ucbarpa.BERKELEY.ARPA",
.. .i "harold@arpa.BERKELEY",
.. and
.. .i "larry@r"
.. are all addresses of users on the local host.
.. The
.. .b local
.. command is usually not used by general users since it is designed for
.. local configuration; it is usually found in the file /usr/lib/Mail.rc.
.iP "\fBmail\fP\ \"
Send mail to one or more people. If you have the
.i
ask
option set,
.i Mail
will prompt you for a subject to your message. Then you
can type in your message, using tilde escapes as described in
section 4 to edit, print, or modify your message. To signal your
satisfaction with the message and send it, type <Control-D> at the
beginning of a line, or a . alone on a line if you set the option
.i dot .
To abort the message, type two interrupt characters (Control-C
by default) in a row or use the
.b ~q
or
.b ~x
escapes.
The \fBmail\fP command can be abbreviated to \fBm\fP.
.iP "\fBmbox\fP\ \"
Indicate that a list of messages be sent to
.i mbox
in your home directory when you quit. This is the default
action for messages if you do
.i not
have the
.i hold
option set.
.iP "\fBmore\fP\ \"
Takes a message list and invokes the pager on that list.
.iP "\fBnext\fP or \fB+\fP\ \"
The
.b next

```

command goes to the next message and types it. If given a message list,

```
.b next
```

goes to the first such message and types it. Thus,

```
.(l
```

```
next root
```

```
.)l
```

```
goes
```

```
to the next message sent by
```

```
.q root
```

```
and types it. The
```

```
.b next
```

command can be abbreviated to simply a newline, which means that one can go to and type a message by simply giving its message number or one of the magic characters

```
.q "^"
```

```
.q "."
```

```
or
```

```
.q "$".
```

```
Thus,
```

```
.(l
```

```
\&.
```

```
.)l
```

```
prints the current message and
```

```
.(l
```

```
4
```

```
.)l
```

```
prints message 4, as described previously.
```

```
\fBNext\fP can be abbreviated to \fBn\fP.
```

```
.ip "\fBpreserve\fP\ \"
```

```
Same as
```

```
.b hold .
```

Cause a list of messages to be held in your system mailbox when you quit.

```
\fBPreserve\fP can be abbreviated to \fBpre\fP.
```

```
.ip "\fBprint\fP\ \"
```

```
Print the specified messages. If the
```

```
.b crt
```

variable is set, messages longer than the number of lines it indicates

are paged through the command specified by the \fBPAGER\fP variable.

```
The \fBprint\fP command can be abbreviated to \fBp\fP.
```

```
.ip "\fBquit\fP\ \"
```

Terminates the session, saving all undeleted, unsaved and unwritten messages

in the user's \fImbox\fP file in their login directory

(messages marked as having

been read), preserving all

messages marked with \fBhold\fP or \fBpreserve\fP or never referenced

in their system mailbox.

Any messages that were deleted, saved, written, or saved to \fImbox\fP are

removed from their system mailbox.

If new mail has arrived during the session, the message ``You have new mail" is given. If given while editing a mailbox file with the `\fB\fP` flag, then the edit file is rewritten.

A return to the Shell is effected, unless the rewrite of edit file fails, in which case the user can escape with the `\fBexit\fP` command.

`\fBQuit\fP` can be abbreviated to `\fBq\fP`.

`.ip "\fBreply\fP or \fBrespond\fP \ "`

Frame a reply to a single message.

The reply will be sent to the

person who sent you the message (to which you are replying), plus all the people who received the original message, except you. You can

add people using the `\fB~t\fP`, `\fB~c\fP`, and `\fB~b\fP`

tilde escapes. The subject in your reply is formed by prefacing the subject in the original message with

`.q`

`"Re:"`

unless it already began thus.

If the original message included a

`.q "reply-to"`

header field, the reply will go

`.i only`

to the recipient named by

`.q "reply-to."`

You type in your message using the same conventions available to you through the

`.b mail`

command.

The `\fBreply\fP` (and `\fBrespond\fP`) command can be abbreviated to `\fBr\fP`.

`.ip "\fBretain\fP \ "`

Add the list of header fields named to the `\fIretained list\fP`.

Only the header fields in the retain list

are shown on your terminal when you print a message.

All other header fields are suppressed.

The

`.b Type`

and

`.b Print`

commands can be used to print a message in its entirety.

If

`.b retain`

is executed with no arguments, it lists the current set of retained fields.

`.ip "\fBsave\fP \ "`

It is often useful to be able to save messages on related topics in a file. The

`.b save`

command gives you the ability to do this. The

`.b save`

command takes as an argument a list of message numbers, followed by the name of the file in which to save the messages. The messages are appended to the named file, thus allowing one to keep several messages in the file, stored in the order they were put there. The filename in quotes, followed by the line count and character count is echoed on the user's terminal.

An example of the

```
.b save
```

command relative to our running example is:

```
.(l
```

```
s 1 2 tuitionmail
```

```
.)l
```

```
.b Saved
```

messages are not automatically saved in

```
.i mbox
```

at quit time, nor are they selected by the

```
.b next
```

command described above, unless explicitly specified.

`\fBSave\fp` can be abbreviated to `\fBs\fp`.

```
.ip "\fBsaveignore\fp\ "
```

`\fBsaveignore\fp` is to `\fBsave\fp` what `\fBignore\fp` is to `\fBprint\fp` and `\fBtype\fp`.

Header fields thus marked are filtered out when saving a message by `\fBsave\fp` or when automatically saving to `\fImbox\fp`.

```
.ip "\fBsaveretain\fp\ "
```

`\fBsaveretain\fp` is to `\fBsave\fp` what `\fBretain\fp` is to `\fBprint\fp` and `\fBtype\fp`.

Header fields thus marked are the only ones saved with a message when saving by `\fBsave\fp`

or when automatically saving to `\fImbox\fp`.

`\fBsaveretain\fp` overrides `\fBsaveignore\fp`.

```
.ip "\fBset\fp\ "
```

Set an option or give an option a value. Used to customize

```
.i Mail .
```

Section 5.3 contains a list of the options. Options can be

```
.i binary ,
```

in which case they are

```
.i on
```

or

```
.i off ,
```

or

```
.i valued .
```

To set a binary option

```
.i option
```

```
.i on ,
```

```
do
```

```
.(l
```

set option

.)l

To give the valued option

.i option

the value

.i value ,

do

.(l

set option=value

.)l

There must be no space before or after the ``=' sign.

If no arguments are given, all variable values are printed.

Several options can be specified in a single

.b set

command.

\fBSet\fP can be abbreviated to \fBse\fP.

.ip "\fBshell\fP\ \ "

The

.b shell

command allows you to

escape to the shell.

.b Shell

invokes an interactive shell and allows you to type commands to it.

When you leave the shell, you will return to

.i Mail .

The shell used is a default assumed by

.i Mail ;

you can override this default by setting the valued option

.q

SHELL,

eg:

.(l

set SHELL=/bin/csh

.)l

\fBShell\fP can be abbreviated to \fBsh\fP.

.ip "\fBsize\fP\ \ "

Takes a message list and prints out the size in characters of each message.

.ip "\fBsource\fP\ \ "

The

.b source

command reads

.i mail

commands from a file. It is useful when you are trying to fix your

.q .mailrc

file and you need to re-read it.

\fBSource\fP can be abbreviated to \fBso\fP.

.ip "\fBtop\fP\ \ "

The

`.b top`

command takes a message list and prints the first five lines of each addressed message.

If you wish, you can change the number of lines that

`.b top`

prints out by setting the valued option

`.q "toplines."`

On a CRT terminal,

`.(l`

set `toplines=10`

`.)l`

might be preferred.

`\fBTop\fP` can be abbreviated to `\fBto\fP`.

`.ip "\fBtype\fP \ \"`

Same as `\fBprint\fP`.

Takes a message list and types out each message on the terminal.

The `\fBtype\fP` command can be abbreviated to `\fBt\fP`.

`.ip "\fBunalias\fP \ \"`

Takes a list of names defined by `\fBalias\fP` commands and discards the remembered groups of users.

The group names no longer have any significance.

`.ip "\fBundelete\fP \ \"`

Takes a message list and marks each message as `\fInot\fP` being deleted.

`\fBUndelete\fP` can be abbreviated to `\fBU\fP`.

`.ip "\fBunread\fP \ \"`

Takes a message list and marks each message as

`.i not`

having been read.

`\fBUnread\fP` can be abbreviated to `\fBU\fP`.

`.ip "\fBunset\fP \ \"`

Takes a list of option names and discards their remembered values; the inverse of `\fBset\fP`.

`.ip "\fBvisual\fP \ \"`

It is often useful to be able to invoke one of two editors, based on the type of terminal one is using. To invoke a display oriented editor, you can use the

`.b visual`

command. The operation of the

`.b visual`

command is otherwise identical to that of the

`.b edit`

command.

`.ne 2v+\n(psu`

`.sp \n(psu`

Both the

.b edit

and

.b visual

commands assume some default text editors.

The default for

.q EDITOR

is

.i /usr/bin/ex .

The default for

.q VISUAL

is

.i /usr/bin/vi .

These default editors can be overridden by the

valued options

.q EDITOR

and

.q VISUAL

for the standard and screen editors. You might want to do:

.(l

set EDITOR=/bin/ed VISUAL=/usr/bin/mg

.)l

\fBVisual\fP can be abbreviated to \fBv\fP.

.ip "\fBwrite\fP\ \"

The

.b save

command always writes the entire message, including the headers,

into the file. If you want to write just the message itself, you

can use the

.b write

command. The

.b write

command has the same syntax as the

.b save

command, and can be abbreviated to simply

.b w .

Thus, we could write the second message by doing:

.(l

w 2 file.c

.)l

As suggested by this example, the

.b write

command is useful for such tasks as sending and receiving

source program text over the message system.

The filename in quotes, followed by additional file information,

is echoed on the user's terminal.

.ip "\fBz\fP\ \"

.i Mail

presents message headers in windowfuls as described under

the

.b headers

command.

You can move

.i Mail's

attention forward to the next window by giving the

.(l

z+

.)l

command.

Analogously, you can move to the previous window with:

.(l

z\-

.)l

.sh 2 "Custom options"

.pp

Throughout this manual, we have seen examples of binary and valued options.

This section describes each of the options in alphabetical order, including some that you have not seen yet.

To avoid confusion, please note that the options are either all lower case letters or all upper case letters. When I start a sentence such as:

.q "Ask"

causes

.i Mail

to prompt you for a subject header,

I am only capitalizing

.q ask

as a courtesy to English.

.ip "\fBEDITOR\fP\ \"

The valued option

.q EDITOR

defines the pathname of the text editor to be used in the

.b edit

command and ~e escape.

If not defined,

.i /usr/bin/ex

is used.

.ip "\fBLISTER\fP\ \"

Pathname of the directory lister to use in the \fBfolders\fP command.

Default is \fI/bin/lis\fP.

.ip "\fBMBOX\fP\ \"

The name of the \fImbox\fP file.

It can be the name of a folder.

The default is ``mbox" in the user's home directory.

.ip "\fBPAGER\fP\

\ "

Pathname of the program to use for paginating output when

it exceeds `\fIcrt\fP` lines.

A default paginator is used if this option is not defined.

```
.ip "\fBSHELL\fP\ \"
```

The valued option

```
.q SHELL
```

gives the path name of your shell. This shell is used for the

```
.b !
```

command and `~!` escape. In addition, this shell expands

file names with shell metacharacters like `*` and `?` in them.

```
.ip "\fBVISUAL\fP\ \"
```

The valued option

```
.q VISUAL
```

defines the pathname of the screen editor to be used in the

```
.b visual
```

command

and `~v` escape.

If not defined,

```
.i /usr/bin/vi
```

is used.

```
.ip "\fBappend\fP\ \"
```

The

```
.q append
```

option is binary and

causes messages saved in

```
.i mbox
```

to be appended to the end rather than prepended.

Normally, `\fIMail\fP` will put messages in `\fImbox\fP`

in the same order that the system puts messages in your system mailbox.

By setting

```
.q append,
```

you are requesting that

```
.i mbox
```

be appended to regardless. It is in any event quicker to append.

```
.ip "\fBask\fP\ \"
```

```
.q "Ask"
```

is a binary option

which

causes

```
.i Mail
```

to prompt you for the subject of each message you send.

If you respond with simply a newline, no subject field will be sent.

```
.ip "\fBaskbcc\fP\ \"
```

```
.q Askbcc
```

is a binary option which

causes you to be prompted for additional blind carbon copy recipients at the

end of each message. Responding with a newline shows your

satisfaction with the current list.

```
.ip "\fBaskcc\fP\ \"
```

.q Askcc

is a binary option which

causes you to be prompted for additional carbon copy recipients at the end of each message. Responding with a newline shows your satisfaction with the current list.

.ip "\fBautoinc\fP\ \"

Causes new mail to be automatically incorporated when it arrives.

Setting this is similar to issuing the \fBinc\fP command at each prompt, except that the current message is not reset when new mail arrives.

.ip "\fBautoprint\fP\ \"

.q Autoprint

is a binary option which

causes the

.b delete

command to behave like

.b dp

*- thus, after deleting a message, the next one will be

typed

automatically. This is useful when quickly scanning and deleting messages in your mailbox.

.ip "\fBcrt\fP\ \"

The valued option

.I crt

is used as a threshold to determine how long a message must be before

.b PAGER

is used to read it.

.ip "\fBdebug\fP\ \"

The binary option

.q debug

causes debugging information to be displayed. Use of this option is the same as using the \fB-d\fP command line flag.

.ip "\fBdot\fP\ \"

.q Dot

is a binary option which, if set, causes

.i Mail

to interpret a period alone on a line as the terminator of the message you are sending.

.ip "\fBescape\fP\ \"

To allow you to change the escape character used when sending mail, you can set the valued option

.q escape.

Only the first character of the

.q escape

option is used, and it must be doubled if it is to appear as

the first character of a line of your message. If you change your escape

character, then ~ loses all its special meaning, and need no longer be doubled

at the beginning of a line.

.ip "\fBfolder\fP\
\
\"

The name of the directory to use for storing folders of messages.

If this name begins with a `/'

.i Mail

considers it to be an absolute pathname; otherwise, the folder directory is found relative to your home directory.

.ip "\fBhold\fP\ \"

The binary option

.q hold

causes messages that have been read but not manually dealt with to be held in the system mailbox. This prevents such messages from being automatically swept into your \fImbox\fP file.

.ip "\fBignore\fP\ \"

The binary option

.q ignore

causes <Control-C> characters from your terminal to be ignored and echoed as @'s while you are sending mail. <Control-C> characters retain their original meaning in

.i Mail

command mode.

Setting the

.q ignore

option is equivalent to supplying the

.b \-i

flag on the command line as described in section 6.

.ip "\fBignoreeof\fP\ \"

An option related to

.q dot

is

.q ignoreeof ,

which makes

.i Mail

refuse to accept a <Control-D> as the end of a message.

.q Ignoreeof

also applies to

.i

Mail

command mode.

.ip "\fBindentprefix\fP\ \"

String used by the \fB~m\fP tilde escape for indenting messages, in place of the normal tab character (^I).

Be sure to quote the value if it contains spaces or tabs.

.ip "\fBkeep\fP\ \"

The

.q keep

option causes

.i Mail

to truncate your system mailbox instead of deleting it when it is empty. This is useful if you elect to protect your mailbox, which you would do with the shell command:

```
.(l
chmod 600 /var/mail/yourname
.)l
```

where

```
.i yourname
```

is your login name. If you do not do this, anyone can probably read your mail, although people usually don't.

```
.ip "\fBkeepsave\fP\ \ "
```

When you

```
.b save
```

a message,

```
.i Mail
```

usually discards it when you

```
.b quit .
```

To retain all saved messages, set the

```
.q keepsave
```

option.

```
.ip "\fBmetoo\fP\ \ "
```

When sending mail to an alias,

```
.i Mail
```

makes sure that if you are included in the alias, that mail will not be sent to you. This is useful if a single alias is being used by

all members of the group. If however,

you wish to receive a copy of

all the messages you send to the alias, you can set the binary option

```
.q metoo.
```

```
.ip "\fBnoheader\fP\ \ "
```

The binary option

```
.q noheader
```

suppresses the printing of the version and headers when

```
.i Mail
```

is first invoked. Setting this option is the same as using

```
.b \-N
```

on the command line.

```
.ip "\fBnosave\fP\ \ "
```

Normally,

when you abort a message with two <Control-C>'s,

```
.i Mail
```

copies the partial letter to the file

```
.q dead.letter
```

in your home directory. Setting the binary option

```
.q nosave
```

prevents this.

```
.ip "\fBReplyall\fP\ \ "
```

Reverses the sense of

.i reply

and

.i Reply

commands.

.ip "\fBquiet\fP\ \ "

The binary option

.q quiet

suppresses the printing of the version when

.i Mail

is first invoked,

as well as printing the for example

.q "Message 4:"

from the

.b type

command.

.ip "\fBrecord\fP\ \ "

If you love to keep records, then the

valued option

.q record

can be set to the name of a file to save your outgoing mail.

Each new message you send is appended

to the end of the file.

.ip "\fBscreen\fP\ \ "

When

.i Mail

initially prints the message headers, it determines the number to print by looking at the speed of your terminal. The faster your terminal, the more it prints.

The valued option

.q screen

overrides this calculation and

specifies how many message headers you want printed.

This number is also used for scrolling with the

.b z

command.

.ip "\fBsearchheaders\fP\ \ "

If this option is set, then a message-list specifier in the form

``/x:y" will expand to all messages containing the substring

`y' in the header field `x'.

The string search is case insensitive.

If `x' is omitted, it will default to the ``Subject" header field.

The form ``/to:y" is a special case, and will expand

to all messages containing the substring `y' in the ``To", ``Cc",

or ``Bcc" header fields.

The check for ``to" is case sensitive, so that ``/To:y"

can be used to limit the search for `y' to just the ``To:" field.

.ip "\fBsendmail\fP\ \ "

To use an alternate

mail delivery system, set the

```
.q sendmail
```

option to the full pathname of the program to use. Note: this is not for everyone! Most people should use the default delivery system.

```
.ip "\fBtoplines\fP\ \"
```

The valued option

```
.q topline
```

defines the number of lines that the

```
.q top
```

command will print out instead of the default five lines.

```
.ip "\fBverbose\fP\ \"
```

The binary option "verbose" causes

```
.i Mail
```

to invoke sendmail with the

```
.b \-v
```

flag, which causes it to go into verbose mode and announce expansion of aliases, etc. Setting the "verbose" option is equivalent to invoking

```
.i Mail
```

with the

```
.b \-v
```

flag as described in section 6.

```
# $OpenBSD: Makefile,v 1.4 2004/02/01 15:19:57 jmc Exp $
# @(#)Makefile 8.1 (Berkeley) 6/8/93
```

DIR= usr/07.mail

```
SRCS= mail0.nr mail1.nr mail2.nr mail3.nr mail4.nr mail5.nr mail6.nr \
mail7.nr mail8.nr mail9.nr maila.nr
```

MACROS= -me

```
paper.ps: ${SRCS}
${TBL} ${SRCS} | ${ROFF} > ${.TARGET}
```

```
paper.txt: ${SRCS}
${TBL} ${SRCS} | ${ROFF} -Tascii > ${.TARGET}
```

```
.include <bsd.doc.mk>
.\" $OpenBSD: maila.nr,v 1.3 2003/06/03 02:56:11 millert Exp $
.\"
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.\" SUCH DAMAGE.
.\"
.\" @(#)mail4.nr 8.1 (Berkeley) 6/8/93
.\"
set append dot save asksub
ignore Received Message-Id Resent-Message-Id Status Mail-From Return-Path Via
.\" \$OpenBSD: mail4.nr,v 1.6 2008/11/03 18:20:45 jmc Exp \$
.\"
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```

```
.\n
```

```
.\n @(##)mail4.nr 8.2 (Berkeley) 5/16/94
```

```
.\n
```

```
.sh 1 "More about sending mail"
```

```
.sh 2 "Tilde escapes"
```

```
.pp
```

While typing in a message to be sent to others, it is often useful to be able to invoke the text editor on the partial message, print the message, execute a shell command, or do some other auxiliary function.

```
.i Mail
```

provides

these capabilities through

```
.i "tilde escapes" ,
```

which consist of a tilde (~) at the beginning of a line, followed by a single character which indicates the function to be performed. For example, to print the text of the message so far, use:

```
.(l
```

```
~p
```

```
.)l
```

which will print a line of dashes, the recipients of your message, and the text of the message so far.

Since

```
.i Mail
```

requires two consecutive <Control-C>'s to abort a letter, you can use a single <Control-C> to abort the output of ~p or any other ~ escape without killing your letter.

```
.pp
```

If you are dissatisfied with the message as it stands, you can invoke the text editor on it using the escape

```
.(l
```

```
~e
```

```
.)l
```

which causes the message to be copied into a temporary file and an instance of the editor to be spawned. After modifying the message to your satisfaction, write it out and quit the editor.

```
.i Mail
```

will respond

by typing

```
.(l
```

```
(continue)
```

```
.)l
```

after which you may continue typing text which will be appended to your message, or type <Control-D>

to end the message.

A standard text editor is provided by

.i Mail .

You can override this default by setting the valued option

.q EDITOR

to something else. For example, you might prefer:

.(l

set EDITOR=/bin/ed

.)l

.pp

Many systems offer a screen editor as an alternative to the standard text editor, such as the

.i vi

editor from UC Berkeley,

or

.i mg ,

an emacs-like editor.

To use the screen, or

.i visual

editor, on your current message, you can use the escape,

.(l

~v

.)l

~v works like ~e, except that the screen editor is invoked instead.

A default screen editor is defined by

.i Mail .

If it does not suit you, you can set the valued option

.q VISUAL

to the path name of a different editor.

.pp

It is often useful to be able to include the contents of some file in your message; the escape

.(l

~r filename

.)l

is provided for this purpose, and causes the named file to be appended to your current message.

.i Mail

complains if the file doesn't exist

or can't be read. If the read is

successful, the number of lines and

characters appended to your message is printed, after which you may continue appending text. The filename may contain shell metacharacters like * and ?

which are expanded according to the conventions of your shell.

.pp

As a special case of ~r, the escape

.(l

~d

.|
reads in the file
.q dead.letter
in your home directory. This is often useful since
.i Mail
copies the text
of your message there when you abort a message with <Control-C>.
.pp
To save the current text of your message on a file you may use the
(l
~w filename
.)|
escape.
.i Mail
will print out the number of lines and characters written
to the file, after which you may continue appending text to your message.
Shell metacharacters may be used in the filename, as in ~r and are expanded
with the conventions of your shell.
.pp
If you are sending mail from within
.i Mail's
command mode
you can read a message sent to you into the message
you are constructing with the escape:
(l
~m 4
.)|
which
will read message 4 into the current message, shifted right by
one tab stop. You can name any non-deleted message, or list of messages.
Messages can also be forwarded without shifting by a tab stop with ~f.
This is the usual way to forward a message.
.pp
If, in the process of composing a message, you decide to add additional
people to the list of message recipients, you can do so with the escape
(l
~t name1 name2 ...
.)|
You may name as few or many additional recipients as you wish. Note
that the users originally on the recipient list will still receive
the message; you cannot remove someone from the recipient
list with ~t.
.pp
If you wish, you can associate a subject with your message by using the
escape
(l
~s Arbitrary string of text
.)|

which replaces any previous subject with

```
.q "Arbitrary string of text."
```

The subject, if given, is sent near the top of the message prefixed with

```
.q "Subject:"
```

You can see what the message will look like by using ~p.

```
.pp
```

For political reasons, one occasionally prefers to list certain people as recipients of carbon copies of a message rather than direct recipients. The escape

```
.(l
```

```
~c name1 name2 ...
```

```
.)l
```

adds the named people to the

```
.q "Cc:"
```

list, similar to ~t.

Again, you can execute ~p to see what the message will look like.

```
.pp
```

The escape

```
.(l
```

```
~b name1 name2 ...
```

```
.)l
```

adds the named people to the

```
.q "Cc:"
```

list, but does not make the names visible in the

```
.q "Cc:"
```

line ("blind" carbon copy).

```
.pp
```

The recipients of the message together constitute the

```
.q "To:"
```

field, the subject the

```
.q "Subject:"
```

field, and the carbon copies the

```
.q "Cc:"
```

field. If you wish to edit these in ways impossible with the ~t, ~s, ~c and ~b escapes, you can use the escape

```
.(l
```

```
~h
```

```
.)l
```

which prints

```
.q "To:"
```

followed by the current list of recipients and leaves the cursor

(or printhead) at the end of the line. If you type in ordinary characters, they are appended to the end of the current list of

recipients. You can also use your erase character to erase back into

the list of recipients, or your kill character to erase them altogether.

Thus, for example, if your erase and kill characters are the standard (on printing terminals) <Control-H> and <Control-U> keys,

```
.(l
```

```
~h
```

```
To: root kurt^H^H^H^Hbill
```

```
.)l
```

would change the initial recipients

```
.q "root kurt"
```

```
to
```

```
.q "root bill."
```

When you type a newline,

```
.i Mail
```

advances to the

```
.q "Subject:"
```

field, where the same rules apply. Another newline brings you to

the

```
.q "Cc:"
```

field, which may be edited in the same fashion. Another newline

brings you to the

```
.q "Bcc:"
```

("blind" carbon copy) field, which follows the same rules as the "Cc:" field. Another newline

leaves you appending text to the end of your message. You can use

~p to print the current text of the header fields and the body

of the message.

```
.pp
```

To effect a temporary escape to the shell, the escape

```
.(l
```

```
~!command
```

```
.)l
```

is used, which executes

```
.i command
```

and returns you to mailing mode without altering the text of

your message. If you wish, instead, to

filter the body of your

message through a shell command, then you can use

```
.(l
```

```
~|command
```

```
.)l
```

which pipes your message through the command and uses the output as the new text of your message. If the command produces no output,

```
.i Mail
```

assumes that something is amiss and retains the old version

of your message. A frequently-used filter is the command

```
.i fmt ,
```

designed to format outgoing mail.

```
.pp
```

To effect a temporary escape to

.i Mail

command mode instead, you can use the

```
.(l
```

```
~:\fIMail command\fP
```

```
.)l
```

escape. This is especially useful for retyping the message you are replying to, using, for example:

```
.(l
```

```
~:t
```

```
.)l
```

It is also useful for setting options and modifying aliases.

```
.pp
```

If you wish abort the current message, you can use the escape

```
.(l
```

```
~q
```

```
.)l
```

This will terminate the current message and return you to the shell (or `\fIMail\fP` if you were using the `\fBmail\fP` command).

If the `\fBsave\fP` option is set, the message will be copied to the file

```
.q dead.letter
```

in your home directory.

```
.pp
```

If

you wish to abort the current message, without saving any copy of it whatsoever, even if the `\fBsave\fP` option is set, you can use the escape

```
.(l
```

```
~x
```

```
.)l
```

```
.pp
```

If you wish (for some reason) to send a message that contains a line beginning with a tilde, you must double it. Thus, for example,

```
.(l
```

```
~~This line begins with a tilde.
```

```
.)l
```

sends the line

```
.(l
```

```
~This line begins with a tilde.
```

```
.)l
```

```
.pp
```

Finally, the escape

```
.(l
```

```
~?
```

```
.)l
```

prints out a brief summary of the available tilde escapes.

```
.pp
```

On some terminals (particularly ones with no lower case) tilde's are difficult to type.

.i Mail

allows you to change the escape character with the

.q escape

option. For example, I set

```
.(l
```

```
set escape=]
```

```
.)l
```

and use a right bracket instead of a tilde. If I ever need to send a line beginning with right bracket, I double it, just as for ~.

Changing the escape character removes the special meaning of ~.

```
.sh 2 "Network access"
```

.pp

This section describes how to send mail to people on other machines.

Recall that sending

to a plain login name sends mail to that person

on your machine. If your machine is directly (or sometimes, even, indirectly) connected to the Internet, you can send messages to people on the Internet using a name of the form

```
.(l
```

```
name@host.domain
```

```
.)l
```

where

.i name

is the login name of the person you're trying to reach,

.i host

is the name of the machine on the Internet,

and

.i domain

is the higher-level scope within which the hostname is known, e.g. EDU (for educational institutions), COM (for commercial entities), GOV (for governmental agencies), ARPA for many other things, BITNET or CSNET for those networks.

.pp

If your recipient logs in on a machine connected to yours by UUCP (the Bell Laboratories supplied network that communicates

over telephone lines), sending mail can be a bit more complicated.

You must know the list of machines through which your message must travel to arrive at his site. So, if his machine is directly connected to yours, you can send mail to him using the

syntax:

```
.(l
```

```
host!name
```

```
.)l
```

where, again,

.i host

is the name of the machine and

.i name

is the login name.

If your message must go through an intermediary machine first, you must use the syntax:

```
.l  
intermediary!host!name  
.l
```

and so on. It is actually a feature of UUCP that the map of all the systems in the network is not known anywhere (except where people decide to write it down for convenience). Talk to your system administrator about good ways to get places; the

```
.i uuname
```

command will tell you systems whose names are recognized, but not which ones are frequently called or well-connected.

```
.pp
```

When you use the

```
.b reply
```

command to respond to a letter, there is a problem of figuring out the names of the users in the

```
.q "To:"
```

and

```
.q "Cc:"
```

lists

```
.i "relative to the current machine" .
```

If the original letter was sent to you by someone on the local machine, then this problem does not exist, but if the message came from a remote machine, the problem must be dealt with.

```
.i Mail
```

uses a heuristic to build the correct name for each user relative to the local machine. So, when you

```
.b reply
```

to remote mail, the names in the

```
.q "To:"
```

and

```
.q "Cc:"
```

lists may change somewhat.

```
.sh 2 "Special recipients"
```

```
.pp
```

As described previously, you can send mail to either user names or

```
.b alias
```

names. It is also possible to send messages directly to files or to programs, using special conventions. If a recipient name has a ``/'` in it or begins with a ``+'`, it is assumed to be the path name of a file into which to send the message. If the file already exists, the message is appended to the end of the file. If you want to name a file in your current directory (ie, one for which a ``/'` would not usually be needed) you can precede the name with ``./'`

So, to send mail to the file

```
.q memo
```

in the current directory, you can give the command:

```
.(l
```

```
% Mail ./memo
```

```
.)l
```

If the name begins with a `+', it is expanded into the full path name of the folder name in your folder directory.

This ability to send mail

to files can be used for a variety of purposes, such as maintaining a journal and keeping a record of mail sent to a certain group of users. The second example can be done automatically by including the full pathname of the record file in the

```
.b alias
```

command for the group. Using our previous

```
.b alias
```

example, you might give the command:

```
.(l
```

```
alias project sam sally steve susan /usr/project/mail_record
```

```
.)l
```

Then, all mail sent to "project" would be saved on the file

```
.q /usr/project/mail_record
```

as well as being sent to the members of the project. This file can be examined using

```
.i "Mail \-f" .
```

```
.pp
```

It is sometimes useful to send mail directly to a program, for example one might write a project billboard program and want to access it using

```
.i Mail .
```

To send messages to the billboard program, one can send mail to the special name `|billboard' for example.

```
.i Mail
```

treats recipient names that begin with a `|' as a program to send the mail to. An

```
.b alias
```

can be set up to reference a `|'

prefaced name if desired.

```
.i Caveats :
```

the shell treats `|' specially, so it must be quoted on the command line. Also, the `|program' must be presented as a single argument to mail. The safest course is to surround the entire name with double quotes. This also applies to usage in the

```
.b alias
```

command. For example, if we wanted to alias `rmsgsg' to `rmsgsg \-s' we would need to say:

```
.(l
```

```

alias rmsgsgs "| rmsgsgs -s"
.)l
.\" $OpenBSD: mail8.nr,v 1.5 2004/06/04 00:04:54 jmc Exp $
.\"
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.\"
.\" @(#)mail8.nr 8.2 (Berkeley) 5/16/94
.\"
.sh 1 "Glossary"
.pp
This section contains the definitions of a few phrases
peculiar to
.i Mail .
.ip "\fIalias\fP"
An alternative name for a person or list of people.
.ip "\fIflag\fP"
An option, given on the command line of
.i Mail ,
prefaced with a \-. For example,
.b \-f
is

```

a flag.

.ip "\fIheader field\fP"

At the beginning of a message, a line which contains information that is part of the structure of the message. Popular header fields include

.i to ,

.i cc ,

and

.i subject .

.ip "\fIemail \ \fP"

A collection of messages. Often used in the phrase,

.q "Have you read your mail?"

.ip "\fImailbox\fP"

The place where your mail is stored, typically in the directory /var/mail.

.ip "\fImessage\fP"

A single letter from someone, initially stored in your

.i mailbox .

.ip "\fImessage list\fP"

A string used in

.i Mail

command mode to describe a sequence of messages.

.ip "\fIoption\fP"

A piece of special purpose information used to tailor

.i Mail

to your taste.

Options are specified with the

.b set

command.

.\n \$OpenBSD: mail0.nr,v 1.4 2004/06/04 00:04:54 jmc Exp \$

.\n

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.

@(#)mail0.nr 8.1 (Berkeley) 6/8/93

.

.if n {\

.po 5n

.ll 70n

.\}

.eh 'USD:7-%"Mail Reference Manual'

.oh 'Mail Reference Manual"USD:7-%'

.if n \

.nr fs .5v

.he 'Mail Reference Manual"\n(mo^\n(dy^\n(yr%'

.tp

.sp 1.0i

.sz 12

.rb

.(l C

MAIL REFERENCE MANUAL

.)l

.sz 10

.sp 2

.i

.(l C

Kurt Shoens

.)l

.r

.(l C

Revised

by

.)l

.(l C

.i

Craig Leres\|c

.r

and\|c

.i

Mark Andrews

.)l

.r
.l C
Version 5.5

```
\*(td
.)l
.pn 2
.\" $OpenBSD: mail6.nr,v 1.6 2006/03/04 16:18:06 miod Exp $
.\"
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.\"
.sh 1 "Command line options"
.pp
This section describes command line options for
.i Mail
and what they are used for.
.ip "\-b list\ \"
Send blind carbon copies to list.
.ip "\-c list\ \"
```

Send carbon copies to list of users.

List should be a comma separated list of names.

`.ip`

`"\-f file\ \ "`

Show the messages in

`.i file`

instead of your system mailbox. If

`.i file`

is omitted,

`.i Mail`

reads

`.i mbox`

in your home directory.

`.ip \-I`

Forces mail to run in interactive mode,

even when input is not a terminal.

In particular, the special `\fB~\fP` command character,

used when sending mail, is only available interactively.

`.ip \-i`

Ignore tty interrupt signals.

This is particularly useful when using mail on noisy phone lines.

`.ip \-N`

Suppress the initial printing of headers.

`.ip \-n`

Inhibit reading of `/etc/mail.rc` upon startup.

`.ip "\-s string"`

Used for sending mail.

`.i String`

is used as the subject of the message being composed. If

`.i string`

contains blanks, you must surround it with quote marks.

`.ip "\-u name"`

Read

`.i names's`

mail instead of your own. Unwitting others often neglect to protect

their mailboxes, but discretion is advised. Essentially,

`.b "\-u user"`

is a shorthand way of doing

`.b "\-f /var/mail/user"`.

`.ip "\-v"`

Use the

`.b \-v`

flag when invoking `sendmail`.

This feature may also be enabled

by setting the option "verbose".

`.pp`

The following command line flags are also recognized, but are

intended for use by programs invoking

.i Mail
and not for people.
.ip \-d
Turn on debugging information. Not of general interest.
.ip "\-T file"
Arrange to print on
.i file
the contents of the
.i article-id
fields of all messages that were either read or deleted.
.b \-T
is for the
.i readnews
program and should NOT be used for reading your mail.

1.17 jansson 2.12-1build1

1.17.1 Available under license :

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device-added

device-removed

power-plug

power-unplug

network-connectivity-established

network-connectivity-lost

message

dialog-information

dialog-warning

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phone-incoming-call

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phone-outgoing-calling

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service-logout

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```

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```
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```

```
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```

```
Ty Coon, President of Vice
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1.19 libxrender 0.9.10-1

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1.22 jbig-kit 2.1-3.1build1

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

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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

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1.24 mpdecimal 2.4.2-3

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1.26 d-conf 0.36.0-1

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

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

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

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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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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

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```

```
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1.28 libyami 0.2.2-1

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1.29 e2fsprogs 1.45.5-2ubuntu1

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
```

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LD_FLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LD_CONFIG)
```

```
install-strip: install
```

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$(BSDLIB_INSTALL_DIR)/\$(BSD_LIB)

clean::

\$(RM)

-rf pic

\$(RM) -f \$(BSD_LIB)

\$(RM) -f ../\$(BSD_LIB)

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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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```
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```

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```
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```

```
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under certain conditions; type `show c' for details.
```

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

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

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Theodore Ts'o
23-June-2007

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```

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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1.30 elfutils 0.176-1.1build1

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1.32 libedit 3.1-20191231-1

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1.33 libvorbis 1.3.6-2ubuntu1

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1.34 mawk 1.3.4.20200120-2

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1.38 libassuan 2.5.3-7ubuntu2

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1.39 findutils 4.7.0-1ubuntu1

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Version 3, 29 June 2007

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1.40 iptables 1.8.4-3ubuntu2

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1.42 libxcb 1.14-2

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Any executables

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1.44 gstreamer 1.16.2-2

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1.45 dbus-glib 0.110-5fakssync1

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```
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1.46 keyutils 1.6-6ubuntu1

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```
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```

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

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

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

These requirements apply to the modified work as a whole. If

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

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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It may happen that this requirement contradicts the license

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1.47 selinux 3.0-1build2

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1.48 grep 3.4-1

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The

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1.50 vixie-cron 3.0pl1-136ubuntu1

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```

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```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
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.\
.\ $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\
```

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```
*
/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5
```

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.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

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*

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*/
```

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/man1, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src  
crontab -u news -r /usr/lib/news/crontab.src  
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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# * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
# */
```

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up and rip out all the 'su' commands, collapse the lengthy lists into

ranges with steps -- basically, this step is

as much work as you want to make it)

start up the new cron

(must be done as root)

watch it. test it with 'crontab -r' and watch the daemon track your changes.

if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

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.\
.\ @(#)bitstring.3 5.1
.\ (Berkeley) 12/13/89
.\
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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*
* @(#)bitstring.h 5.2
.\ (Berkeley) 4/4/90
*/
```

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```
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*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h
* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
```

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.\/* */
.\/*
.\/* $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
.\/*
```

Found in path(s):

```
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*/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.1
```

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```
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```

1.51 libgts 0.7.6+darcs121130-4

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Version 2, June 1991

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1.53 Icms 2.9-4

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1.54 libdatrie 0.2.12-3

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1.57 ilmbase 2.3.0-6build1

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1.58 libpsl 0.21.0-1ubuntu1

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1.66 pango 1.44.7-2ubuntu4

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1.70 xorg 7.7+19ubuntu14

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1.72 adduser 3.118ubuntu2

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1.74 debianutils 4.9.1

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1.78 sed 4.7-1

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

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The

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.80 init-system-helpers 1.57

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1.81 debconf 1.5.73

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1.82 ncurses 6.2-0ubuntu2

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

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1.83 libsepol 3.0-1

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1.84 base-passwd 3.5.47

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1.85 bzip2 1.0.8-2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.86 cracklib 2.9.6-3.2

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

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

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

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

^L

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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".)

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

3. You may opt to apply the terms

of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

^L

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

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

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

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

^L

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

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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

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

Copyright (C) <year> <name of author>

This library 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 2 of the License, or (at your option) any later version.

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Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor,
Boston, MA 02110-1301 USA

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

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

That's all there is to it!

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
> it was
>> released under. This wasn't actually a license change, just a
>> clarification of the licensing that was already in place.
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> not
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> 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,
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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.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.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.umr.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.umr.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 191Gxtp020623
for <nneul@umr.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.umr.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@umr.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

1.87 libpwquality 1.4.2-1build1

1.87.1 Available under license :

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1.88 gobject-introspection 1.64.1-1~ubuntu20.04.1

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1.90 glib-networking 2.64.2-1ubuntu0.1

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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

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

```
*  
* cvt - IEEE floating point formatting routines.  
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.  
*
```

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1.94 tidy 5.6.0-11

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1.95 orc 0.4.31-1

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1.97 wayland 1.18.0-1

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1.100 at-spi2-core 2.36.0-2

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

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Any executables containing that work also fall under Section 6,

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

- * Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes
Original author of sensord.
- * Bob Schlaermann

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

* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

* Jean Delvare

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

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.104 apr-util 1.6.1-4ubuntu2

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1.105 libxi 1.7.10-0ubuntu1

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1.106 cdebconf 0.251ubuntu1

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# Revision 3.0 1993/08/18 12:04:35 ram
# Baseline for dist 3.0 netwide release.
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#
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# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order. It will complain and die if not. NOTE: It will still produce
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```

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Any executables

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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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1.116 ijs 0.35-15

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```

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```

```
*
```

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* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_server.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs.h

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**/

Found in path(s):

* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_server_example.c

- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/unistd_.h
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client.h
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs.c
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client.c
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_server.h
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_exec_unix.c
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client_example.c
- * /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_exec_win.c

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IJS 0.35

News as of 0.35:

11 Feb 2004

The autoconf build system has been modernized and we now use libtool for portable shared library building. Thanks to Roger Leigh for helping with that.

Also a bug with ColorSpace field was corrected, thanks to David Suffield.

News as of 0.34:

22 Apr 2002

The source files now have official MIT license banners. Thanks to www.opensource.org for hosting the ur-text of this license. Also some clarifications on namespace management in the spec.

There is now an IJS website, graciously hosted by linuxprinting.org.
<http://www.linuxprinting.org/ijs/>

There have been some minor improvements in the makefile.

News as of 0.33:

The buffer size has been increased to 4096. It should probably be dynamically allocated, though. Minor clarification in BitsPerSample language in spec (thanks to Jackie Chang for pointing out the ambiguity).

News as of 0.32:

The xres and yres fields of ph are now floats.

The example server now supports margins. A few small bugs have been cleaned up as well.

News as of 0.31:

A number of small cleanups in the code. The example client and server support more querying and enumeration, but not yet margins.

There is a new API for the client to query the negotiated version number.

The `ijs_exec_unix` module now sets the `SIGPIPE` signal to ignore. This way, if the client abnormally exits, it allows the error to propagate through the `read()` or `write()` call to the pipe, rather than immediately killing the client.

News as of 0.30:

It now builds as a library. Also, there is basic autoconf support (but not `automake` or `libtool`). It's probably best to link the static library for now. I'm open to suggestions - I'm open to drinking the entire pitcher of auto* Kool-Aid, but we probably won't use `libtool` in Ghostscript builds.

This release fixes a number of bugs and improves portability. In particular, server errors should now bubble up to the client, and the termination logic has been patched according to David Suffield, who discovered a race condition there. Thanks to David and Russell for patches.

The spec is now in a reasonable draft. See `ijs_spec.sgml` and `ijs_spec.pdf`. Comments and suggestions are welcome.

The example client and server have `_not_` yet been updated to use the newer features of the `ijs` spec. Patches are welcome.

News as of 0.29:

I've added a number of things discussed on the mailing list, including listing and enumerating parameters, as well as a job abstraction. The client interface has changed a bit - job id's are now present in most callbacks, `colorspace` is now presented only as a string, and there are quite a few more callbacks.

I've started a skeleton of a protocol spec in DocBook.

Note, there's a potential race condition in `EXIT` noted by David Suffield. The fix hasn't yet been merged in from his work.

News as of 0.2:

This version integrates `set_param` and `get_param`, and has moved the "page header" processing to use `set_param`.

Also, there are both Windows (MS VC++) and Unix makefiles. Use "`make -f unix.mak`" to build on Unix. Thanks to Russell Lang for Windows portability work.

Introduction

This is an early snapshot of IJS. I expect the protocols and API's to evolve somewhat, and things like error handling are still far from perfect. However, I'm pretty happy that this is going in the right direction.

I am doing this prerelease so that authors of various packages related to raster-based printing can start thinking about how to integrate it. Ideally, all producers of printable raster data should be able to function as an ijs client, and all consumers should be able to function as an ijs server. This release is about as functional as piping `pnm's`, which is primitive, but the way a lot of drivers still work.

What is IJS?

IJS is, first and foremost, a protocol for transmission of raster page images. This snapshot provides a reference implementation of the protocol, the design of which is still in flux. When the protocol specification is published, it will be authoritative. Applications should feel free to link against the library provided in this package, adapt that code for their own needs, or roll a completely new implementation.

The protocol is a fairly traditional client-server design. In general, the client sends one or more page images to the server, along with various metadata. Communication is through simple "commands", which are essentially size-prefixed packets. The client sends a command to the server, then waits for a response command, either `ACK` or `NAK`.

The server "speaks" IJS through `stdin` and `stdout`. One consequence of this design decision is that the server can be invoked remotely, for example through `ssh`. It's not clear yet how useful this will be, but at least people can experiment with it.

Currently, all data goes through the stdin and stdout pipes. It is envisioned that a shared memory transport will also be provided, transparently. IJS will fall back to pipes if shared memory is not available for any reason.

I'm not yet convinced that the performance win for shared memory is significant. I would like to benchmark domain sockets as well, as they are likely to provide better performance than pipes, and are also highly desirable for cases where the server runs as a persistent daemon.

This tarball provides an "IJS library" in the form of `ijs`, `ijs_client`, and `ijs_server`. It also provides an example client (capable of reading `pnmraw` files) and an example server (capable of generating PostScript). I imagine that the example programs will be useful for development and testing, but that end-users probably won't find a need for them.

To try IJS, compile and run `./ijs_client_example -s ./ijs_server_example -pOutputFile=/tmp/tmp.ps foo.ppm`. This will invoke `./ijs_server_example`, which will in turn generate a `/tmp/tmp.ps` file.

The `ijs_client_example` takes a `-p` command line argument for setting parameters, and a `-r` argument for setting resolution. Here is a typical command line:

```
./ijs_client_example -s ./ijs_server_example -pOutputFile=/tmp/tmp.ps \  
-r300 in.ppm
```

The syntax of `-p` is a sequence of `key=value` pairs, separated by commas. A backslash in the value escapes the next character (allowing embedded commas in the value). Thus, `-pfoo=bar, quux=a\b` sets the key "foo" to the value "bar", and the key "quux" to the value "a,b".

FAQ

What does IJS stand for?

It stands for "raster printer driver architecture." It's spelled U+30EA U+13DA, to avoid confusion, and to save space in UTF-16 encodings.

Actually, the name derives from HPIJS, which presumably stands for HP

InkJet Server. The name pays homage to HPIJS for the inspiration, while communicating that it's not specific to HP printers.

Licensing

All source code in this distribution is released under the MIT License. I want everybody to be able to use this.

More stuff to write:

Actual specification for the protocol (in draft).

Client spawns server,
invoker invokes client and server, and
persistent server daemon modes.

Negotiation of extensions (goal is interoperability between versions).
(Actually, the PING/PONG protocol as it exists negotiates version numbers).

TODO:

Shared memory transport.

Should have an alternate mode in which the client is passed the pipe information, rather than having to spawn the server.

wait() cleanup of invoked server.

Package library up as libijs.a, .so (partially done)

Found in path(s):

* /ijs-0-35-orig-1-tar-gz/ijs-0.35/README

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dnl \$Id: configure.ac,v 1.4 2004/02/10 19:39:58 giles Exp \$

dnl Process this file with autoconf to produce a configure script.

dnl MAKING RELEASES (a step-by-step guide!)

dnl =====

dnl

dnl Since the last release:

dnl 1. if only source code (not the interface) has changed, set

dnl IJS_MICRO_VERSION += 1;

dnl IJS_INTERFACE_AGE += 1;

dnl 2. if any functions have been added, removed, or changed, set

dnl IJS_INTERFACE_AGE = 0;

dnl IJS_CURRENT_INTERFACE += 1;

dnl 3. if interfaces have been added, set

dnl IJS_BINARY_AGE += 1;

dnl 4. if interfaces have been removed, set

dnl IJS_BINARY_AGE = 0;

dnl

dnl For more detailed information, see the libtool info documentation.

dnl

pushdef([IJS_NAME], [ijs])

pushdef([IJS_MAJOR_VERSION],

[0])

pushdef([IJS_MINOR_VERSION], [35])

pushdef([IJS_EXTRA_VERSION], [])

pushdef([IJS_CURRENT_INTERFACE], [1])

pushdef([IJS_INTERFACE_AGE], [1])

pushdef([IJS_BINARY_AGE], [0])

pushdef([IJS_VERSION], IJS_MAJOR_VERSION.IJS_MINOR_VERSION[IJS_EXTRA_VERSION])

AC_INIT(IJS_NAME, IJS_VERSION, [inkjet-list@linuxprinting.org])

AC_PREREQ(2.53)

AC_CONFIG_SRCDIR(ijs.c)

AC_REVISION(\$Revision: 1.4 \$)

dnl In the following script, there are a the following variants

dnl of ijs cflags and libs variables
dnl
dnl IJS_CFLAGS: cflags for compiling libraries and example progs
dnl IJS_LIBS: libraries for linking programs. ONLY to be used
dnl to generate \${ijs_libs}
dnl IJS_DEPLIBS: libraries for linking libraries against
dnl ijs_cflags: cflags to store in ijs-config
dnl ijs_libs: libs to store in ijs-config
dnl LIBIJS_LIBS libs to link programs IN THIS PACKAGE ONLY against

dnl initial default values

IJS_LIBS="-lijs"

[IJS_MAJOR_VERSION]=IJS_MAJOR_VERSION

[IJS_MINOR_VERSION]=IJS_MINOR_VERSION

[IJS_EXTRA_VERSION]=IJS_EXTRA_VERSION

[IJS_CURRENT_INTERFACE]=IJS_CURRENT_INTERFACE

[IJS_INTERFACE_AGE]=IJS_INTERFACE_AGE

[IJS_BINARY_AGE]=IJS_BINARY_AGE

[IJS_VERSION]=IJS_VERSION

popdef([IJS_MAJOR_VERSION])

popdef([IJS_MINOR_VERSION])

popdef([IJS_EXTRA_VERSION])

popdef([IJS_CURRENT_INTERFACE])

popdef([IJS_INTERFACE_AGE])

popdef([IJS_BINARY_AGE])

dnl

Initialize automake stuff.

AM_INIT_AUTOMAKE(IJS_NAME, IJS_VERSION)

popdef([IJS_NAME])

popdef([IJS_VERSION])

AC_SUBST(IJS_MAJOR_VERSION)

AC_SUBST(IJS_MINOR_VERSION)

AC_SUBST(IJS_CURRENT_INTERFACE)

AC_SUBST(IJS_INTERFACE_AGE)

AC_SUBST(IJS_BINARY_AGE)

AC_SUBST(IJS_VERSION)

dnl libtool versioning

LT_RELEASE=\$IJS_MAJOR_VERSION.\$IJS_MINOR_VERSION

LT_CURRENT=\$IJS_CURRENT_INTERFACE

LT_REVISION=\$IJS_INTERFACE_AGE

LT_AGE=\$IJS_BINARY_AGE

AC_SUBST(LT_RELEASE)

AC_SUBST(LT_CURRENT)

AC_SUBST(LT_REVISION)

AC_SUBST(LT_AGE)

dnl Specify a configuration file.

dnl AM_CONFIG_HEADER(config.h)

dnl Set up libtool scripts.

dnl

Disable shared library building to speed up the build

AC_DISABLE_SHARED

AM_PROG_LIBTOOL

AC_SUBST(LIBTOOL_DEPS)

dnl Checks for programs

AC_PROG_CC

AM_PROG_CC_STDC

AM_PROG_LIBTOOL

AC_SUBST(LIBTOOL_DEPS)

AC_ISC_POSIX

AC_PROG_INSTALL

AC_PATH_PROG(DB2PS, db2ps)

if test x\${DB2PS} = x ; then

AC_MSG_WARN([PostScript documentation cannot be generated!])

fi

AC_SUBST(DB2PS)

AC_PATH_PROG(PS2PDF, ps2pdf)

if test x\${PS2PDF} = x ; then

AC_MSG_WARN([PDF documentation cannot be generated!])

fi

AC_SUBST(PS2PDF)

dnl conditional building

case \${host_os} in

cygwin | mingw32 | pw32 | interix3 | interix | uwin) libijs_sysdeps="windows";;

*) libijs_sysdeps="unix";;

esac

AM_CONDITIONAL(SYSDEPS_WINDOWS, test x\$libijs_sysdeps = xwindows)

dnl config.status substitutions

AC_SUBST(IJS_CFLAGS)

AC_SUBST(IJS_LIBS)

AC_SUBST(IJS_DEPLIBS)

AC_SUBST(IJS_VERSION)

```
AC_SUBST(ijs_cflags)
ijs_libs="${IJS_LIBS} ${IJS_DEPLIBS}"
AC_SUBST(ijs_libs)
AC_SUBST(INCLUDES)
LIBIJS_LIBS="${LIBIJS_LIBS} ${IJS_DEPLIBS}"
AC_SUBST(LIBIJS_LIBS)
```

```
dnl
output files and headers
AC_CONFIG_FILES([Makefile])
AC_CONFIG_FILES([ijs-config], [chmod +x ijs-config])
AC_CONFIG_FILES([ijs.pc])
AC_OUTPUT
```

Found in path(s):

* /ijs-0-35-orig-1-tar-gz/ijs-0.35/configure.ac

1.117 libxrandr 1.5.2-0ubuntu1

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1.118 graphviz 2.42.2-3build2

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It was downloaded from <http://www.graphviz.org/>

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The Debian packaging was started by Stephen M Moraco <stephen@debian.org> and then was taken over in late 2006 by

Cyril Brulebois, placing his work under the same terms as graphviz itself.

2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>
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.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

src/pcf/pcf.h

src/pcf/pcfdrivr.c

src/pcf/pcfdrivr.h

src/pcf/pcferror.h

src/pcf/pcfread.c

src/pcf/pcfread.h

```
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
#
EOF
```

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```

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```
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1.122 libjbig 2.1-3.1build1

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```

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```
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: jbigkit
Source: http://www.cl.cam.ac.uk/~mgk25/jbigkit/
```

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* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
import io, sys
from setuptools import setup
```

```

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: Utilities',
        ],
        'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
        'test_suite': 'tests',
    }

    setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.124 cups 2.3.1-9ubuntu1.1

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

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END OF TERMS AND CONDITIONS

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```
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Version 3, 29 June 2007

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

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

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

```
<program> Copyright (C) <year> <name of author>  
This program 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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1.127 cron 3.0pl1-136ubuntu1

1.127.1 Available under license :

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* anyone resulting from the use of this software rests entirely with the
* user.
*
* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
*/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.h
*/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h
*
```

```
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/externs.h
```

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* I'll try to keep a version up to date. I can be reached as follows:
* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
*/
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
*
/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/config.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/database.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.h
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/user.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
```

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*
*/
```

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```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c
```

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```

```
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.\" * Paul Vixie      <paul@vix.com>      uunet!decwrl!vixie!paul
.\" */
.\"
.\" $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
.\"
```

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/cron.8

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*

* @(#)bitstring.h 5.2

(Berkeley) 4/4/90

*/

Found in path(s):

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.h

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.\" THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
.\" IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
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.\"
.\" @(#)bitstring.3 5.1
.\" (Berkeley) 12/13/89
.\"
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/bitstring.3
```

No license file was found, but licenses were detected in source scan.

```
# * All rights reserved
```

```
# * Distribute freely, except: don't remove my name from the source or
```

Found in path(s):

```
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/Makefile
```

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```
.\" *
```

```
.\" * Distribute freely, except: don't remove my name from the source or
```

```
.\" * documentation (don't take credit for my work), mark your changes (don't
```

```
.\" * get me blamed for your possible bugs), don't alter or remove this
```

```
.\" * notice. May be sold if buildable source is provided to buyer. No
```

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.\" * warrantee of any kind, express or implied, is included with this
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.\" * software; use at your own risk, responsibility for damages (if any) to
```

```
.\" * anyone resulting from the use of this software rests entirely with the
```

```
.\" * user.
```

```
.\" *
```

```
.\" * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
```

```
.\" * I'll try to keep a version up to date. I can be reached as follows:
```

```
.\" * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
```

```
.\" */
```

```
.\"
```

```
.\" $Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
```

.\

Found in path(s):

*

/cron-3.0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.1

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* I'll try to keep a version up to date. I can be reached as follows:

* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

*/

\$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp \$

Read the comments at the top of the Makefile, then edit the area marked
'configurable
stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/man1,
which will be hard since there will be name collisions. (Note that the man
command was originally written by

Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable

BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows `_PATH_SENDMAIL` to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:

```
make all
```

su and say:

```
make install
```

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the ``crontab'` command to install all the little pieces you just created. Some examples (see below before trying any of these!)

```
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src
```

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another ``crontab -r'` command. (2) The crontab command will affect the crontab of the person using the command unless ``-u USER'` is given; ``-u'` only works for root. When using most ``su'` commands under most BSD's, ``crontab'` will still think of you as yourself even though you may think of yourself as root -- so use ``-u'` liberally. (3) the ``-r'` option stands for ``replace'`; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do ``ps aux'` and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `'&'` is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to

be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):

*/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/INSTALL

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.\"/>*
.\"/>* Send bug reports, bug fixes, enhancements, requests, flames, etc., and
.\"/>* I'll try to keep a version up to date. I can be reached as follows:
.\"/>* Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul
.\"/>*/
.\"/>
.\"/> $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
.\"/>

```

Found in path(s):

*

/cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/crontab.5

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```
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# * user.
# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie <paul@vix.com> uunet!decwrl!vixie!paul

```

*/

Vixie Cron V3.0

December 27, 1993

[V2.2 was some time in 1992]

[V2.1 was May 29, 1991]

[V2.0 was July 5, 1990]

[V2.0-beta

was December 9, 1988]

[V1.0 was May 6, 1987]

Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It is functionally based on the SysV cron, which means that each user can have their own crontab file (all crontab files are stored in a read-protected directory, usually /var/cron/tabs). No direct support is provided for 'at'; you can continue to run 'atrun' from the crontab as you have been doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files "allow" and "deny" in /var/cron can be used to control access to the "crontab" command (which installs crontabs). It hasn't been tested on SysV, although some effort has gone into making the port an easy one.

This is more or less the copyright that USENET contributed software usually has. Since ATT couldn't use this version if they had to freely distribute source, and since I'd love to see them use it, I'll offer some ridiculously low license fee just to have them take it. In the unlikely event that they do this, I will continue to support and distribute the pseudo-PD version, so please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files

Edit config.h

Edit Makefile

(both of these files have instructions inside; note that some things in config.h are definable in Makefile and are therefore surrounded by #ifndef...#endif)

'make'

'su' and 'make install'

(you may have to install the man pages by hand)

kill your existing cron process

(actually you can run your existing cron if you want, but why?)

build new crontabs using /usr/lib/{crontab,crontab.local}

(either put them all in "root"'s crontab, or divide it up

and rip out all the 'su' commands, collapse the lengthy lists into ranges with steps -- basically, this step is as much work as you want to make it) start up the new cron (must be done as root) watch it. test it with 'crontab -r' and watch the daemon track your changes. if you like it, change your /etc/{rc,rc.local} to use it instead of the old one.

\$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp \$

Found in path(s):

* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.128 attr 2.4.48-5

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Version 2.1, February 1999

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1.130 libxi 1.1.4-2

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1.133 mime-support 3.64ubuntu1

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Source: <git://anonscm.debian.org/collab-maint/mime-support.git>

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1.134 distro-info 0.23ubuntu1

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Upstream-Name: distro-info

Upstream-Contact: Benjamin Drung <bdrung@debian.org>

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1.136 libtext-iconv-perl 1.7-7

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the `iconv()` codeset conversion function, as defined by the Single UNIX Specification. For more details see the POD documentation embedded in the file `Iconv.pm`, which will also be installed as `Text::Iconv(3)` man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or at least provide `iconv_open()`, `iconv()` and `iconv_close()` functions compliant with it.

Note that the possible conversions and the quality of the conversions depend on the available `iconv` conversion tables and algorithms, which are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the `genxlt(1)` command).

It is also possible to use a separate `iconv` library such as GNU `libiconv` package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it.

You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include'
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv implementation are skipped, but for the purpose outlined above this is no problem, as it shows that the iconv functions are working. There is no standard way to find out which conversions are supported by an implementation.

This is also the reason why Text::Iconv can't provide platform-independent support for codeset identifiers (even if it would be nice to have).

Installation

```
make install
```

Feedback

Text::Iconv was tested on various platforms and with different iconv implementations.

If you built Text::Iconv on a platform where you needed to specify additional libraries, or where none of the codeset identifiers in the test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynamalabs.de>

Found in path(s):

* /libtext-iconv-perl-1-7-orig-2-tar-bz2/Text-Iconv-1.7/README

1.137 Imdb 0.9.24-1

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1.139 libmaxminddb 1.4.2-0ubuntu1.20.04.1

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1.140 Isb 11.1.0ubuntu2

1.140.1 Available under license :

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Upstream-Name: LSB implementation package

Files: *

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1.141 pythonurllib 1.25.8-2ubuntu0.1

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <https://github.com/georgemarshall>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <http://rhodesmill.org/brandon>
- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
- * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict

- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield
- <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<https://dbrgn.ch/>>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <<https://github.com/jschneier>>
- * HTTPHeaderDict and associated tests and docs

- * Bugfixes, docs, test coverage

- * Tahia Khan <<http://tahia.tk/>>
 - * Added Timeout examples in docs

- * Arthur Grunseid <<https://grunseid.com>>
 - * source_address support and tests (with <https://github.com/bui>)

- * Ian Cordasco <graffatcolmingov@gmail.com>
 - * PEP8 Compliance and Linting
 - * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
 - * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
 - * Google App Engine documentation

- * Aaron Meurer
<asmeurer@gmail.com>
 - * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
 - * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
 - * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
 - * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
 - * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
 - * Implemented generator for getting chunks from chunked responses.

- * tlynn <<https://github.com/tlynn>>
 - * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
 - * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
 - * App Engine environment tests.
 - * Documentation re-write.

- * John Krauss <<https://github.com/talos>>

- * Clues to debugging problems with `cryptography` dependency in docs
- * Disassem <<https://github.com/Disassem>>
- * Fix pool-default headers not applying for url-encoded requests like GET.
- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.
- * Christian Pedersen <<https://github.com/chripede>>
- * IPv6 HTTPS proxy bugfix
- * Jordan Moldow <<https://github.com/jmoldow>>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.
- * Predrag Gruevski <<https://github.com/obi1kenobi>>
- * Made cert digest comparison use a constant-time algorithm.
- * Adam Talsma <<https://github.com/a-tal>>
- * Bugfix to ca_cert file paths.
- * Evan Meagher <<https://evanmeagher.net>>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter
- * John Vandenberg <jayvdb@gmail.com>
- * Python 2.6 fixes; pyflakes and pep8 compliance
- * Andy Caldwell <andy.m.caldwell@googlemail.com>
- * Bugfix related to reusing connections in indeterminate states.
- * Ville Skytt <ville.skytta@iki.fi>
- * Logging efficiency improvements, spelling fixes, Travis config.
- * Shige Takeda <smtakeda@gmail.com>
- * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- * Jess Shapiro <jesse@jesseshapiro.net>
- * Various character-encoding fixes/tweaks
- * Disabling IPv6 DNS when IPv6 connections not supported
- * David Foster <<http://dafoster.net/>>
- * Ensure order of request and response headers are preserved.
- * Jeremy Cline <jeremy@jcline.org>
- * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
- * History list to Retry object.
- * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
- * Ensure timeouts are not booleans and greater than zero.
- * Fixed infinite loop in ``stream`` when amt=None.
- * Added length_remaining to determine remaining data to be read.
- * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
- * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
- * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
- * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
- * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
- * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.142 libxcrypt 4.4.10-10ubuntu4

1.142.1 Available under license :

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1.143 sysv-init 2.96-2.1ubuntu1

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1.145 libcap 1:2.32-1

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1.146 json-glib 1.4.4-2ubuntu2

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

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

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

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(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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Version 3, 29 June 2007

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```
# COPYING.other          *- org *-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.159 python-certifi 2019.11.28-1

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

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1.160 pci-ids 0.0~2020.03.20-1

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1.161 python-idna 2.8-1

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1.162 alsa-topology-conf 1.2.2-1

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1.163 emacs-common 3.0.4

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1.164 net-snmp 5.8+dfsg-2ubuntu2.3

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1.165 libtommath 1.2.0-3

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1.167 adwaita-icon-theme 3.36.1-2ubuntu0.20.04.2

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1.168 libxcomposite 0.4.5-1

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1.169 ubuntu-themes 19.04-0ubuntu3

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1.170 libxfixes 5.0.3-2

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1.171 at-spi2-atk 2.34.2-Ubuntu2~20.04.1

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1.172 python-requests-unixsocket 0.2.0-2

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```

// This file was generated by gir (https://github.com/gtk-rs/gir)
// from gir-files (https://github.com/gtk-rs/gir-files)
// DO NOT EDIT

use gio_sys;
use glib;
use glib::object::Cast;
use glib::object::IsA;
use glib::signal::connect_raw;
use glib::signal::SignalHandlerId;
use glib::translate::*;
use glib_sys;
use gobject_sys;
use std::boxed::Box as Box_;
use std::fmt;
use std::mem::transmute;
use std::pin::Pin;
use std::ptr;
use Cancellable;

glib_wrapper! {
    pub struct Permission(Object<gio_sys::GPermission, gio_sys::GPermissionClass, PermissionClass>);

    match fn {
        get_type => || gio_sys::g_permission_get_type(),
    }
}

pub const NONE_PERMISSION: Option<&Permission> = None;

pub trait PermissionExt: 'static {
    fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

    fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
        &self,
        cancellable: Option<&P>,
        callback: Q,
    );

    fn acquire_async_future(
        &self,
    ) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;
}

```

```

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error>;

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
);

fn release_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>>;

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self,
f: F) -> SignalHandlerId;
}

impl<O: IsA<Permission>> PermissionExt for O {
fn acquire<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_acquire(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn acquire_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {
    let user_data: Box_<Q> = Box_::new(callback);
    unsafe extern "C" fn acquire_async_trampoline<
        Q: FnOnce(Result<(), glib::Error>) + Send + 'static,

```

```

>(<br>
  _source_object: *mut gobject_sys::GObject,<br>
  res: *mut gio_sys::GAsyncResult,<br>
  user_data: glib_sys::gpointer,<br>
) {<br>
  let mut error = ptr::null_mut();<br>
  let _ = gio_sys::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);<br>
  let result = if error.is_null() {<br>
    Ok(())<br>
  } else {<br>
    Err(from_glib_full(error))<br>
  };<br>
  let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);<br>
  callback(result);<br>
}<br>
let callback = acquire_async_trampoline::<Q>;<br>
unsafe {<br>
  gio_sys::g_permission_acquire_async(<br>
    self.as_ref().to_glib_none().0,<br>
    cancellable.map(|p| p.as_ref()).to_glib_none().0,<br>
    Some(callback),<br>
    Box_::into_raw(user_data) as *mut _,<br>
  );<br>
}<br>
}

fn acquire_async_future(
  &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<>, glib::Error>> +
'static>> {
  Box_::pin(crate::GioFuture::new(self, move |obj, send| {
    let cancellable = Cancellable::new();
    obj.acquire_async(Some(&cancellable), move |res| {
      send.resolve(res);
    });

    cancellable
  })))
}

fn get_allowed(&self) -> bool {
  unsafe {
    from_glib(gio_sys::g_permission_get_allowed(
      self.as_ref().to_glib_none().0,
    ))
  }
}
}

```

```

fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_acquire(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(gio_sys::g_permission_get_can_release(
            self.as_ref().to_glib_none().0,
        ))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        gio_sys::g_permission_impl_update(
            self.as_ref().to_glib_none().0,
            allowed.to_glib(),
            can_acquire.to_glib(),
            can_release.to_glib(),
        );
    }
}

fn release<P: IsA<Cancellable>>(&self, cancellable: Option<&P>) -> Result<(), glib::Error> {
    unsafe {
        let mut error = ptr::null_mut();
        let _ = gio_sys::g_permission_release(
            self.as_ref().to_glib_none().0,
            cancellable.map(|p| p.as_ref()).to_glib_none().0,
            &mut error,
        );
        if error.is_null() {
            Ok(())
        } else {
            Err(from_glib_full(error))
        }
    }
}

fn release_async<P: IsA<Cancellable>, Q: FnOnce(Result<(), glib::Error>) + Send + 'static>(
    &self,
    cancellable: Option<&P>,
    callback: Q,
) {

```

```

let user_data: Box_<Q> = Box_::new(callback);
unsafe extern "C" fn release_async_trampoline<
    Q: FnOnce(Result<(), glib::Error>) + Send + 'static,
>(
    _source_object: *mut gobject_sys::GObject,
    res: *mut gio_sys::GAsyncResult,
    user_data: glib_sys::gpointer,
) {
    let mut error = ptr::null_mut();
    let _ = gio_sys::g_permission_release_finish(_source_object as *mut _, res, &mut error);
    let result = if error.is_null() {
        Ok(())
    } else {
        Err(from_glib_full(error))
    };
    let callback: Box_<Q> = Box_::from_raw(user_data as *mut _);
    callback(result);
}
let callback = release_async_trampoline::<Q>;
unsafe {
    gio_sys::g_permission_release_async(
        self.as_ref().to_glib_none().0,
        cancellable.map(|p| p.as_ref()).to_glib_none().0,
        Some(callback),
        Box_::into_raw(user_data) as *mut _,
    );
}
}

fn release_async_future(
    &self,
) -> Pin<Box_<dyn std::future::Future<Output = Result<(), glib::Error>> + 'static>> {
    Box_::pin(crate::GioFuture::new(self, move |obj, send| {
        let cancellable = Cancellable::new();
        obj.release_async(Some(&cancellable), move |res| {
            send.resolve(res);
        });

        cancellable
    })))
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe extern "C" fn notify_allowed_trampoline<P, F: Fn(&P) + 'static>(
        this: *mut gio_sys::GPermission,
        _param_spec: glib_sys::gpointer,
        f: glib_sys::gpointer,
    ) where

```

```

P: IsA<Permission>,
{
  let f: &F = &*(f as *const F);
  f(&Permission::from_glib_borrow(this).unsafe_cast())
}
unsafe {
  let f: Box_<F> = Box_::new(f);
  connect_raw(
    self.as_ptr() as
*mut _,
    b"notify::allowed\0".as_ptr() as *const _,
    Some(transmute(notify_allowed_trampoline::<Self, F> as usize)),
    Box_::into_raw(f),
  )
}
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
  unsafe extern "C" fn notify_can_acquire_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
  ) where
    P: IsA<Permission>,
  {
    let f: &F = &*(f as *const F);
    f(&Permission::from_glib_borrow(this).unsafe_cast())
  }
  unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
      self.as_ptr() as *mut _,
      b"notify::can-acquire\0".as_ptr() as *const _,
      Some(transmute(notify_can_acquire_trampoline::<Self, F> as usize)),
      Box_::into_raw(f),
    )
  }
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
  unsafe extern "C" fn notify_can_release_trampoline<P, F: Fn(&P) + 'static>(
    this: *mut gio_sys::GPermission,
    _param_spec: glib_sys::gpointer,
    f: glib_sys::gpointer,
  ) where
    P: IsA<Permission>,
  {
    let f: &F = &*(f as *const F);

```

```

    f(&Permission::from_glib_borrow(this).unsafe_cast())
  }
  unsafe {
    let f: Box_<F> = Box_::new(f);
    connect_raw(
      self.as_ptr() as *mut _,
      b"notify::can-release\0".as_ptr() as *const _,
      Some(transmute(notify_can_release_trampoline::<Self, F> as usize)),
      Box_::into_raw(f),
    )
  }
}
}
}

```

```

impl fmt::Display for Permission {
  fn fmt(&self, f: &mut fmt::Formatter) -> fmt::Result {
    write!(f, "Permission")
  }
}

```

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[](https://github.com/vmchale)	[](https://github.com/etopiei)	[](https://github.com/messense)	[](https://github.com/Keats)	[](https://github.com/kieraneglin)	[](https://github.com/durka)
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[](https://github.com/alex-gulyas) [[](https://github.com/cite-reader) [[](https://github.com/alexbool) [[](https://github.com/AluisioASG) [[](https://github.com/BurntSushi) [[](https://github.com/AndrewGaspar) |

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[](https://github.com/nox) [[](https://github.com/mitsuhiko) [[](https://github.com/pixelistik) [[](https://github.com/ogham) [[](https://github.com/Bilalh) [[](https://github.com/dotdash) |

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1.174 gsettings-desktop-schemas 3.36.0-1ubuntu1

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

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

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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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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

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

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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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.

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1.180 hunspell 1.7.0-2build2

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 * file compatibility and work on merging our versions
 * of MySpell back into a single tree. David has been
 * a significant help in improving MySpell.
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 * Special thanks also go to La'szlo' Ne'meth
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 * Hungarian dictionary and who developed and contributed
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 *

*/

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1.181 enchant-2 2.2.8-1ubuntu0.20.04.1

1.181.1 Available under license :

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1.182 openjpeg 2.3.1-1ubuntu4.20.04.1

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Any

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1.193 urllib3 1.25.8

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <<http://code.google.com/u/victor.vde/>>

* HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

* NTLM-authenticated HTTPSConnectionPool

* Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>

* Client-verified SSL certificates for HTTPSConnectionPool

* Response gzip and deflate encoding support

* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

* Bugfixes, suggestions, Requests integration

* georgemarshall <<https://github.com/georgemarshall>>

* Bugfixes, Improvements and Test

coverage

* Thomas Kluyver <thomas@kluyver.me.uk>

* Python 3 support

* brandon-rhodes <<http://rhodesmill.org/brandon>>

* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>

* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>

* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>

* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>

- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield
- <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<https://dbrgn.ch/>>
 - * Disabled TLS compression by default on Python 3.2+
 - * Disabled TLS compression in pyopenssl contrib module
 - * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 - * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
 - * Use the platform-specific CA certificate locations

- * Josh Schneier <<https://github.com/jschneier>>
 - * HTTPHeaderDict and associated tests and docs
 - * Bugfixes, docs, test coverage

- * Tahia Khan <<http://tahia.tk/>>
 - * Added Timeout examples in docs

- * Arthur Grunseid <<https://grunseid.com>>
 - * source_address support and tests (with <https://github.com/bui>)

- * Ian Cordasco <graffatcolmingov@gmail.com>
 - * PEP8 Compliance and Linting
 - * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
 - * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
 - * Google App Engine documentation

- * Aaron Meurer
<asmeurer@gmail.com>
 - * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
 - * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
 - * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
 - * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
 - * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>

- * Implemented generator for getting chunks from chunked responses.
- * tlynn <<https://github.com/tlynn>>
 - * Respect the warning preferences at import.
- * David D. Riddle <ddriddle@illinois.edu>
 - * IPv6 bugfixes in testsuite
- * Thea Flowers <magicalgirl@google.com>
 - * App Engine environment tests.
 - * Documentation re-write.
- * John Krauss <<https://github.com/talos>>
 - * Clues to debugging problems with `cryptography` dependency in docs
- * Disassem <<https://github.com/Disassem>>
 - * Fix pool-default headers not applying for url-encoded requests like GET.
- * James Atherfold <jlatherfold@hotmail.com>
 - * Bugfixes relating to cleanup of connections during errors.
- * Christian Pedersen <<https://github.com/chripede>>
 - * IPv6 HTTPS proxy bugfix
- * Jordan Moldow <<https://github.com/jmoldow>>
 - * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 - * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 - * Creation of ``HTTPConnectionPool.ResponseCls``.
- * Predrag Gruevski <<https://github.com/obi1kenobi>>
 - * Made cert digest comparison use a constant-time algorithm.
- * Adam Talsma <<https://github.com/a-tal>>
 - * Bugfix to ca_cert file paths.
- * Evan Meagher <<https://evanmeagher.net>>
 - * Bugfix related to `memoryview` usage in PyOpenSSL adapter
- * John Vandenberg <jayvdb@gmail.com>
 - * Python 2.6 fixes; pyflakes and pep8 compliance
- * Andy Caldwell <andy.m.caldwell@gmail.com>
 - * Bugfix related to reusing connections in indeterminate states.
- * Ville Skytt <ville.skytta@iki.fi>
 - * Logging efficiency

improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>

* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>

* Various character-encoding fixes/tweaks

* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>

* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>

* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>

* History list to Retry object.

* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>

* Ensure timeouts are not booleans and greater than zero.

* Fixed infinite loop in ``stream`` when amt=None.

* Added length_remaining to determine remaining data to be read.

* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>

* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>

* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>

* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>

* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>

* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>

* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>

* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>

* Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

1.194 python-certifi 2019.11.28

1.194.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

1.195 gts 0.7.6+darcs121130-4

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CAST128

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DES

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MD4

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MD5

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SHA224, SHA256, SHA384, and SHA512

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```

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1.204 apt 2.0.6

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1.205 glib 2.64.6-1~ubuntu20.04.4

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1.206 networkd-dispatcher 2.1-

2~ubuntu20.04.1

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1.207 libaudit 1:2.8.5-2ubuntu6

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1.208 pcre 2:8.39-12build1

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This is Debian GNU/Linux's prepackaged version of the PCRE regular expression library and associated pgrep utility.

This package was put together by me, Mark Baker <mbaker@iee.org> from the original sources obtained from <ftp.csx.cam.ac.uk:/pub/software/programming/pcre>.

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

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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@macro copyrightend{ }  
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@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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1.213 python3-requests-unixsocket 0.2.0-2

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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

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

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

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

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

the same as in the ordinary license.

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

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

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

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

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

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

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

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

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

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

(independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

a) The modified work must itself be a software library.

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length),

then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License.

You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b)

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary.

Here is a sample; alter the names:

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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!

1.219 python-gi 3.36.0-1

1.219.1 Available under license :

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

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This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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

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

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

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

the library.

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

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

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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(which use some of those functions and data) to form executables.

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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1.220 libdconf1 0.36.0-1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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1.222 libasnheimdal 7.7.0+dfsg-1ubuntu1

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```
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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{  
@end macro
```

```
@macro copyrightend{  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
```

```
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```

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GSS-API mechglue layer.

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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c

lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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

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1.230 packagekit-tools 1.1.13-2ubuntu1.1

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```
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```

```
@vskip 20pt plus 1fil
```

```
@end macro
```

```
@macro copyrightstart{ }
```

```
@end macro
```

```
@macro copyrightend{ }
```

```
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top
```

```
@comment node-name, next, previous, up
```

```
@appendix Copyrights and Licenses
```

```
@heading Kungliga Tekniska Hgskolan
```

```
@copyrightstart
```

```
@verbatim
```

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@table

@asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libcrypto

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D3DES (V5.09) -

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

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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Files: *

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1.236 python-pkg-resources 45.2.0-1

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1.237 libnghttp2-14 1.40.0-1build1

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```
set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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```

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1.238 libjson-c4 0.13.1+dfsg-7ubuntu0.3

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1.239 dbus-user-session 1.12.16-2ubuntu2.1

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<signature of Ty Coon>, 1 April 1989
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@macro copyrightend{ }

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@comment node-name, next, previous, up

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libhcrypto

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GSS-API mechlue layer.

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@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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DES core in libcrypto

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D3DES (V5.09) -

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

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,

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Windows support

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1.245 python3-certifi 2019.11.28-1

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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GSS-API mechglue layer.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test_dh.c

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1.247 gnutls 3.6.13-2ubuntu1.6

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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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There are many others who have contributed patches; we thank them,
GTK+ is much better because of them.

Over time, GTK+ has incorporated some pieces of software which

started as independent projects. We list the original authors here:

MS-Windows theme engine

Raymond Penners

Dom Lachowicz

Pixbuf theme engine

Owen Taylor

IME input method

Takuro Ashie

Kazuki IWAMOTO

Mac OS X backend

Anders Carlsson

DirectFB backend

Denis Oliver Kropp

Sven Neumann

Mike Emmel

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tests/testnouiprint.c

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1.253 libgtk 2.24.32-4ubuntu4

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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1.262 libsodium23 1.0.18-1

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1.263 xkb-data 2.29-2

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1.264 librabbitmq4 0.10.0-1

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1.265 libdbi1 0.9.0-5

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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

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

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

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

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

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

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

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

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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.

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

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

a)

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

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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1.266 libssh 0.9.3-2ubuntu2.2

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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

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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.

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

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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.

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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.)

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.

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

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a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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

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

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1.272 mcript 2.5.8-3.4

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The

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1.275 libjansson4 2.12-1build1

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1.277 libdbusmenugtk

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1.278 libjson-glib-common 1.4.4-2ubuntu2

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1.284 libsoup-gnome 2.70.0-1

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wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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Jereme Haack on behalf of Brandon Carpenter

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1.286 libodbc1 2.3.6-0.1build1

1.286.1 Available under license :

/*****

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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.

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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.)

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

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- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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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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1.293 libcolor2 1.4.4-2

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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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.

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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- a) Accompany the work with the complete corresponding machine-readable

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

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

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

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

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1.296 libhunspell-1.7-0 1.7.0-2build2

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*

* An almost complete rewrite of MySpell for use by
* the Mozilla project has been developed by David Einstein
* (Deinst@world.std.com). David and I are now
* working on parallel development tracks to help
* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.

*

* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
* and fixed numerous problems with the encoding
* case conversion tables.

*

*/

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Version 2.1, February 1999

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1.301 pam 1.3.1-5ubuntu4.3

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1.302 zeromq 4.3.2-2ubuntu1

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wepoll - epoll for Windows
<https://github.com/piscisaureus/wepoll>

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```
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```
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1.311 nip2 8.7.0-1

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Mesa 3-D graphics library

Version: 7.0

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- * Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes
Original author of sensord.
- * Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
- * Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

1.319 libsensors-config 3.6.0-2ubuntu1

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

- * Frodo Looijaard
Original author of libsensors, sensors-detect, sensors and isadump.
- * Merlin Hughes
Original author of sensord.
- * Bob Schlaermann
Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
- * Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.
- * Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
Configuration file converter.
Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

1.320 liborc 0.4.31-1

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This package was debianized by Sebastian Drge <slomo@debian.org> on
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The hypothetical commands

```
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```
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Any

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Files: *

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```

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Any

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1.328 python3-talloc 2.3.1-0ubuntu0.20.04.1

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Files: *

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1.332 fonts-droid-fallback 6.0.1r16-1.1

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* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_exec_unix.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client_example.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_exec_win.c
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_server.h
* /ijs-0-35-orig-1-tar-gz/ijs-0.35/ijs_client.h

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IJS 0.35

News as of 0.35:

11 Feb 2004

The autoconf build system has been moderized and we now use
libtool for portable shared library building. Thanks to Roger
Leigh for helping with that.

Also a bug with ColorSpace field was corrected, thanks to David
Suffield.

News as of 0.34:

22 Apr 2002

The source files now have official MIT license banners. Thanks to www.opensource.org for hosting the ur-text of this license. Also some clarifications on namespace management in the spec.

There is now an IJS website, graciously hosted by linuxprinting.org.
<http://www.linuxprinting.org/ijs/>

There have been some minor improvements in the makefile.

News as of 0.33:

The buffer size has been increased to 4096. It should probably be dynamically allocated, though. Minor clarification in BitsPerSample language in spec (thanks to Jackie Chang for pointing out the ambiguity).

News as of 0.32:

The xres and yres fields of ph are now floats.

The example server now supports margins. A few small bugs have been cleaned up as well.

News as of 0.31:

A number of small cleanups in the code. The example client and server support more querying and enumeration, but not yet margins.

There is a new API for the client to query the negotiated version number.

The `ijs_exec_unix` module now sets the SIGPIPE signal to ignore. This way, if the client abnormally exits, it allows the error to propagate through the `read()` or `write()` call to the pipe, rather than immediately killing the client.

News as of 0.30:

It now builds as a library. Also, there is basic autoconf support (but not automake or libtool). It's probably best to link the static library for now. I'm open to suggestions - I'm open to drinking the entire pitcher of auto* Kool-Aid, but we probably won't use libtool in Ghostscript builds.

This release fixes a number of bugs and improves portability. In particular, server errors should now bubble up to the client, and the termination logic has been patched according to David Suffield, who discovered a race condition there. Thanks to David and Russell for patches.

The spec is now in a reasonable draft. See `ijs_spec.sgml` and `ijs_spec.pdf`. Comments and suggestions are welcome.

The example client and server have `_not_` yet been updated to use the newer features of the ijs spec. Patches are welcome.

News as of 0.29:

I've added a number of things discussed on the mailing list, including listing and enumerating parameters, as well as a job abstraction. The client interface has changed a bit - job id's are now present in most callbacks, colorspace is now presented only as a string, and there are quite a few more callbacks.

I've started a skeleton of a protocol spec in DocBook.

Note, there's a potential race condition in EXIT noted by David Suffield. The fix hasn't yet been merged in from his work.

News as of 0.2:

This version integrates `set_param` and `get_param`, and has moved the "page header" processing to use `set_param`.

Also, there are both Windows (MS VC++) and Unix makefiles. Use "make -f unix.mak" to build on Unix. Thanks to Russell Lang for Windows portability work.

Introduction

This is an early snapshot of IJS. I expect the protocols and API's to evolve somewhat, and things like error handling are still far from perfect. However, I'm pretty happy that this is going in the right direction.

I am doing this prerelease so that authors of various packages related to raster-based printing can start thinking about how to integrate it. Ideally, all producers of printable raster data should be able to function as an ijs client, and all consumers should be able to

function as an ijs server. This release is about as functional as piping pnm's, which is primitive, but the way a lot of drivers still work.

What is IJS?

IJS is, first and foremost, a protocol for transmission of raster page images. This snapshot provides a reference implementation of the protocol, the design of which is still in flux. When the protocol specification is published, it will be authoritative. Applications should feel free to link against the library provided in this package, adapt that code for their own needs, or roll a completely new implementation.

The protocol is a fairly traditional client-server design. In general, the client sends one or more page images to the server, along with various metadata. Communication is through simple "commands", which are essentially size-prefixed packets. The client sends a command to the server, then waits for a response command, either ACK or NAK.

The server "speaks" IJS through stdin and stdout. One consequence of this design decision is that the server can be invoked remotely, for example through ssh. It's not clear yet how useful this will be, but at least people can experiment with it.

Currently, all data goes through the stdin and stdout pipes. It is envisioned that a shared memory transport will also be provided, transparently. IJS will fall back to pipes if shared memory is not available for any reason.

I'm not yet convinced that the performance win for shared memory is significant. I would like to benchmark domain sockets as well, as they are likely to provide better performance than pipes, and are also highly desirable for cases where the server runs as a persistent daemon.

This tarball provides an "IJS library" in the form of `ijs`, `ijs_client`, and `ijs_server`. It also provides an example client (capable of reading `pnmraw` files) and an example server (capable of generating PostScript). I imagine that the example programs will be useful for development and testing, but that end-users probably won't find a need for them.

To try IJS, compile and run `./ijs_client_example -s ./ijs_server_example -pOutputFile=/tmp/tmp.ps foo.ppm`. This will

invoke `./ijs_server_example`, which will in turn generate a `/tmp/tmp.ps` file.

The `ijs_client_example` takes a `-p` command line argument for setting parameters, and a `-r` argument for setting resolution. Here is a typical command line:

```
./ijs_client_example -s ./ijs_server_example -pOutputFile=/tmp/tmp.ps \  
-r300 in.ppm
```

The syntax of `-p` is a sequence of `key=value` pairs, separated by commas. A backslash in the value escapes the next character (allowing embedded commas in the value). Thus, `'-pfoo=bar, quux=a\b'` sets the key "foo" to the value "bar, and the key "quux" to the value "a,b".

FAQ

What does IJS stand for?

It stands for "raster printer driver architecture." It's spelled U+30EA U+13DA, to avoid confusion, and to save space in UTF-16 encodings.

Actually, the name derives from HPIJS, which presumably stands for HP InkJet Server. The name pays homage to HPIJS for the inspiration, while communicating that it's not specific to HP printers.

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More stuff to write:

Actual specification for the protocol (in draft).

Client spawns server,
invoker invokes client and server, and
persistent server daemon modes.

Negotiation of extensions (goal is interoperability between versions).
(Actually, the PING/PONG protocol as it exists negotiates version numbers).

TODO:

Shared memory transport.

Should have an alternate mode in which the client is passed the pipe information, rather than having to spawn the server.

wait() cleanup of invoked server.

Package library up as libijs.a, .so (partially done)

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dnl Process this file with autoconf to produce a configure script.

dnl MAKING RELEASES (a step-by-step guide!)

dnl =====

dnl

dnl Since the last release:

dnl 1. if only source code (not the interface) has changed, set

dnl IJS_MICRO_VERSION += 1;

dnl IJS_INTERFACE_AGE += 1;

```

dnl 2. if any functions have been added, removed, or changed, set
dnl   IJS_INTERFACE_AGE = 0;
dnl   IJS_CURRENT_INTERFACE += 1;
dnl 3. if interfaces have been added, set
dnl   IJS_BINARY_AGE += 1;
dnl 4. if interfaces have been removed, set
dnl   IJS_BINARY_AGE = 0;
dnl
dnl For more detailed information, see the libtool info documentation.
dnl
pushdef([IJS_NAME],      [ijs])
pushdef([IJS_MAJOR_VERSION],
        [0])
pushdef([IJS_MINOR_VERSION], [35])
pushdef([IJS_EXTRA_VERSION],  [])
pushdef([IJS_CURRENT_INTERFACE], [1])
pushdef([IJS_INTERFACE_AGE],  [1])
pushdef([IJS_BINARY_AGE],     [0])
pushdef([IJS_VERSION], IJS_MAJOR_VERSION.IJS_MINOR_VERSION[IJS_EXTRA_VERSION])

```

```

AC_INIT(IJS_NAME, IJS_VERSION, [inkjet-list@linuxprinting.org])
AC_PREREQ(2.53)
AC_CONFIG_SRCDIR(ijs.c)
AC_REVISION($Revision: 1.4 $)

```

```

dnl In the following script, there are a the following variants
dnl of ijs cflags and libs variables
dnl
dnl IJS_CFLAGS: cflags for compiling libraries and example progs
dnl IJS_LIBS:  libraries for linking programs. ONLY to be used
dnl           to generate ${ijs_libs}
dnl IJS_DEPLIBS: libraries for linking libraries against
dnl ijs_cflags: cflags to store in ijs-config
dnl ijs_libs:   libs to store in ijs-config
dnl LIBIJS_LIBS libs to link programs IN THIS PACKAGE ONLY against

```

```

dnl initial default values
IJS_LIBS="-lijs"

```

```

[IJS_MAJOR_VERSION]=IJS_MAJOR_VERSION
[IJS_MINOR_VERSION]=IJS_MINOR_VERSION
[IJS_EXTRA_VERSION]=IJS_EXTRA_VERSION

```

```

[IJS_CURRENT_INTERFACE]=IJS_CURRENT_INTERFACE
[IJS_INTERFACE_AGE]=IJS_INTERFACE_AGE
[IJS_BINARY_AGE]=IJS_BINARY_AGE
[IJS_VERSION]=IJS_VERSION
popdef([IJS_MAJOR_VERSION])

```

```
popdef([IJS_MINOR_VERSION])
popdef([IJS_EXTRA_VERSION])
popdef([IJS_CURRENT_INTERFACE])
popdef([IJS_INTERFACE_AGE])
popdef([IJS_BINARY_AGE])
```

```
dnl
```

```
Initialize automake stuff.
```

```
AM_INIT_AUTOMAKE(IJS_NAME, IJS_VERSION)
popdef([IJS_NAME])
popdef([IJS_VERSION])
```

```
AC_SUBST(IJS_MAJOR_VERSION)
AC_SUBST(IJS_MINOR_VERSION)
AC_SUBST(IJS_CURRENT_INTERFACE)
AC_SUBST(IJS_INTERFACE_AGE)
AC_SUBST(IJS_BINARY_AGE)
AC_SUBST(IJS_VERSION)
```

```
dnl libtool versioning
```

```
LT_RELEASE=$IJS_MAJOR_VERSION.$IJS_MINOR_VERSION
LT_CURRENT=$IJS_CURRENT_INTERFACE
LT_REVISION=$IJS_INTERFACE_AGE
LT_AGE=$IJS_BINARY_AGE
AC_SUBST(LT_RELEASE)
AC_SUBST(LT_CURRENT)
AC_SUBST(LT_REVISION)
AC_SUBST(LT_AGE)
```

```
dnl Specify a configuration file.
```

```
dnl AM_CONFIG_HEADER(config.h)
```

```
dnl Set up libtool scripts.
```

```
dnl
```

```
Disable shared library building to speed up the build
```

```
AC_DISABLE_SHARED
AM_PROG_LIBTOOL
AC_SUBST(LIBTOOL_DEPS)
```

```
dnl Checks for programs
```

```
AC_PROG_CC
AM_PROG_CC_STDC
AM_PROG_LIBTOOL
AC_SUBST(LIBTOOL_DEPS)
AC_ISC_POSIX
AC_PROG_INSTALL
```

```

AC_PATH_PROG(DB2PS, db2ps)
if test x${DB2PS} = x ; then
  AC_MSG_WARN([PostScript documentation cannot be generated!])
fi
AC_SUBST(DB2PS)
AC_PATH_PROG(PS2PDF, ps2pdf)
if test x${PS2PDF} = x ; then
  AC_MSG_WARN([PDF documentation cannot be generated!])
fi
AC_SUBST(PS2PDF)

```

dnl conditional building

```

case ${host_os} in
  cygwin | mingw32 | pw32 | interix3 | interix | uwin) libijs_sysdeps="windows";;
  *) libijs_sysdeps="unix";;
esac
AM_CONDITIONAL(SYSDEPS_WINDOWS, test x$libijs_sysdeps = xwindows)

```

dnl config.status substitutions

```

AC_SUBST(IJS_CFLAGS)
AC_SUBST(IJS_LIBS)
AC_SUBST(IJS_DEPLIBS)
AC_SUBST(IJS_VERSION)
AC_SUBST(ijs_cflags)
ijs_libs="${IJS_LIBS} ${IJS_DEPLIBS}"
AC_SUBST(ijs_libs)
AC_SUBST(INCLUDES)
LIBIJS_LIBS="${LIBIJS_LIBS} ${IJS_DEPLIBS}"
AC_SUBST(LIBIJS_LIBS)

```

dnl

```

output files and headers
AC_CONFIG_FILES([Makefile])
AC_CONFIG_FILES([ijs-config], [chmod +x ijs-config])
AC_CONFIG_FILES([ijs.pc])
AC_OUTPUT

```

Found in path(s):

* /ijs-0-35-orig-1-tar-gz/ijs-0.35/configure.ac

1.334 libpaper-utils 1.1.28

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## Commands to generate dependency files
```

```

GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp

```

```

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\s^\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
## End BSD-specific setup
```

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src/include/snowball/libstemmer/ are taken directly from the Snowball files,
with only some minor adjustments of file inclusions.
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1.341 postgresql-12 12.9-0ubuntu0.20.04.1

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1.342 python 3.8.2-0ubuntu2

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

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

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

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0.9.0 thru 1.2	1991-1995	CWI	yes	
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes

2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009		
	PSF	yes		
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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- * Slicing support for repeated scalar fields for the Python API.

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- * Detect unordered_map in stl_hash.m4.

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- * gzip/zlib I/O support.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization code when writing a small message to a stream.
- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
- * Fix bug with permanent callbacks that delete themselves when run.

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- * Fixed detection of sched_yield on Solaris.
- * Added atomicops for Solaris

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- * Fixed minor IBM x1C compiler build issues
- * Added atomicops for AIX (POWER)

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1.347 php-maxminddb 1.11.0- 2+ubuntu20.04.1+deb.sury.org+3

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Samba Unix SMB/CIFS implementation.

Samba trivial allocation library - new interface

NOTE: Please read `talloc_guide.txt` for full documentation

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1.355 php-vips 1.0.12- 2+ubuntu20.04.1+deb.sury.org+3

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1.357 php-solr 2.5.1+2.4.0-

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Omar Shaban (omars@php.net)
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- Lead Maintainer
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Thanks to all our [contributors](https://github.com/php/pecl-search_engine-solr/graphs/contributors).

=====
These are the people that made version 1.0 release of the Apache Solr PECL extension possible.

If I have left anyone out or mis-stated your contributions, please let me know so that
it can be correct to reflect your contributions accurately.

Thanks again for making this possible.

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Israel Ekpo (iekpo@php.net)
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- Original Author of the Apache Solr PECL extension
- Original Extension Concept and Design
- Lead Maintainer
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Pierre-Alain Joye (pajoye@php.net)
=====

- Fine tuned and created the final version of the config.w32 script (291135)
- Compiled and made available several versions of the .dll binaries for Windows.
- Currently hosting the windows .dll binaries for the Apache Solr PECL extension.
=====

Kalle Sommer Nielsen (kalle@php.net)
=====

- Significant refactoring of the config.w32 script for Windows (288890)
- Corrected Windows C++ compiler bugs (288890)
=====

Pierrick Charron (pierrick@php.net)
=====

- Assisted in the testing of the extension using various test cases.
- Uncovered and reported several bugs due to his insight of the extension internals.
- Discovered bugs 16943 and 16924
- Patched the config.w32 for its first successful compilation on Windows (291101).

=====

Felipe Pena (felipe@php.net)

=====

- Participated significantly after the initial release and uncovered a serious bug that led to segfaults.
- Discovered bugs 16855 thru 16859
- Contributed to development of UNIX config.m4 script (289148)

=====

Alex Samorukov (alexey.samorukov@varien.com)

=====

- Lowered minimum supported version for libcurl to 7.15.0
- Lowered minimum supported version for libxml2 to 2.6.26

=====

(trevor at blubolt dot com, max at blubolt dot com)

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- Fixed PECL Bug# 17172 MoreLikeThis only parses one doc

1.358 php-inotify 3.0.0+0.1.6- 2+ubuntu20.04.1+deb.sury.org+3

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1.362 kmod 27-1ubuntu2

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1.364 popt 1.16-14

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base/gsm5.h

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Version 3, 19 November 2007

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1.369 libmysqlclient 8.0.28

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* Fix compiler to not make output executable.
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- * Tru64 support.

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- * Solaris 10 + Sun Studio fixes.

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Brian Olson <brianolson@google.com>

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- * HPUX support.

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- * Detect whether zlib is new enough in configure script.
- * Fixes for Solaris 10 32/64-bit confusion.

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- * Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- * Clean up some Java warnings.
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- * Added atomicops for Solaris

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- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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MySQL 8.0

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dtoa.c

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Facebook Fast Checksum Patch

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Google Controlling Master Thread I/O Rate Patch

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Google SMP patch

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jemalloc

jemalloc

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Kerberos5

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c

lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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memcached

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nt_servc (Windows NT Service class library)

Windows NT Service class library

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Digit secondaries: 015F..0192 (52)
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@version 5.2.0

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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Upstream-Contact: Tobias Oetiker <tobi@oetiker.ch>

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1.377 python-apt-common

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1.380 base-files 11ubuntu5.5

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The End

1.381 libmysqlclient21 8.0.28- Oubuntu0.20.04.3

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- * Fixed minor IBM xLC compiler build issues
- * Added atomicops for AIX (POWER)

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Facebook Fast Checksum Patch

Facebook Fast Checksum Patch

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Google Controlling Master Thread I/O Rate Patch

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Google Perftools (TCMalloc utility)

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Google SMP patch

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jemalloc

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c

lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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libunwind

libunwind

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memcached

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```
# unidata-5.2.0.txt
# Date: 2009-09-22, 16:23:42 PDT [KW]
#
# This file defines the Default Unicode Collation Element Table
# (DUCET) for the Unicode Collation Algorithm
#
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# For terms of use, see http://www.unicode.org/terms\_of\_use.html
#
# See UTS #10, Unicode Collation Algorithm, for more information.
#
# Diagnostic weight ranges
# Primary weight range: 0200..3ACA (14539)
# Secondary weight range: 0020..0192 (371)
# Variant secondaries: 0159..015E (6)
# Digit secondaries: 015F..0192 (52)
# Tertiary weight range: 0002..001F (30)
#
@version 5.2.0
```

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=====

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Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

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1.386 php-gnupg 1.5.1- 1+ubuntu20.04.1+deb.sury.org+10

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1.388 php-ast 1.0.16-

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1.397 php-mailparse

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* Tim Martin

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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3449 Martha Ct.
Arcata, CA 95521-4884

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Date: Sat, 08 Jul 2000 20:27:21
+0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 50 level includes Brian's frequency class 1, words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I don't think can be copyrighted.

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The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is in the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words from the YAWL package, and the 10,196 places list from the MWords package.

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1.409 openslide 3.4.1+dfsg-4

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1.410 libvips42 8.9.1-2

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1.411 libtidy5deb1 5.6.0-11

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1.418 libcdt5 2.42.2-3build2

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Omar Shaban (omars@php.net)

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- Lead Maintainer
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Thanks to all our [contributors](https://github.com/php/pecl-search_engine-solr/graphs/contributors).

=====
These are the people that made version 1.0 release of the Apache Solr PECL extension possible.

If I have left anyone out or mis-stated your contributions, please let me know so that it can be correct to reflect your contributions accurately.

Thanks again for making this possible.

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Israel Ekpo (iekpo@php.net)

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- Original Author of the Apache Solr PECL extension
- Original Extension Concept and Design
- Lead Maintainer

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Pierre-Alain Joye (pajoye@php.net)
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- Fine tuned and created the final version of the config.w32 script (291135)
- Compiled and made available several versions of the .dll binaries for Windows.
- Currently hosting the windows .dll binaries for the Apache Solr PECL extension.

=====
Kalle Sommer Nielsen (kalle@php.net)
=====

- Significant refactoring of the config.w32 script for Windows (288890)
- Corrected Windows C++ compiler bugs (288890)

=====
Pierrick Charron (pierrick@php.net)
=====

- Assisted in the testing of the extension using various test cases.
- Uncovered and reported several bugs due to his insight of the extension internals.
- Discovered bugs 16943 and 16924
- Patched the config.w32 for its first successful compilation on Windows (291101).

=====
Felipe Pena (felipe@php.net)
=====

- Participated significantly after the initial release and uncovered a serious bug that led to segfaults.
- Discovered bugs 16855 thru 16859
- Contributed to development of UNIX config.m4 script (289148)

=====
Alex Samorukov (alexey.samorukov@varien.com)
=====

- Lowered minimum supported version for libcurl to 7.15.0
- Lowered minimum supported version for libxml2 to 2.6.26

=====
(trevor at blubolt dot com, max at blubolt dot com)
=====

- Fixed PECL Bug# 17172 MoreLikeThis only parses one doc
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1.429 libgvc6 2.42.2-3build2

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1.431 libsybdb5 1.1.6-1.1

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1.434 libpathplan 2.42.2-3build2

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1.435 libcgraph6 2.42.2-3build2

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1.436 php8.0-vips 1.0.12- 2+ubuntu20.04.1+deb.sury.org+3

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

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

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DRuntime: Runtime Library for the D Programming Language

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and valid for as

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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.

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

Preamble

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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.

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a.

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

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1.440 firebird3.0-common 3.0.5.33220.ds4-1build2

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1.441 libgearman8 1.1.18+ds-3.1ubuntu1

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1.442 libpoppler-glib 0.86.1-0ubuntu1

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contribution to the Google C++ Testing Framework project. People

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here. Please keep the list sorted by first names.

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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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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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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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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the work with the complete corresponding

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

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

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

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

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

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

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

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

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1.473 php8.0-psr 1.2.0- 4+ubuntu20.04.1+deb.sury.org+10

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1.474 php8.0-memcache 8.0+4.0.5.2+3.0.9~20170802.e702b5f9+- 7+ubuntu20.04.1+deb.sury.org+10

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1.476 php8.0-oauth 2.0.7+1.2.3- 14+ubuntu20.04.1+deb.sury.org+10

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1.477 libpolkitagent 0.105-26ubuntu1.3

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1.484 php-memcached 3.1.5+2.2.0-14+ubuntu20.04.1+deb.sury.org+10

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1.486 php-rrd 2.0.3+1.1.3- 6+ubuntu20.04.1+deb.sury.org+10

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1.487 php-gmagick 2.0.6~rc1+1.1.7~rc3-10+ubuntu20.04.1+deb.sury.org+10

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1.488 php-zmq 1.1.3-

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1.489 php-psr 1.2.0-

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1.490 php-memcache

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1.494 libc 2.31-0ubuntu9.7

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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If 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

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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.

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A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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If 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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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Any executables

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the

major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

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

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

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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

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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.
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1.512 apache2-data 2.4.41-4ubuntu3.10

1.512.1 Available under license :

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This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).

This version includes the mapping algorithms found in version 1.3 of imagemap.c.

.
Contributors to this code include:

.
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.
Eric Haines, erich@eye.com

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.
Randy Terbush, randy@zyzzyva.com

port to Apache module format, "base_uri" and support for relative URLs

.
James H. Cloos, Jr., cloos@jhcloos.com

Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.

The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

.
Nathan Kurz, nate@tripod.com

Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:

ImapMenu { none, formatted, semiformatted, unformatted }

ImapDefault {error, nocontent, referer, menu,
URL }

ImapBase {map, referer, URL }

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x,y ...]

New: directive URL "Menu text" [x,y ...]

or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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. For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.

- Command-line flags have been removed since they will never be used here.

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Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

.
Initial installation July/August 1996
Misc bug fixes May 1997
Submission
to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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

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1.515 apacheutils 2.4.41-4ubuntu3.10

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
```


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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
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class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br
/>This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the
documentation or server, and may be removed again by our moderators if they are either implemented or considered
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<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
//--><![></script></div><div id="footer">
<p class="apache">Copyright 2019 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
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```

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* NCSA HTTPd Server
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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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

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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.

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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

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

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

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

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1.518 php8.0-odbc 8.0.17-

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

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

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.

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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.

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

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

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

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

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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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Ty Coon, President of Vice

That's all there is to it!
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1.524 apache-http-server 2.4.41-4ubuntu3.10

1.524.1 Available under license :

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License: PCRE

This is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. See the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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License: MD5

NCSA HTTPd Server

Software Development Group
National Center for Supercomputing Applications
University of
Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL 61820
httpd@ncsa.uiuc.edu

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md5.c: NCSA HTTPd code which uses the md5c.c RSA Code

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Haines

This imagemap module started as a port of the original imagemap.c written by Rob McCool (11/13/93 robm@ncsa.uiuc.edu).

This version includes the mapping algorithms found in version 1.3 of imagemap.c.

.

Contributors to this code include:

.

Kevin Hughes, kevinh@pulua.hcc.hawaii.edu

.

Eric Haines, erich@eye.com

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.

Randy Terbush, randy@zyzzyva.com

port to Apache module format, "base_uri" and support for relative URLs

.

James H. Cloos, Jr., cloos@jhcloos.com

Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.

The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

.

Nathan Kurz, nate@tripod.com

Rewrite/reorganization. New handling of default, base and relative URLs.

New Configuration directives:

ImapMenu {none, formatted, semiformatted, unformatted}

ImapDefault {error, nocontent, referer, menu,
URL}

ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):

Old: directive URL [x,y ...]

New: directive URL "Menu text" [x,y ...]

or: directive URL x,y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ualgary.ca.

.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.

- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.

Ian Klufft <iklufft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation July/August 1996
Misc bug fixes May 1997
Submission
to Apache Software Foundation July 1997

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.

C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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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.)

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

installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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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

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

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

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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

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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a) Accompany

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b) Use a suitable shared library mechanism for linking with the

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,

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

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

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

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

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

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

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

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

License.

Section 6 states terms for distribution of such executables.

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables

containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

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

a) Accompany the work with the complete corresponding machine-readable

source code for the Library including whatever

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

Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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3. You may opt to apply the terms of the ordinary GNU General Public

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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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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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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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work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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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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"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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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- 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.

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

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b) 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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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Version 2.1, February 1999

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Any executables

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

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

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

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

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

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

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

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- 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

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

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- 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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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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1.539 python3.8 3.8.10-0ubuntu1~20.04.4

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

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

All

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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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1.540 zlib1g 1:1.2.11.dfsg-2ubuntu1.3

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

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*/

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: zlib

Upstream-Contact: zlib@gzip.org

Source: <http://zlib.net/>

Comment: This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from <ftp.uu.net> in the directory </pub/archiving/zip/zlib> as the file [zlib-1.0.4.tar.gz](#).

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The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the

people who reported problems and suggested various improvements in zlib;
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Files-Excluded:

contrib/ada
contrib/amd64
contrib/asm686
contrib/blast
contrib/delphi
contrib/dotzlib
contrib/gcc_gvmat64
contrib/infbck9
contrib/inflate86
contrib/iostream
contrib/iostream2
contrib/iostream3
contrib/masmx64
contrib/masmx86
contrib/pascal
contrib/puff
contrib/testzlib
contrib/untgz
contrib/vstudio
doc/rfc1950.txt
doc/rfc1951.txt
doc/rfc1952.txt

Files: *

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Ty Coon, President of Vice

That's all there is to it!

1.553 xz 5.2.4-1ubuntu1.1

1.553.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <lasse.collin@tukaani.org>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

XZ Utils is developed and maintained upstream by Lasse Collin. Major portions are based on code by other authors; see AUTHORS for details. Most of the source has been put into the public domain, but some files have not (details below).

.

This file describes the source package. The binary packages contain

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.
If you have questions, don't hesitate to ask the author(s) for more information.

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.
[...]

.
> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,
> dos/README,
windows/README

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Files: `INSTALL NEWS PACKAGERS`

`windows/README-Windows.txt`

`windows/INSTALL-MinGW.txt`

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See the note on `AUTHORS, README`, and so on above.

Files: `src/scripts/* lib/* extra/scanzma/scanzma.c`

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Other-Authors: Paul Eggert, Ulrich Drepper

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Files: `src/scripts/Makefile.am src/scripts/xzless.1`

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Files: `lib/getopt.c lib/getopt1.c lib/getopt.in.h`

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Files: `m4/getopt.m4 m4/posix-shell.m4`

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Other-Authors: Bruno Haible, Paul Eggert

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Files: `m4/acx_pthread.m4`

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files: m4/ax_check_capsicum.m4

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Files: Doxyfile.in

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Origin: Doxygen 1.4.7

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Files: src/liblzma/check/crc32_table_?e.h

src/liblzma/check/crc64_table_?e.h

src/liblzma/lzma/fastpos_table.c

src/liblzma/rangecoder/price_table.c

Copyright: none, automatically generated data

Generated-With:

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src/liblzma/check/crc64_tablegen.c

src/liblzma/lzma/fastpos_tablegen.c

src/liblzma/rangecoder/price_tablegen.c

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Files: .gitignore m4/.gitignore po/.gitignore po/LINGUAS po/POTFILES.in

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changelog.gz (commit 975d8fd) explains:

.

Recreated the BCJ test files for x86 and SPARC. The old files were linked with crt*.o, which are copyrighted, and thus the old test files were not in the public domain as a whole. They are freely distributable though, but it is better to be careful and avoid including any copyrighted pieces in the test files. The new files are just compiled and assembled object files,

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Files: po/cs.po po/de.po po/fr.po

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Files: INSTALL.generic

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Files: dos/config.h

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Free Software Foundation, Inc.

2007-2010, Lasse Collin

Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

David Mackenzie, Bruno Haible, and many others.

Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

Autoconf 2.52g

License: config-h

configure.ac:

.

Author: Lasse Collin

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dnl From

Bruno Haible.

.
comments from Autoconf 2.52g:

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.
[...]

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.
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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.

Files: po/Makevars

Origin: gettext-runtime/po/Makevars (gettext-0.12)

Copyright: 2003 Free Software
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Authors: Bruno Haible

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The gettext-runtime package is under the LGPL, see files intl/COPYING.LIB-2.0
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gettext-runtime 0.12 can be found in /usr/share/common-licenses/LGPL-2
and the text of intl/COPYING.LIB-2.1 can be found in
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.
po/Makevars consists mostly of helpful comments and does not contain a
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1.555 python-six 1.14.0-2 all

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1.557 bash 5.0-6ubuntu1.2

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This package was put together by Matthias Klose <doko@debian.org>, from the following sources:

bash: <ftp.gnu.org:/pub/gnu/bash/bash-4.3.tar.gz>

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security/nss/tests/pkcs11/netscape/trivial/install-sh
toolkit/crashreporter/google-breakpad/autotools/install-sh

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Files:

network/dns/nameprep.c

network/dns/nameprepdata.c

network/dns/nameprep_template.c

network/dns/nsIDNKitInterface.h

network/dns/race.c

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netwerk/dns/punycode.h

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/System/Library/PrivateFrameworks/Apple80211.framework.

Files: netwerk/wifi/wlanapi.h

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gfx/cairo/libpixmap/src/pixmap-region.c

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dom/bluetooth/*
dom/camera/Gonk*
dom/system/gonk/*
gfx/skia/include/gpu/GrRenderTarget.h
gfx/skia/src/ports/FontHostConfiguration_android.*
hal/gonk/*
ipc/dbus/DBus*
media/libcubeb/src/android*
media/libcubeb/src/audiotrack_definitions.h
media/omx-plugin/*
mobile/android/*
network/sctp/src/LocalArray.h
network/sctp/src/ScopedFd.h
network/sctp/src/ifaddrs-android-ext.h
network/sctp/src/ifaddrs_android.cpp
testing/marionette/client/marionette/application_cache.py
testing/marionette/client/marionette/keys.py
testing/marionette/client/marionette/tests/unit/test_appcache.py
testing/marionette/client/marionette/tests/unit/test_rendered_element.py
testing/marionette/client/marionette/www/html5Page.html
testing/marionette/marionette-sendkeys.js
toolkit/devtools/gcli/gcli.jsm
toolkit/devtools/gcli/Templater.jsm
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gfx/thebes/gfxScriptItemizer.*

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media/mtransport/test/gtest_utils.h

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netwerk/sctp/src/netinet/sctp_userspace.c

netwerk/sctp/src/user_atomic.h

netwerk/sctp/src/user_environment.*

netwerk/sctp/src/user_rcv_thread.*

netwerk/sctp/src/user_sctp_timer_iterate.c

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media/libnestegg/src/align.h

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gfx/ots/*
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content/media/omx/mediaresourcemanager/IMediaResourceManagerDeathNotifier.h

dom/bluetooth/*

dom/camera/Gonk*

dom/system/gonk/*

gfx/skia/include/gpu/GrRenderTarget.h

gfx/skia/src/ports/FontHostConfiguration_android.*

hal/gonk/*

ipc/dbus/DBus*
media/libcubeb/src/android*
media/libcubeb/src/audiotrack_definitions.h
media/omx-plugin/*
mobile/android/*
network/sctp/src/LocalArray.h
network/sctp/src/ScopedFd.h
network/sctp/src/ifaaddrs-android-ext.h
network/sctp/src/ifaaddrs_android.cpp
testing/marionette/client/marionette/application_cache.py
testing/marionette/client/marionette/keys.py
testing/marionette/client/marionette/tests/unit/test_appcache.py
testing/marionette/client/marionette/tests/unit/test_rendered_element.py
testing/marionette/client/marionette/www/html5Page.html
testing/marionette/marionette-sendkeys.js
toolkit/devtools/gcli/gcli.jsm
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* use libjbig delegate under GPL-2+
* use libopenjpeg8 under BDS-3 like

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1.570 python-chardet 3.0.4-4build1 all

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Any executables

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1.571 libicu66/now 66.1-2ubuntu2.1

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
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## Commands to generate dependency files  
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)  
  
## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC
```

```

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION}_MAJOR: %.${SO}.${SO_TARGET_VERSION}

```

```
$(RM) $@ && ln -s ${<F} $@
%.(SO): %.(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
```

```
## Bind internal references
```

```
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
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1.578 lz4 1.9.2-2ubuntu0

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1.579 python3.8-minimal 3.8.10-0ubuntu1

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

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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Mersenne Twister

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

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

Before using, initialize the state by using `init_genrand(seed)`
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Any feedback is very welcome.

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

email: matsumoto@math.keio.ac.jp

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

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debug/remove_function_from_trace.pl
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debug/monty.doc
debug/user.r
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mysql-test/*
regex/*
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storage/ndb/test/run-test/atrt-gather-result.sh
storage/ndb/test/run-test/atrt-setup.sh

storage/ndb/test/run-test/make-config.sh
storage/ndb/test/run-test/make-html-reports.sh
storage/ndb/test/run-test/make-index.sh
storage/ndb/test/run-test/ndb-autotest.sh
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plugin/innodb_memcached/CMakeLists.txt
plugin/innodb_memcached/daemon_memcached/CMakeLists.txt
plugin/innodb_memcached/innodb_memcache/*
plugin/innodb_memcached/daemon_memcached/daemon/memcached_mysql.cc
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1.585 curl 7.68.0-1ubuntu2.12

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1.586 libcrypt 4.4.10-10ubuntu4

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1.587 libpam-cap 2.32-1

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1.594 scowl 2018.04.16-1

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This package was debianized by David Coe <davidc@debian.org>
on Sun, 15 Jun 2003.

SCOWL (Spell Checker Oriented Word Lists) is a collection of
English word lists maintained by Kevin Atkinson
<kevina@users.sourceforge.net>

It was downloaded from:
<http://prdownloads.sourceforge.net/wordlist/scowl-5.tar.gz>

SF project page:
<http://wordlist.sourceforge.net/>

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Alan Beale <biljir@pobox.com> also deserves special credit as he has,
in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
feedback and created a number of special lists (those found in the
Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to
the Moby (TM) Words II [MWords] package), a subset of the 1000 most
common words on the Internet (again, according to Moby Words II), and
frequently class 16 from Brian Kelk's "UK English Wordlist
with Frequency Classification".

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Grady Ward
3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list
is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

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The 40 level includes words from Alan's 3esl list found in version 4.0 of his 12dicts package. Like his other stuff the 3esl list is also in the public domain.

The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files from the Census report is a government document which I

don't think can be copyrighted.

The file special-jargon.50 uses common.lst and word.lst from the "Unofficial Jargon File Word Lists" which is derived from "The Jargon File". All of which is in the Public Domain. This file also contain a few extra UNIX terms which are found in the file "unix-terms" in the special/ directory.

The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

The 60 level includes all words appearing in at least 2 of the 12 dictionaries as indicated by the 12Dicts package.

The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dics package which is the public domain.

The 80 level includes the ENABLE word list, all the lists in the ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics Dictionary" (UKACD), the list of signature words in from YAWL package, and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>, is in the Public Domain:

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distributed as widely as possible.

The 95 level includes the 354,984 single words, 256,772 compound
words, 4,946 female names and the 3,897 male names, and 21,986 names
from the MWords package, ABLE.LST from the ENABLE Supplement, and some
additional words found in my part-of-speech database
that were not
found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and
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1.595 librest 0.8.1-1

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1.598 readline 8.0-4

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1.600 argon2 0~20171227-0.2

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