



Open Source Used In Cloud-Agent_OVA Cloud agent 2.4 version

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1.3 ssl-cert 1.0.39

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1.4 installation-report 2.62ubuntu1

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For the script usb-list:

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* /netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/netrc.5

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*

* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
* \$Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp \$
*/

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*

* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90

* \$Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp \$

*/

Found in path(s):

* /netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h

1.13 net-tools 1.60+git20180626.aebd88e-1ubuntu1

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1.16 xdg-user-dirs 0.17-2ubuntu1

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1.18 log-rotate 3.14.0-4ubuntu3

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1.21 coreutils 8.30-3ubuntu2

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1.22 mtr 0.93-1

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include/bsd/timeconv.h
include/bsd/vis.h
man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
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man/fmtcheck.3bsd

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man/strncpy.3bsd

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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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```

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```
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1.29 strace 4.26-0.2ubuntu3

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a

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```
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```

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```
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```

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1.31 linux-atm 2.5.1-4

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Version 2, June 1991

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*

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 */
```

1.35 xauth 1.1-0ubuntu1

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v``|||~l8l8l~`p0000v<f6f~ffff~<f<|6f|||000000~|~f<<f~00>33>||~6fx|~xx~ffx|~xx06fx""""UUUUwvwx0
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x|v`x|lffff||<lv||620x0000xv|x`lvffff<ff<`flxllf8<ffffff|fffff|`v|vf~~~~`8|0000006vl8ll888l~0`pppv8lUUUUUUU~
~~~<0`0~<~<ff<~<ff<l88l0~<~<ff?<ff<vl8v8l0``8l||8ld~~~~v|0`||ff<~<~<~<~<~<~<f<~<fsff<~<p8~vv~|~~~~  
``~0`~0ff<~<~<ff0X8lDl8~<ff<~<f<~<ffffff|`0~`~~~~~v~<||lxx<~0``00``000~<~<ff8ll88lfff|ffff<ff<lffffflfbhxb`bfb  
bhxbh`<ff:<<xflxllff~~~~bf|fff|~~~~|fff|lfff`8|~Z<|8ll|88|lffff<0`

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[illegible]

rJ

[illegible]

rJ ~vvn8||8> 8 pp<"<\$"> 8 DDDDDDDDUUUUUUUUwwwwwww >PP

[illegible]

## 1.37 libxext 1.3.4-0ubuntu1

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## 1.40 wget 1.20.3-1ubuntu1

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Version 3, 29 June 2007

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# 1.41 bsd-mailx 8.1.2-0.20180807cvs-1

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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 ...'.

.\n \$OpenBSD: mail3.nr,v 1.4 2004/06/04 00:04:54 jmc Exp \$

.\n

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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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 * 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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```

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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 dElinv

.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

Fl dElNnv

.Fl f

.Op Ar file

.Nm mail

.Op Fl dElNnv

.Op Fl 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 Fl b Ar list

Send blind carbon copies to

.Ar list .

.It Fl c Ar list

Send carbon copies to

.Ar list

of users.

.Ar list

should be a comma separated list of names.

.It Fl d

Causes

.Nm mail

to output all sorts of information useful for debugging

.Nm mail .

.It Fl E

Don't send messages with an empty body.

.It Fl 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 Fl 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 topline  
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

.Fl 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 topline  
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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.\" 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  
.i ed -\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\s0\*\*  
.(f  
\\*\* \s-1UNIX\s0 is a trademark of Bell Laboratories.  
.)f

shell, the text editor, and some of the common \s-2UNIX\s0 commands.

.q "The \s-2UNIX\s0 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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.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" 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 too 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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.\" 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.
.\"
.\" @(#)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 \fstring\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.

.\" \$OpenBSD: mail5.nr,v 1.6 2008/11/03 18:20:45 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.  
.\"  
.\" @(#)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\fR`.

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\fR`.

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 topline=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 \fBnot\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/ls\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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```

```
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```

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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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.\" SUCH DAMAGE.

.\"

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

.\"

.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

.)l

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

.)l

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

.)l

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 ...

.)l

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

.)l

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 `rmmsgs' to `rmmsgs -s' we would need to say:

.(l

alias rmmsgs "| rmmsgs -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.

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

## 1.42 make 4.2.1-1.2

### 1.42.1 Available under license :

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#

```

# For testing:
#
sub main::diag {
    warn join("", @_), "\n";
}

print join(" ", merge(
#print Data::Dumper -> Dump([
# merge(
#   qw(a b c d   h i j)), # ancestor
#   qw(a b c d f h i j)), # left
#   qw(a b c e g   ), # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6   8 a b)],
    [qw(0 1 2 3 5 8 a b)],
##
    {
        CONFLICT => sub ($$) { (
            q{<}, @{$$_[0]}, q{ }, @{$$_[1]}, q{>}
        ) },
    },
)), "\n";
#)], "\n";
#print join(" ", @{
#   [qw(0 1 @ < 3 | # > 6)]
#   }), "\n";

1;
__END__

1;

__END__

=head1 NAME

Algorithm::Merge - Three-way merge and diff

=head1 SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {

```

```

        CONFLICT => sub { }
    }, $key_generation_function);

$mmerged = merge(\@ancestor,
    \@a, \@b, {
        CONFLICT => sub { }
    });

$mmerged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(\@ancestor, \@a, \@b);

@diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

$diff = diff3(\@ancestor, \@a, \@b);

$diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

@trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
});

$trav = traverse_sequences3(\@ancestor, \@a, \@b, {
    # callbacks
}, $key_generation_function);

```

=head1 USAGE

This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation,  
 the first list to C<diff3>, C<merge>, and  
 C<traverse\_sequences3> is  
 called the `original' list. The second list is the `left' list. The  
 third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left:    a b d e f g i j k
right:   a b c d e h i j k

merge:   a b d e g i j k
```

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e',
  'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)  
l - left is different  
o - original is different  
r - right is different  
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```
q{<!-- ----- START CONFLICT ----- -->},
(@left),
q{<!-- ----- -->},
(@right),
q{<!-- ----- END CONFLICT ----- -->},
```

=head2 traverse\_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4

=item NO\_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A\_DIFF

This is called if the first sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not

in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B\_DIFF

This is called if the second sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C\_DIFF

This is called if the third sequence is different than the other two sequences at the current position.

This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the

current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly

there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <<http://rt.cpan.org/>>, the CPAN bug tracker.

L<Algorithm::Diff|Algorithm::Diff>'s implementation of C<traverse\_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse\_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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NAME

Algorithm::Merge - Three-way merge and diff

SYNOPSIS

use Algorithm::Merge qw(merge diff3 traverse\_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {

```

        CONFLICT => sub { }
    });

    @merged = merge(\@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    }, $key_generation_function);

    $merged = merge(\@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    });

    $merged = merge(\@ancestor, \@a, \@b, {
        CONFLICT => sub { }
    }, $key_generation_function);

    @diff = diff3(\@ancestor, \@a, \@b);

    @diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

    $diff = diff3(\@ancestor, \@a, \@b);

    $diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

    @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
        # callbacks
    });

    @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
        # callbacks
    }, $key_generation_function);

    $trav = traverse_sequences3(\@ancestor, \@a, \@b, {
        # callbacks
    });

    $trav = traverse_sequences3(\@ancestor, \@a, \@b, {
        # callbacks
    }, $key_generation_function);

```

## USAGE

This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse\_sequences3" is called the `original` list. The second list is the `left` list. The third list is the `right` list.



The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

### diff3

Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left:    a b d e f g i j k
right:   a b c d e h i j k

merge:   a b d e g i j k
```

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged
```

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

## merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{<!-- ----- START CONFLICT ----- -->},
(@left),
q{<!-- ----- -->},
(@right),
q{<!-- ----- END CONFLICT ----- -->},
```

## traverse\_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

### NO\_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

### A\_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding

elements.

#### B\_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

#### C\_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

#### CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

#### BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <[jsmith@cpan.org](mailto:jsmith@cpan.org)> or report it on <<http://rt.cpan.org/>>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse\_sequences" may not be

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#### SEE ALSO

Algorithm::Diff.

#### AUTHOR

James G. Smith, <jsmith@cpan.org>

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## 1.52 distlib 0.3.0

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A. HISTORY OF THE SOFTWARE  
=====

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

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

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

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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                 |
| 2.2            | 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                 |
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| 2.5            | 2.4          | 2006      | PSF        | yes                 |
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| 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                 |
| 2.6.5          | 2.6.4        | 2010      | 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 |
| 3.1.2 | 3.1   | 2010 | PSF | yes |
| 3.2   | 3.1   | 2010 | PSF | yes |

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=====

Distutils2 Contributors

=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,

and welcome into the Fellowship of the Packaging!

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <[niphlod@gmail.com](mailto:niphlod@gmail.com)>

- \* Client-verified SSL certificates for HTTPSPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
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- \* Return native strings in header values.
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- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
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- \* 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](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
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- \* Bugfixes
  
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- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto: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](mailto: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](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto: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]
- MIT

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# 1.61 fuse 2.9.9-3

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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.

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src/preproc/grn/gprint.h  
src/preproc/grn/hdb.cpp  
src/preproc/grn/hgraph.cpp  
src/preproc/grn/hpoint.cpp  
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in  
src/devices/xditview/Dvi.c  
src/devices/xditview/Dvi.h  
src/devices/xditview/DviP.h  
src/devices/xditview/FontMap  
src/devices/xditview/GXditview.ad  
src/devices/xditview/Menu.h  
src/devices/xditview/ad2c  
src/devices/xditview/device.c  
src/devices/xditview/device.h  
src/devices/xditview/draw.c  
src/devices/xditview/font.c  
src/devices/xditview/gray1.bm

src/devices/xditview/gray2.bm  
src/devices/xditview/gray3.bm  
src/devices/xditview/gray4.bm  
src/devices/xditview/gray5.bm  
src/devices/xditview/gray6.bm  
src/devices/xditview/gray7.bm  
src/devices/xditview/gray8.bm  
src/devices/xditview/gxditview.man  
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

-----

- . The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

- . The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meintro\_fr.me  
doc/meref.me

## Hyphenation Patterns

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- . The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of



the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames ``hyphen.<language>'`, e.g. ``hyphen.de'` or ``hyphen.uk'`.

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. The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphen.sv'` is identical to the file ``svhyph.tex'`, which can be found at

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Version 3, 29 June 2007

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```
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```

```
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## 1.72 lvm2 2.03.07-1ubuntu1

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

consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and

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

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

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

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

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

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

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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.
- 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  
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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.

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any

other library

facilities. This must be distributed under the terms of the Sections above.

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## 1.79 newt 0.52.21-4ubuntu2

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## Preamble

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

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

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

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

Finally, any free program is threatened constantly by software



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

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

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

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

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

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

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

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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

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

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

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

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

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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.

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

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

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

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.

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Date: Sun, 14 Aug 2011 15:47:09 +1000  
Message-ID: <CAHp8n2nmGN+G09aA118KN86NeX9yw\_VJAQNFZebm74k195zz+Q@mail.gmail.com>  
Subject: Re: Distributing the libogg RFCs in the Debian package  
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## 1.81 irqbalance 1.6.0-3ubuntu1

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"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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Thus, it is not the intent of this section to claim rights or contest



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

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

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To

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#### 1. Source Code.

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

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

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Any executables

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## 1.92 libcbor 0.6.0-Ubuntu1

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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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Section 6 states terms for distribution of such executables.

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

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

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

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## 1.96 grep 3.4-1

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```

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```

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

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```

Found in path(s):

```

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

```

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* 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.

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\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/INSTALL

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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
.\""
```

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*
* @(#)bitstring.h 5.2
.(Berkeley) 4/4/90
*/
```

Found in path(s):

\* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h

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```
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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
*/

```

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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.\" * 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-tar-gz/cron-3.0pl1.orig/crontab.1

```

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```

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# * Distribute freely, except: don't remove my name from the source or

```

Found in path(s):

```

* /cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile

```

# 1.101 libseccomp 2.4.3-1ubuntu1

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## 1.103 openssl 1.1.1f-1ubuntu2

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## 1.104 uitable 0.0.4

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Upstream-Contact: Anibal Monsalve Salazar <[anibal@debian.org](mailto:anibal@debian.org)>

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## 1.118 sed 4.7-1

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The End

## 1.124 ncurses 6.2-0ubuntu2

### 1.124.1 Available under license :

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](mailto:dickey@invisible-island.net)>

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-- vile:txtmode fc=72

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# 1.125 base-passwd 3.5.47

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Upstream-Contact: Colin Watson <cjwatson@debian.org>

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## 1.126 bzip2 1.0.8-2

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

## 1.127 cracklib 2.9.6-3.2

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[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=  
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists  
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly  
and see if he wants to relicense his code as LGPL... but at this point,  
it was enough to just get it consistent and documented as to what it was  
released under. This wasn't actually a license change, just a  
clarification of the licensing that was already in place.=20

-- Nathan

=20

-----  
Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

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

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under

> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan

wrote:

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

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

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

Re: [Cracklib-devel]

cracklib license

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

-- Nathan  
=20

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

- > -----Original Message-----
- > From: cracklib-devel-bounces@li...
- > [mailto:cracklib-devel-bounces@li...] On Behalf Of
- > Mike Frysinger
- > Sent: Monday, October 01, 2007 8:33 PM
- > To: Neulinger, Nathan
- > Cc: cracklib-devel@li...; Alec Muffett
- > Subject: Re: [Cracklib-devel] cracklib license
- > =20
- > On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec  
> directly  
> > and see if he wants to relicense his code as LGPL... but at this  
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> > it was enough to just get it consistent and documented as to what  
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> > released under. This wasn't actually a license change, just a  
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>=20  
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> not  
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> change until it was mentioned in the latest notes.  
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> unless their  
> applications are also GPL-2 which imo is just wrong. it isnt the  
> place of a  
> library  
to dictact to application writes what license they should  
> be using.  
> thus LGPL-2.1 enters to fill this void.  
> -mike

Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

I would like to see it under LGPL as well. I

think it is in everyone's

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

code, so whatever licensing y'all come up with is fine

> > by me.

>

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

>

> What I am hearing so far is that LGPL makes sense, since it can be

> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:  
> > > Seems like the ideal thing here would be for you and the other distro  
> > > maintainers to get together with Alec in a conversation and come to a  
> > > decision as to what licensing scheme y'all want. I haven't really done  
> > > much other than cleaning up the packaging and patches and a small  
> > > bit of  
> > > additional code, so whatever licensing y'all come up with is fine  
> > > by me.

> >

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

> >

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

>

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

>

> I'd also suggest the LGPL, for the reason you noted above. Alternately,  
> GPLv2 with the option of using

the library under a later version of the

> GPL would permit applications which were released under version 3 of the  
> GPL to use the library, too, which would be sufficient for the packages  
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

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

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

-mike

Re: [Cracklib-devel] cracklib license

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

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

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

Attachments: Message as HTML

On Sunday 05 October

2008, Alec Muffett wrote:

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

> >

> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we

> > make the change now ?

>

> yes. go for it. thanks++

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

-mike

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

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

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

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

-----  
From

alecm@crypticide.com Mon Oct 1 12:26:03 2007

Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500

Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:02 -0500

Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umn.edu with SMTP; 1 Oct 2007 16:59:55 -0000



Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])  
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623  
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

# 1.128 libpwquality 1.4.2-1build1

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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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*-----*/
```

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- \* /libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock/Core.pm
- \* /libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/Inline\_build/Inline.pm.in
- \* /libfile-fcntllock-perl-0-22-orig-1-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock/XS.pm
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File::FcntlLock

=====

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perls flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done

while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function).

Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the `off_t` type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's `pack()` and `unpack()` function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules won't get installed.

## PORTABILITY

To use the module the system must support the `fcntl()` system call which probably will restrict its use to POSIX compliant systems.

## INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

## DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp,  
Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For `File::FcntlFlock::Inline` the C compiler must also be available when the module is used. The installation of the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules require that the Perl `pack()` and `unpack()` function support the 'q' format if the `off_t` type on the system is 64-bit wide.

## ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several

problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with `fcntl(2)`, at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

## AUTHOR

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=head1 NAME

File::FcntlLock - File locking with `L<fcntl(2)>`

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

```
use File::FcntlLock;
```

```
my $fs = new File::FcntlLock;
```

```

$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";

```

## =head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

## =head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

```
$fs = new File::FcntlLock;
```

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l\_type> property is set to C<F\_RDLCK>, L<l\_whence> to C<SEEK\_SET>, and both L<l\_start> and L<l\_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

```
$fs = new File::FcntlLock( l_type => F_WRLCK,  
                           l_whence => SEEK_SET,  
                           l_start => 0,  
                           l_len  => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=over 4

=item C<l\_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F\_RDLCK>, C<F\_WRLCK> or C<F\_UNLCK> (for read lock, write lock or unlock).

=item C<l\_whence()>

This method sets, when called with an argument, the L<l\_whence> property of the flock object, determining

if the L<l\_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK\_SET>, C<SEEK\_CUR> and C<SEEK\_END> (also see the man page for L<lseek(2)>). If called with no argument the current value of the property is returned.

=item C<l\_start()>

Queries or sets the start position (offset) of the lock in the file according to the mode selected by the L<l\_whence> member. See also the man page for L<lseek(2)>.

=item C<l\_len()>

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at C<l\_start>, to the end of the file. E.g., a lock obtained with L<l\_whence> set to C<SEEK\_SET> and both L<l\_start> and L<l\_len> set to 0 locks the complete file.

According to SUSv3 support for negative values for L<l\_len> are permitted, resulting in a lock ranging from C<l\_start+l\_len> up to and including C<l\_start-1>. But not all systems support negative values

for L<l\_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=item C<l\_pid()>

If a call of the L<lock()> method with C<F\_GETLK> indicates that another process is holding the lock (in which case the L<l\_type> property will be either C<F\_WRLCK> or C<F\_RDLCK>) a call of the L<l\_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>



This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

```
$fs->lock( $fh, F_SETLK );
```

There are three values that can be used as the second argument:

=over 4

=item C<F\_SETLK>

With C<F\_SETLK> the L<lock()> method tries to obtain a lock (when L<l\_type> is set to either C<F\_WRLCK> or C<F\_RDLCK>) or releases it (if L<l\_type> is set to C<F\_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

=item C<F\_SETLKW>

is similar to C<F\_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F\_GETLK>

With C<F\_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l\_type> property will be set to C<F\_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F\_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If

the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using \$!, \$ERRNO or \$OS\_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling

the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4

=item C<lock\_erno()>

Returns the C<errno> error number from the latest call of L<lock()>. If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system\_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F\_GETLK F\_SETLK F\_SETLKW

=item F\_RDLCK F\_WRLCK F\_UNLCK

=item SEEK\_SET SEEK\_CUR SEEK\_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a `L<fcntl(2)>` system call. Note also that under certain circumstances the `File::FcntlLock::Pure` and `File::FcntlLock::Inline` modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its `C<pack>` and `C<unpack>` functions.

=head1 CREDITS

Thanks

to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with `L<fcntl(2)>`. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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## 1.133 rpcbind 1.2.5-8

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# 1.135 cdebconf 0.251ubuntu1

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## 1.137 pygobject 3.36.0-1

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## 1.138 tcl 8.6.10+dfsg-1

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## 1.139 libprelude 5.1.1-5

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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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Any executables

containing that work also 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

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## 1.144 linux-kernel 3.10.87

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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

\*/

## 1.147 berkeley-db 5.3.28+dfsg1-0.6ubuntu2

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## 1.153 json-c 0.99.8-2

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## 1.154 iconv 2.31

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*/
```

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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*/

```

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
No license file was found, but licenses were detected in source scan.

```

```

/*
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*
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\*/

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/popen.c

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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: 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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/\*

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```
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* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*
* @(#)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
```

No license file was found, but licenses were detected in source scan.

```
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.\" THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
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.\" WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
.\"
.\" @(#)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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```
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.\" *
```

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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
.\" */
.\"
.\" $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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```

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* user.

```

\*

```

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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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```
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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
./" */
./"
./" $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

No license file was found, but licenses were detected in source scan.

```
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```



```
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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
# */
```

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 \$

Found in path(s):

\* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

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Version 2.1, February 1999

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## 1.157 diffutils 3.7-3

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## 1.160 xz 5.2.4-1

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

```

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

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', ' ')">

    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of
select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--

```

- Local variables:  
- mode: sgml  
- End:  
-->

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# 1.167 mime-support 3.64ubuntu1

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Comment: Author: Nathaniel S. Borenstein

# 1.168 language-selector 0.204

## 1.168.1 Available under license :

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Upstream-Maintainer: Arne Goetje <arne@ubuntu.com>

Upstream-Source: <https://code.launchpad.net/~ubuntu-core-dev/language-selector/ubuntu>

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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.)

@end enumerate

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

@item

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.

@item

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.

@item

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:

@enumerate a

@item

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

@item

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

one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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

@item

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

@item

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

@end enumerate

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@item

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@enumerate a

@item

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.

@item

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.

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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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.

```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end
smallexample
```

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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`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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@enumerate 0

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@enumerate a

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@end enumerate

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@enumerate a

@item

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@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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@ifinfo  
@center  
NO WARRANTY

@end ifinfo

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@end enumerate

@iftex  
@heading END OF TERMS AND CONDITIONS  
@end iftex  
@ifinfo  
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page

@heading Appendix: How to Apply These Terms to Your New Programs

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@smallexample

@var{one line to give the program's name  
and a brief idea of what it does.}

Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

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

@smallexample

Gnomovision version

69, Copyright (C) @var{year} @var{name of author}

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

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@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and



@samp{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:

@example

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

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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# 1.175 shared-mime-info 1.15-1

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Any executables

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-----  
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Files: debian/\*

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# 1.177 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

# 1.178 python-stdlib-extensions 3.8.2-1ubuntu1

## 1.178.1 Available under license :

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# A grammar to describe tree matching patterns.

# Not shown here:

# - 'TOKEN' stands for any token (leaf node)

# - 'any' stands for any node (leaf or interior)

# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative (' Alternative)\*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]

      | NAME [Details] [Repeater]

      | '(' Alternatives ')' [Repeater]

      | '[' Alternatives ']'

)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '\*' | '+' | '{' NUMBER [' NUMBER ] '}'

Details: '<' Alternatives '>'

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
No license file was found, but licenses were detected in source scan.
```

```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.
```

# All rights reserved.

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
No license file was found, but licenses were detected in source scan.
```

```
/******
```

Copyright (C) 1994 Steen Lumholt.

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```
*****/
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/_tkinter.c
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
No license file was found, but licenses were detected in source scan.
```

executable.

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
```

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
```

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_filter.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_standarderror.py  
\*  
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_types.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_dict.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_filter.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_map.py  
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Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/driver.py  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_has\_key.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_has\_key.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_print.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_repr.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_apply.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_ne.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_print.py  
\*  
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_long.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_execfile.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_exec.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_exec.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test\_pytree.py  
\*  
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_ne.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_apply.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_has\_key.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_exec.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer\_base.py  
\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test\_pytree.py



```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_execfile.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_long.py
No license file was found, but licenses were detected in source scan.

```

# version.

Found in path(s):

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
*
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py

```

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```
('binary-only', None,  
"cannot supply both '--source-only' and '--binary-only')  
'License: ' + self.distribution.get_license(),
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-  
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py  
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-  
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py  
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-  
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
```

# 1.179 initramfs-tools 0.136ubuntu6

## 1.179.1 Available under license :

This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on  
Thu, 27 Jan 2005 15:23:52 -0500.

The current Debian maintainer are maximilian attems <maks@debian.org>  
and Michael Prokop <mika@debian.org>.

The current ubuntu release can be found at:  
<http://archive.ubuntu.com/ubuntu/pool/main/i/initramfs-tools/>

The Debian tree is maintained with "git" at:  
<https://anonscm.debian.org/git/kernel/initramfs-tools.git>  
<https://anonscm.debian.org/cgit/kernel/initramfs-tools.git>

Authors: maximilian attems <maks@debian.org>,  
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Scott James Remnant <scott@ubuntu.com>

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2005 - 2007 David Hrdeman  
2008 - 2010 Martin Michlmayr  
2007 - 2011 Michael Prokop  
2005 - 2009 Scott James Remnant

License:

GPL v2 or any later version

On Debian systems, the complete text of the GNU General  
Public License version  
2 can be found in `/usr/share/common-licenses/GPL-2`.

## 1.180 libtext-charwidth-perl 0.04-10

### 1.180.1 Available under license :

Found license 'General Public License 2.0' in 'This library is free software; you can redistribute it and/or modify a) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later'

## 1.181 Imdb 0.9.24-1

### 1.181.1 Available under license :

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# 1.182 pciutils 3.6.4-1

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## 1.183 libalgorithm-diff-xs-perl 0.04-6

### 1.183.1 Available under license :

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#### NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

#### SYNOPSIS

```
# Drop-in replacement to Algorithm::Diff, but "compact_diff"  
# and C<LCSidx> will run much faster for large data sets.  
use Algorithm::Diff::XS qw( compact_diff LCSidx );
```

#### DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known Algorithm::LCS with a drop-in interface that simply re-uses the installed version of the Algorithm::Diff module.

Note that only the "LCSidx" function is optimized in XS at the moment, which means only "compact\_diff" will get significantly faster for large data sets, while "diff" and "sdiff" will run in identical speed as "Algorithm::Diff".

#### BENCHMARK

|                     | Rate   | Algorithm::Diff | Algorithm::Diff::XS |
|---------------------|--------|-----------------|---------------------|
| Algorithm::Diff     | 14.7/s | --              | -98%                |
| Algorithm::Diff::XS | 806/s  |                 |                     |
|                     | 5402%  | --              |                     |

The benchmarking script is as below:

```

my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthese( 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
});

```

#### SEE ALSO

Algorithm::Diff, Algorithm::LCS.

#### AUTHORS

Audrey Tang <cpan@audreyt.org>

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Found in path(s):

\* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README

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-----

ppport.h -- Perl/Pollution/Portability Version 3.06\_01

Automatically created by Devel::PPPort running under  
perl 5.008008 on Wed Oct 22 22:33:39 2008.

Do NOT edit this file directly! -- Edit PPPort\_pm.PL and the  
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

-----

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06\_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

|                          |                                           |
|--------------------------|-------------------------------------------|
| --help                   | show short help                           |
|                          |                                           |
| --patch=file             | write one patch file with changes         |
| --copy=suffix            | write changed copies with suffix          |
| --diff=program           | use diff program and options              |
|                          |                                           |
| --compat-version=version | provide compatibility with Perl version   |
| --cplusplus              | accept C++ comments                       |
|                          |                                           |
| --quiet                  | don't output anything except fatal errors |
| --nodiag                 | don't show diagnostics                    |
| --nohints                | don't show hints                          |
| --nochanges              | don't suggest changes                     |
| --nofilter               | don't filter input files                  |
|                          |                                           |
| --list-provided          | list provided API                         |
| --list-unsupported       | list unsupported API                      |
| --api-info=name          | show Perl API portability information     |

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only up to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

```
=head2 --nofilter
```

Don't filter the list of input files. By default, files not looking like source code (i.e. not \*.xs, \*.c, \*.cc, \*.cpp or \*.h) are skipped.

```
=head2 --list-provided
```

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints for it.

```
=head2 --list-unsupported
```

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

```
=head2 --api-info=I<name>
```

Show portability information for API elements matching I<name>.

If I<name> is surrounded by slashes, it is interpreted as a regular expression.

```
=head1 DESCRIPTION
```

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

```
=over 4
```

```
=item *
```

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

```
=item *
```

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL\_> prefix is deprecated. Also,



some API functions used to have a C<perl\_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item \*

If you use one of a few functions that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether your module has a single or multiple files that use such functions, you want either C<static> or global variants.

For a C<static> function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one function in your project.

| Function                 | Static Request              | Global Request                     |
|--------------------------|-----------------------------|------------------------------------|
| eval_pv()                | NEED_eval_pv                | NEED_eval_pv_GLOBAL                |
| grok_bin()               | NEED_grok_bin               | NEED_grok_bin_GLOBAL               |
| grok_hex()               | NEED_grok_hex               | NEED_grok_hex_GLOBAL               |
| grok_number()            | NEED_grok_number            | NEED_grok_number_GLOBAL            |
| grok_numeric_radix()     | NEED_grok_numeric_radix     | NEED_grok_numeric_radix_GLOBAL     |
| grok_oct()               | NEED_grok_oct               | NEED_grok_oct_GLOBAL               |
| newCONSTSUB()            | NEED_newCONSTSUB            | NEED_newCONSTSUB_GLOBAL            |
| newRV_noinc()            | NEED_newRV_noinc            | NEED_newRV_noinc_GLOBAL            |
| sv_2pv_nolen()           | NEED_sv_2pv_nolen           | NEED_sv_2pv_nolen_GLOBAL           |
| sv_2pvbyte()             | NEED_sv_2pvbyte             | NEED_sv_2pvbyte_GLOBAL             |
| sv_catpvf_mg()           | NEED_sv_catpvf_mg           | NEED_sv_catpvf_mg_GLOBAL           |
| sv_catpvf_mg_nocontext() | NEED_sv_catpvf_mg_nocontext | NEED_sv_catpvf_mg_nocontext_GLOBAL |
| sv_setpvf_mg()           | NEED_sv_setpvf_mg           | NEED_sv_setpvf_mg_GLOBAL           |
| sv_setpvf_mg_nocontext() | NEED_sv_setpvf_mg_nocontext | NEED_sv_setpvf_mg_nocontext_GLOBAL |
| vnewSVpvf()              | NEED_vnewSVpvf              | NEED_vnewSVpvf_GLOBAL              |

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the `C<DPPP_NAMESPACE>` macro. Just `C<#define>` the macro before including `C<ppport.h>`:

```
#define DPPP_NAMESPACE MyOwnNamespace_  
#include "ppport.h"
```

The default namespace is `C<DPPP_>`.

=back

The good thing is that most of the above can be checked by running `F<ppport.h>` on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases,  
if you're aware that it uses C++ comments,  
and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different `C<diff>` program or options, using the `C<--diff>` option:

```
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

To display portability information for the C<newSVpv< function, use:

```
perl ppport.h --api-info=newSVpv<
```

Since the argument to C<--api-info> can be a regular expression, you can use

```
perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<\_nomg> functions or

```
perl ppport.h --api-info=/.<
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPP< are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPP< and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<<http://rt.cpan.org/>>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

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=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

```
my %opt = (
    quiet    => 0,
    diag     => 1,
    hints    => 1,
    changes  => 1,
    cplusplus => 0,
    filter   => 1,
);
```

```
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[\t]";           # horizontal whitespace
```

```
eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(\%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    ));
}
```

```

)) or usage();
};

if ($@ and grep /^~/, @ARGV) {
    usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

usage() if $opt{help};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n"
    if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

# Never use C comments in this file!!!!
my $ccs = '/'. '*';
my $cce = '*'. '/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

my %API = map { /^(\w+)\|([^\|]*)\|([^\|]*)\|(\w*)$/
    ? ( $1 => {
        ($2          ? ( base   => $2 ) : ()),
        ($3          ? ( todo   => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } )
    : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p

```

CopFILE\_set|5.006000||p  
CopFILE|5.006000||p  
CopSTASHPV\_set|5.006000||p  
CopSTASHPV|5.006000||p  
CopSTASH\_eq|5.006000||p  
CopSTASH\_set|5.006000||p  
CopSTASH|5.006000||p  
CopyD|5.009002||p  
Copy|||  
CvPADLIST|||  
CvSTASH|||  
CvWEAKOUTSIDE|||  
DEFSV|5.004050||p  
END\_EXTERN\_C|5.005000||p  
ENTER|||  
ERRSV|5.004050||p  
EXTEND|||  
EXTERN\_C|5.005000||p  
FREEMPS|||  
GIMME\_V|5.004000|n  
GIMME|||n  
GROK\_NUMERIC\_RADIX|5.007002||p  
G\_ARRAY|||  
G\_DISCARD|||  
G\_EVAL|||  
G\_NOARGS|||  
G\_SCALAR|||  
G\_VOID||5.004000|  
GetVars|||  
GvSV|||  
Gv\_AMupdate|||  
HEf\_SVKEY||5.004000|  
HeHASH||5.004000|  
HeKEY||5.004000|  
HeKLEN||5.004000|  
HePV||5.004000|  
HeSVKEY\_force||5.004000|  
HeSVKEY\_set||5.004000|  
HeSVKEY||5.004000|  
HeVAL||5.004000|  
HvNAME|||  
INT2PTR|5.006000||p  
IN\_LOCALE\_COMPILETIME|5.007002||p  
IN\_LOCALE\_RUNTIME|5.007002||p  
IN\_LOCALE|5.007002||p  
IN\_PERL\_COMPILETIME|5.008001||p  
IS\_NUMBER\_GREATER\_THAN\_UV\_MAX|5.007002||p  
IS\_NUMBER\_INFINITY|5.007002||p

IS\_NUMBER\_IN\_UV|5.007002||p  
IS\_NUMBER\_NAN|5.007003||p  
IS\_NUMBER\_NEG|5.007002||p  
IS\_NUMBER\_NOT\_INT|5.007002||p  
IVSIZE|5.006000||p  
IVTYPE|5.006000||p  
IVdf|5.006000||p  
LEAVE|||  
LVRET|||  
MARK|||  
MY\_CXT\_CLONE|5.009002||p  
MY\_CXT\_INIT|5.007003||p  
MY\_CXT|5.007003||p  
MoveD|5.009002||p  
Move|||  
NEWSV|||  
NOOP|5.005000||p  
NUM2PTR|5.006000||p  
NVTYPE|5.006000||p  
NVef|5.006001||p  
NVff|5.006001||p  
NVgf|5.006001||p  
Newc|||  
Newz|||  
New|||  
Nullav|||  
Nullch|||  
Nullcv|||  
Nullhv|||  
Nullsv|||  
ORIGMARK|||  
PAD\_BASE\_SV|||  
PAD\_CLONE\_VARS|||  
PAD\_COMPNAME\_FLAGS|||  
PAD\_COMPNAME\_GEN\_set|||  
PAD\_COMPNAME\_GEN|||  
PAD\_COMPNAME\_OURSTASH|||  
PAD\_COMPNAME\_PV|||  
PAD\_COMPNAME\_TYPE|||  
PAD\_RESTORE\_LOCAL|||  
PAD\_SAVE\_LOCAL|||  
PAD\_SAVE\_SETNULLPAD|||  
PAD\_SETSV|||  
PAD\_SET\_CUR\_NOSAVE|||  
PAD\_SET\_CUR|||  
PAD\_SV1|||  
PAD\_SV|||  
PERL\_BCDVERSION|5.009003||p

PERL\_GCC\_BRACE\_GROUPS\_FORBIDDEN|5.008001||p  
PERL\_INT\_MAX|5.004000||p  
PERL\_INT\_MIN|5.004000||p  
PERL\_LONG\_MAX|5.004000||p  
PERL\_LONG\_MIN|5.004000||p  
PERL\_MAGIC\_arylen|5.007002||p  
PERL\_MAGIC\_backref|5.007002||p  
PERL\_MAGIC\_bm|5.007002||p  
PERL\_MAGIC\_collxfrm|5.007002||p  
PERL\_MAGIC\_dbfile|5.007002||p  
PERL\_MAGIC\_dbline|5.007002||p  
PERL\_MAGIC\_defelem|5.007002||p  
PERL\_MAGIC\_envelem|5.007002||p  
PERL\_MAGIC\_env|5.007002||p  
PERL\_MAGIC\_ext|5.007002||p  
PERL\_MAGIC\_fm|5.007002||p  
PERL\_MAGIC\_glob|5.007002||p  
PERL\_MAGIC\_isaelem|5.007002||p  
PERL\_MAGIC\_isa|5.007002||p  
PERL\_MAGIC\_mutex|5.007002||p  
PERL\_MAGIC\_nkeys|5.007002||p  
PERL\_MAGIC\_overload\_elem|5.007002||p  
PERL\_MAGIC\_overload\_table|5.007002||p  
PERL\_MAGIC\_overload|5.007002||p  
PERL\_MAGIC\_pos|5.007002||p  
PERL\_MAGIC\_qr|5.007002||p  
PERL\_MAGIC\_regdata|5.007002||p  
PERL\_MAGIC\_regdatum|5.007002||p  
PERL\_MAGIC\_regex\_global|5.007002||p  
PERL\_MAGIC\_shared\_scalar|5.007003||p  
PERL\_MAGIC\_shared|5.007003||p  
PERL\_MAGIC\_sigelem|5.007002||p  
PERL\_MAGIC\_sig|5.007002||p  
PERL\_MAGIC\_substr|5.007002||p  
PERL\_MAGIC\_sv|5.007002||p  
PERL\_MAGIC\_taint|5.007002||p  
PERL\_MAGIC\_tiedelem|5.007002||p  
PERL\_MAGIC\_tiedscalar|5.007002||p  
PERL\_MAGIC\_tied|5.007002||p  
PERL\_MAGIC\_utf8|5.008001||p  
PERL\_MAGIC\_uvar\_elem|5.007003||p  
PERL\_MAGIC\_uvar|5.007002||p  
PERL\_MAGIC\_vec|5.007002||p  
PERL\_MAGIC\_vstring|5.008001||p  
PERL\_QUAD\_MAX|5.004000||p  
PERL\_QUAD\_MIN|5.004000||p  
PERL\_REVISION|5.006000||p  
PERL\_SCAN\_ALLOW\_UNDERSCORES|5.007003||p



PERL\_SCAN\_DISALLOW\_PREFIX|5.007003||p  
PERL\_SCAN\_GREATER\_THAN\_UV\_MAX|5.007003||p  
PERL\_SCAN\_SILENT\_ILLDIGIT|5.008001||p  
PERL\_SHORT\_MAX|5.004000||p  
PERL\_SHORT\_MIN|5.004000||p  
PERL\_SUBVERSION|5.006000||p  
PERL\_UCHAR\_MAX|5.004000||p  
PERL\_UCHAR\_MIN|5.004000||p  
PERL\_UINT\_MAX|5.004000||p  
PERL\_UINT\_MIN|5.004000||p  
PERL\_ULONG\_MAX|5.004000||p  
PERL\_ULONG\_MIN|5.004000||p  
PERL\_UNUSED\_DECL|5.007002||p  
PERL\_UQUAD\_MAX|5.004000||p  
PERL\_UQUAD\_MIN|5.004000||p  
PERL\_USHORT\_MAX|5.004000||p  
PERL\_USHORT\_MIN|5.004000||p  
PERL\_VERSION|5.006000||p  
PL\_DBsingle|||pn  
PL\_DBsub|||pn  
PL\_DBtrace|||n  
PL\_Sv|5.005000||p  
PL\_compiling|5.004050||p  
PL\_copline|5.005000||p  
PL\_curcop|5.004050||p  
PL\_curstash|5.004050||p  
PL\_debstash|5.004050||p  
PL\_defgv|5.004050||p  
PL\_diehook|5.004050||p  
PL\_dirty|5.004050||p  
PL\_dowarn|||pn  
PL\_errgv|5.004050||p  
PL\_hexdigit|5.005000||p  
PL\_hints|5.005000||p  
PL\_last\_in\_gv|||n  
PL\_modglobal||5.005000|n  
PL\_na|5.004050||pn  
PL\_no\_modify|5.006000||p  
PL\_ofs\_sv|||n  
PL\_perl\_destruct\_level|5.004050||p  
PL\_perldb|5.004050||p  
PL\_ppaddr|5.006000||p  
PL\_rsfilters|5.004050||p  
PL\_rsfpl|5.004050||p  
PL\_rs|||n  
PL\_stack\_base|5.004050||p  
PL\_stack\_sp|5.004050||p  
PL\_stdingv|5.004050||p

PL\_sv\_arenaroot|5.004050||p  
PL\_sv\_no|5.004050||pn  
PL\_sv\_undef|5.004050||pn  
PL\_sv\_yes|5.004050||pn  
PL\_tainted|5.004050||p  
PL\_tainting|5.004050||p  
POPi|||n  
POPl|||n  
POPn|||n  
POPpbytex||5.007001|n  
POPpx||5.005030|n  
POPp|||n  
POPs|||n  
PTR2IV|5.006000||p  
PTR2NV|5.006000||p  
PTR2UV|5.006000||p  
PTR2ul|5.007001||p  
PTRV|5.006000||p  
PUSHMARK|||  
PUSHi|||  
PUSHmortal|5.009002||p  
PUSHn|||  
PUSHp|||  
PUSHs|||  
PUSHu|5.004000||p  
PUTBACK|||  
PerlIO\_clearerr||5.007003|  
PerlIO\_close||5.007003|  
PerlIO\_eof||5.007003|  
PerlIO\_error||5.007003|  
PerlIO\_fileno||5.007003|  
PerlIO\_fill||5.007003|  
PerlIO\_flush||5.007003|  
PerlIO\_get\_base||5.007003|  
PerlIO\_get\_bufsiz||5.007003|  
PerlIO\_get\_cnt||5.007003|  
PerlIO\_get\_ptr||5.007003|  
PerlIO\_read||5.007003|  
PerlIO\_seek||5.007003|  
PerlIO\_set\_cnt||5.007003|  
PerlIO\_set\_ptrcnt||5.007003|  
PerlIO\_setlinebuf||5.007003|  
PerlIO\_stderr||5.007003|  
PerlIO\_stdin||5.007003|  
PerlIO\_stdout||5.007003|  
PerlIO\_tell||5.007003|  
PerlIO\_unread||5.007003|  
PerlIO\_write||5.007003|

Poison|5.008000||p  
RETVAL|||n  
Renewc||  
Renew||  
SAVECLEARSV||  
SAVECOMPPAD||  
SAVEPADSV||  
SAVETMPS||  
SAVE\_DEFSV|5.004050||p  
SPAGAIN||  
SP||  
START\_EXTERN\_C|5.005000||p  
START\_MY\_CXT|5.007003||p  
STMT\_END||p  
STMT\_START||p  
ST||  
SVt\_IV||  
SVt\_NV||  
SVt\_PVAV||  
SVt\_PVCV||  
SVt\_PVHV||  
SVt\_PVMG||  
SVt\_PV||  
Safefree||  
Slab\_Alloc||  
Slab\_Free||  
StructCopy||  
SvCUR\_set||  
SvCUR||  
SvEND||  
SvGETMAGIC|5.004050||p  
SvGROW||  
SvIOK\_UV||5.006000|  
SvIOK\_notUV||5.006000|  
SvIOK\_off||  
SvIOK\_only\_UV||5.006000|  
SvIOK\_only||  
SvIOK\_on||  
SvIOKp||  
SvIOK||  
SvIVX||  
SvIV\_nomg|5.009001||p  
SvIV\_set||  
SvIVx||  
SvIV||  
SvIsCOW\_shared\_hash||5.008003|  
SvIsCOW||5.008003|  
SvLEN\_set||

SvLEN|||  
SvLOCK||5.007003|  
SvMAGIC\_set||5.009003|  
SvNIOK\_off|||  
SvNIOKp|||  
SvNIOK|||  
SvNOK\_off|||  
SvNOK\_only|||  
SvNOK\_on|||  
SvNOKp|||  
SvNOK|||  
SvNVX|||  
SvNV\_set|||  
SvNVx|||  
SvNV|||  
SvOK|||  
SvOOK|||  
SvPOK\_off|||  
SvPOK\_only\_UTF8||5.006000|  
SvPOK\_only|||  
SvPOK\_on|||  
SvPOKp|||  
SvPOK|||  
SvPVX|||  
SvPV\_force\_nomg|5.007002||p  
SvPV\_force|||  
SvPV\_nolen|5.006000||p  
SvPV\_nomg|5.007002||p  
SvPV\_set|||  
SvPVbyte\_force||5.009002|  
SvPVbyte\_nolen||5.006000|  
SvPVbytex\_force||5.006000|  
SvPVbytex||5.006000|  
SvPVbyte|5.006000||p  
SvPVutf8\_force||5.006000|  
SvPVutf8\_nolen||5.006000|  
SvPVutf8x\_force||5.006000|  
SvPVutf8x||5.006000|  
SvPVutf8||5.006000|  
SvPVx|||  
SvPV|||  
SvREFCNT\_dec|||  
SvREFCNT\_inc|||  
SvREFCNT|||  
SvROK\_off|||  
SvROK\_on|||  
SvROK|||  
SvRV\_set||5.009003|

SvRV|||  
SvSETMAGIC|||  
SvSHARE||5.007003|  
SvSTASH\_set||5.009003|  
SvSTASH|||  
SvSetMagicSV\_nosteal||5.004000|  
SvSetMagicSV||5.004000|  
SvSetSV\_nosteal||5.004000|  
SvSetSV|||  
SvTAINTED\_off||5.004000|  
SvTAINTED\_on||5.004000|  
SvTAINTED||5.004000|  
SvTAINT|||  
SvTRUE|||  
SvTYPE|||  
SvUNLOCK||5.007003|  
SvUOK||5.007001|  
SvUPGRADE|||  
SvUTF8\_off||5.006000|  
SvUTF8\_on||5.006000|  
SvUTF8||5.006000|  
SvUVXx|5.004000||p  
SvUVX|5.004000||p  
SvUV\_nomg|5.009001||p  
SvUV\_set||5.009003|  
SvUVx|5.004000||p  
SvUV|5.004000||p  
SvVOK||5.008001|  
THIS|||n  
UNDERBAR|5.009002||p  
UVSIZE|5.006000||p  
UVTYPE|5.006000||p  
UVXf|5.007001||p  
UVof|5.006000||p  
UVuf|5.006000||p  
UVxf|5.006000||p  
XCPT\_CATCH|5.009002||p  
XCPT\_RETHROW|5.009002||p  
XCPT\_TRY\_END|5.009002||p  
XCPT\_TRY\_START|5.009002||p  
XPUSHi|||  
XPUSHmortal|5.009002||p  
XPUSHn|||  
XPUSHp|||  
XPUSHs|||  
XPUSHu|5.004000||p  
XSRETURN\_EMPTY|||  
XSRETURN\_IV|||

XSRETURN\_NO|||  
XSRETURN\_NV|||  
XSRETURN\_PV|||  
XSRETURN\_UNDEF|||  
XSRETURN\_UV|5.008001||p  
XSRETURN\_YES|||  
XSRETURN|||  
XST\_mIV|||  
XST\_mNO|||  
XST\_mNV|||  
XST\_mPV|||  
XST\_mUNDEF|||  
XST\_mUV|5.008001||p  
XST\_mYES|||  
XS\_VERSION\_BOOTCHECK|||  
XS\_VERSION|||  
XS|||  
ZeroD|5.009002||p  
Zero|||  
\_aMY\_CXT|5.007003||p  
\_pMY\_CXT|5.007003||p  
aMY\_CXT\_|5.007003||p  
aMY\_CXT|5.007003||p  
aTHX\_|5.006000||p  
aTHX|5.006000||p  
add\_data|||  
allocmy|||  
amagic\_call|||  
any\_dup|||  
ao|||  
append\_elem|||  
append\_list|||  
apply\_attrs\_my|||  
apply\_attrs\_string||5.006001|  
apply\_attrs|||  
apply|||  
asIV|||  
asUV|||  
atfork\_lock||5.007003|n  
atfork\_unlock||5.007003|n  
av\_arylen\_p||5.009003|  
av\_clear|||  
av\_delete||5.006000|  
av\_exists||5.006000|  
av\_extend|||  
av\_fake|||  
av\_fetch|||  
av\_fill|||

av\_len||  
av\_make||  
av\_pop||  
av\_push||  
av\_reify||  
av\_shift||  
av\_store||  
av\_undef||  
av\_unshift||  
ax|||n  
bad\_type||  
bind\_match||  
block\_end||  
block\_gimme||5.004000|  
block\_start||  
boolSV|5.004000|p  
boot\_core\_PerlIO||  
boot\_core\_UNIVERSAL||  
boot\_core\_xsutils||  
bytes\_from\_utf8||5.007001|  
bytes\_to\_utf8||5.006001|  
cache\_re||  
call\_argv|5.006000|p  
call\_atexit|5.006000|  
call\_body||  
call\_list\_body||  
call\_list||5.004000|  
call\_method|5.006000|p  
call\_pv|5.006000|p  
call\_sv|5.006000|p  
calloc||5.007002|n  
cando||  
cast\_i32||5.006000|  
cast\_iv||5.006000|  
cast\_ulong||5.006000|  
cast\_uv||5.006000|  
check\_uni||  
checkcomma||  
checkposixcc||  
ck\_anoncode||  
ck\_bitop||  
ck\_concat||  
ck\_defined||  
ck\_delete||  
ck\_die||  
ck\_eof||  
ck\_eval||  
ck\_exec||

ck\_exists||  
ck\_exit||  
ck\_ftst||  
ck\_fun||  
ck\_glob||  
ck\_grep||  
ck\_index||  
ck\_join||  
ck\_lengthconst||  
ck\_lfun||  
ck\_listiob||  
ck\_match||  
ck\_method||  
ck\_null||  
ck\_open||  
ck\_repeat||  
ck\_require||  
ck\_retarget||  
ck\_return||  
ck\_rfun||  
ck\_rvconst||  
ck\_sassign||  
ck\_select||  
ck\_shift||  
ck\_sort||  
ck\_spair||  
ck\_split||  
ck\_subr||  
ck\_substr||  
ck\_svconst||  
ck\_trunc||  
ck\_unpack||  
cl\_and||  
cl\_anything||  
cl\_init\_zero||  
cl\_init||  
cl\_is\_anything||  
cl\_or||  
closest\_cop||  
convert||  
cop\_free||  
cr\_textfilter||  
croak\_nocontext||vn  
croak||v  
csighandler||5.007001|n  
custom\_op\_desc||5.007003|  
custom\_op\_name||5.007003|  
cv\_ckproto||



cv\_clone|||  
cv\_const\_sv||5.004000|  
cv\_dump|||  
cv\_undef|||  
cx\_dump||5.005000|  
cx\_dup|||  
cxinc|||  
dAXMARK||5.009003|  
dAX|5.007002||p  
dITEMS|5.007002||p  
dMARK|||  
dMY\_CXT\_SV|5.007003||p  
dMY\_CXT|5.007003||p  
dNOOP|5.006000||p  
dORIGMARK|||  
dSP|||  
dTHR|5.004050||p  
dTHXa|5.006000||p  
dTHXoa|5.006000||p  
dTHX|5.006000||p  
dUNDERBAR|5.009002||p  
dXCPT|5.009002||p  
dXSARGS|||  
dXSI32|||  
dXSTARG|5.006000||p  
deb\_curcv|||  
deb\_nocontext|||vn  
deb\_stack\_all|||  
deb\_stack\_n|||  
debop||5.005000|  
debprofdump||5.005000|  
debprof|||  
debstackptrs||5.007003|  
debstack||5.007003|  
deb||5.007003|v  
del\_he|||  
del\_sv|||  
delimcpy||5.004000|  
depcom|||  
deprecate\_old|||  
deprecate|||  
despatch\_signals||5.007001|  
die\_nocontext|||vn  
die\_where|||  
die|||v  
dirp\_dup|||  
div128|||  
djSP|||

do\_aexec5|||  
do\_aexec|||  
do\_aspawn|||  
do\_binmode||5.004050|  
do\_chomp|||  
do\_chop|||  
do\_close|||  
do\_dump\_pad|||  
do\_eof|||  
do\_exec3|||  
do\_execfree|||  
do\_exec|||  
do\_gv\_dump||5.006000|  
do\_gvgv\_dump||5.006000|  
do\_hv\_dump||5.006000|  
do\_ipcctl|||  
do\_ipcget|||  
do\_join|||  
do\_kv|||  
do\_magic\_dump||5.006000|  
do\_msgrcv|||  
do\_msgsnd|||  
do\_oddball|||  
do\_op\_dump||5.006000|  
do\_open9||5.006000|  
do\_openn||5.007001|  
do\_open||5.004000|  
do\_pipe|||  
do\_pmop\_dump||5.006000|  
do\_print|||  
do\_readline|||  
do\_seek|||  
do\_semop|||  
do\_shmio|||  
do\_spawn\_nowait|||  
do\_spawn|||  
do\_sprintf|||  
do\_sv\_dump||5.006000|  
do\_sysseek|||  
do\_tell|||  
do\_trans\_complex\_utf8|||  
do\_trans\_complex|||  
do\_trans\_count\_utf8|||  
do\_trans\_count|||  
do\_trans\_simple\_utf8|||  
do\_trans\_simple|||  
do\_trans|||  
do\_vecget|||

do\_vecset|||  
do\_vop|||  
docatch\_body|||  
docatch|||  
doeval|||  
dofile|||  
dofindlabel|||  
doform|||  
doing\_taint||5.008001|n  
dooneliner|||  
doopen\_pm|||  
doparseform|||  
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);

if
(exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", 'x'(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %depends);
my $replace = 0;
my $hint = "";

while (<DATA>) {
if ($hint) {
if (m{^\s*\s*(.*?)\s*$})
{
$hints{$hint} ||= ""; # suppress warning with older perls
$hints{$hint} .= "$1\n";
}
else {
$hint = "";
}
}
$hint = $1 if m{^\s*$rcs\sHint:\s+(\w+)\s*$};

$replace = $1 if m{^\s*$rcs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\s*([^\s]*)?)?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\s*([^\s]*)?)?\s+(\w+).*$rcs\s+Replace\s+$rcce};

```

```

$replace{$1} = $2 if m{^\s*$rcce\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

if (m{^\s*$rcce\s+(\w+)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
    push @{$depends{$1}}, map { s/\s+//g; $_ } split /,/, $2;
}

$need{$1} = 1 if m{^#\s+defined\(\NEED_(\w+)(?:_GLOBAL)?\)};
}

if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^(.*)/$! ? $1 : "\Q$opt{'api-info'}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info
        = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$.f.\n" if exists $need{$f};
            print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
            print "$hints{$f}" if exists $hints{$f};
            $info++;
        }
        unless ($info) {
            print "No portability information available.\n";
        }
        $count++;
    }
    if ($count > 0) {
        print "\n";
    }
    else {
        print "Found no API matching '$opt{'api-info'}'. \n";
    }
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {

```



```

next unless $API{$f}{provided};
my @flags;
push @flags,
'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $hints{$f};
my $flags = @flags ? ' [' .join(', ', @flags).']' : "";
print "$f$flags\n";
}
exit 0;
}

my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;

if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /\.$srcext$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob ".*$_" } @srcext;
}
}

if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*).\xs$/ ? ("1.c" => 1, "1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/\.$srcext$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ",
join "\n| ", @out);
}
@files = @in;
}

unless (@files) {

```

```

die "No input files given!\n";
}

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "<$filename") {
        warn "Unable to read from $filename: $!\n";
        next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # temporarily remove C comments from the code
    my @ccom;
    $c =~ s{
        (
            [^"/]+
            |
            (?:"[^"]*"|'[^']*'|(?:\\\.|\\\"\\\"|\\\'\\\'|\\\\\\\\|\\r\\n|\\s)+)
            |
            (?:'["\\]*(?:\\\.|\\\"\\\"|\\\'\\\'|\\\\\\\\|\\r\\n|\\s)+'|"[^"]*"|\\s)+
        )
    }
    |
    ( /(?:
        \\[^\]*\|(?![^$ccs][^\]*\|)\|
        |
        /[\r\n]*
    ))
    ){
        defined $2 and push @ccom, $2;
        defined $1 ? $1 : "$ccs$#ccom$ccce";
    }egsx;

    $file{ccom} = \@ccom;
    $file{code} = $c;
    $file{has_inc_ppport} = ($c =~ /#.include.*Q$ppport\E/);

    my $func;

```

```

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
            for ($func, @deps) {
                if (exists $need{$_}) {
                    $file{needs}{$_} = 'static';
                }
            }
        }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
        if ($c =~ /\b$func\b/) {
            $file{uses_todo}{$func}++;
        }
    }
}

while ($c =~
/^\$HS*#\$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    else {
        warning("Possibly wrong #define $1 in $filename");
    }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$files{$filename} = \%file;

```

```

}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}{needed_global}{$need}, @targets;
        @targets = @t if @t;
        @t = grep /\.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}

for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename
    ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*(?!aTHX_?)(\)|[\^s])*)}) {
                $1 . ($2 eq ') ? 'aTHX' : 'aTHX_' . $2 }ge);
            if ($changes) {
                warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
        else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func(\s*)((\s*aTHX_?)?\s*)}
                {$func$1{}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
    }
}

```

```

}

for $func (sort keys %{$file{uses}}) {
    next unless $file{uses}{$func}; # if it's only a dependency
    if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which
depends on ", join(' ', @{$file{uses_deps}{$func}}));
    }
    elsif (exists $replace{$func}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
    }
    else {
        diag("Uses $func");
    }
    hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message =
";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}{$func} eq 'static') {

```

```

    $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}
}

$file{needs_inc_ppport} = keys %{ $file{uses} };

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{ $file{needs} }) {
        my $type = $file{needs}{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}{$func}) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}]
need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_${func}$suffix\n";
        }
    }
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
}

if ($pp) {
    $file{changes} += ($c =~ s/^(($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*Q$ppport\E)/$pp/m)
        || ($c =~ s/^(($HS*#$HS*include.*XSUB.*\s*)/ $1$pp/m)
        || ($c =~ s/^/$pp/);
}
}
else {

```

```

if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^\$HS*?#\$HS*include.*\Q$ppport\E.*?$LF//m);
}
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for
$ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^/!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("' $newfile' already exists, refusing to write copy of '$filename'");
        }
        else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            }
            else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    }
    elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}")

```

```

{
    $patch_opened = 1;
}
else {
    error("Cannot open '$opt{patch}' for writing: $!");
    delete $opt{patch};
    $opt{changes} = 1;
    goto fallback;
}
}
mydiff(\*PATCH, $filename, $c);
}
else {
fallback:
    info("Suggested changes:");
    mydiff(\*STDOUT, $filename, $c);
}
}
else {
    my $s = $file{changes} == 1 ? " : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

```

```
close PATCH if $patch_opened;
```

```
exit 0;
```

```

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and can_use("Text::Diff")) {
        $diff = Text::Diff::diff($file, \ $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
    }
    --- $file
    +++ $file.patched

```



```

HEADER
}

if (!defined $diff) {
    $diff =
run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;

}

sub run_diff
{
    my($prog, $file, $str) = @_ ;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/^Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }

        unlink $tmp;
    }
}

```

```

else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub can_use
{
    eval "use @_;";
    return "$@" eq "";
}

sub rec_depend
{
    my $func = shift;
    my %seen;
    return () unless exists $depends{$func};
    grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^(\d+)\.(\d_)+$/) {
        die "cannot parse version '$ver'\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }

    return ($r, $v, $s);
}

```

```

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;

        $ver = sprintf "%d.%03d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;

        return $ver;
    }

    return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "**** ", @_, "\n";
}

sub error
{
    print "**** ERROR: ", @_, "\n";
}

```

```

my %given_hints;
sub hint
{
    $opt{quiet} and return;
    $opt{hints} or return;
    my $func = shift;
    exists $hints{$func} or return;
    $given_hints{$func}++ and return;
    my $hint = $hints{$func};
    $hint =~ s/^/ /mg;
    print " --- hint for $func ---\n", $hint;
}

sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^X $0/;
    $usage =~ s/([A-Z])<([>]+)>/$M{$1}$2$M{$1}/g;

    print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

exit 2;
}

__DATA__
*/

```

Found in path(s):

\* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

No license file was found, but licenses were detected in source scan.

---

abstract: Algorithm::Diff with XS core loop

author: Audrey Tang <cpan@audreyt.org>

distribution\_type: module

generated\_by: Module::Install version 0.67

license: perl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.3.html>

version: 1.3

name: Algorithm-Diff-XS

no\_index:

directory:

- inc

- t

requires:

Algorithm::Diff: 1.19

perl: 5.6.0

version: 0.01

Found in path(s):

\* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml

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=head1 NAME

Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact\_diff"

# and C<LCSidx> will run much faster for large data sets.

use Algorithm::Diff::XS qw( compact\_diff LCSidx );

=head1 DESCRIPTION

This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.

Note that only the C<LCSidx> function is optimized in XS at the moment, which means only C<compact\_diff> will get significantly faster for large data sets, while C<diff> and C<sdiff> will run in identical speed as C<Algorithm::Diff>.

=head1 BENCHMARK

|                     | Rate   | Algorithm::Diff | Algorithm::Diff::XS |
|---------------------|--------|-----------------|---------------------|
| Algorithm::Diff     | 14.7/s | --              | -98%                |
| Algorithm::Diff::XS | 806/s  | 5402%           |                     |
|                     | --     |                 |                     |

The benchmarking script is as below:

```
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
```

```
cmpthese( 500, {
```

```
  'Algorithm::Diff' => sub {
```

```

        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
});

```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

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=cut

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\* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm

No license file was found, but licenses were detected in source scan.

```

'GNU public license'           => 'gpl',      1,
'GNU lesser public license'    => 'gpl',      1,
'BSD license'                  => 'bsd',      1,
'proprietary'                  => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) {
warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";

```

Found in path(s):

\* /libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm

## 1.184 netifaces 0.10.4-1ubuntu4

### 1.184.1 Available under license :

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# 1.185 bsdmainutils 11.1.2ubuntu3

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This package was originally put together by Austin Donnelly <and1000@debian.org>, but is heavily based on bsduutils, originally put together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith <cpbs@debian.org>. I gathered data for the 1999-2001 calendar files from various sources on the Internet, and I'd also like to thank Oliver Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing much useful data on the various religious calendars. I have edited the files they provided to fit calendar's requirements, so any errors should be attributed to me.

After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for almost two years, before Tollef Fog Heen <tfheen@debian.org> took over. The package is now maintained by Graham Wilson <bob@decoy.wox.org>.

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# 1.186 dbus-python 1.2.16-1build1

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```
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```

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```
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```

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# 1.188 iso-codes 4.4-1

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8x13B.bdf 8x13Bc.bdf 8x13.bdf 8x13c.bdf 8x13-IL2.bdf 8x13O.bdf  
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75dpi-courB12-IL2.bdf 75dpi-courB14.bdf 75dpi-courB14c.bdf  
75dpi-courB14-IL2.bdf 75dpi-courR12.bdf 75dpi-courR12c.bdf  
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== unifont16 ==

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## 1.190 python-nacl 1.3.0-5

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# 1.191 libalgorithm-diff-perl 1.19.03-2

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```
#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
```

```
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
  -c will do a context diff with 3 lines of context
  -C will do a context diff with 'lines' lines of context
  -u will do a unified diff with 3 lines of context
  -U will do a unified diff with 'lines' lines of context
ENDUSAGE
```

```
getopts("U:C:cu") or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
    $opt_c = ""; # -c on if -C given on command line
    $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
    $opt_u = ""; # -u on if -U given on command line
    $opt_c = undef;
} else {
    $opt_c = ""; # by default, do context diff, not old diff
```

```

}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
    $Context_Lines = defined $opt_C ? $opt_C : 3;
    $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
    $Context_Lines = defined $opt_U ? $opt_U : 3;
    $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my
$File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\t", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;

    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(\@f1, \@f2);
    }
}

} continue {

```

```

    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my
    $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;

sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks    - a list of Block objects
# start     - index in file 1 where first block of the hunk starts
# end       - index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#              until but NOT including this one
# after_diff  - difference due to all hunks including this one
    my ($class, $piece, $context_items) = @_;

    my $block = new Block ($piece); # this modifies $FLD!

    my $before_diff = $File_Length_Difference;
# BEFORE this hunk
    my $after_diff = $before_diff + $block->{"length_diff"};
    $File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist

```

```

# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1  = $a2 == -1 ? $b2 - $after_diff  : $a2;
$start2 = $b1 == -1 ?
$a1 + $before_diff : $b1;
$end2  = $b2 == -1 ? $a2 + $after_diff  : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1"   => $end1,
    "end2"   => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_;
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
        $#f1 - $end1 :

```

```

        $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"}
+= $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_;
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
        $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
}

# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift (@{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"}
}

sub output_unified_diff {

    my ($hunk, $fileref1, $fileref2) = @_;
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@\n";

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.

```



```

# Inserting an item requires getting it from file2 and splicing it in.
# We splice in $num_added items. Remove blocks use $num_added because
# splicing changed the length of outlist.
# We remove $num_removed items. Insert blocks use $num_removed because
# their item numbers---corresponding to positions in file *2*--- don't take
# removed items into account.
my $low = $hunk->{"start1"};
my $hi = $hunk->{"end1"};
my ($num_added, $num_removed) = (0,0);
my @outlist = @$fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context

foreach my $block (@{$hunk->{"blocks"}}) {
foreach my $item ($block->remove)
{
    my $op = $item->{"sign"}; # -
    my $offset = $item->{"item_no"} - $low + $num_added;
    $outlist[$offset] =~ s/^/$op/;
    $num_removed++;
}
foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$$fileref2[$i]");
    $num_added++;
}
}

map {s/$\n/} @outlist; # add \n's
print @outlist;

}

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_ ;
    my @blocklist;

    print "*****\n";
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "*** $range1 *****\n";
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};

```

```

    if (@blocklist = grep {$_->remove} @{$shunk->{"blocks"}}) {
my @outlist =
@fileref1[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # - or !
    foreach my $item ($block->remove) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}

print "--- $range2 ----\n";
$low = $shunk->{"start2"};
$hi = $shunk->{"end2"};
if (@blocklist = grep {$_->insert} @{$shunk->{"blocks"}}) {
my @outlist = @fileref2[$low..$hi];
map {s/^/ /} @outlist; # assume it's just context
foreach my $block (@blocklist) {
    my $op = $block->op; # + or !
    foreach my $item ($block->insert) {
$outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
    }
}
map {s/$\n/} @outlist; # add \n's
print @outlist;
}
}

sub context_range {
# Generate a range of item numbers to print. Only print 1 number if the range
# has only one item in it. Otherwise, it's 'start,end'
my ($shunk, $flag) = @_ ;
my ($start, $end) = ($shunk->{"start$flag"},$shunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $range = ($start < $end) ? "$start,$end" : $end;
return $range;
}

sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($shunk, $flag) = @_ ;
my ($start, $end) = ($shunk->{"start$flag"},$shunk->{"end$flag"});
$start++; $end++; # index from 1, not zero

```

```

my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length == 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is
# a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign      - '+' for insert, '-' for remove
# item_no   - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}

my $block = { "changes" => \@changes };
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;

```

```

$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{$shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{$shift->{"changes"}}; }

} # end of package Block

```

Found in path(s):  
 \* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl  
 No license file was found, but licenses were detected in source scan.

```

#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#

```

```

use Algorithm::Diff qw(diff);

```

```

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

```

```

my ($file1, $file2) = @ARGV;

```

```

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

```

```

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

```

```

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

```

```
$diffs = diff(\@f1, \@f2);
```

```
exit 0 unless @$diffs;
```

```
foreach $chunk (@$diffs) {
```

```
    foreach $line (@$chunk) {
```

```
        my ($sign, $lineno, $text) = @$line;
```

```
        printf "%4d$sign %s\n", $lineno+1, $text;
```

```
    }
```

```
    print "-----\n";
```

```
}
```

```
exit 1;
```

```
sub bag {
```

```
    my $msg = shift;
```

```
    $msg .= "\n";
```

```
    warn $msg;
```

```
    exit 2;
```

```
}
```

Found in path(s):

\* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

No license file was found, but licenses were detected in source scan.

# This program is free software; you can redistribute it and/or modify it

# under the same terms as Perl itself.

Found in path(s):

\* /libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diffnew.pl

No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff - Compute 'intelligent' differences between two files / lists

=head1 SYNOPSIS

```
require Algorithm::Diff;
```

```
# This example produces traditional 'diff' output:
```

```
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );
```

```
$diff->Base( 1 ); # Return line numbers, not indices
```

```
while( $diff->Next() ) {
```

```
    next if $diff->Same();
```

```
    my $sep = ";
```

```
    if( !$diff->Items(2) ) {
```

```

    printf "%d,%dd%d\n",
        $diff->Get(qw( Min1 Max1 Max2 ));
} elsif( ! $diff->Items(1) ) {
    printf "%da%d,%d\n",
        $diff->Get(qw( Max1 Min2 Max2 ));
} else {
    $sep = "---\n";
    printf "%d,%dc%d,%d\n",
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_" for $diff->Items(1);
print $sep;
print "> $_" for $diff->Items(2);
}

```

# Alternate interfaces:

```

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

```

```

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

```

```

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

```

# Complicated interfaces:

```

@diffs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
      DISCARD_A => \&callback2,
      DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

```

```

traverse_balanced(
  \@seq1,
  \@seq2,
  { MATCH    => \&callback1,
    DISCARD_A => \&callback2,
    DISCARD_B => \&callback3,
    CHANGE    => \&callback4,
  },
  \&key_generator,
  @extra_args,
);

```

=head1 INTRODUCTION

(by  
Mark-Jason Dominus)

I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

a b c d f g h j q z

a b c d e f g i j k r x y z

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

a b c d f g j z

From there it's only a small step to get diff-like output:

```

e h i k q r x y
+ - + + - + + +

```

This module solves the LCS problem. It also includes a canned

function  
to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
a x b y c z p d q
a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
a x b y c      z p d q
a  b  c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
a x b y c z p d q
a b c a x b y c z
```

or

```
a  x b y c z p d q
a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS\_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse\_sequences>, and C<traverse\_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```



C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );  
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS\_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );  
my @list1 = @seq1[ @$idx1 ];  
my @list2 = @seq2[ @$idx2 ];  
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );  
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

- [ ] Encloses optional arguments
- : Is followed by the default value for an optional argument
- | Separates alternate return results

Method summary:

```
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );
$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

```
$bits = $obj->Diff( );
@items|$cnt = $obj->Same( );
@items|$cnt = $obj->Items( $seqNum );
@idxs|$cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );
```

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item  
C<Next>

```
$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
```

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk. So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev(\$N)> is almost identical to C<Next(-\$N)>; it moves to the \$Nth

previous hunk. On a 'reset' object, C<Prev(> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

```
$diff->Reset(); # Reset the
object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1); # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk
```

C<Reset> returns the object, so, for example, you could use  
C<< \$diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

```
$copy = $diff->Copy( $newPos, $newBase );
```

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

```
$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);
```

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

```
$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
```

Here are two equivalent way to get a "reset" copy:

```
$copy = $diff->Copy(0);
```

```
$copy = $diff->Copy()->Reset();
```

=item C<Diff>

```
$bits = $obj->Diff();
```

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar

context, it returns the size of the list.

=item C<Items>

```
$count = $diff->Items(2);  
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then

C<< \$diff->Items(1) >> will return an empty list (0 in a scalar context).

If the current hunk contains only deletions, then C<< \$diff->Items(2) >> will return an empty list (0 in a scalar context).

If the hunk contains replacements,

then both C<< \$diff->Items(1) >> and

C<< \$diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```
@items = $diff->Items(1);  
@items = $diff->Items(2);  
@items = $diff->Same();
```

=item C<Range>

```
$count = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum );  
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of I<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```
@list = $diff->Items(2);  
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```
@list = $diff->Items(1);  
@list = @seq1[ $diff->Range(1,0)  
];
```

=item C<Base>

```
$curBase = $diff->Base();  
$oldBase = $diff->Base($newBase);
```

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

```
$min1 = $diff->Min(1);  
$min = $diff->Min( $seqNum, $base );
```

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

```
( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));  
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));
```

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

```
/(?-?\d+)?(min|max)[12]$/i  
/^(range[12]|same|diff|base)$/i
```

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

```
$diff->Get('min1') == $diff->Min(1)  
$diff->Get('0min2') == $diff->Min(2,0)
```

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference to a hash which can be used when comparing this sequence to other sequences with C<LCS> or C<LCS\_length>.

```
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
```

C<prepare> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
$prep = prepare( \@seq1, \&keyGen );
for $i (
0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
```

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

```
@diffs = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );
```

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

would produce the following list:

```
(
  [ [ '-', 0, 'a' ] ],

  [ [ '+', 2, 'd' ] ],

  [ [ '-', 4, 'h' ],
    [ '+', 4, 'f' ] ],

  [ [ '+', 6, 'k' ] ],

  [ [ '-', 8, 'n' ],
    [ '-', 9, 'p' ],
    [ '+', 9, 'r' ],
    [ '+', 10, 's' ],
    [ '+', 11, 't' ] ],
)
```

There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

```
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
```

C<sdiff>

computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

|        |   |       |
|--------|---|-------|
| same   |   | same  |
| before |   | after |
| old    | < | -     |
| -      | > | new   |



It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

results in

```
( [ '-', 'a', " ],
  [ 'u', 'b', 'b' ],
  [ 'u', 'c', 'c' ],
  [ '+', " ", 'd' ],
  [ 'u', 'e', 'e' ],
  [ 'c', 'h', 'f' ],
  [ 'u', 'j', 'j' ],
  [ '+', " ", 'k' ],
  [ 'u', 'l', 'l' ],
  [ 'u', 'm', 'm' ],
  [ 'c', 'n', 'r' ],
  [ 'c', 'p', 's' ],
  [ '+', " ", 't' ],
)
```

C<sdiff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<compact\_diff>

C<compact\_diff> is much like C<sdiff> except it returns a much more compact description consisting of just one flat list of indices. An example helps explain the format:

```
my @a = qw( a b c e h j l m n p );
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
```

```

# Returns:
# @a  @b  @a  @b
# start start values values
( 0, 0, # =
  0, 0, # a !
  1, 0, # b c = b c
  3, 2, # ! d
  3, 3, # e = e
  4, 4, # f ! h
  5, 5, # j = j
  6, 6, # ! k
  6, 7, # l m = l m
  8, 9, # n p ! r s t
  10, 12, #
);

```

The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items

C<\$diff[0]> through C<\$diff[2] - 1> of the first sequence  
and contains items C<\$diff[1]> through C<\$diff[3] - 1> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```

# 1st pair  2nd pair
# of indices of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end

```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];  
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];  
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];  
# or  
@hunk2a = @a[ 0 .. 1-1 ];  
@hunk2b = @b[ 0 .. 0-1 ];  
# or  
@hunk2a = @a[ 0 .. 0 ];  
@hunk2b = @b[ 0 .. -1 ];  
# or  
@hunk2a = ( 'a' );  
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];  
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];  
# or  
@hunk3a = @a[ 1 .. 3-1 ];  
@hunk3a = @b[ 0 .. 2-1 ];  
# or
```

```

    @hunk3a = @a[ 1 .. 2 ];
    @hunk3a = @b[ 0 .. 1 ];
# or
    @hunk3a = qw( b c );
    @hunk3a = qw( b c );

```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

```
=head2 C<traverse_sequences>
```

C<traverse\_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse\_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<\$A[\$i]> and C<\$B[\$j]> which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse\_sequences> when arrow A is pointing to C<\$A[\$i]> and arrow B is pointing to C<\$B[\$j]>. When this happens, C<traverse\_sequences> will call the C<MATCH> callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse\_sequences> will advance that arrow and will call the C<DISCARD\_A> or the C<DISCARD\_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse\_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse\_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```

traverse_sequences(
    \@seq1, \@seq2,
    { MATCH => $callback_1,

```

```

        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);

```

Callbacks for MATCH, DISCARD\_A, and DISCARD\_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A\_FINISHED and B\_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse\_sequences> will call the C<A\_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD\_B> instead. Similarly if arrow B finishes first. C<traverse\_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse\_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```

traverse_sequences(
    \@seq1, \@seq2,
    { MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
    },
    undef,    # default key-gen
    $myArgument1,
    $myArgument2,
    $myArgument3,
);

```

C<traverse\_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse\_balanced>

C<traverse\_balanced> is an alternative to C<traverse\_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD\_A>, C<DISCARD\_B>, and C<MATCH> callbacks supported by C<traverse\_sequences>, C<traverse\_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```
traverse_balanced(  
  \@seq1, \@seq2,  
  { MATCH => $callback_1,  
    DISCARD_A => $callback_2,  
    DISCARD_B => $callback_3,  
    CHANGE  => $callback_4,  
  }  
);
```

If no C<CHANGE> callback is specified, C<traverse\_balanced> will map C<CHANGE> events to C<DISCARD\_A> and C<DISCARD\_B> actions, therefore resulting in a similar behaviour as C<traverse\_sequences> with different order of events.

C<traverse\_balanced> might be a bit slower than C<traverse\_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse\_balanced>.

C<traverse\_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

## =head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq"

and elements will be turned into keys  
using the default stringizing operator ""."

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```
package Person;

sub new
{
    my $package = shift;
    return bless { name => "", ssn => "", @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );
```

If you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4, $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2 );
```

\$person4 and \$person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

```
my $array1 = [ $person1, $person2, $person4 ];
my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
Algorithm::Diff::diff( $array1, $array2, \&Person::hash );
```

This would use the 'ssn' field in each Person as a comparison key, and so would consider \$person4 and \$person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (<http://perlmonks.org/?node=tye>).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to [mjd-perl-diff-request@plover.com](mailto:mjd-perl-diff-request@plover.com).

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, [mjd-perl-diff@plover.com](mailto:mjd-perl-diff@plover.com)



This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at <ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st>

C<sdiff> and C<traverse\_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in I<A Fast Algorithm for Computing Longest Common Subsequences>, CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

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ExtUtils::MakeMaker: '0'

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meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: '1.4'

name: Algorithm-Diff

no\_index:

directory:

- t

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requires: {}

version: '1.1903'

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# 1.192 expect 5.45.4-2build1

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Expect

Written by: Don Libes, libes at nist.gov, NIST

Design and implementation of this program was paid for by U.S. tax dollars. Therefore it is public domain. However, the author and NIST would appreciate credit if this program or parts of it are used.

# 1.193 python-distro 1.4.0-1

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Thanks!

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\* <https://github.com/SethMichaelLarson>

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# 1.206 python-certifi 2019.11.28-1

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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 \$

## 1.207 usb-ids 2020.03.19-1

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This package was debianized by Aurelien Jarno <aurel32@debian.org> on Sun, 03 Feb 2019 11:50:47 +0100

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## 1.209 ssh-import-id 5.10-0ubuntu1

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Source: <http://launchpad.net/ssh-import-id>

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

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Version 2.1, February 1999

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## 1.213 lsb 11.1.0ubuntu2

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Files: \*

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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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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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## 1.218 libxcrypt 4.4.10-10ubuntu4

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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.

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

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

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

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

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

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

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

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

compelled to copy the source along with the object code.

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

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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.

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\*/

/\* checkTag : validation tool for libzstd

\* command :

\* \$ ./checkTag tag

\* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}

\* The tag is then compared to zstd version number.

\* They are compatible if first 3 digits are identical.

\* Anything beyond that is free, and doesn't impact validation.

\* Example : tag v1.8.1.2 is compatible with version 1.8.1

\* When tag and version are not compatible, program exits with error code 1.

\* When they are compatible, it exists with a code 0.

\* checkTag is intended to be used in automated testing environment.

\*/

## 1.226 libtasn 4.16.0-2



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"Source code" for a work means the preferred form of the work for

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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

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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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- 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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Version 3, 29 June 2007

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## TERMS AND CONDITIONS

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The

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## 1.229 ansible-modules-hashivault 4.5.5

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=====

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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.

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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
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| 3.0     | 2.6          | 2008 | PSF   | yes                 |
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| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
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| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.232 msgpack 0.6.2

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# 1.233 pyyaml 5.3.1-1ubuntu0.1

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# 1.234 lz4 1.9.2-2ubuntu0.20.04.1

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Upstream-Name: lz4

Source: <https://github.com/Cyan4973/lz4>

Files: \*

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Files: lib/\*

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lib/lz4frame\_static.h

lib/xxhash.c

lib/xxhash.h

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Files: ./examples/printVersion.c

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./examples/blockStreaming\_doubleBuffer.c

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./examples/blockStreaming\_ringBuffer.c

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## 1.235 python-stdlib-extensions 3.8.10-0ubuntu1~20.04

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Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/literals.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/grammar.py
*
/ python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/pgen.py
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```

```
('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_rpm.py
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```

executable.

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```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/spawn.py
```

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```
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```

```
# A grammar to describe tree matching patterns.  
# Not shown here:  
# - 'TOKEN' stands for any token (leaf node)  
# - 'any' stands for any node (leaf or interior)  
# With 'any' we can still specify the sub-structure.
```

```
# The start symbol is 'Matcher'.
```

```
Matcher: Alternatives ENDMARKER
```

```
Alternatives: Alternative (' Alternative)*
```

```
Alternative: (Unit | NegatedUnit)+
```

```
Unit: [NAME '=' ( STRING [Repeater]  
      | NAME [Details] [Repeater]  
      | '(' Alternatives ')' [Repeater]  
      | '[' Alternatives '']  
      )
```

```
NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')
```

```
Repeater: '*' | '+' | '{' NUMBER [, NUMBER ] '}'
```

```
Details: '<' Alternatives '>'
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/PatternGrammar.txt  
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/PatternGrammar.txt  
*
```

```
/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/PatternGrammar.txt
```

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```
/*****
```

```
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```
*****/
```

Found in path(s):

```
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Modules/_tkinter.c  
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Modules/_tkinter.c
```

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Modules/\_tkinter.c

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\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/driver.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/driver.py

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Found in path(s):

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pygram.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_print.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_apply.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/refactor.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/patcomp.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixer\_base.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/patcomp.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_long.py

\*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/patcomp.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/tests/test\_pytree.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-

3.8.2/3.6/Lib/lib2to3/tests/pytree\_idempotency.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_execfile.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_long.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pytree.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pytree.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix\_repr.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_exec.py

\*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixer\_base.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/refactor.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-

3.8.2/3.7/Lib/lib2to3/tests/pytree\_idempotency.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_ne.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_has\_key.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_print.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_execfile.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_repr.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixer\_base.py

\*

/python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix\_has\_key.py

\* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix\_apply.py

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pytree.py
*
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_has_key.py
*
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_exec.py
No license file was found, but licenses were detected in source scan.

```

```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/dist.py
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```

```
# version.
```

Found in path(s):

```

* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.6/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-
3.8.2/3.7/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-8-2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/distutils/cygwinccompiler.py
*

```



```

/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/distutils/cygwinccompiler.py
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Found in path(s):
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_dict.py
*
/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_filter.py
*
/python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/fixes/fix_map.py
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Found in path(s):
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.6/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3.8.2-orig-tar-xz/python3-stdlib-extensions-3.8.2/3.7/Lib/lib2to3/pgen2/tokenize.py

```

# 1.236 libnettle6 3.5.1+really3.5.1-2ubuntu0.2

## 1.236.1 Available under license :

```
/* nettle-internal.c
```

Things that are used only by the testsuite and benchmark, and

not included in the library.

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Upstream-Name: Nettle

Upstream-Contact: Niels Mller <nisse@lysator.liu.se>

Source: <http://www.lysator.liu.se/~nisse/nettle/>

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.

A list of the supported algorithms, their origins and licenses (from the manual):

.

## AES

The implementation of the AES cipher (also known as rijndael) is written by Rafael Sevilla. Assembler for x86 by Rafael Sevilla and Niels Mller, Sparc assembler by Niels Mller. Released under the LGPL.

.

## ARCFOUR

The implementation of the ARCFOUR (also known as RC4) cipher is written by Niels Mller. Released under the LGPL.

.

## ARCTWO

The implementation of the ARCTWO (also known as RC2) cipher is written by Nikos Mavroyanopoulos and modified by Werner Koch and Simon Josefsson. Released under the LGPL.

.

## BLOWFISH

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.

## CAMELLIA

The C implementation is by Nippon Telegraph and Telephone Corporation (NTT), heavily modified by Niels Mller. Assembler for x86 and x86\_64 by Niels Mller. Released under the LGPL.

.

## CAST128

The implementation of the CAST128 cipher is written by Steve Reid. Released into the public domain.

.

## DES

The implementation of the DES cipher is written by Dana L. How, and released under the LGPL.

.

## MD2

The implementation of MD2 is written by Andrew Kuchling, and hacked some by Andreas Sigfridsson and Niels Mller. Python Cryptography Toolkit license (essentially public domain).

.

## MD4

This is almost the same code as for MD5 below, with modifications by Marcus Comstedt. Released into the public domain.

.

## MD5

The implementation of the MD5 message digest is written by Colin Plumb. It has been hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain.

.

## SERPENT

The implementation of the SERPENT is based on the code in libgcrypt, copyright owned by the Free Software Foundation. Adapted to Nettle by Simon Josefsson and heavily modified by Niels Mller. Assembly for x86\_64 by Niels Mller. Released under the LGPL.

.

## SHA1

The C implementation of the SHA1 message digest is written by Peter Gutmann, and hacked some more by Andrew Kuchling and Niels Mller. Released into the public domain. Assembler for x86 by Niels Mller, released under the LGPL.

.

## SHA224, SHA256, SHA384, and SHA512

Written by Niels Mller, using Peter Gutmann's SHA1 code as a model. Released under the LGPL.

.

## TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

.

## RSA

Written by Niels Mller, released under the LGPL. Uses the GMP library for bignum operations.

.

## DSA

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Files: serpent-encrypt.c serpent-decrypt.c serpent-set-key.c

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Files: sha\*

Copyright: 2001, 2004 Peter Gutmann, Andrew Kuchling, Niels Mller

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Files: twofish\*

Copyright: 1999 Ruud de Rooij <ruud@debian.org>

1999 J.H.M. Dassen (Ray) <jdassen@wi.LeidenUniv.nl>

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Files: dsa2sexp.c

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Files: testsuite/des-compat-test.c

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## 1.245 josharian-intern 1.0.0

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## 1.251 aec 1.0.0

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

The hypothetical commands

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```
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```

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

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Any

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# 1.265 gofrs-flock 0.8.1

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## 1.266 icu 66.1-2ubuntu2.1

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```
## *-makefile*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

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

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

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

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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## 1.275 popt 1.16-14

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

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

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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=====

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-->

```

<!-- $Id$ -->

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

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

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param
name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>

```

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

```
<!--
```

```
- Local variables:
- mode: sgml
- End:
```

```
-->
```

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## 1.281 pcre 7.8

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.

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To: Jonathan Nieder <[jrnieder@gmail.com](mailto: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,
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  - windows/README
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Files: INSTALL NEWS PACKAGERS

windows/README-Windows.txt

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Files: src/scripts/\* lib/\* extra/scanlзма/scanlзма.c

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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

Copyright: 2002-2006, 2008 Free Software Foundation, Inc.

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Files: m4/acx\_pthread.m4

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<stevenj@alum.mit.edu>

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files: m4/ax\_check\_capsicum.m4

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Files: Doxyfile.in

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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

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src/liblzma/check/crc64\_tablegen.c

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src/liblzma/rangecoder/price\_tablegen.c

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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, and thus don't contain any copyrighted code.

Files: po/cs.po po/de.po po/fr.po

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2011, Adrien Nader

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Files: po/it.po po/pl.po

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Files: dos/config.h

Copyright: 1992, 1993, 1994, 1999, 2000, 2001, 2002, 2005

Free Software Foundation, Inc.

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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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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
Foundation, Inc.
Authors: Bruno Haible
License: LGPL-2.1+
The gettext-runtime package is under the LGPL, see files intl/COPYING.LIB-2.0
and intl/COPYING.LIB-2.1.
.
On Debian systems, the complete text of intl/COPYING.LIB-2.0 from
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
/usr/share/common-licenses/LGPL-2.1.
.
po/Makevars consists mostly of helpful comments and does not contain a

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Files: debian/\*

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# 1.288 gzip 1.10-0ubuntu4.1

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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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Version: 0.0.0  
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\* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages\_extracted/wheel/103/pkg\_resources-0.0.0.dist-info/METADATA

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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.

# 1.299 networkd-dispatcher 2.1-2~ubuntu20.04.3

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## 1.307 e2fsprogs 1.45.5-2ubuntu1.1

### 1.307.1 Available under license :

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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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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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): \$(OBS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-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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Gadi Oxman, August 1995

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Theodore Ts'o  
23-June-2007

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3GPP TS 26.173  
ANSI-C code for the Adaptive Multi-Rate - Wideband (AMR-WB) speech codec  
Available from <http://www.3gpp.org>

# 1.310 cifs-utils 6.9-1ubuntu0.2

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Version 3, 29 June 2007

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|                  |                           |
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\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.320 audit 2.8.5-2ubuntu6

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## 1.322 zlib 1.2.11.dfsg-2ubuntu1.5

### 1.322.1 Available under license :

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```
/* gun.c -- simple gunzip to give an example of the use of inflateBack()
 * Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 * Version 1.7 12 August 2012 Mark Adler */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c

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```
/* gzwrite.c -- zlib functions for writing gzip files
 * Copyright (C) 2004-2017 Mark Adler
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 */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c

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```
/* inffast.h -- header to use inffast.c
 * Copyright (C) 1995-2003, 2010 Mark Adler
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 */
```

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zlib\_how.html

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/\* unzip.c -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.  
Code woven in by Terry Thorsen 1/2003.

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See the accompanying

file LICENSE, version 2000-Apr-09 or later

(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

-----  
Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl\_unzGetCurrentFileZStreamPos  
2007-2008 - Even Rouault - Decoration of symbol names unz\* -> cpl\_unz\*  
2007-2008 - Even Rouault - Remove old C style function prototypes  
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl\_\* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).

Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G  
should only read the compressed/uncompressed size from the Zip64 format if  
the size from normal header was 0xFFFFFFFF

Oct-2009 - Mathias Svensson - Applied some bug fixes from patches received from Gilles Vollant

Oct-2009 - Mathias Svensson - Applied support to unzip files with compression method  
BZIP2 (bzip2 lib is required)

Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3

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/\* inflate.c -- zlib decompression

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c

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/\* infback.c -- inflate using a call-back interface

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c

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/\* gzlog.h

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version 2.2, 14 Aug 2012

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h

No license file was found, but licenses were detected in source scan.

/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler

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\*/



Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c

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/\* inflate.h -- internal inflate state definition

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\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

/\* 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

jloop@gzip.org

madler@alumni.caltech.edu

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

\*/

No license file was found, but licenses were detected in source scan.

/\* zip.h -- IO on .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

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Modifications for Zip64 support

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For more info read MiniZip\_info.txt

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-----

Changes

See header of zip.h

\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h

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/\*

\* gzlog.c

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\* version 2.2, 14 Aug 2012

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c

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/\* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c

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## ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `test/example.c` which also tests that the library is working correctly. Another example is given in the file `test/minigzip.c`. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short `./configure; make test`, and if that goes well, `make install` should work for most flavors of Unix. For Windows, use one of the special makefiles in `win32/` or `contrib/vstudio/`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://zlib.net/>. Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html) before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available at <http://marknelson.us/1997/01/01/zlib-engine/>.

The changes made in version 1.2.11 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory `contrib/`.

zlib is available in Java using the `java.util.zip` package, documented at <http://java.sun.com/developer/technicalArticles/Programming/compression/>.

A Perl interface to zlib written by Paul Marquess [<pmqs@cpan.org>](mailto:pmqs@cpan.org) is available at CPAN (Comprehensive Perl Archive Network) sites, including <http://search.cpan.org/~pmqs/IO-Compress-Zlib/>.

A Python interface to zlib written by A.M. Kuchling [<amk@amk.ca>](mailto:amk@amk.ca) is available in Python 1.5 and later versions, see <http://docs.python.org/library/zlib.html>.

zlib is built into tcl: <http://wiki.tcl.tk/4610>.

An experimental package to read and write files in `.zip` format, written on top of zlib by Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com), is available in the `contrib/minizip` directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see `win32/DLL_FAQ.txt`
- For 64-bit Irix, `deflate.c` must be compiled without any optimization. With `-O`, one `libpng` test fails. The test works in 32 bit mode (with the `-n32`

compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formerly OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS or BEOS.
- For PalmOs, see <http://palmzlib.sourceforge.net/>

#### Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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

If you use the zlib library in a product, we would appreciate \*not\* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README

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/\* fitblk.c: example of fitting compressed output to a specified size

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Version 1.1 25 November 2004 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c

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/\* gzread.c -- zlib functions for reading gzip files

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c

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

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h

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/\* inftrees.h -- header to use inftrees.c

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Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infrees.h

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/\* deflate.c -- compress data using the deflation algorithm

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\*/

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\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h

No license file was found, but licenses were detected in source scan.

/\* zconf.h -- configuration of the zlib compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in
- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein

No license file was found, but licenses were detected in source scan.

```
/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c

No license file was found, but licenses were detected in source scan.

```
/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c

No license file was found, but licenses were detected in source scan.

```
/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c

No license file was found, but licenses were detected in source scan.

```
/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

- \* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c

No license file was found, but licenses were detected in source scan.

```
/* zutil.c -- target dependent utility functions for the compression library
* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```



Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c

No license file was found, but licenses were detected in source scan.

/\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c

No license file was found, but licenses were detected in source scan.

/\*

Additional tools for Minizip

Code: Xavier Roche '2004

License: Same as ZLIB (www.gzip.org)

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c

No license file was found, but licenses were detected in source scan.

/\* trees.c -- output deflated data using Huffman coding

\* Copyright (C) 1995-2017 Jean-loup Gailly

\* detect\_data\_type() function provided freely by Cosmin Truta, 2006

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c

No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

-----

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant ( <http://www.winimage.com/zLibDll/minizip.html> )

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.  
All possible work was done for compatibility.

Background

-----

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64 support for unzip.c into minizip for a open source project called gdal ( <http://www.gdal.org/> )

That was used as a starting point. And after that ZIP64 support was added to zip.c some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1

- 
- \* Added ZIP64 support for unzip ( by Even Rouault )
- \* Added ZIP64 support for zip ( by Mathias Svensson )
- \* Reverted some changes that Even Rouault did.
- \* Bunch of patches received from Gilles Vollant that he received for MiniZip from various users.
- \* Added unzip patch for BZIP Compression method (patch created by Daniel Borca)
- \* Added BZIP Compress method for zip
- \* Did some refactoring and code cleanup

#### Credits

Gilles Vollant - Original MiniZip author  
Even Rouault - ZIP64 unzip Support  
Daniel Borca - BZip Compression method support in unzip  
Mathias Svensson - ZIP64 zip support  
Mathias Svensson - BZip Compression method support in zip

#### Resources

ZipLayout <http://result42.com/projects/ZipFileLayout>

Command line tool for Windows that shows the layout and information of the headers in a zip archive.  
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note <http://www.pkware.com/documents/casestudies/APPNOTE.TXT>  
Zip File specification

#### Notes.

- \* To be able to use BZip compression method in zip64.c or unzip64.c the BZIP2 lib is needed and HAVE\_BZIP2 need to be defined.

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-----  
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-----

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64\_info.txt

No license file was found, but licenses were detected in source scan.

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c

No license file was found, but licenses were detected in source scan.

/\* gzclose.c -- zlib gzclose() function

\* Copyright (C) 2004, 2010 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c

No license file was found, but licenses were detected in source scan.

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.1, February 14h, 2010

part of the MiniZip project - ( <http://www.winimage.com/zLibDll/minizip.html> )

Copyright (C) 1998-2010 Gilles Vollant (minizip) ( <http://www.winimage.com/zLibDll/minizip.html> )

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip

Copyright (C) 2009-2010 Mathias Svensson ( <http://result42.com> )

For more info read MiniZip\_info.txt

-----  
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-----  
Changes

See header of unzip64.c

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h

No license file was found, but licenses were detected in source scan.

/\* zran.c -- example of zlib/gzip stream indexing and random access

\* Copyright (C) 2005, 2012 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

Version 1.1 29 Sep 2012 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2017 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c

No license file was found, but licenses were detected in source scan.

/\* crc32.c -- compute the CRC-32 of a data stream

\* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster

\* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing

\* tables for updating the shift register in one step with three exclusive-ors

\* instead of four steps with four exclusive-ors. This results in about a

\* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c

No license file was found, but licenses were detected in source scan.

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2011, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c

No license file was found, but licenses were detected in source scan.

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h

No license file was found, but licenses were detected in source scan.

/\* gzguts.h -- zlib internal header definitions for gz\* operations

\* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h

No license file was found, but licenses were detected in source scan.

/\* zpipe.c: example of proper use of zlib's inflate() and deflate()

Not copyrighted -- provided to the public domain

Version 1.4 11 December 2005 Mark Adler \*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c

No license file was found, but licenses were detected in source scan.

/\* gzappend -- command to append to a gzip file

Copyright (C) 2003, 2012 Mark Adler, all rights reserved

version 1.2, 11 Oct 2012

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c

No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://zlib.net/> which may have more recent information.

The latest zlib FAQ is at [http://zlib.net/zlib\\_faq.html](http://zlib.net/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL\_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at <http://zlib.net/> .

3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://marknelson.us/1997/01/01/zlib-engine/>

- \* win32/DLL\_FAQ.txt in the zlib distribution

4. compress() returns Z\_BUF\_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual

Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z\_BUF\_ERROR.

Before making the call, make sure that avail\_in and avail\_out are not zero. When setting the parameter flush equal to Z\_FINISH, also make sure that avail\_out is big enough to allow processing all pending input. Note that a Z\_BUF\_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z\_BUF\_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail\_out returns with zero. See [http://zlib.net/zlib\\_how.html](http://zlib.net/zlib_how.html) for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the

corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org) . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

```
example.o(.text+0x154): undefined reference to `gzputc'
```

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.

Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it. You can check the version at the top of `zlib.h` or with the `ZLIB_VERSION` symbol defined in `zlib.h` .



15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16.

Can zlib decode Flate data in an Adobe PDF file?

Yes. See <http://www.pdflib.com/> . To modify PDF forms, see <http://sourceforge.net/projects/acroformtool/> .

17. Why am I getting this "register\_frame\_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol `__register_frame_info` is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See <http://www.sunfreeware.com> for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz\* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's \*Init\* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB\_VERSION and ZLIB\_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB\_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.

Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use `Z_FULL_FLUSH`, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use `Z_FULL_FLUSH` too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See `examples/zran.c`.

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

32. Can zlib work with greater than 4 GB of data?

Yes. `inflate()` and `deflate()` will process any amount of data correctly.

Each call of `inflate()` or `deflate()` is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the `strm.total_in` and `strm_total_out` counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by `inflate()` or `deflate()`. The application can easily set up its own counters updated after each call of `inflate()` or `deflate()` to count beyond 4 GB. `compress()` and `uncompress()` may be limited to 4 GB, since they operate in a single call. `gzseek()` and `gztell()` may be limited to 4 GB depending on how zlib is compiled. See the `zlibCompileFlags()` function in `zlib.h`.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

### 33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in `gzprintf()`. If zlib is compiled to use `sprintf()` or `vsprintf()`, then there is no protection against a buffer overflow of an 8K string space (or other value as set by `gzbuffer()`), other than the caller of `gzprintf()` assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use `snprintf()` or `vsnprintf()`, which should normally be the case, then there is no vulnerability. The `./configure` script will display warnings if an insecure variation of `sprintf()` will be used by `gzprintf()`. Also the `zlibCompileFlags()` function will return information on what variant of `sprintf()` is used by `gzprintf()`.

If you don't have `snprintf()` or `vsnprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

### 34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://zlib.net/>.

### 35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use GnuPG, <http://www.gnupg.org/>, which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.

Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

## 1.323 docker-credential-helpers 0.7.0

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## 1.324 go-errors-errors 1.4.2

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## 1.325 d-bus 1.12.16-2ubuntu2.3

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### 20.04+20220818

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principal author, although it includes many contributions from others.

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

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

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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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  
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In May 2000, Guido and the Python core development team moved to  
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## 1.339 zlib 1.2.13

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## 1.340 xstrings 1.4.0

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@end macro  
  
@macro copyrightstart{}  
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@end macro
```

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@node Copyrights and Licenses, , Acknowledgments, Top  
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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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# 1.352 mpfr 4.0.2-1

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```
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## 1.355 argon2 0~20171227-0.2

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Unix SMB/CIFS implementation.

Samba temporary memory allocation functions

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began

maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to [sudo@sudo.ws](mailto:sudo@sudo.ws).

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard

Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbess, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul

Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot

Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri

Diguez,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.362 go-containerregistry 0.14.0

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2006-Jan-27

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#

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
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#
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Gocheck - A rich testing framework for Go

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

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## 1.370 grub2 2.04-1ubuntu26.17

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Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>

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Version 3, 29 June 2007

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## 1.377 prometheus-procfs 0.10.1

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

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Current maintainers are: [Paul Miller](<http://paulmillr.com>), [Jordan Harband](<https://github.com/ljharb>), and [C. Scott Ananian](<http://cscott.net>).

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## 1.382 treeprint 1.2.0

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## 1.384 libnss-nis 3.2

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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.

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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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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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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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gfdl(7), fsf-funding(7).

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(if

any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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@enumerate a

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@enumerate

a

@item

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@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written

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@item

Convey individual copies of the object code with a copy of the written offer

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@item

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@item

Convey the object

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DRuntime: Runtime Library for the D Programming Language

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

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

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Version 2, June 1991

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[This is the first released version of the library GPL. It is  
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### 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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended



to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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

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

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a.

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

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

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## 1.393 amd64-microcode

## 3.20191218.1ubuntu1.2

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

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

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## 1.395 cyphar-filepath-securejoin 0.2.4

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## 1.396 go-restful 3.11.0

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## 1.406 oras.land-oras-go 1.2.4

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on:

push:

branches:

- main

- release-\*

pull\_request:

branches:

- main

- release-\*

permissions:

contents: write

pull-requests: write

jobs:

```
check-license:
  runs-on: ubuntu-latest
  steps:
    - name: Checkout
      uses: actions/checkout@v4
    - name: Check license header
      uses: apache/skywalking-eyes/header@v0.5.0
      with:
        mode:
check
  config: .github/licenserc.yml
  - name: Check dependencies license
    uses: apache/skywalking-eyes/dependency@v0.5.0
    with:
      config: .github/licenserc.yml
```

# 1.407 python-pip 20.0.2

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Any executables

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contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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                 |
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| 2.6.3   | 2.6.2        | 2009 | PSF   | yes                 |
| 2.6.4   | 2.6.3        | 2009 | PSF   | yes                 |
| 2.6.5   | 2.6.4        | 2010 | 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                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
| 2012    | PSF          | yes  |       |                     |

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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 (now Zope  
Corporation, see <http://www.zope.com>). In 2001, the Python Software  
Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
non-profit organization created specifically to own Python-related  
Intellectual Property. Zope Corporation is a sponsoring member  
of  
the PSF.

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

| Release        | Derived<br>from | Year      | Owner      | GPL-<br>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     |
| 2.2   | 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     |
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| 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     |
| 2.6.5 | 2.6.4     | 2010      | 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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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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## 1.408 python-setuptools 44.0.0

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## 1.409 python-certifi 2019.11.28

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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 \$

## 1.410 vcs 1.13.3

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## 1.411 contrib-instrumentation-net-http- otelhttp 0.45.0

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## 1.412 google-go-cmp 0.6.0

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# 1.415 ansible 6.7.0

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# Test code for the vcenter license module.

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- name: Add a vCenter evaluation license

```
vcenter_license: &vcenter_lic_data
hostname: "{{ vcenter_hostname }}"
username: "{{ vcenter_username }}"
password: "{{ vcenter_password }}"
validate_certs: false
license: 00000-00000-00000-00000-00000
state: present
```

- name: Remove an (unused) vCenter evaluation license

```
vcenter_license:
  <<: *vcenter_lic_data
state: absent
```

- name: Add an invalid vCenter license

```
vcenter_license:
  <<: *vcenter_lic_data
license: 00000-00000-00000-00000-00001
state: present
register: vcenter_license_output
failed_when: "'is not existing or can not be added' not in vcenter_license_output.msg'
cloud/vcenter
zuul/vmware/vcenter_only
GNU General Public License v3.0+ (see LICENSES/GPL-3.0-or-later.txt or https://www.gnu.org/licenses/gpl-3.0.txt)
SPDX-License-Identifier: GPL-3.0-or-later
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Upstream-Contact: <https://github.com/ansible-community/antsibull>

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- lib/gssapi/generic/gssapi\_err\_generic.et
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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
- 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
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- 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/ipropr\_hdr.h
- kadmin/server/ipropr\_svc.c
- lib/kdb/ipropr.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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# Contributions to the urllib3 project

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\* 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
  
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- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto: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](mailto: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](mailto: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]

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# 1.424 apt 2.0.10

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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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| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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                 |
| 2.6.5   | 2.6.4        | 2010 | 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                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
| 2012    | PSF          | yes  |       |                     |

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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 |
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| 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 |
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| 2.6.5 | 2.6.4 | 2010      | 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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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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?RCS:

?MAKE:i\_quadmath: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_quadmath:

?S: This variable conditionally defines I\_QUADMATH, which indicates

?S: to the C program that it should include <quadmath.h>.

?S:.

?C:I\_QUADMATH:

?C: This symbol, if defined, indicates that <quadmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_quadmath I\_QUADMATH /\*\*/

?H:.

?LINT:set i\_quadmath

: see if this is a quadmath.h system

set quadmath.h i\_quadmath

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_quadmath.U

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?RCS:

?MAKE:d\_strtold\_l: Inlibc

```
?MAKE: -pick add $@ %<
?S:d_strtold_l:
?S: This variable conditionally defines the HAS_STRTOLD_L symbol, which
?S: indicates to the C program that the strtold_l() routine is available.
?S:.
?C:HAS_STRTOLD_L:
?C: This symbol, if defined, indicates that the strtold_l routine is
?C: available to convert strings to long doubles.
?C:.
?H:#$d_strtold_l HAS_STRTOLD_L /**/
?H:.
?LINT:set d_strtold_l
: see if strtold_l exists
set strtold_l d_strtold_l
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d\_strtold\_l.U

No license file was found, but licenses were detected in source scan.

```
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?RCS: as specified in the README file that comes with the distribution.
?RCS:
```

```
?MAKE:i_fenv: Inhdr
?MAKE: -pick add $@ %<
?S:i_fenv:
?S: This variable conditionally defines the I_FENV symbol, which
?S: indicates to the C program that <fenv.h> exists and should
?S: be included.
?S:.
?C:I_FENV:
?C: This symbol, if defined, indicates to the C program that it should
?C: include <fenv.h> to get the floating point environment definitions.
?C:.
?H:#$i_fenv I_FENV /**/
?H:.
?LINT:set i_fenv
: see if this is a fenv.h system
set fenv.h i_fenv
eval $inhdr
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_fenv.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
```

```
?MAKE:d_acosh: Inlibc
?MAKE: -pick add $@ %<
?S:d_acosh:
?S: This variable conditionally defines the HAS_ACOSH symbol, which
?S: indicates to the C program that the acosh() routine is available.
?S:.
?C:HAS_ACOSH:
?C: This symbol, if defined, indicates that the acosh routine is
?C: available to do the inverse hyperbolic cosine function.
?C:.
?H:#$d_acosh HAS_ACOSH /**/
?H:.
?LINT:set d_acosh
: see if acosh exists
set acosh d_acosh
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_acosh.U

No license file was found, but licenses were detected in source scan.

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

```
?MAKE:d_rint: Inlibc
```

```
?MAKE: -pick add $@ %<
```

```
?S:d_rint:
```

```
?S: This variable conditionally defines the HAS_RINT symbol, which
```

```
?S: indicates to the C program that the rint() routine is available.
```

```
?S:.
```

```
?C:HAS_RINT:
```

```
?C: This symbol, if defined, indicates that the rint routine is
```

```
?C: available to return the nearest integral value to x as double
```

```
?C: using the current rounding mode.
```

```
?C:.
```

```
?H:#$d_rint HAS_RINT /**/
```

```
?H:.
```

```
?LINT:set d_rint
```

```
: see if rint exists
```

```
set rint d_rint
```

```
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_rint.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysutsname.U,v $
```

```
?RCS:
```



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 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:i\_sysutsname: Inhdr Hasfield  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_sysutsname:  
 ?S: This variable conditionally defines the I\_SYSUTSNAME symbol,  
 ?S: and indicates whether a C program should include <sys/utsname.h>.  
 ?S:.  
 ?C:I\_SYSUTSNAME:  
 ?C: This symbol, if defined, indicates that <sys/utsname.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_sysutsname I\_SYSUTSNAME /\*\*/  
 ?H:.  
 ?LINT:set i\_sysutsname  
 : see if this is a sys/utsname.h system  
 set sys/utsname.h i\_sysutsname  
 eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysutsname.U

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 ?RCS:  
 ?MAKE:i\_stdint: Inhdr  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_stdint:  
 ?S: This variable conditionally defines the I\_STDINT symbol, which  
 ?S: indicates to the C program that <stdint.h> exists and should  
 ?S: be included.  
 ?S:.  
 ?C:I\_STDINT:  
 ?C: This symbol, if defined, indicates that <stdint.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_stdint I\_STDINT /\*\*/  
 ?H:.  
 ?LINT:set i\_stdint  
 : see if stdint is available  
 set stdint.h i\_stdint  
 eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_stdint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: baserev.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:24 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?MAKE:baserev: Null

?MAKE: -pick wipe \$@ %<

?S:baserev:

?S: The base revision level of this package, from the .package file.

?S:.

: set the base revision

baserev=<BASEREV>

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/baserev.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* Original Author: unknown, got this off net.sources

\*

\* \$Log: getopt.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:40 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/getopt.C

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_fchdir: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fchdir:

?S: This variable conditionally defines the HAS\_FCHDIR symbol, which

?S: indicates to the C program that the fchdir() routine is available.

?S:.

?C:HAS\_FCHDIR:

?C: This symbol, if defined, indicates that the fchdir routine is

?C: available to change directory using a file descriptor.

?C:.

?H:#\$d\_fchdir HAS\_FCHDIR /\*\*/

?H:.

?LINT:set d\_fchdir

: see if fchdir exists

set fchdir d\_fchdir

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fchdir.U

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?RCS:

?MAKE:d\_hypot: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hypot:

?S: This variable conditionally defines HAS\_HYPOT if hypot is available

?S: for numerically stable hypotenuse function.

?S:.

?C:HAS\_HYPOT:

?C: This symbol, if defined, indicates that the hypot routine is

?C: available to do the hypotenuse function.

?C:.

?H:#\$d\_hypot HAS\_HYPOT /\*\*/

?H:.

?LINT:set d\_hypot

: see if hypot exists

set hypot d\_hypot

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_hypot.U

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?RCS:

?MAKE:d\_isfinitel: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isfinitel:

?S: This variable conditionally defines the HAS\_ISFINITEL symbol, which

?S: indicates to the C program that the isfinitel() routine is available.

?S:.

?C:HAS\_ISFINITEL:

?C: This symbol, if defined, indicates that the isfinitel routine is

?C: available to check whether a long double is finite.

?C: (non-infinity non-NaN).

?C:.

?H:#\$d\_isfinitel HAS\_ISFINITEL /\*\*/

?H:.

?LINT:set d\_isfinitel

: see if isfinitel exists

set isfinitel d\_isfinitel

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_isfinitel.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_socketmark: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socketmark:

?S: This variable conditionally defines the HAS\_SOCKETMARK symbol, which

?S: indicates to the C program that the sockatmark() routine is available.

?S:.

?C:HAS\_SOCKETMARK:

?C: This symbol, if defined, indicates that the sockatmark routine is

?C: available to test whether a socket is at the out-of-band mark.

?C:.

?H:#\$d\_socketmark HAS\_SOCKETMARK /\*\*/

?H:.

?LINT:set d\_socketmark

: see if sockatmark exists

set sockatmark d\_socketmark

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_socketmark.U

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?RCS:

?MAKE:d\_truncl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_truncl:

?S: This variable conditionally defines the HAS\_TRUNCL symbol, which

?S: indicates to the C program that the truncl() routine is available

?S: to round long doubles towards zero. If copysignl is also present,

?S: we can emulate modfl.

?S:.

?C:HAS\_TRUNCL :

?C: This symbol, if defined, indicates that the truncl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_truncl HAS\_TRUNCL /\*\*/

?H:.

?LINT:set d\_truncl

: see if truncl exists

set truncl d\_truncl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_truncl.U

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?RCS:

?MAKE:d\_lrint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrint:

?S: This variable conditionally defines the HAS\_LRINT symbol, which

?S: indicates to the C program that the lrint() routine is available

?S: to return the integral value closest to a double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINT:

?C: This symbol, if defined, indicates that the lrint routine is

?C: available to return the integral value closest to a double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrint HAS\_LRINT /\*\*/

?H:.

?LINT:set d\_lrint

: see if lrint exists

set lrint d\_lrint

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lrint.U

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?RCS:

?MAKE:d\_lroundl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lroundl:

?S: This variable conditionally defines the HAS\_LROUNDL symbol, which

?S: indicates to the C program that the lroundl() routine is available

?S: to return the integral value nearest to x away from zero.

?S:.

?C:HAS\_LROUNDL:

?C: This symbol, if defined, indicates that the lroundl routine is

?C: available to return the nearest integral value away from zero of

?C: the long double argument value.

?C:.

?H:#\$d\_lroundl HAS\_LROUNDL /\*\*/

?H:.

?LINT:set d\_lroundl

: see if lroundl exists

set lroundl d\_lroundl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lroundl.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
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 ?RCS:  
 ?MAKE:d\_towupper: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_towupper:  
 ?S: This variable conditionally defines the HAS\_TOWUPPER symbol, which  
 ?S: indicates to the C program that the towupper() routine is available.  
 ?S:.  
 ?C:HAS\_TOWUPPER:  
 ?C: This symbol, if defined, indicates that the towupper () routine is  
 ?C: available to do case conversion.  
 ?C:.  
 ?H:#\$d\_towupper HAS\_TOWUPPER /\*\*/  
 ?H:.  
 ?LINT:set d\_towupper  
 : see if towupper exists  
 set towupper d\_towupper  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_towupper.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
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 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_setproctitle: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_setproctitle:  
 ?S: This variable conditionally defines the HAS\_SETPROCTITLE symbol,  
 ?S: which indicates to the C program that the setproctitle() routine  
 ?S: is available.  
 ?S:.  
 ?C:HAS\_SETPROCTITLE:  
 ?C: This symbol, if defined, indicates that the setproctitle routine is  
 ?C: available to set process title.  
 ?C:.  
 ?H:#\$d\_setproctitle HAS\_SETPROCTITLE /\*\*/  
 ?H:.

?LINT:set d\_setproctitle  
: see if setproctitle exists  
set setproctitle d\_setproctitle  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_setproctitle.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
?RCS:  
?RCS: Copyright (c) 2017 Dagfinn Ilmari Mannsåker  
?RCS:  
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?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:d\_strnlen: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_strnlen:  
?S: This variable conditionally defines the HAS\_STRNLEN symbol, which  
?S: indicates to the C program that the strnlen () routine is available.  
?S:.  
?C:HAS\_STRNLEN:  
?C: This symbol, if defined, indicates that the strnlen () routine is  
?C: available to check the length of a string up to a maximum.  
?C:.  
?H:#\$d\_strnlen HAS\_STRNLEN /\*\*/  
?H:.  
?LINT:set d\_strnlen  
: see if strnlen exists  
set strnlen d\_strnlen  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_strnlen.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_shadow.U,v \$  
?RCS:  
?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
?RCS:  
?RCS: You may distribute under the terms of either the GNU General Public  
?RCS: License or the Artistic License, as specified in the README file.  
?RCS:  
?MAKE:i\_shadow: Inhdr Hasfield  
?MAKE: -pick add \$@ %<  
?S:i\_shadow:  
?S: This variable conditionally defines the I\_SHADOW symbol, and indicates



?S: whether a C program should include <shadow.h>.

?S:.

?C:I\_SHADOW:

?C: This symbol, if defined, indicates that <shadow.h> exists and

?C: should be included.

?C:.

?H:#\$i\_shadow I\_SHADOW /\*\*/

?H:.

?LINT:set i\_shadow

: see if this is a shadow.h system

set shadow.h i\_shadow

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_shadow.U

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?RCS:

?MAKE:d\_fpgetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fpgetround:

?S: This variable conditionally defines HAS\_FPGETROUND if fpgetround()

?S: is available to get the floating point rounding mode.

?S:.

?C:HAS\_FPGETROUND:

?C: This symbol, if defined, indicates that the fpgetround routine is

?C: available to get the floating point rounding mode.

?C:.

?H:#\$d\_fpgetround HAS\_FPGETROUND /\*\*/

?H:.

?LINT:set d\_fpgetround

: see if fpgetround exists

set fpgetround d\_fpgetround

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fpgetround.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram \$

\*

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\*

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\* as specified in the README file that comes with the distribution.

```

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* that same Artistic Licence; a copy of which may be found at the root
* of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:42 ram
* patch16: created
*
*/

```

Found in path(s):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```

```

?RCS: $Id: i_fp_class.U,v $
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_fp_class: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_fp_class:
?S: This variable conditionally defines the I_FP_CLASS symbol, and indicates
?S: whether a C program should include <fp_class.h>.
?S:.
?C:I_FP_CLASS:
?C: This symbol, if defined, indicates that <fp_class.h> exists and
?C: should be included.
?C:.
?H:#$i_fp_class I_FP_CLASS /**/
?H:.
?LINT:set i_fp_class
: see if this is a fp_class.h system
set fp_class.h i_fp_class
eval $inhdr

```

Found in path(s):

```

* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_fp_class.U
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```

```

?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_lround: Inlibc
?MAKE: -pick add $@ %<
?S:d_lround:

```

?S: This variable conditionally defines the HAS\_LROUND symbol, which

?S: indicates to the C program that the lround() routine is available

?S: to return the integral value nearest to x.

?S:.

?C:HAS\_LROUND:

?C: This symbol, if defined, indicates that the lround routine is

?C: available to return the nearest integral value.

?C:.

?H:#\$d\_lround HAS\_LROUND /\*\*/

?H:.

?LINT:set d\_lround

: see if lround exists

set lround d\_lround

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lround.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_inetntop: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetntop:

?S: This variable conditionally defines the HAS\_INETNTOP symbol,

?S: which indicates to the C program that the inet\_ntop() function

?S: is available.

?S:.

?C:HAS\_INETNTOP:

?C: This symbol, if defined, indicates that the inet\_ntop() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetntop HAS\_INETNTOP /\*\*/

?H:.

?LINT:set d\_inetntop

: see if inet\_ntop exists

set inet\_ntop d\_inetntop

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_inetntop.U

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?RCS:

?MAKE:d\_lgamma\_r: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma\_r:

?S: This variable conditionally defines the HAS\_LGAMMA\_R symbol, which

?S: indicates to the C program that the lgamma\_r() routine is available

?S: for the log gamma function, without using the global signgam variable.

?S:.

?C:HAS\_LGAMMA\_R:

?C: This symbol, if defined, indicates that the lgamma\_r routine is

?C: available to do the log gamma function without using the global

?C: signgam variable.

?C:.

?H:#\$d\_lgamma\_r HAS\_LGAMMA\_R /\*\*/

?H:.

?LINT:set d\_lgamma\_r

: see if lgamma\_r exists

set lgamma\_r d\_lgamma\_r

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lgamma\_r.U

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?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_ualarm: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ualarm:

?S: This variable conditionally defines the HAS\_UALARM symbol, which

?S: indicates to the C program that the ualarm() routine is available.

?S:.

?C:HAS\_UALARM:

?C: This symbol, if defined, indicates that the ualarm routine is

?C: available to do alarms with microsecond granularity.

?C:.

?H:#\$d\_ualarm HAS\_UALARM /\*\*/

?H:.

?LINT:set d\_ualarm

: see if ualarm exists

set ualarm d\_ualarm

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_ualarm.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi \$

?RCS:

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

?RCS:

?RCS: You may redistribute only under the terms of the Artistic Licence,

?RCS: as specified in the README file that comes with the distribution.

?RCS: You may reuse parts of this distribution only within the terms of

?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:

?RCS: \$Log: Nothing.U,v \$

?RCS: Revision 3.0 1993/08/18 12:05:09 ram

?RCS: Baseline for dist 3.0 netwide release.

?RCS:

?X:

?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.

?X:

?MAKE:Nothing: Head

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Nothing.U

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?RCS:

?MAKE:d\_ilogb: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_ilogb:

?S: This variable conditionally defines the HAS\_ILOGB symbol, which

?S: indicates to the C program that the ilogb() routine is available

?S: for extracting the exponent of double x as a signed integer.

?S:.

?C:HAS\_ILOGB:

?C: This symbol, if defined, indicates that the ilogb routine is

?C: available to get integer exponent of a floating-point value.

?C:.

?H:#\$d\_ilogb HAS\_ILOGB /\*\*/

?H:.

?LINT:set d\_ilogb

: see if ilogb exists

```
set ilogb d_ilogb
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_ilogb.U
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```

```
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?RCS:
?MAKE:d_mkdtemp: Inlibc
?MAKE: -pick add $@ %<
?S:d_mkdtemp:
?S: This variable conditionally defines the HAS_MKDTEMP symbol, which
?S: indicates to the C program that the mkdtemp() routine is available
?S: to exclusively create a uniquely named temporary directory.
?S:.
?C:HAS_MKDTEMP :
?C: This symbol, if defined, indicates that the mkdtemp routine is
?C: available to exclusively create a uniquely named temporary directory.
?C:.
?H:#$d_mkdtemp HAS_MKDTEMP /**/
?H:.
?LINT:set d_mkdtemp
: see if mkdtemp exists
set mkdtemp d_mkdtemp
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_mkdtemp.U
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```

```
?RCS: $Id: i_bfd.U,v $
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_bfd: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_bfd:
?S: This variable conditionally defines the I_BFD symbol, and
?S: indicates whether a C program can include <bfd.h>.
```

?S:.  
 ?C:I\_BFD:  
 ?C: This symbol, if defined, indicates that <bfd.h> exists and  
 ?C: can be included.  
 ?C:.  
 ?H:#\$i\_bfd I\_BFD /\*\*/  
 ?H:.  
 ?LINT:set i\_bfd  
 : see if this is a bfd.h system  
 set bfd.h i\_bfd  
 eval \$inhdr

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_bfd.U  
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 ?RCS:  
 ?MAKE:d\_remquo: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_remquo:  
 ?S: This variable conditionally defines the HAS\_REMQUO symbol, which  
 ?S: indicates to the C program that the remquo() routine is available.  
 ?S:.  
 ?C:HAS\_REMQUO:  
 ?C: This symbol, if defined, indicates that the remquo routine is  
 ?C: available to return the remainder and part of quotient.  
 ?C:.  
 ?H:#\$d\_remquo HAS\_REMQUO /\*\*/  
 ?H:.  
 ?LINT:set d\_remquo  
 : see if remquo exists  
 set remquo d\_remquo  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_remquo.U  
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 ?RCS:  
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 ?RCS:  
 ?MAKE:d\_finite: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_finite:

?S: This variable conditionally defines the HAS\_FINITE symbol, which

?S: indicates to the C program that the finite() routine is available.

?S:.

?C:HAS\_FINITE:

?C: This symbol, if defined, indicates that the finite routine is

?C: available to check whether a double is finite (non-infinity non-NaN).

?C:.

?H:#\$d\_finite HAS\_FINITE /\*\*/

?H:.

?LINT:set d\_finite

: see if finite exists

set finite d\_finite

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_finite.U

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?RCS:

?MAKE:d\_copysign: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_copysign:

?S: This variable conditionally defines the HAS\_COPYSIGN symbol, which

?S: indicates to the C program that the copysign() routine is available.

?S:.

?C:HAS\_COPYSIGN:

?C: This symbol, if defined, indicates that the copysign routine is

?C: available to do the copysign function.

?C:.

?H:#\$d\_copysign HAS\_COPYSIGN /\*\*/

?H:.

?LINT:set d\_copysign

: see if copysign exists

set copysign d\_copysign

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_copysign.U

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 ?RCS:  
 ?MAKE:d\_strtold: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_strtold:  
 ?S: This variable conditionally defines the HAS\_STRTOLD symbol, which  
 ?S: indicates to the C program that the strtold() routine is available.  
 ?S:.  
 ?C:HAS\_STRTOLD:  
 ?C: This symbol, if defined, indicates that the strtold routine is  
 ?C: available to convert strings to long doubles.  
 ?C:.  
 ?H:#\$d\_strtold HAS\_STRTOLD /\*\*/  
 ?H:.  
 ?LINT:set d\_strtold  
 : see if strtold exists  
 set strtold d\_strtold  
 eval \$inlibc

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_strtold.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysmount.U,v \$  
 ?RCS:  
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 ?RCS:  
 ?MAKE:i\_sysmount: Inhdr Hasfield  
 ?MAKE: -pick add \$@ %<  
 ?S:i\_sysmount:  
 ?S: This variable conditionally defines the I\_SYSMOUNT symbol,  
 ?S: and indicates whether a C program should include <sys/mount.h>.  
 ?S:.  
 ?C:I\_SYS\_MOUNT:  
 ?C: This symbol, if defined, indicates that <sys/mount.h> exists and  
 ?C: should be included.  
 ?C:.  
 ?H:#\$i\_sysmount I\_SYS\_MOUNT /\*\*/  
 ?H:.  
 ?LINT:set i\_sysmount

: see if this is a sys/mount.h system

set sys/mount.h i\_sysmount

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysmount.U

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?RCS: \$Id: i\_sysuio.U,v \$

?RCS:

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?RCS:

?MAKE:i\_sysuio: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_sysuio:

?S: This variable conditionally defines the I\_SYSUIO symbol, and indicates

?S: whether a C program should include <sys/uio.h>.

?S:.

?C:I\_SYSUIO:

?C: This symbol, if defined, indicates that <sys/uio.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysuio I\_SYSUIO /\*\*/

?H:.

?LINT:set i\_sysuio

: see if this is a sys/uio.h system

set sys/uio.h i\_sysuio

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i\_sysuio.U

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?RCS:

?MAKE:d\_fdim: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdim:

?S: This variable conditionally defines the HAS\_FDIM symbol, which

?S: indicates to the C program that the fdim() routine is available.

?S:.

?C:HAS\_FDIM:

?C: This symbol, if defined, indicates that the fdim routine is

?C: available to do the positive difference function.

?C:.

?H:#\$d\_fdim HAS\_FDIM /\*\*/

?H:.

?LINT:set d\_fdim

: see if fdim exists

set fdim d\_fdim

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fdim.U

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?RCS:

?MAKE:d\_tgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_tgamma:

?S: This variable conditionally defines the HAS\_TGAMMA symbol, which

?S: indicates to the C program that the tgamma() routine is available

?S: for the gamma function. See also d\_lgamma.

?S:.

?C:HAS\_TGAMMA:

?C: This symbol, if defined, indicates that the tgamma routine is

?C: available to do the gamma function. See also HAS\_LGAMMA.

?C:.

?H:#\$d\_tgamma HAS\_TGAMMA /\*\*/

?H:.

?LINT:set d\_tgamma

: see if tgamma exists

set tgamma d\_tgamma

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_tgamma.U

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?RCS:

?MAKE:d\_atanh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atanh:

?S: This variable conditionally defines the HAS\_ATANH symbol, which

?S: indicates to the C program that the atanh() routine is available.

?S:.

?C:HAS\_ATANH:

?C: This symbol, if defined, indicates that the atanh routine is

?C: available to do the inverse hyperbolic tangent function.

?C:.

?H:#\$d\_atanh HAS\_ATANH /\*\*/

?H:.

?LINT:set d\_atanh

: see if atanh exists

set atanh d\_atanh

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_atanh.U

No license file was found, but licenses were detected in source scan.

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?RCS:

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?RCS:

?MAKE:d\_atolf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_atolf:

?S: This variable conditionally defines the HAS\_ATOLF symbol, which

?S: indicates to the C program that the atolf() routine is available.

?S:.

?C:HAS\_ATOLF:

?C: This symbol, if defined, indicates that the atolf routine is

?C: available to convert strings into long doubles.

?C:.

?H:#\$d\_atolf HAS\_ATOLF /\*\*/

?H:.

?LINT:set d\_atolf

: see if atolf exists

set atolf d\_atolf

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atolf.U

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?RCS:

```
?MAKE:d_atoll: Inlibc
?MAKE: -pick add $@ %<
?S:d_atoll:
?S: This variable conditionally defines the HAS_ATOLL symbol, which
?S: indicates to the C program that the atoll() routine is available.
?S:.
?C:HAS_ATOLL:
?C: This symbol, if defined, indicates that the atoll routine is
?C: available to convert strings into long longs.
?C:.
?H:#$d_atoll HAS_ATOLL /**/
?H:.
?LINT:set d_atoll
: see if atoll exists
set atoll d_atoll
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/atoll.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_fstatfs : Inlibc
?MAKE: -pick add $@ %<
?S:d_fstatfs:
?S: This variable conditionally defines the HAS_FSTATFS symbol, which
?S: indicates to the C program that the fstatfs() routine is available.
?S:.
?C:HAS_FSTATFS:
?C: This symbol, if defined, indicates that the fstatfs routine is
?C: available to stat filesystems by file descriptors.
?C:.
?H:#$d_fstatfs HAS_FSTATFS /**/
?H:.
?LINT:set d_fstatfs
: see if fstatfs exists
set fstatfs d_fstatfs
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fstatfs.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_finitel: Inlibc
?MAKE: -pick add $@ %<
?S:d_finitel:
?S: This variable conditionally defines the HAS_FINITEL symbol, which
?S: indicates to the C program that the finitel() routine is available.
?S:.
?C:HAS_FINITEL:
?C: This symbol, if defined, indicates that the finitel routine is
?C: available to check whether a long double is finite
?C: (non-infinity non-NaN).
?C:.
?H:#$d_finitel HAS_FINITEL /**/
?H:.
?LINT:set d_finitel
: see if finitel exists
set finitel d_finitel
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_finitel.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_nextafter: Inlibc
?MAKE: -pick add $@ %<
?S:d_nextafter:
?S: This variable conditionally defines HAS_NEXTAFTER if nextafter()
?S: is available to return the next machine representable double from
?S: x in direction y.
?S:.
?C:HAS_NEXTAFTER:
?C: This symbol, if defined, indicates that the nextafter routine is
?C: available to return the next machine representable double from
?C: x in direction y.
?C:.
?H:#$d_nextafter HAS_NEXTAFTER /**/
?H:.
```

?LINT:set d\_nextafter  
: see if nextafter exists  
set nextafter d\_nextafter  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_nextafter.U

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?RCS:

?MAKE:d\_erfc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erfc:

?S: This variable conditionally defines the HAS\_ERFC symbol, which

?S: indicates to the C program that the erfc() routine is available.

?S:.

?C:HAS\_ERFC:

?C: This symbol, if defined, indicates that the erfc routine is

?C: available to do the complementary error function.

?C:.

?H:#\$d\_erfc HAS\_ERFC /\*\*/

?H:.

?LINT:set d\_erfc

: see if erfc exists

set erfc d\_erfc

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_erfc.U

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?RCS:

?MAKE:d\_writev: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_writev:

?S: This variable conditionally defines the HAS\_WRITEV symbol, which

?S: indicates to the C program that the writev() routine is available.

?S:.

?C:HAS\_WRITEV:

?C: This symbol, if defined, indicates that the writev routine is

?C: available to do scatter writes.

?C:.

?H:#\$d\_writev HAS\_WRITEV /\*\*/

?H:.

?LINT:set d\_writev

: see if writev exists

set writev d\_writev

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_writev.U

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?RCS:

?MAKE:d\_nexttoward: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nexttoward:

?S: This variable conditionally defines HAS\_NEXTTOWARD if nexttoward()

?S: is available to return the next machine representable long double from

?S: x in direction y.

?S:.

?C:HAS\_NEXTTOWARD:

?C: This symbol, if defined, indicates that the nexttoward routine is

?C: available to return the next machine representable long double from

?C: x in direction y.

?C:.

?H:#\$d\_nexttoward HAS\_NEXTTOWARD /\*\*/

?H:.

?LINT:set d\_nexttoward

: see if nexttoward exists

set nexttoward d\_nexttoward

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_nexttoward.U

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?RCS:

?MAKE:d\_getmnt: Inlibc

?MAKE: -pick add \$@ %<



?S:d\_getmnt:

?S: This variable conditionally defines the HAS\_GETMNT symbol, which

?S: indicates to the C program that the getmnt() routine is available

?S: to retrieve one or more mount info blocks by filename.

?S:.

?C:HAS\_GETMNT:

?C: This symbol, if defined, indicates that the getmnt routine is

?C: available to get filesystem mount info by filename.

?C:.

?H:#\$d\_getmnt HAS\_GETMNT /\*\*/

?H:.

?LINT:set d\_getmnt

: see if getmnt exists

set getmnt d\_getmnt

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getmnt.U

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?RCS:

?MAKE:d\_isinfl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_isinfl:

?S: This variable conditionally defines the HAS\_ISINFL symbol, which

?S: indicates to the C program that the isinfl() routine is available.

?S:.

?C:HAS\_ISINFL:

?C: This symbol, if defined, indicates that the isinfl routine is

?C: available to check whether a long double is an infinity.

?C:.

?H:#\$d\_isinfl HAS\_ISINFL /\*\*/

?H:.

?LINT:set d\_isinfl

: see if isinfl exists

set isinfl d\_isinfl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_isinfl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_strtoq: Inlibc
?MAKE: -pick add $@ %<
?S:d_strtoq:
?S: This variable conditionally defines the HAS_STRTOQ symbol, which
?S: indicates to the C program that the strtouq() routine is available.
?S:.
?C:HAS_STRTOQ:
?C: This symbol, if defined, indicates that the strtouq routine is
?C: available to convert strings to long longs (quads).
?C:.
?H:#$d_strtoq HAS_STRTOQ /**/
?H:.
?LINT:set d_strtoq
: see if strtouq exists
set strtouq d_strtoq
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_strtoq.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_sysmode.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_sysmode: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_sysmode:
?S: This variable conditionally defines the I_SYSMODE symbol,
?S: and indicates whether a C program should include <sys/mode.h>.
?S:.
?C:I_SYSMODE:
?C: This symbol, if defined, indicates that <sys/mode.h> exists and
?C: should be included.
?C:.
?H:#$i_sysmode I_SYSMODE /**/
?H:.
?LINT:set i_sysmode
```

: see if this is a sys/mode.h system

set sys/mode.h i\_sysmode

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysmode.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

?RCS: Copyright (c) 2009 H.Merijn Brand

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_getaddrinfo: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getaddrinfo:

?S: This variable conditionally defines the HAS\_GETADDRINFO symbol,

?S: which indicates to the C program that the getaddrinfo() function

?S: is available.

?S:.

?C:HAS\_GETADDRINFO:

?C: This symbol, if defined, indicates that the getaddrinfo() function

?C: is available for use.

?C:.

?H:#\$d\_getaddrinfo HAS\_GETADDRINFO /\*\*/

?H:.

?LINT:set d\_getaddrinfo

: see if getaddrinfo exists

set getaddrinfo d\_getaddrinfo

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getaddrinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_hasmntopt: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_hasmntopt:

?S: This variable conditionally defines the HAS\_HASMNTOPT symbol, which

?S: indicates to the C program that the hasmntopt() routine is available

?S: to query the mount options of file systems.

?S:.

?C:HAS\_HASMNTOPT:

?C: This symbol, if defined, indicates that the hasmntopt routine is

?C: available to query the mount options of file systems.

?C:.

?H:#\$d\_hasmntopt HAS\_HASMNTOPT /\*\*/

?H:.

?LINT:set d\_hasmntopt

: see if hasmntopt exists

set hasmntopt d\_hasmntopt

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_hasmntopt.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_mntent.U,v \$

?RCS:

?RCS: Copyright (c) 1999 Jarkko Hietaniemi

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?RCS:

?MAKE:i\_mntent: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_mntent:

?S: This variable conditionally defines the I\_MNTENT symbol, and indicates

?S: whether a C program should include <mntent.h>.

?S:.

?C:I\_MNTENT:

?C: This symbol, if defined, indicates that <mntent.h> exists and

?C: should be included.

?C:.

?H:#\$i\_mntent I\_MNTENT /\*\*/

?H:.

?LINT:set i\_mntent

: see if this is a mntent.h system

set mntent.h i\_mntent

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_mntent.U

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?RCS:  
 ?MAKE:d\_fmax: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_fmax:  
 ?S: This variable conditionally defines the HAS\_FMAX symbol, which  
 ?S: indicates to the C program that the fmax() routine is available.  
 ?S:.  
 ?C:HAS\_FMAX:  
 ?C: This symbol, if defined, indicates that the fmax routine is  
 ?C: available to do the maximum function.  
 ?C:.  
 ?H:#\$d\_fmax HAS\_FMAX /\*\*/  
 ?H:.  
 ?LINT:set d\_fmax  
 : see if fmax exists  
 set fmax d\_fmax  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fmax.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
 ?RCS: Copyright (c) 2000 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_unordered: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_unordered:  
 ?S: This variable conditionally defines the HAS\_UNORDERED symbol, which  
 ?S: indicates to the C program that the unordered() routine is available.  
 ?S:.  
 ?C:HAS\_UNORDERED:  
 ?C: This symbol, if defined, indicates that the unordered routine is  
 ?C: available to check whether two doubles are unordered  
 ?C: (effectively: whether either of them is NaN)  
 ?C:.  
 ?H:#\$d\_unordered HAS\_UNORDERED /\*\*/  
 ?H:.  
 ?LINT:set d\_unordered  
 : see if unordered exists  
 set unordered d\_unordered  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_unordered.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

?MAKE:d\_strftime: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strftime:

?S: This variable conditionally defines the HAS\_STRFTIME symbol, which

?S: indicates to the C program that the strftime() routine is available.

?S:.

?C:HAS\_STRFTIME:

?C: This symbol, if defined, indicates that the strftime routine is

?C: available to do time formatting.

?C:.

?H:#\$d\_strftime HAS\_STRFTIME /\*\*/

?H:.

?LINT:set d\_strftime

: see if strftime exists

set strftime d\_strftime

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_strftime.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

?RCS:

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?RCS:

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?RCS:

?MAKE:d\_readv: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_readv:

?S: This variable conditionally defines the HAS\_READV symbol, which

?S: indicates to the C program that the readv() routine is available.

?S:.

?C:HAS\_READV:

?C: This symbol, if defined, indicates that the readv routine is

?C: available to do gather reads. You will also need <sys/uio.h>

?C: and there I\_SYUIO.

```
?C:.
?H:#$d_readv HAS_READV /**/
?H:.
?LINT:set d_readv
: see if readv exists
set readv d_readv
eval $inlibc
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d_readv.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: i_socks.U,v $
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_socks: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_socks:
?S: This variable conditionally defines the I_SOCKS symbol, and indicates
?S: whether a C program should include <socks.h>.
?S:.
?C:I_SOCKS:
?C: This symbol, if defined, indicates that <socks.h> exists and
?C: should be included.
?C:.
?H:#$i_socks I_SOCKS /**/
?H:.
?LINT:set i_socks
: see if this is a socks.h system
set socks.h i_socks
eval $inhdr
```

Found in path(s):

```
* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i_socks.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_frexp! Inlibc
```

```
?MAKE: -pick add $@ %<
?S:d_frexp!
?S: This variable conditionally defines the HAS_FREXP symbol, which
?S: indicates to the C program that the frexp() routine is available.
?S:.
?C:HAS_FREXP:
?C: This symbol, if defined, indicates that the frexp routine is
?C: available to break a long double floating-point number into
?C: a normalized fraction and an integral power of 2.
?C:.
?H:#$d_frexp HAS_FREXP /**/
?H:.
?LINT:set d_frexp
: see if frexp exists
set frexp d_frexp
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_frexp.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ". This
?X: probably isn't necessary, but I'm paranoid. About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/U/Null.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```



?RCS: Copyright (c) 1998 Jarkko Hietaniemi  
 ?RCS:  
 ?RCS: You may distribute under the terms of either the GNU General Public  
 ?RCS: License or the Artistic License, as specified in the README file.  
 ?RCS:  
 ?MAKE:d\_eaccess: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_eaccess:  
 ?S: This variable conditionally defines the HAS\_EACCESS symbol, which  
 ?S: indicates to the C program that the eaccess() routine is available.  
 ?S:.  
 ?C:HAS\_EACCESS :  
 ?C: This symbol, if defined, indicates that the eaccess routine is  
 ?C: available to do extended access checks.  
 ?C:.  
 ?H:#\$d\_eaccess HAS\_EACCESS /\*\*/  
 ?H:.  
 ?LINT:set d\_eaccess  
 : see if eaccess exists  
 set eaccess d\_eaccess  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d\_eaccess.U

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 ?RCS:  
 ?MAKE:d\_exp2: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_exp2:  
 ?S: This variable conditionally defines the HAS\_EXP2 symbol, which  
 ?S: indicates to the C program that the exp2() routine is available.  
 ?S:.  
 ?C:HAS\_EXP2:  
 ?C: This symbol, if defined, indicates that the exp2 routine is  
 ?C: available to do the 2\*\*x function.  
 ?C:.  
 ?H:#\$d\_exp2 HAS\_EXP2 /\*\*/  
 ?H:.  
 ?LINT:set d\_exp2  
 : see if exp2 exists  
 set exp2 d\_exp2  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_exp2.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: i_libutil.U,v $
?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:i_libutil: Inhdr Hasfield
?MAKE: -pick add $@ %<
?S:i_libutil:
?S: This variable conditionally defines the I_LIBUTIL symbol, and indicates
?S: whether a C program should include <libutil.h>.
?S:.
?C:I_LIBUTIL:
?C: This symbol, if defined, indicates that <libutil.h> exists and
?C: should be included.
?C:.
?H:#$i_libutil I_LIBUTIL /**/
?H:.
?LINT:set i_libutil
: see if this is a libutil.h system
set libutil.h i_libutil
eval $inhdr
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_libutil.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
?MAKE:d_sqrtl: Inlibc
?MAKE: -pick add $@ %<
?S:d_sqrtl:
?S: This variable conditionally defines the HAS_SQRTL symbol, which
?S: indicates to the C program that the sqrtl() routine is available.
?S:.
?C:HAS_SQRTL:
?C: This symbol, if defined, indicates that the sqrtl routine is
?C: available to do long double square roots.
?C:.
?H:#$d_sqrtl HAS_SQRTL /**/
```

?H:.

?LINT:set d\_sqrtl

: see if sqrtl exists

set sqrtl d\_sqrtl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_sqrtl.U

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?RCS:

?MAKE:d\_fdclose: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fdclose:

?S: This variable conditionally defines the HAS\_FDCLOSE symbol, which

?S: indicates to the C program that the fdclose() routine is available.

?S:.

?C:HAS\_FDCLOSE:

?C: This symbol, if defined, indicates that the fdclose routine is

?C: available to free a FILE structure without closing the underlying

?C: file descriptor. This function appeared in FreeBSD 10.2.

?C:.

?H:#\$d\_fdclose HAS\_FDCLOSE /\*\*/

?H:.

?LINT:set d\_fdclose

: see if fdclose exists

set fdclose d\_fdclose

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fdclose.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_fp.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_fp: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_fp:

?S: This variable conditionally defines the I\_FP symbol, and indicates

?S: whether a C program should include <fp.h>.

?S:.

```
?C:I_FP:
?C: This symbol, if defined, indicates that <fp.h> exists and
?C: should be included.
?C:.
?H:#$i_fp I_FP /**/
?H:.
?LINT:set i_fp
: see if this is a fp.h system
set fp.h i_fp
eval $inhdr
```

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_fp.U  
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_getcwd: Inlibc
?MAKE: -pick add $@ %<
?S:d_getcwd:
?S: This variable conditionally defines the HAS_GETCWD symbol, which
?S: indicates to the C program that the getcwd() routine is available
?S: to get the current working directory.
?S:.
?C:HAS_GETCWD :
?C: This symbol, if defined, indicates that the getcwd routine is
?C: available to get the current working directory.
?C:.
?H:#$d_getcwd HAS_GETCWD /**/
?H:.
?LINT:set d_getcwd
: see if getcwd exists
set getcwd d_getcwd
eval $inlibc
```

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getcwd.U  
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999, Jarkko Hietaniemi
?RCS:
```

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?RCS: as specified in the README file that comes with the distribution.  
?RCS: You may reuse parts of this distribution only within the terms of  
?RCS: that same Artistic License; a copy of which may be found at the root  
?RCS: of the source tree for dist 3.0.

?RCS:

?MAKE:full\_ar: ar

?MAKE: -pick add \$@ %<

?S:full\_ar:

?S: This variable contains the full pathname to 'ar', whether or

?S: not the user has specified 'portability'. This is only used

?S: in the Makefile.SH.

?S:.

: Store the full pathname to the ar program for use in the C program

: Respect a hint or command line value for full\_ar.

case "\$full\_ar" in

") full\_ar=\$ar ;;

esac

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/Loc\_ar.U

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?RCS:

?MAKE:d\_round: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_round:

?S: This variable conditionally defines the HAS\_ROUND symbol, which

?S: indicates to the C program that the round() routine is available.

?S:.

?C:HAS\_ROUND:

?C: This symbol, if defined, indicates that the round routine is

?C: available to round to nearest integer, away from zero.

?C:.

?H:#\$d\_round HAS\_ROUND /\*\*/

?H:.

?LINT:set d\_round

: see if round exists

set round d\_round

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_round.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

```

?RCS:
?RCS: Copyright (c) 2000 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_isnanl: Inlibc
?MAKE: -pick add $@ %<
?S:d_isnanl:
?S: This variable conditionally defines the HAS_ISNANL symbol, which
?S: indicates to the C program that the isnanl() routine is available.
?S:.
?C:HAS_ISNANL:
?C: This symbol, if defined, indicates that the isnanl routine is
?C: available to check whether a long double is a NaN.
?C:.
?H:#$d_isnanl HAS_ISNANL /**/
?H:.
?LINT:set d_isnanl
: see if isnanl exists
set isnanl d_isnanl
eval $inlibc

```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_isnanl.U

No license file was found, but licenses were detected in source scan.

```

?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_logb: Inlibc
?MAKE: -pick add $@ %<
?S:d_logb:
?S: This variable conditionally defines the HAS_LOGB symbol, which
?S: indicates to the C program that the logb() routine is available
?S: to extract the exponent of x.
?S:.
?C:HAS_LOGB:
?C: This symbol, if defined, indicates that the logb routine is
?C: available to do the logb function.
?C:.
?H:#$d_logb HAS_LOGB /**/
?H:.
?LINT:set d_logb
: see if logb exists
set logb d_logb
eval $inlibc

```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_logb.U

No license file was found, but licenses were detected in source scan.

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?RCS:

?MAKE:d\_fmin: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fmin:

?S: This variable conditionally defines the HAS\_FMIN symbol, which

?S: indicates to the C program that the fmin() routine is available.

?S:.

?C:HAS\_FMIN:

?C: This symbol, if defined, indicates that the fmin routine is

?C: available to do the minimum function.

?C:.

?H:#\$d\_fmin HAS\_FMIN /\*\*/

?H:.

?LINT:set d\_fmin

: see if fmin exists

set fmin d\_fmin

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fmin.U

No license file was found, but licenses were detected in source scan.

\* Feel free to modify any of this as the need arises.&nbsp;&nbsp; Note, however,

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/metaconfig.html

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_netdb.U,v \$

?RCS:

?RCS: Copyright (c) 1998 Andy Dougherty

?RCS:

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?RCS:

?MAKE:i\_netdb: Inhdr

?MAKE: -pick add \$@ %<

?S:i\_netdb:

?S: This variable conditionally defines the I\_NETDB symbol, and indicates

?S: whether a C program should include <netdb.h>.

?S:.

?C:I\_NETDB:

?C: This symbol, if defined, indicates that <netdb.h> exists and

?C: should be included.

?C:.

?H:#\$i\_netdb I\_NETDB /\*\*/

?H:.

?LINT:set i\_netdb

: see if this is a netdb.h system

set netdb.h i\_netdb

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/modified/i\_netdb.U

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?RCS:

?MAKE:d\_recvmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_recvmsg:

?S: This variable conditionally defines the HAS\_RECVMSG symbol, which

?S: indicates to the C program that the recvmsg() routine is available.

?S:.

?C:HAS\_RECVMSG:

?C: This symbol, if defined, indicates that the recvmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d\_recvmsg HAS\_RECVMSG /\*\*/

?H:.

?LINT:set d\_recvmsg

: see if recvmsg exists

set recvmsg d\_recvmsg

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_recvmsg.U

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?RCS:  
 ?MAKE:d\_unsetenv: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_unsetenv:  
 ?S: This variable conditionally defines the HAS\_UNSETENV symbol, which  
 ?S: indicates to the C program that the unsetenv () routine is available.  
 ?S:..  
 ?C:HAS\_UNSETENV:  
 ?C: This symbol, if defined, indicates that the unsetenv () routine is  
 ?C: available for use.  
 ?C:..  
 ?H:#\$d\_unsetenv HAS\_UNSETENV /\*\*/  
 ?H:..  
 ?LINT:set d\_unsetenv  
 : see if unsetenv exists  
 set unsetenv d\_unsetenv  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_unsetenv.U  
 No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
 ?MAKE:d\_qgcvt: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_qgcvt:  
 ?S: This variable conditionally defines the HAS\_QGCVT symbol, which  
 ?S: indicates to the C program that the qgcvt() routine is available.  
 ?S:..  
 ?C:HAS\_QGCVT:  
 ?C: This symbol, if defined, indicates that the qgcvt routine is  
 ?C: available to convert long doubles ("quad doubles") to strings.  
 ?C: This is a low-level routine hopefully faster than sprintf.  
 ?C:..  
 ?H:#\$d\_qgcvt HAS\_QGCVT /\*\*/  
 ?H:..  
 ?LINT:set d\_qgcvt  
 : see if qgcvt exists  
 set qgcvt d\_qgcvt  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_qgcvt.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram \$

\*

\* Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* \$Log: scandir.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:45 ram

\* patch16: created

\*

\*/

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/scandir.C

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?RCS: \$Id: i\_ieeevp.U,v \$

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?RCS:

?MAKE:i\_ieeevp: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ieeevp:

?S: This variable conditionally defines the I\_IEEEFP symbol, and indicates

?S: whether a C program should include <ieeevp.h>.

?S:.

?C:I\_IEEEFP:

?C: This symbol, if defined, indicates that <ieeevp.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ieeevp I\_IEEEFP /\*\*/

?H:.

?LINT:set i\_ieeevp

: see if this is a ieeevp.h system

case "\$i\_ieeevp" in

" ) set ieeevp.h i\_ieeevp

eval \$inhdr

```
;;
esac
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_ieeefp.U

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?RCS:

?MAKE:d\_scalbnl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbnl:

?S: This variable conditionally defines the HAS\_SCALBNL symbol, which

?S: indicates to the C program that the scalbnl() routine is available.

?S: If ilogbl is also present we can emulate frexpl.

?S:.

?C:HAS\_SCALBNL:

?C: This symbol, if defined, indicates that the scalbnl routine is

?C: available. If ilogbl is also present we can emulate frexpl.

?C:.

?H:#\$d\_scalbnl HAS\_SCALBNL /\*\*/

?H:.

?LINT:set d\_scalbnl

: see if scalbnl exists

set scalbnl d\_scalbnl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_scalbnl.U

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?RCS: \$Id: i\_sunmath.U,v \$

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?RCS:

?MAKE:i\_sunmath: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sunmath:

?S: This variable conditionally defines the I\_SUNMATH symbol, and indicates

?S: whether a C program should include <sunmath.h>.

?S:.

?C:I\_SUNMATH:

?C: This symbol, if defined, indicates that <sunmath.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sunmath I\_SUNMATH /\*\*/

?H:.

?LINT:set i\_sunmath

: see if this is a sunmath.h system

set sunmath.h i\_sunmath

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sunmath.U

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?RCS:

?MAKE:d\_fsync: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fsync:

?S: This variable conditionally defines the HAS\_FSYNC symbol, which

?S: indicates to the C program that the fsync() routine is available.

?S:.

?C:HAS\_FSYNC:

?C: This symbol, if defined, indicates that the fsync routine is

?C: available to write a file's modified data and attributes to

?C: permanent storage.

?C:.

?H:#\$d\_fsync HAS\_FSYNC /\*\*/

?H:.

?LINT:set d\_fsync

: see if fsync exists

set fsync d\_fsync

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fsync.U

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?RCS:

```
?MAKE:d_nan: Inlibc
?MAKE: -pick add $@ %<
?S:d_nan:
?S: This variable conditionally defines HAS_NAN if nan() is
?S: available to generate NaN.
?S:.
?C:HAS_NAN:
?C: This symbol, if defined, indicates that the nan routine is
?C: available to generate NaN.
?C:.
?H:#$d_nan HAS_NAN /**/
?H:.
?LINT:set d_nan
: see if nan exists
set nan d_nan
eval $inlibc
```

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_nan.U  
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```
?RCS: You may distribute under the terms of either the GNU General Public
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?RCS:
?MAKE:d_expm1: Inlibc
?MAKE: -pick add $@ %<
?S:d_expm1:
?S: This variable conditionally defines the HAS_EXPM1 symbol, which
?S: indicates to the C program that the expm1() routine is available.
?S:.
?C:HAS_EXPM1:
?C: This symbol, if defined, indicates that the expm1 routine is
?C: available to do the exp(x) - 1 when x is near 1 function.
?C:.
?H:#$d_expm1 HAS_EXPM1 /**/
?H:.
?LINT:set d_expm1
: see if expm1 exists
set expm1 d_expm1
eval $inlibc
```

Found in path(s):  
 \* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_expm1.U  
 No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2005 H.Merijn Brand
```

?RCS:  
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 ?RCS:  
 ?MAKE:d\_clearenv: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_clearenv:  
 ?S: This variable conditionally defines the HAS\_CLEARENV symbol, which  
 ?S: indicates to the C program that the clearenv () routine is available.  
 ?S:.  
 ?C:HAS\_CLEARENV:  
 ?C: This symbol, if defined, indicates that the clearenv () routine is  
 ?C: available for use.  
 ?C:.  
 ?H:#\$d\_clearenv HAS\_CLEARENV /\*\*/  
 ?H:.  
 ?LINT:set d\_clearenv  
 : see if clearenv exists  
 set clearenv d\_clearenv  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_clearenv.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$  
 ?RCS:  
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 ?RCS:  
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 ?RCS:  
 ?MAKE:d\_localeconv\_l: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_localeconv\_l:  
 ?S: This variable conditionally defines the HAS\_LOCALECONV\_L symbol, which  
 ?S: indicates to the C program that the localeconv\_l() routine is available.  
 ?S:.  
 ?C:HAS\_LOCALECONV\_L:  
 ?C: This symbol, if defined, indicates that the localeconv\_l routine is  
 ?C: available to query certain information about a locale.  
 ?C:.  
 ?H:#\$d\_localeconv\_l HAS\_LOCALECONV\_L /\*\*/  
 ?H:.  
 ?LINT:set d\_localeconv\_l  
 : see if localeconv\_l exists  
 set localeconv\_l d\_localeconv\_l  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d\_localeconv\_1.U

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?RCS:

?MAKE:d\_timegm: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_timegm:

?S: This variable conditionally defines the HAS\_TIMEGM symbol, which

?S: indicates to the C program that the timegm () routine is available.

?S:.

?C:HAS\_TIMEGM:

?C: This symbol, if defined, indicates that the timegm routine is

?C: available to do the opposite of gmtime ()

?C:.

?H:#\$d\_timegm HAS\_TIMEGM /\*\*/

?H:.

?LINT:set d\_timegm

: see if timegm exists

set timegm d\_timegm

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_timegm.U

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?RCS:

?MAKE:d\_fma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fma:

?S: This variable conditionally defines the HAS\_FMA symbol, which

?S: indicates to the C program that the fma() routine is available.

?S:.

?C:HAS\_FMA:

?C: This symbol, if defined, indicates that the fma routine is

?C: available to do the multiply-add function.

?C:.

?H:#\$d\_fma HAS\_FMA /\*\*/

?H:.

?LINT:set d\_fma  
: see if fma exists  
set fma d\_fma  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fma.U

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?RCS:

?MAKE:d\_socks5\_init: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_socks5\_init:

?S: This variable conditionally defines the HAS\_SOCKS5\_INIT symbol, which

?S: indicates to the C program that the socks5\_init() routine is available.

?S:.

?C:HAS\_SOCKS5\_INIT:

?C: This symbol, if defined, indicates that the socks5\_init routine is

?C: available to initialize SOCKS 5.

?C:.

?H:#\$d\_socks5\_init HAS\_SOCKS5\_INIT /\*\*/

?H:.

?LINT:set d\_socks5\_init

: see if socks5\_init exists

set socks5\_init d\_socks5\_init

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_socks5\_init.U

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?RCS:

?MAKE:d\_scalbn: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_scalbn:

?S: This variable conditionally defines the HAS\_SCALBN symbol, which

?S: indicates to the C program that the scalbn() routine is available.

?S:.

?C:HAS\_SCALBN:

?C: This symbol, if defined, indicates that the scalbn routine is



?C: available to multiply floating-point number by integral power

?C: of radix.

?C:.

?H:#\$d\_scalbn HAS\_SCALBN /\*\*/

?H:.

?LINT:set d\_scalbn

: see if scalbn exists

set scalbn d\_scalbn

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_scalbn.U

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?RCS:

?MAKE:d\_erf: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_erf:

?S: This variable conditionally defines the HAS\_ERF symbol, which

?S: indicates to the C program that the erf() routine is available.

?S:.

?C:HAS\_ERF:

?C: This symbol, if defined, indicates that the erf routine is

?C: available to do the error function.

?C:.

?H:#\$d\_erf HAS\_ERF /\*\*/

?H:.

?LINT:set d\_erf

: see if erf exists

set erf d\_erf

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_erf.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_ustat.U,v \$

?RCS:

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?RCS:

?MAKE:i\_ustat: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_ustat:

?S: This variable conditionally defines the I\_USTAT symbol, and indicates

?S: whether a C program should include <ustat.h>.

?S:.

?C:I\_USTAT:

?C: This symbol, if defined, indicates that <ustat.h> exists and

?C: should be included.

?C:.

?H:#\$i\_ustat I\_USTAT /\*\*/

?H:.

?LINT:set i\_ustat

: see if this is a ustat.h system

set ustat.h i\_ustat

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_ustat.U

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?RCS: \$Id\$

?RCS:

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?RCS: of the source tree for dist 3.0.

?X:

?X: Useless unit dropped. Use randfunc instead.

?X:

?LINT:empty

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/compline/randbits.U

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?RCS:

?MAKE:d\_lgamma: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lgamma:

?S: This variable conditionally defines the HAS\_LGAMMA symbol, which

?S: indicates to the C program that the lgamma() routine is available

?S: for the log gamma function. See also d\_tgamma and d\_lgamma\_r.

?S:.

?C:HAS\_LGAMMA:

?C: This symbol, if defined, indicates that the lgamma routine is

?C: available to do the log gamma function. See also HAS\_TGAMMA and

?C: HAS\_LGAMMA\_R.

?C:.

?H:#\$d\_lgamma HAS\_LGAMMA /\*\*/

?H:.

?LINT:set d\_lgamma

: see if lgamma exists

set lgamma d\_lgamma

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lgamma.U

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?RCS:

?MAKE:d\_log2: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log2:

?S: This variable conditionally defines the HAS\_LOG2 symbol, which

?S: indicates to the C program that the log2() routine is available

?S: to compute log base two.

?S:.

?C:HAS\_LOG2:

?C: This symbol, if defined, indicates that the log2 routine is

?C: available to do the log2 function.

?C:.

?H:#\$d\_log2 HAS\_LOG2 /\*\*/

?H:.

?LINT:set d\_log2

: see if log2 exists

set log2 d\_log2

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_log2.U

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?RCS:

?MAKE:d\_asinh: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_asinh:

?S: This variable conditionally defines the HAS\_ASINH symbol, which

?S: indicates to the C program that the asinh() routine is available.

?S:.

?C:HAS\_ASINH:

?C: This symbol, if defined, indicates that the asinh routine is

?C: available to do the inverse hyperbolic sine function.

?C:.

?H:#\$d\_asinh HAS\_ASINH /\*\*/

?H:.

?LINT:set d\_asinh

: see if asinh exists

set asinh d\_asinh

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_asinh.U

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?RCS: \$Id: i\_poll.U,v \$

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?RCS:

?MAKE:i\_poll: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_poll:

?S: This variable conditionally defines the I\_POLL symbol, and indicates

?S: whether a C program should include <poll.h>.

?S:.

?C:I\_POLL:

?C: This symbol, if defined, indicates that <poll.h> exists and

?C: should be included. (see also HAS\_POLL)

?C:.

?H:#\$i\_poll I\_POLL /\*\*/

?H:.

?LINT:set i\_poll

: see if this is a poll.h system

set poll.h i\_poll

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_poll.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id\$

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?RCS:

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?RCS:

?MAKE:d\_inetpton: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_inetpton:

?S: This variable conditionally defines the HAS\_INETPTON symbol,

?S: which indicates to the C program that the inet\_pton() function

?S: is available.

?S:.

?C:HAS\_INETPTON:

?C: This symbol, if defined, indicates that the inet\_pton() function

?C: is available to parse IPv4 and IPv6 strings.

?C:.

?H:#\$d\_inetpton HAS\_INETPTON /\*\*/

?H:.

?LINT:set d\_inetpton

: see if inet\_pton exists

set inet\_pton d\_inetpton

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-origin-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_inetpton.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_sysvfs.U,v \$

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?RCS:

?MAKE:i\_sysvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysvfs:

?S: This variable conditionally defines the I\_SYSVFS symbol,

?S: and indicates whether a C program should include <sys/vfs.h>.

?S:.

?C:I\_SYS\_VFS:

?C: This symbol, if defined, indicates that <sys/vfs.h> exists and

?C: should be included.

?C:.

?H:#\$i\_sysvfs I\_SYS\_VFS /\*\*/

?H:.

?LINT:set i\_sysvfs

: see if this is a sys/vfs.h system

set sys/vfs.h i\_sysvfs

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysvfs.U

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?RCS:

?MAKE:d\_fegetround: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_fegetround:

?S: This variable conditionally defines HAS\_FGETROUND if fegetround() is

?S: available to get the floating point rounding mode.

?S:.

?C:HAS\_FGETROUND:

?C: This symbol, if defined, indicates that the fegetround routine is

?C: available to return the macro corresponding to the current rounding

?C: mode.

?C:.

?H:#\$d\_fegetround HAS\_FGETROUND /\*\*/

?H:.

?LINT:set d\_fegetround

: see if fegetround exists

set fegetround d\_fegetround

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fegetround.U

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?RCS:

?MAKE:d\_trunc: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_trunc:

?S: This variable conditionally defines the HAS\_TRUNC symbol, which

?S: indicates to the C program that the trunc() routine is available

?S: to round doubles towards zero.

?S:.

?C:HAS\_TRUNC:

?C: This symbol, if defined, indicates that the trunc routine is

?C: available to round doubles towards zero.

?C:.

?H:#\$d\_trunc HAS\_TRUNC /\*\*/

?H:.

?LINT:set d\_trunc

: see if trunc exists

set trunc d\_trunc

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_trunc.U

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?RCS: \$Id: i\_sysstatfs.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_sysstatfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatfs:

?S: This variable conditionally defines the I\_SYSSTATFS symbol,

?S: and indicates whether a C program should include <sys/statfs.h>.

?S:.

?C:I\_SYS\_STATFS:

?C: This symbol, if defined, indicates that <sys/statfs.h> exists.

?C:.

?H:#\$i\_sysstatfs I\_SYS\_STATFS /\*\*/

?H:.

?LINT:set i\_sysstatfs

: see if this is a sys/statfs.h system

set sys/statfs.h i\_sysstatfs

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysstatfs.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_poll.U,v \$

?RCS:

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?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_langinfo: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_langinfo:

?S: This variable conditionally defines the I\_LANGINFO symbol,

?S: and indicates whether a C program should include <langinfo.h>.

?S:.

?C:I\_LANGINFO:

?C: This symbol, if defined, indicates that <langinfo.h> exists and

?C: should be included.

?C:.

?H:#\$i\_langinfo I\_LANGINFO /\*\*/

?H:.

?LINT:set i\_langinfo

: see if this is a langinfo.h system

set langinfo.h i\_langinfo

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_langinfo.U

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:d\_lrintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_lrintl:

?S: This variable conditionally defines the HAS\_LRINTL symbol, which

?S: indicates to the C program that the lrintl() routine is available

?S: to return the integral value closest to a long double (according

?S: to the current rounding mode).

?S:.

?C:HAS\_LRINTL:

?C: This symbol, if defined, indicates that the lrintl routine is

?C: available to return the integral value closest to a long double

?C: (according to the current rounding mode).

?C:.

?H:#\$d\_lrintl HAS\_LRINTL /\*\*/

?H:.

?LINT:set d\_lrintl

: see if lrintl exists

set lrintl d\_lrintl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_lrintl.U

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?RCS:

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?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.

?RCS:



?MAKE:d\_dup3: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_dup3:  
?S: This variable conditionally defines HAS\_DUP3 if dup3() is  
?S: available to duplicate file descriptors.  
?S:.  
?C:HAS\_DUP3:  
?C: This symbol, if defined, indicates that the dup3 routine is  
?C: available to duplicate file descriptors.  
?C:.  
?H:#\$d\_dup3 HAS\_DUP3 /\*\*/  
?H:.  
?LINT:set d\_dup3  
: see if dup3 exists  
set dup3 d\_dup3  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_dup3.U

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?RCS:  
?MAKE:d\_getitimer: Inlibc  
?MAKE: -pick add \$@ %<  
?S:d\_getitimer:  
?S: This variable conditionally defines the HAS\_GETITIMER symbol, which  
?S: indicates to the C program that the getitimer() routine is available.  
?S:.  
?C:HAS\_GETITIMER:  
?C: This symbol, if defined, indicates that the getitimer routine is  
?C: available to return interval timers.  
?C:.  
?H:#\$d\_getitimer HAS\_GETITIMER /\*\*/  
?H:.  
?LINT:set d\_getitimer  
: see if getitimer exists  
set getitimer d\_getitimer  
eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getitimer.U

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```
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?RCS:
?MAKE:d_copysignl: Inlibc
?MAKE: -pick add $@ %<
?S:d_copysignl:
?S: This variable conditionally defines the HAS_COPYSIGNL symbol, which
?S: indicates to the C program that the copysignl() routine is available.
?S: If aintl is also present we can emulate modfl.
?S:.
?C:HAS_COPYSIGNL:
?C: This symbol, if defined, indicates that the copysignl routine is
?C: available. If aintl is also present we can emulate modfl.
?C:.
?H:#$d_copysignl HAS_COPYSIGNL /**/
?H:.
?LINT:set d_copysignl
: see if copysignl exists
set copysignl d_copysignl
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_copysignl.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llrint: Inlibc
?MAKE: -pick add $@ %<
?S:d_llrint:
?S: This variable conditionally defines the HAS_LLRLINT symbol, which
?S: indicates to the C program that the llrint() routine is available
?S: to return the long long value closest to a double (according
?S: to the current rounding mode).
?S:.
?C:HAS_LLRLINT:
?C: This symbol, if defined, indicates that the llrint routine is
?C: available to return the long long value closest to a double
?C: (according to the current rounding mode).
?C:.
?H:#$d_llrint HAS_LLRLINT /**/
```

?H:.

?LINT:set d\_llrint

: see if llrint exists

set llrint d\_llrint

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_llrint.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_crypt.U,v \$

?RCS:

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?RCS: License or the Artistic License, as specified in the README file.

?RCS:

?MAKE:i\_crypt: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_crypt:

?S: This variable conditionally defines the I\_CRYPT symbol, and indicates

?S: whether a C program should include <crypt.h>.

?S:.

?C:I\_CRYPT:

?C: This symbol, if defined, indicates that <crypt.h> exists and

?C: should be included.

?C:.

?H:#\$i\_crypt I\_CRYPT /\*\*/

?H:.

?LINT:set i\_crypt

: see if this is a crypt.h system

set crypt.h i\_crypt

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_crypt.U

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?RCS:

?MAKE:d\_fseeko: Inlibc longsize

?MAKE: -pick add \$@ %<

?S:d\_fseeko:

?S: This variable conditionally defines the HAS\_FSEEKO symbol, which

?S: indicates to the C program that the fseeko() routine is available.

?S:.

?C:HAS\_FSEEKO:

?C: This symbol, if defined, indicates that the fseeko routine is

?C: available to fseek beyond 32 bits (useful for ILP32 hosts).

?C:.

?H:#\$d\_fseeko HAS\_FSEEKO /\*\*/

?H:.

?LINT:set d\_fseeko

: see if fseeko exists

set fseeko d\_fseeko

eval \$inlibc

case "\$longsize" in

8) echo "(Your long is 64 bits, so you could use fseek.)" ;;

esac

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_fseeko.U

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?RCS:

?MAKE:d\_sendmsg: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_sendmsg:

?S: This variable conditionally defines the HAS\_SENDMSG symbol, which

?S: indicates to the C program that the sendmsg() routine is available.

?S:.

?C:HAS\_SENDMSG:

?C: This symbol, if defined, indicates that the sendmsg routine is

?C: available to send structured socket messages.

?C:.

?H:#\$d\_sendmsg HAS\_SENDMSG /\*\*/

?H:.

?LINT:set d\_sendmsg

: see if sendmsg exists

set sendmsg d\_sendmsg

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_sendmsg.U

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```
?RCS: $Id$
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_setitimer: Inlibc
?MAKE: -pick add $@ %<
?S:d_setitimer:
?S: This variable conditionally defines the HAS_SETITIMER symbol, which
?S: indicates to the C program that the setitimer() routine is available.
?S:.
?C:HAS_SETITIMER:
?C: This symbol, if defined, indicates that the setitimer routine is
?C: available to set interval timers.
?C:.
?H:#$d_setitimer HAS_SETITIMER /**/
?H:.
?LINT:set d_setitimer
: see if setitimer exists
set setitimer d_setitimer
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_setitimer.U

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```
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:d_llround: Inlibc
?MAKE: -pick add $@ %<
?S:d_llround:
?S: This variable conditionally defines the HAS_LLROUND symbol, which
?S: indicates to the C program that the llround() routine is available
?S: to return the long long value nearest to x.
?S:.
?C:HAS_LLROUND:
?C: This symbol, if defined, indicates that the llround routine is
?C: available to return the nearest long long value.
?C:.
?H:#$d_llround HAS_LLROUND /**/
?H:.
?LINT:set d_llround
: see if llround exists
```

```
set llround d_llround
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_llround.U

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?RCS: \$Id\$

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?RCS:

?MAKE:d\_aintl: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_aintl:

?S: This variable conditionally defines the HAS\_AINTL symbol, which

?S: indicates to the C program that the aintl() routine is available.

?S: If copysignl is also present we can emulate modfl.

?S:.

?C:HAS\_AINTL:

?C: This symbol, if defined, indicates that the aintl routine is

?C: available. If copysignl is also present we can emulate modfl.

?C:.

?H:#\$d\_aintl HAS\_AINTL /\*\*/

?H:.

?LINT:set d\_aintl

: see if aintl exists

set aintl d\_aintl

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_aintl.U

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\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/files/Jmake.tmpl

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```
?RCS:
?MAKE:d_ftello: Inlibc longsize
?MAKE: -pick add $@ %<
?S:d_ftello:
?S: This variable conditionally defines the HAS_FTELLO symbol, which
?S: indicates to the C program that the ftello() routine is available.
?S:.
?C:HAS_FTELLO:
?C: This symbol, if defined, indicates that the ftello routine is
?C: available to ftell beyond 32 bits (useful for ILP32 hosts).
?C:.
?H:#$d_ftello HAS_FTELLO /**/
?H:.
?LINT:set d_ftello
: see if ftello exists
set ftello d_ftello
eval $inlibc
case "$longsize" in
8) echo "(Your long is 64 bits, so you could use ftell.)" ;;
esac
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_ftello.U

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```
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?RCS:
?MAKE:d_getnameinfo: Inlibc
?MAKE: -pick add $@ %<
?S:d_getnameinfo:
?S: This variable conditionally defines the HAS_GETNAMEINFO symbol,
?S: which indicates to the C program that the getnameinfo() function
?S: is available.
?S:.
?C:HAS_GETNAMEINFO:
?C: This symbol, if defined, indicates that the getnameinfo() function
?C: is available for use.
?C:.
?H:#$d_getnameinfo HAS_GETNAMEINFO /**/
?H:.
?LINT:set d_getnameinfo
: see if getnameinfo exists
set getnameinfo d_getnameinfo
```

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getnameinfo.U

No license file was found, but licenses were detected in source scan.

?RCS: \$Id: i\_syslog.U,v \$

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?RCS:

?MAKE:i\_syslog: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_syslog:

?S: This variable conditionally defines the I\_SYSLOG symbol,

?S: and indicates whether a C program should include <syslog.h>.

?S:.

?C:I\_SYSLOG:

?C: This symbol, if defined, indicates that <syslog.h> exists and

?C: should be included.

?C:.

?H:#\$i\_syslog I\_SYSLOG /\*\*/

?H:.

?LINT:set i\_syslog

: see if this is a syslog.h system

set syslog.h i\_syslog

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_syslog.U

No license file was found, but licenses were detected in source scan.

/\*

\* \$Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram \$

\*

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\*

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\* that same Artistic Licence; a copy of which may be found at the root

\* of the source tree for dist 4.0.

\*

\* \$Log: setsid.C,v \$

\* Revision 3.0.1.1 1994/01/24 13:58:47 ram

\* patch16: created



\*  
\*/

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/setsid.C

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?RCS:

?MAKE:d\_nearbyint: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_nearbyint:

?S: This variable conditionally defines HAS\_NEARBYINT if nearbyint()

?S: is available to return the integral value closest to (according to

?S: the current rounding mode) to x.

?S:.

?C:HAS\_NEARBYINT:

?C: This symbol, if defined, indicates that the nearbyint routine is

?C: available to return the integral value closest to (according to

?C: the current rounding mode) to x.

?C:.

?H:#\$d\_nearbyint HAS\_NEARBYINT /\*\*/

?H:.

?LINT:set d\_nearbyint

: see if nearbyint exists

set nearbyint d\_nearbyint

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_nearbyint.U

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?RCS:

?MAKE:d\_log1p: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_log1p:

?S: This variable conditionally defines the HAS\_LOG1P symbol, which

?S: indicates to the C program that the logp1() routine is available

?S: to compute  $\log(1 + x)$  for values of x close to zero.

?S:.

?C:HAS\_LOG1P:

?C: This symbol, if defined, indicates that the log1p routine is

?C: available to do the logarithm of 1 plus argument function.

?C:.

?H:#\$d\_log1p HAS\_LOG1P /\*\*/

?H:.

?LINT:set d\_log1p

: see if log1p exists

set log1p d\_log1p

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_log1p.U

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?RCS:

?MAKE:d\_towlower: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_towlower:

?S: This variable conditionally defines the HAS\_TOWLOWER symbol, which

?S: indicates to the C program that the towlower() routine is available.

?S:.

?C:HAS\_TOWLOWER:

?C: This symbol, if defined, indicates that the towlower () routine is

?C: available to do case conversion.

?C:.

?H:#\$d\_towlower HAS\_TOWLOWER /\*\*/

?H:.

?LINT:set d\_towlower

: see if towlower exists

set towlower d\_towlower

eval \$inlibc

Found in path(s):

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?RCS:

?MAKE:d\_strtod\_l: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_strtod\_l:

?S: This variable conditionally defines the HAS\_STRTOD\_L symbol, which

?S: indicates to the C program that the strtod\_l() routine is available.

?S:.

?C:HAS\_STRTOD\_L:

?C: This symbol, if defined, indicates that the strtod\_l routine is

?C: available to convert strings to long doubles.

?C:.

?H:#\$d\_strtod\_l HAS\_STRTOD\_L /\*\*/

?H:.

?LINT:set d\_strtod\_l

: see if strtod\_l exists

set strtod\_l d\_strtod\_l

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/threads/d\_strtod\_l.U

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?RCS: \$Id: i\_shadow.U,v \$

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?RCS:

?MAKE:i\_prot: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_prot:

?S: This variable conditionally defines the I\_PROT symbol, and indicates

?S: whether a C program should include <prot.h>.

?S:.

?C:I\_PROT:

?C: This symbol, if defined, indicates that <prot.h> exists and

?C: should be included.

?C:.

?H:#\$i\_prot I\_PROT /\*\*/

?H:.

?LINT:set i\_prot

: see if this is a prot.h system

set prot.h i\_prot

eval \$inhdr

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_prot.U

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 ?MAKE:d\_accessx: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_accessx:  
 ?S: This variable conditionally defines the HAS\_ACCESSX symbol, which  
 ?S: indicates to the C program that the accessx() routine is available.  
 ?S:.  
 ?C:HAS\_ACCESSX :  
 ?C: This symbol, if defined, indicates that the accessx routine is  
 ?C: available to do extended access checks.  
 ?C:.  
 ?H:#\$d\_accessx HAS\_ACCESSX /\*\*/  
 ?H:.  
 ?LINT:set d\_accessx  
 : see if accessx exists  
 set accessx d\_accessx  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/acl/d\_accessx.U

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 ?RCS:  
 ?MAKE:d\_llroundl: Inlibc  
 ?MAKE: -pick add \$@ %<  
 ?S:d\_llroundl:  
 ?S: This variable conditionally defines the HAS\_LLROUNDL symbol, which  
 ?S: indicates to the C program that the llroundl() routine is available  
 ?S: to return the long long value nearest to x away from zero.  
 ?S:.  
 ?C:HAS\_LLROUNDL:  
 ?C: This symbol, if defined, indicates that the llroundl routine is  
 ?C: available to return the nearest long long value away from zero of  
 ?C: the long double argument value.  
 ?C:.  
 ?H:#\$d\_llroundl HAS\_LLROUNDL /\*\*/  
 ?H:.  
 ?LINT:set d\_llroundl  
 : see if llroundl exists  
 set llroundl d\_llroundl  
 eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_llroundl.U

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?RCS:

?MAKE:d\_getfsstat : Inlibc

?MAKE: -pick add \$@ %<

?S:d\_getfsstat:

?S: This variable conditionally defines the HAS\_GETFSSTAT symbol, which

?S: indicates to the C program that the getfsstat() routine is available.

?S:.

?C:HAS\_GETFSSTAT:

?C: This symbol, if defined, indicates that the getfsstat routine is

?C: available to stat filesystems in bulk.

?C:.

?H:#\$d\_getfsstat HAS\_GETFSSTAT /\*\*/

?H:.

?LINT:set d\_getfsstat

: see if getfsstat exists

set getfsstat d\_getfsstat

eval \$inlibc

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_getfsstat.U

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?RCS: \$Id: i\_sysstatvfs.U,v \$

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?RCS:

?MAKE:i\_sysstatvfs: Inhdr Hasfield

?MAKE: -pick add \$@ %<

?S:i\_sysstatvfs:

?S: This variable conditionally defines the I\_SYSSTATVFS symbol,

?S: and indicates whether a C program should include <sys/statvfs.h>.

?S:.

?C:I\_SYS\_STATVFS:

?C: This symbol, if defined, indicates that <sys/statvfs.h> exists and

?C: should be included.

```
?C:.
?H:#$i_sysstatvfs I_SYS_STATVFS /**/
?H:.
?LINT:set i_sysstatvfs
: see if this is a sys/statvfs.h system
set sys/statvfs.h i_sysstatvfs
eval $inhdr
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/i\_sysstatvfs.U  
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```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
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* of the source tree for dist 4.0.
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/dist/lib/C/fake/dup2.C  
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?RCS:

?MAKE:d\_remainder: Inlibc

?MAKE: -pick add \$@ %<

?S:d\_remainder:

?S: This variable conditionally defines the HAS\_REMAINDER symbol, which

?S: indicates to the C program that the remainder() routine is available.

?S:.

?C:HAS\_REMAINDER:

?C: This symbol, if defined, indicates that the remainder routine is

?C: available to return the floating-point remainder.

?C:.

```
?H:#$d_remainder HAS_REMAINDER /**/  
?H:.  
?LINT:set d_remainder  
: see if remainder exists  
set remainder d_remainder  
eval $inlibc
```

Found in path(s):

\* /perl-5-30-0-orig-regen-configure-1-tar-gz/metaconfig-5.30.0/U/perl/d\_remainder.U

# 1.430 python3.8 3.8.10-0ubuntu1~20.04.9

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#### A. HISTORY OF THE SOFTWARE

=====

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

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

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

All

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

| 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 |            |         |
| PSF           | yes       |          |            |         |

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

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## 1.431 cryptography 41.0.7

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

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

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

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|----------------|-----------------|-----------|------------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI        | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI       | yes                     |
| 1.6            | 1.5.2           | 2000      | CNRI       | no                      |
| 2.0            | 1.6             | 2000      | BeOpen.com | no                      |
| 1.6.1          | 1.6             | 2001      | CNRI       | yes (2)                 |
| 2.1            | 2.0+1.6.1       | 2001      | PSF        | no                      |
| 2.0.1          | 2.0+1.6.1       | 2001      | PSF        | yes                     |
| 2.1.1          | 2.1+2.0.1       | 2001      | PSF        | yes                     |
| 2.1.2          | 2.1.1           | 2002      | PSF        | yes                     |
| 2.1.3          | 2.1.2           | 2002      | PSF        | yes                     |
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# 1.444 containerd-stargz-snapshotter-estargz

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## 1.447 containerd 1.7.12

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procfs provides functions to retrieve system, kernel and process

metrics from the pseudo-filesystem proc.

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localtime.go, localtime\_test.go:

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Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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

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

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

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# 1.450 sqlx 1.3.5

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/\*!

\* Bootstrap Table of Contents v0.4.1 (<http://afeld.github.io/bootstrap-toc/>)

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Found in path(s):

\* /logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.js

\* /logr-1-3-0-4-zip/logr-1.3.0/docs/bootstrap-toc.css

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Package: logr

Title: Creates Log Files

Version: 1.3.0

Authors@R: c(  
 person(given = "David",  
 family = "Bosak",  
 role = c("aut", "cre"),  
 email = "dbosak01@gmail.com"),  
 person("Rikard", "Isaksson", role = "ctb"))  
Description: Contains functions to help create log files. The  
 package aims to overcome the difficulty of the base R sink() command. The  
 log\_print() function will print to both the console and the file log,  
 without interfering in other write operations.  
License: CC0  
Encoding: UTF-8  
URL: <https://logr.r-sassy.org>  
BugReports: <https://github.com/dbosak01/logr/issues>  
Depends: R (>= 3.4.0)  
Suggests:  
 knitr,  
 rmarkdown,  
 testthat,  
 tidylog,  
 dplyr,  
 covr  
Imports: withr,  
 utils,  
 this.path  
VignetteBuilder: knitr  
Roxygen: list(markdown = TRUE)  
RoxygenNote: 7.1.2

Found in path(s):  
\* /logr-1-3-0-4-zip/logr-1.3.0/DESCRIPTION  
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/*  
Source: https://github.com/algolia/docsearch/  
License: MIT  
*/
```

Found in path(s):  
\* /logr-1-3-0-4-zip/logr-1.3.0/docs/docsearch.css

## 1.452 zlib 1.2.3

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# 1.454 open-ldap 2.4.49+dfsg-2ubuntu1.10

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Date: Fri, 6 Jun 2003 10:18:52 -0700  
From: Juan Gomez <juang@us.ibm.com>  
To: Stephen Frost <sfrost@debian.org>  
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999  
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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-----

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)

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To: Stephen Frost <sfrost@debian.org>

Subject: Re: Mark Adamson license in OpenLDAP source

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- \* To: Stephen Frost <[sfrost@snowman.net](mailto:sfrost@snowman.net)>
- \* Subject: Re: OpenLDAP Licenseing issues
- \* From: "Kurt D. Zeilenga" <[Kurt@OpenLDAP.org](mailto:Kurt@OpenLDAP.org)>
- \* Date: Wed, 28 May 2003 10:55:44 -0700
- \* Cc: Steve Langasek <[vorlon@netexpress.net](mailto:vorlon@netexpress.net)>, [debian-legal@lists.debian.org](mailto:debian-legal@lists.debian.org), [openldap-devel@OpenLDAP.org](mailto:openldap-devel@OpenLDAP.org)
- \* In-reply-to: <[20030528162613.GB8524@ns.snowman.net](mailto:20030528162613.GB8524@ns.snowman.net)>
- \* Message-id: <[5.2.0.9.0.20030528094229.02924780@127.0.0.1](mailto:5.2.0.9.0.20030528094229.02924780@127.0.0.1)>
- \* Old-return-path: <[Kurt@OpenLDAP.org](mailto:Kurt@OpenLDAP.org)>

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Regards, Kurt  
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# 1.455 postfix 3.4.13-0ubuntu1.4

## 1.455.1 Available under license :

Author:

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\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

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- \* gzip/zlib I/O 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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- \* Added CodedInputStream.getTotalBytesRead().

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- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

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- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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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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- \* 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.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.

- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues

- \* Added atomicops for AIX (POWER)

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The msinttypes r29

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

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

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```
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```

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

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jloup@gzip.org      madler@alumni.caltech.edu  
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## 1.459 unzip 6.0-25ubuntu1.2

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#### FIRST NOTE:

This file contains some details about the copyright history of contributions to the UnZip project.

Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.

Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):  
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/\*"), Steve P. Miller (Pocket UnZip GUI "wince/\*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding \_in an apparatus that performs LZW encoding\_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip

5.42, the complete

core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.

For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

- \* MoreFiles
- \*
- \* A collection of File Manager and related routines
- \*
- \* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
- \* with significant code contributions by Nitin Ganatra
- \* (Apple Macintosh Developer Technical Support Emeritus)
- \* Copyright 1992-1998

Apple Computer, Inc.

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- \*
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copyright applies to the Mac OS "macbin3" decoding code  
(extra field compatibility with ZipIt):

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- \*
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- \* homepage of Leonard Rosenthol leonardr@netcom.com)

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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

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

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduced code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

-----

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-----

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-----

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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

-----

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### 1.461.1 Available under license :

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Here are the licenses applicable to the use of the netaddr library.

-----  
netaddr  
-----

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Found in path(s):

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No license file was found, but licenses were detected in source scan.

license = {text = "BSD License"}

"License :: OSI Approved :: BSD License",

Found in path(s):

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/pyproject.toml

No license file was found, but licenses were detected in source scan.

.. currentmodule:: netaddr

-----

NEXT\_NETADDR\_VERSION

-----

Date: not released yet

-----

Release: 1.2.1

-----

Date: 2024-02-17

Fixed:

- \* Fix bad version 1.2.0 upload to PyPI – now yanked. No changes to the package.

-----  
Release: 1.2.0  
-----

Date: 2024-02-17

Added:

- \* Add CLI tool subcommand to display `:ref:`cli-network-info``.

Changed:

- \* Support running `:ref:`interactive-shell`` without IPython installed.

Fixed:

- \* Explicitly raise ```TypeError``` if a non-string value is passed to `:func:`valid_ipv4`` or `:func:`valid_ipv6``.

-----  
Release: 1.1.0  
-----

Date: 2024-02-15

Added:

- \* Add the required Python version to the package metadata (GH :issue:`365`).
- \* Add `:func:`expand_partial_ipv4_address`` to the public API.

Fixed:

- \* Fix ```IPNetwork(...) in IPRange(...)``` false negatives (GH :issue:`157`).
- \* Fix a few `:class:`IPNetwork`` slicing edge cases (GH :issue:`214`).
- \* Fix support for partial IP addresses accidentally left in `:class:`IPNetwork`` in 1.0.0.

When I removed the ```implicit_prefix``` switch I missed the fact that there was some partial IPv4 address expansion triggered unconditionally.

If you need the old behavior use `:func:`expand_partial_ipv4_address``.

Related GH issue: [:issue:`110`](#).

- \* Fixed an incorrect license classifier in the package metadata.

-----  
Release: 1.0.0  
-----

Date: 2024-02-10

Removed:

- \* Drop support for Python versions lower than 3.7.
- \* Remove the flag shorthands: ``N``, ``P`` and ``Z``. Use `:data:`NOHOST``, `:data:`INET_PTON`` and `:data:`ZEROFILL`` instead.
- \* Remove abbreviated CIDR format support in `:class:`IPNetwork`` (`implicit_prefix=True``), use `:func:`cidr_abbrev_to_verbose`` if you need this behavior.
- \* Remove the `IPAddress.is_private`` method.

There are more precise replacements for subset of the addresses that used to be handled by `is_private``:

- \* `:meth:`IPAddress.is_link_local``
- \* `:meth:`IPAddress.is_ipv4_private_use``
- \* `:meth:`IPAddress.is_ipv6_unique_local``
- \* `:meth:`IPAddress.is_global``

The following address blocks used to be handled by `is_private`` have no dedicated convenience methods and you'll have to handle them manually or request a method addition:

- \* `100.64.0.0/10`` – Shared Address Space
- \* `192.0.0.0/24`` – IETF Protocol Assignments (watch out – there are exceptions in there)
- \* `198.18.0.0/15`` – Benchmarking
- \* `239.0.0.0`-`239.255.255.255`` – `240.0.0.0/4`` is Reserved, `239.0.0.0/8`` – unclear

Changed:

- \* Stop accepting leading zeros when parsing IPv4 addresses in `:data:`INET_PTON`` mode (it's been allowed on some platforms).

If you need to allow and discard leading zeros use the `:data:`ZEROFILL`` flag.

This change will affect implicit conversions from `str`` in all relevant contexts. If you need to control the IPv4 parsing mode construct `:class:`IPAddress`` objects explicitly.

- \* Stop parsing IPv4 addresses permissively (`inet_aton()``-like) by default.

`:data:`INET_PTON`` is the default mode.

If you need to be permissive and parse using ``inet\_aton()`` semantics use the :data:`INET\_ATON` flag.

This change will affect implicit conversions from ``str`` in all relevant contexts. If you need to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.

- \* Apply the two changes above to :func:`valid\_ipv4` as well.
- \* Update the address databases to the 2024-02-10 versions.

Fixed:

- \* Return ``False`` instead of raising :exc:`AddrFormatError` when an empty string is passed to :func:`valid\_ipv4` or :func:`valid\_ipv6`.
- \* Fix handling of ``dialect`` provided to :class:`EUI` during copy-construction.

-----  
Release: 0.10.1  
-----

Date: 2024-01-02

Fixed:

- \* Get rid of some warnings

Deprecated:

- \* Deprecate the flag shorthands: ``N``, ``P`` and ``Z``. Use :data:`NOHOST`, :data:`INET\_PTON` and :data:`ZEROFILL` instead.
- \* Deprecate importing objects from ``netaddr`` subpackages. Only importing things from the top-level ``netaddr`` namespace is supported, everything else is considered private.

This has already been the case but we can use a reminder.

- \* Deprecate permissive-by-default IPv4 parsing in :func:`valid\_ipv4`. The ``inet\_pton()`` semantics (with leading zeros always disallowed) will become the default. Use :data:`INET\_ATON` and/or :data:`ZEROFILL` flags if you need the legacy behavior.

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Release: 0.10.0  
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Date: 2023-12-31

Added:

- \* Add an :data:`INET\_ATON` flag to explicitly request ``inet\_aton()`` IPv4 parsing semantics from :class:`IPAddress`.
- \* Add an :meth:`IPAddress.is\_ipv4\_private\_use` convenience method.



- \* Add an :meth:`IPAddress.is\_global` convenience method to allow determining if an address is considered globally reachable.
- \* Add an :meth:`IPAddress.is\_ipv6\_unique\_local` convenience method.

Fixed:

- \* Improve Python 3.13 compatibility,  
thank you John Eckersberg.

Deprecated:

- \* Deprecate Python 3.7 support.
- \* Deprecate abbreviated CIDR format support in :class:`IPNetwork`  
(`implicit_prefix=True`).
- \* Deprecate accepting leading zeros when parsing IPv4 addresses in :data:`INET\_PTON` mode  
(it's been allowed on some platforms).

If you need to allow and discard leading zeros use the :data:`ZEROFILL` flag.

This change will affect implicit conversions from `str` in all relevant contexts. If you need to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.

- \* Deprecate parsing IPv4 addresses permissively (`inet_aton()`-like) by default.

:data:`INET\_PTON` will become the default mode.

If you need to be permissive and parse using `inet_aton()` semantics use the :data:`INET\_ATON` flag.

This change will affect implicit conversions from `str` in all relevant contexts. If you need to control the IPv4 parsing mode construct :class:`IPAddress` objects explicitly.

\*

Deprecate the `IPAddress.is_private` method. Migration instructions in the documentation.

Other:

- \* Raise an exception if invalid flags are passed to `IPAddress`, `IPNetwork` or `IPRange`.
- \* Improve the documentation substantially.
- \* Update the DB files to the latest versions (2023-12-23).

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Release: 0.9.0  
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Date: 2023-09-18

Added:

\* Add hash capabilities to OUI (#225, amitmi704)

#### Fixed:

- \* **Backwards incompatible:** Handle RFC 6164 IPv6 addresses (don't reserve first IP address in point-to-point subnets) (\$267, Damien Claisse)
- \* **Technically backwards incompatible:** Fix for `is_loopback` behaviour – consider `IPNetwork('::1/128')` to be loopback (#222, #223, niels)
- \* Include tutorials in source distributions (#215, Louis Sautier)
- \* Fix a documentation typo (#242, Wouter)
- \* Fix print syntax in the documentation to be Python 3 compatible (#221, François Magimel)
- \* Fix the Sphinx syntax in the documentation (#220, François Magimel)

#### Other:

- \*
- Update the databases (#266, Jakub Stasiak)
- \* Deprecate Python 3.6 (#263, Jakub Stasiak)
- \* Eliminate unnecessary evals (#228, KOLANICH)

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Release: 0.8.0

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Date: 3 Jul 2020

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Changes since 0.7.20

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- \* Fixed weak reference support in classes with `__slots__`
- \* Added `__bytes__` to `IPAddress` for intuitive usage, thanks to Michael Belousov.
- \* Added `format()` function to `EUI`, thanks to Omer Anson.
- \* Added `IPNetwork.netmask` property setter, thanks to Naveen Nathan.
- \* Added support for IABs in the `40:D8:55` OUI, thanks to Brian Maissy.
- \* Drastically optimized `spanning_cidr()`, thanks to Brian Maissy.
- \* Fixed `"x.x.x.x/x"` in `IPNetwork` tests, thanks to xpac1985.
- \* Added support for passing iterables of `IPRange` to `IPSet` and `cidr_merge()`, based on a patch by Henry Stern.

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Specific bug fixes addressed in this release

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#### FIXED

Issue 205: <https://github.com/netaddr/netaddr/issues/205>  
- N log N complexity instead of linear

FIXED Issue 171: <https://github.com/netaddr/netaddr/issues/171>

- Efficiently creating a large IPSet from a list of IPRanges?

FIXED Issue 161: <https://github.com/netaddr/netaddr/issues/161>

- Weak reference support

^^^^^^^^^^

#### Miscellanea

^^^^^^^^^^

- The next release (0.9.0) will contain a backwards incompatible change in IPNetwork's behaviour. It's connected to handling of RFC 6164 IPv6 addresses (/127 and /128): IPNetwork.broadcast will return None for those and first addresses in the networks will no longer be excluded when iterating IPNetwork and IPNetwork.iter\_hosts(). See <https://github.com/netaddr/netaddr/pull/168> (or temporarily reverted commit 2984c0a40a70 in this repository) to see the actual patch.

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Release: 0.7.20

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Date: 19 Jun 2020

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#### Changes since 0.7.19

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#### \* Fixed

- returning from an iterator on Python 3.7+, by Sergey Kozlov.
- \* Fixed Python 3.8 SyntaxWarning on using `is not` with a string literal, by Stefan Nordhausen.
- \* Fixed DeprecationWarnings by using raw strings for escape characters used in regexes, by Sean McGinnis.
- \* Improved IPGlob documentation, by obkmeta.
- \* Fixed exception creation in corner cases by explicitly passing error message params as tuples, by Matthias Urlichs.
- \* Stopped manually replacing shebang of an included script.
- \* Stopped using \_\_file\_\_ in all code that's expected to run in environments that don't support it (like PyOxidizer-produced binaries).
- \* Updated all databases included in the package.

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#### Specific bug fixes addressed in this release

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FIXED Issue 182: <https://github.com/netaddr/netaddr/issues/182>

- test\_ip\_splitter\_remove\_prefix\_larger\_than\_input\_range fails with python 3.7

FIXED Issue 206: <https://github.com/netaddr/netaddr/issues/206>

- ""is not" with a literal." SyntaxWarning

FIXED Issue 198: <https://github.com/netaddr/netaddr/issues/198>

- oui databases are outdated

FIXED Issue 188: <https://github.com/netaddr/netaddr/issues/188>

- Avoid use of `__file__`

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#### Miscellanea

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- Python 2 versions older than 2.7 and Python 3 versions older than 3.5 should be considered unsupported. No incompatible code has been introduced to the best of our knowledge but there's no CI infrastructure in place to verify this and if there are any issues with those versions they won't be fixed.
- Consequently, Python 2.7 and 3.5 support should be considered deprecated as 2.7 has reached its end-of-life already and 3.5 will hit it soon.
- A CI setup has been introduced which allows us to test on a variety of Python versions on all Mac, Linux and Windows.

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Release: 0.7.19

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Date: 11 Jan 2017

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#### Changes since 0.7.18

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\*

added a new SubnetSplitter class for those looking to divide up subnets.  
Thanks alanwill and RyPeck and those on (Stack Overflow discussion).

\* removed bundled pytest dependency code for "python setup.py test".

\* setup.py now uses setuptools only (no more distutils) and setup\_egg.py removed.

\* cleaned up INSTALL docs so they accurately reflect current Python packaging.

\* fixed broken parsing, generating and reading of IEEE index files when switching between Python 2.x and 3.x.

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#### Specific bug fixes addressed in this release

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FIXED Issue 133: <https://github.com/drkJam/netaddr/issues/133>

- Splitting a single network into multiple prefixed networks

FIXED Issue 129: <https://github.com/drkJam/netaddr/issues/129>

- fix IPAddress().netmask\_bits to return 0 for 0.0.0.0 and [::] addresses

FIXED Issue 117: <https://github.com/drkjam/netaddr/issues/117>

- (python setup.py test) failing  
with python3 >= 3.5

FIXED Issue 137: <https://github.com/drkjam/netaddr/issues/137>

- API reference is broken on ReadTheDocs

FIXED Issue 143: <https://github.com/drkjam/netaddr/issues/143>

- Please refresh the bundled IANA and IEEE databases

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#### Miscellanea

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- Goodbye to NYSE Euronext (good times), hello Intercontinental Exchange ...

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Release: 0.7.18

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Date: 4 Sep 2015

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#### Changes since 0.7.17

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\* cidr\_merge() algorithm is now O(n) and much faster.

Thanks to Anand Buddhdev (aabdnn) and Stefan Nordhausen (snordhausen).

\* nmap target specification now fully supported including IPv4 CIDR  
prefixes and IPv6 addresses.

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#### Specific bug fixes addressed in this release

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FIXED Issue 100: <https://github.com/drkjam/netaddr/issues/100>

- nmap.py - CIDR targets

FIXED Issue 112: <https://github.com/drkjam/netaddr/issues/112>

- Observation: netaddr slower under pypy

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Release: 0.7.17

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Date: 31 Aug 2015

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## Changes since 0.7.16

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- \* Fixed a regression with valid\_mac due to shadow import in the netaddr module.

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## Specific bug fixes addressed in this release

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FIXED Issue 114: <https://github.com/drkjam/netaddr/issues/114>

- netaddr.valid\_mac('00-B0-D0-86-BB-F7')==False for 0.7.16 but True for 0.7.15

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Release: 0.7.16

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Date: 30 Aug 2015

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## Changes since 0.7.15

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- \* IPv4 networks with /31 and /32 netmasks are now treated according to RFC 3021. Thanks to kalombos and braaen.

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## Specific bug fixes addressed in this release

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FIXED Issue 109: <https://github.com/drkjam/netaddr/issues/109>

- Identify registry of global IPv6 unicast allocations

FIXED Issue 108: <https://github.com/drkjam/netaddr/issues/108>

- One part of docs unclear?

FIXED Issue 106: <https://github.com/drkjam/netaddr/issues/106>

- Eui64 Updated (pull request for Issue 105)

FIXED Issue 105: <https://github.com/drkjam/netaddr/issues/105>

- Support dialects for EUI-64 addresses

FIXED Issue 102: <https://github.com/drkjam/netaddr/issues/102>

- 0.7.15 tarball is missing tests.

FIXED Issue 96: <https://github.com/drkjam/netaddr/issues/96>

- Wrong hosts and broadcasts for /31 and /32 networks.

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Release: 0.7.15

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Date: 29 Jun 2015

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Changes since 0.7.14

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- \* Fix slowness in IPSet.\_\_contains\_\_. Thanks to novas0x2a for noticing.

- \* Normalize IPNetworks when they are added to an IPSet

- \* Converted test suite to py.test

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Specific bug fixes addressed in this release

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FIXED

Issue 98: <https://github.com/drkjam/netaddr/issues/98>

- Convert test suite to py.test

FIXED Issue 94: <https://github.com/drkjam/netaddr/issues/94>

- IPSet.\_\_contains\_\_ is about 40 times slower than the equivalent IPRange

FIXED Issue 95: <https://github.com/drkjam/netaddr/issues/95>

- Inconsistent Address Handling in IPSet

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Release: 0.7.14

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Date: 31st Mar 2015

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Changes since 0.7.13

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- \* Fix weird build breakage in 0.7.13 (wrong Python path, incorrect OUI DB).

- \* EUI, OUI, and IAB objects can now be compared with strings. You can do

```
my_mac = EUI("11:22:33:44:55:66")
```

```
my_mac == "11:22:33:44:55:66"
```

and Python will return True on the "==" operator.

- \* Implement the "!=" operator for OUI and IAB under Python2. It was already working under Python3.

- \* 64 bit EUIs could only be created from strings with "-" as a separator.

Now, ":" and no separator are supported, which already worked for 48 bit EUIs.

## Specific bug fixes addressed in this release

FIXED Issue 80: <https://github.com/drkjam/netaddr/pull/80>

- Compare L2 addresses with their representations

FIXED Issue 81: <https://github.com/drkjam/netaddr/issues/81>

- OUI database tests fail in 0.7.13

FIXED Issue 84: <https://github.com/drkjam/netaddr/issues/84>

- Incorrect python executable path in netaddr-0.7.13-py2.py3-none-any.whl

FIXED Issue 87: <https://github.com/drkjam/netaddr/pull/87>

- Handle eui64 addresses with colon as a delimiter and without delimiter.

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Release: 0.7.13

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Date: 31st Dec 2014

## Changes since 0.7.12

\* IPAddress objects can now be added to/subtracted from each other

## Specific bug fixes addressed in this release

FIXED

Issue 73: <https://github.com/drkjam/netaddr/issues/73>

## - Adding IP Addresses

FIXED Issue 74: <https://github.com/drkjam/netaddr/issues/74>

- compute static global ipv6 addr from the net prefix and mac address

FIXED Issue 75: <https://github.com/drkjam/netaddr/issues/75>

- add classifiers for python 3.3 and 3.4 support

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Release: 0.7.12

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Date: 6th Jul 2014



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## Changes since 0.7.11

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- \* Added method `IPSet.iter_ipranges()`.
- \* `bool(IPSet())` works now for large IPSets, e.g. `IPSet(['2405:8100::/32'])`.
- \* `IPNetwork.iter_hosts` now skips the subnet-router anycast address for IPv6.
- \* Removed function `fbsocket.inet_aton` because it is unused and unnecessary

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## Specific bug fixes addressed in this release

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FIXED Issue 69: <https://github.com/drkjam/netaddr/issues/69>

- Add `__nonzero__` method to `IPSet`

FIXED Pull Request

68: <https://github.com/drkjam/netaddr/pull/68>

- Fixed a bug related to allowing `::0` during `iter_hosts` for v6

FIXED Issue 67: <https://github.com/drkjam/netaddr/issues/67>

- Remove function `fbsocket.inet_aton`

FIXED Pull Request 66: <https://github.com/drkjam/netaddr/pull/66>

- Added Function to create list of `IPRange` for non-contiguous `IPSet`

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Release: 0.7.11

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Date: 19th Mar 2014

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## Changes since 0.7.10

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- \* Performance of `IPSet` increased dramatically, implemented by Stefan Nordhausen and Martijn van Oosterhout. As a side effect, `IPSet(IPNetwork("10.0.0.0/8"))` is now as fast as you'd expect.
- \* Various performance improvements all over the place.
- \* `netaddr` is now hosted on PyPI and can be installed via `pip`.
- \* Doing `"10.0.0.42"` in `IPNetwork("10.0.0.0/24")` works now.



- netmask\_bits is missing from the IPAddress

FIXED Issue 37: <https://github.com/drkjam/netaddr/issues/37>

- Test failures with Python 3.3

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Release: 0.7.10  
-----

Date: 6th Sep 2012

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Changes since 0.7.9

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\* A bunch of Python 3.x bug fixes. Thanks Arfrever.

\* Extended nmap support to cover full target specification.

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Specific bug fixes addressed in this release

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FIXED Issue 36 - <https://github.com/drkjam/netaddr/issues/36>

- ResourceWarnings with Python >=3.2

FIXED Issue 35 - <https://github.com/drkjam/netaddr/issues/35>

-  
netaddr-0.7.9: Test failure with Python 3

FIXED Issue 34 - <https://github.com/drkjam/netaddr/issues/34>

- netaddr.ip.iana.SaxRecordParser.endElement() incompatible with Python 3.1

FIXED Issue 33 - <https://github.com/drkjam/netaddr/issues/33>

- netaddr script not installed with Python 3

FIXED Issue 23 - <https://github.com/drkjam/netaddr/issues/23>

- valid\_nmap\_range() does not validate nmap format case.

FIXED Issue 22 - <https://github.com/drkjam/netaddr/issues/22>

- all\_matching\_cidrs: documentation incorrect

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Release: 0.7.9  
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Date: 28th Aug 2012

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Changes since 0.7.8  
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\* Re-release to fix build removing Sphinx dependency.

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Release: 0.7.8  
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Date: 28th Aug 2012

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Changes since 0.7.7  
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\* New SAX parser for IANA data source files (contributed by Andrew Stromnov)

\* Fixed pickling failures with EUI, OUI and IAB classes.

^^^^^^^^^^^^^^^^^^^^  
Specific  
bug fixes addressed in this release  
^^^^^^^^^^^^^^^^^^^^

FIXED Issue 31 - <https://github.com/drkjam/netaddr/issues/31>

- Exclude '39.0.0.0/8' network from reserved set. Thanks Andrew Stromnov

FIXED Issue 28 - <https://github.com/drkjam/netaddr/issues/28>

- Fix algorithm in ipv6\_link\_local to fully conform to rfc4291. Thanks Philipp Wollermann

FIXED Issue 25 - <https://github.com/drkjam/netaddr/issues/25>

- install\_requires is too aggressive? Thanks Adam Lindsay and commenters.

FIXED Issue 21 - <https://github.com/drkjam/netaddr/issues/21>

- deepcopy for EUI fails. Thanks Ryan Nowakowski.

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Release: 0.7.7

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Date: 30th May 2012

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Changes since 0.7.6

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\* Comprehensive documentation update! It's only taken 4 years  
to get around to using Sphinx and I can confirm it is  
\*\*TOTALLY AWESOME!\*\*

\* Various bug fixes

\* Refreshed IEEE OUI and  
IAB data

^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

Specific bug fixes addressed in this release

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FIXED Issue 24 - <https://github.com/drckjam/netaddr/issues/24>

- Fixed TypeError when comparing BaseIP instance with non-BaseIP objects. Thanks pvaret

FIXED Issue 17 - <https://github.com/drckjam/netaddr/issues/17>

- For large ipv6 networks the .subnet() method fails. Thanks daveyss

FIXED Issue 20 - <https://github.com/drckjam/netaddr/issues/20>

- Test failure with Python 3. Thanks Arfrever

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Release: 0.7.6

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Date: 13th Sep 2011

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Changes since 0.7.5

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\* A bug fix point release

\* Refreshed 3rd party data caches

\* Tested against Python 3.2.x and PyPy 1.6.x

\* Fixed unit tests under for Mac OSX

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### Specific bug fixes addressed in this release

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FIXED Issue 15 - <https://github.com/drkjam/netaddr/issues/15>

- Incorrect and invalid glob produced when last octet is not \*

FIXED Issue 13 - <https://github.com/drkjam/netaddr/issues/13>

- Added support for IPython 0.11 API changes. Thanks juliantaylor

FIXED Issue 11 - <https://github.com/drkjam/netaddr/issues/11>

- Calling valid\_glob on cidr raises ValueError. Thanks radicand

FIXED Issue 7 - <https://github.com/drkjam/netaddr/issues/7>

- Unpickling Bug in IPSet. Thanks LuizOz and labeneator

FIXED Issue 2 - <https://github.com/drkjam/netaddr/issues/2>

- UnboundLocalError raised in IPNetwork constructor. Thanks keesbos

^^^^^^^^^^

### Miscellanea

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- Has a famous soft drink company started making it own NICs?

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Release: 0.7.5

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Date: 5th Oct 2010

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### Changes since 0.7.4

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\* Python 3.x is now fully supported. The paint is still drying on this so please help with testing and raise bug tickets when you find any issues!

New Issue Tracker

- <https://github.com/drkjam/netaddr/issues>

\* Moved code hosting to github. History ported thanks to svn2git.

- (<https://github.com/nirvdrum/svn2git>)

\* All netaddr objects now use approx. 65% less memory due to the use of `__slots__` in classes throughout the codebase. Thanks to Stefan Nordhausen and his Python guru for this suggestion!

\* Applied many optimisations and speedups throughout the codebase.

\* Fixed the behaviour of the IPNetwork constructor so it now behaves in a much more sensible and expected way (i.e. no longer uses inet\_aton semantics which is just plain odd for network addresses).

\* One minor change to behaviour in this version is that the `.value` property on `IPAddress` and `IPNetwork` objects no longer support assignment using a string IP address. Only integer value assignments are now valid. The impact of this change should be minimal for the majority of users.

### Specific bug fixes addressed in this release

FIXED

Issue 49 - <http://code.google.com/p/netaddr/issues/detail?id=49>

- Incorrect IP range recognition on IPs with leading zeros

FIXED Issue 50 - <http://code.google.com/p/netaddr/issues/detail?id=50>

- CIDR block parsing

FIXED Issue 52 - <http://code.google.com/p/netaddr/issues/detail?id=52>

- ipv6 cidr matches incorrectly match ipv4 [sic]

FIXED Issue 53 - <http://code.google.com/p/netaddr/issues/detail?id=53>

- Error in online documentation

FIXED Issue 54 - <http://code.google.com/p/netaddr/issues/detail?id=54>

- IP recognition failure

FIXED Issue 55 - <http://code.google.com/p/netaddr/issues/detail?id=55>

- Support for Python 3.x

FIXED Issue 56 - <http://code.google.com/p/netaddr/issues/detail?id=56>

- checking IPAddress in IPNetwork

FIXED Issue 57 - <http://code.google.com/p/netaddr/issues/detail?id=57>

- netaddr objects can't pickle

FIXED Issue 58 - <http://code.google.com/p/netaddr/issues/detail?id=58>

- IPSet operations should accept the same arguments as IPAddress

FIXED Issue 59 - <http://code.google.com/p/netaddr/issues/detail?id=59>

- netaddr fails to load when imported by a PowerDNS coprocess

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#### Miscellanea

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- Welcome back to standards.ieee.org which seems to have been down for weeks!

- Goodbye Sun Microsystems + Merrill Lynch, hello Oracle + Bank of America ...

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Release: 0.7.4

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Date: 2nd Dec 2009

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#### Changes since 0.7.3

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- \* Applied speed patches by S. Nordhausen

- \* Fixed an inconsistency between EUI and IPAddress interfaces. Made EUI.packed and EUI.bin properties (previously methods) and added a words() property.

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Release: 0.7.3

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Date: 14th Sep 2009

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#### Changes since 0.7.2

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- \* Added \_\_add\_\_, \_\_radd\_\_, \_\_sub\_\_, \_\_rsub\_\_ operators to the IPAddress class.





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Release: 0.7.1  
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Date: 14th Aug 2009

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Changes since 0.7

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\* Renamed the netaddr shell script from 'nash' to plain 'netaddr'. This is to avoid a potentially nasty clash with an important Linux tool with the same name.

Thanks to John Eckersberg for spotting this one early!

\* Updated IANA and IEEE data files with latest versions.

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Specific bug fixes addressed in this release

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FIXED Issue 42 - <http://code.google.com/p/netaddr/issues/detail?id=42>

- Bug in cidr\_merge() function when passed the CIDRs 0.0.0.0/0 and/or ::/0

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Release:

0.7

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Date: 11th Aug 2009

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Changes since 0.6.x

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Please Note - This release represents a major overhaul of netaddr. It breaks backward compatibility with previous releases. See the API documentation for full details of what is available.

Some highlights of what has changed :-

\* Internal module hierarchy has been completely overhauled and redesigned. This fixes up a lot of inconsistencies and problems with interdependent imports. All public classes, objects, functions and constants are still published via the main netaddr module namespace as in previous releases.

\* No more AT\_\* and ST\_\* 'constants'.

- \* The Addr base class is gone. This removes the link between EUI and IP functionality so the library is can now easily be split into distinct units without many interdependencies between layer 2 and layer 3 functionality.
- \* The use of custom descriptor classes has been completely discontinued.
- \* Strategy  
classes and singleton objects have been replaced with a group of strategy modules in their own netaddr.strategy namespace. Each IP or EUI address object now holds a reference to a module rather than a singleton object.
- \* Many operations that were previously static class methods are now presented as functions in the relevant modules. See the API documentation for details.
- \* The IP and CIDR classes have been replaced with two new classes called IPAddress and IPNetwork respectively. This name change is important as the IP part of netaddr has been completely redesigned. The notion of an individual IP address and an IP network or subnet has been made more obvious. IPAddress objects are now true scalars and do not evaluate in a list or tuple context. They also do not support any notion of a netmask or CIDR prefix; this is the primary function of an IPNetwork object.
- \* Arbitrary IP ranges and are still supported but a lot of their functionality has also been exposed via handy functions.
- \* IP globbing routines (previous known as Wildcards) have been moved into their own submodule.
- \* Added a new IPSet class which fully emulates mutable Python sets. This replaces a lot of half-baked experimental classes found in 0.5.x and 0.6.x such as IPRangeSet and CIDRGroup. See documentation for details.
- \* All methods and properties that previously used or supported the 'fmt' formatting property no longer do so. In all cases, objects are now returned to correctly support pass through calls without side effects. It is up to the user to extract data in the right format from the objects IPAddress objects returned as required.
- \* Unit tests have been completely re-written to support docstring style tests bundled into test suites. These are handy as they double up as documentation being combined with wiki syntax. Implemented code coverage checking using coverage 3.x.
- \* nash - a nascent shell like tool for the netaddr library (requires IPython).

Support for RFC 1924 added ;-)

## Specific bug fixes addressed in this release

FIXED Issue 13 - <http://code.google.com/p/netaddr/issues/detail?id=13>

- Searching for a match in a list of CIDR objects

FIXED Issue 26 - <http://code.google.com/p/netaddr/issues/detail?id=26>

- Refactor out use of isinstance()

FIXED Issue 28 - <http://code.google.com/p/netaddr/issues/detail?id=28>

- Add support for network block operations

FIXED Issue 34 - <http://code.google.com/p/netaddr/issues/detail?id=34>

- Addition issue?

-----  
Date: 11th Aug 2009

### Specific bug fixes addressed in this release

FIXED Issue 40 - <http://code.google.com/p/netaddr/issues/detail?id=40>

- Building RPM with "python setup.py bdist\_rpm" fails, multiple errors

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Date:  
23rd Jun 2009

## Changes since 0.6.2

\* Fixed line endings in a number of new files created under Windows.



- \* Added `get_latest_files()` functions to both the `netaddr.eui` and `netaddr.ip` modules to assist in automating release builds.

[illegible]

- Addr. ne returns wrong answer

- ## Open Source Used In Cloud-Agent\_OVA Cloud agent 2.4 version 4730

- \* IPv6 addresses returned by `EUI.ipv6_link_local()` now always have a subnet prefix of /64.
- \* Default sort order of aggregate classes (`IPRange`, `CIDR` and `Wildcard`) has been changed (again). They now sort initially by first address and then by network block size from largest to smallest which feels more natural.
- \* Fixed a bug in the `CIDR.abbrev_to_verbose()` static method where IPv4 addresses with 4 octets (i.e. non-partial addresses) were being assigned subnet prefixes using abbreviated rules. All complete IPv4 addresses should always get a /32 prefix where it is not explicitly provided.
- \* Abbreviated address expansion in the `CIDR` constructor is now optional and can be controlled by a new 'expand\_abbrev' boolean argument.
- \* Added the new `CIDR.summarize()` static method which transforms lists of IP addresses and CIDRs into their most compact forms. Great for trimming down large ad hoc address lists!
- \* Added the `previous()` and `next()` methods to the `CIDR` classes which return the CIDR subnets either side of a given CIDR that are of the same size. For the CIDR `192.0.2.0/24`, `previous` will return `192.0.1.0/24` and `next` will return `192.0.3.0/24`. Also accepts and optional step size (default is 1).
- \* Added the `supernet()` method to the `CIDR` class which returns a generator of all the subnets that contain the current CIDR found by decrementing the prefixlen value for each step until it reaches zero.
- \* Changed the way the fallback code works when the socket module is missing important constants and functions.
- \* Removed the uppercase options from the `Strategy` constructors and internals as this behaviour can be easily replicated using the `word_fmt` option instead and requires less code (`word_fmt='%X'`).

FIXED Issue 23 - <http://code.google.com/p/netaddr/issues/detail?id=23>

FIXED Issue 24 - <http://code.google.com/p/netaddr/issues/detail?id=24>

- bug in CIDR.subnet() when using the fmt argument

FIXED Issue 29 - <http://code.google.com/p/netaddr/issues/detail?id=29>

- CIDR.subnet method's count argument isn't working as documented

FIXED Issue 30 - <http://code.google.com/p/netaddr/issues/detail?id=30>

- not compatible with Python 2.3

FIXED Issue 31 - <http://code.google.com/p/netaddr/issues/detail?id=31>

- byte order in documentation confusing or wrong

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Release: 0.6

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Date: 20th Jan 2009

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Changes since 0.5.x  
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\* Namespace changes

3 new sub namespaces have been added :-

- netaddr.eui

Currently contains IEEE OUI and IAB classes and lookup code.

- netaddr.ip

Currently contains IANA IPv4, IPv6 and IPv4 multicast lookup code.

- netaddr.core

Currently contains only a couple of classes that are shared between code in netaddr.eui and netaddr.ip.

Please Note: This change is part of a two stage internal restructuring of netaddr. In future releases, layer-2 MAC/EUI functionality will be separated from and layer-3 IP, CIDR and Wildcard functionality. All shared code will be moved to netaddr.core. When the migration is complete (expected in 0.7) the netaddr.address and netaddr.strategy namespaces will be removed. Please endeavour to access everything you need via the top-level netaddr namespace from this release onwards. See netaddr.\_\_all\_\_ for details of constants,



objects, classes and functions intended for the public interface.

**\* Addition of IEEE and IANA informational lookups**

- the IP() and EUI() classes now have an additional info() method through which contextual information about your addresses can be accessed. This data is published by IANA and the IEEE respectively and sourced directly from text files bundled with netaddr that are available for download publicly online. Details are available in the docstring of the relevant parsing classes. Subsequent netaddr releases will endeavour to keep up-to-date with any updates to these files.
- the EUI() class has been updated with the addition of the OUI() and IAB() classes. They provide object based access to returned via the EUI.info() method. Please see API docs included with netaddr for details.
- added new NotRegisteredError exception that is raised when an EUI doesn't match any currently registration entries in the IEEE registry files.

**\* Addr() class removed from the public interface**

- This class is only ever meant to be used internally and its usage may soon be deprecated in favour converting it into an abstract base class in future releases.

**\* Deletion of AddrRange() class**

- replaced with the more specific IPRange() class. AddrRange() wasn't very useful in practice. Too much time has been spent explaining its theoretical merits over its actual practicality for every day use.

**\* Addition of new IPRange() class**

- the new base class for CIDR() and Wildcard().
- a 'killer feature' of this new class are the new methods iprange(), cidrs() and wildcard() which allow you to use and switch between all 3 formats easily. IPRange('x', 'y').cidrs() is particularly useful returning all the intervening CIDRs between 2 arbitrary IP addresses.
- IPRange() is a great place to expose several new methods available to sub classes. They are issupernet(), issubnet(), adjacent() and overlaps().
- previous method called data\_flavour() has been renamed (again) to a more suitable format().

\* IP() class updates

- `is_netmask()` and `is_hostmask()`

methods have been optimised and are now both approximately 4 times faster than previously!

- added `wildcard()` and `iprange()` methods that return pre-initialised objects of those classes based on the current netmask / subnet prefix.

- copy constructor methods `ipv4()` and `ipv6()` now preserve the value of the `prefixlen` property now also support IPv6 options for returning IPv4-mapped or IPv4-compatible IPv6 addresses.

- added new methods `is_loopback()`, `is_private()`, `is_link_local()`, `is_ipv4_mapped()` and `is_ipv4_compat()` which are all self explanatory.

- added a `bin()` method which provides an IP address in the same format as the standard Python `bin()` builtin type ('0bxxx') now available in Python 2.6.x and higher.

- added a `packed()` method which provides an IP address in packed binary string format, suitable for passing directly to Python socket calls.

\* `nrange()` generator function updates

- by default this now returns

IP() objects instead of Addr() objects.

\* CIDR() class updates

- the 'strict\_bitmask' option in the CIDR class constructor has been had a name change and is now just 'strict' (less typing).

- support for Cisco ACL-style (hostmask) prefixes. Also available to the IP() class. They are converted to their netmask equivalents before being applied to the base address.

- added a new `subnet()` generator method that returns iterators to subnet CIDRs found within the current CIDR object's boundaries e.g. a /24 CIDR can provide address with subnet prefixes between a /25 and /32.

- added a new `span()` method which takes a list of IP, IPRange, CIDR and/or Wildcards returning a single CIDR that 'spans' the lowest and highest boundary addresses. An important property of this class is that only a single CIDR is returned and that it (potentially) overlaps the start and end addresses. The most important aspect of this method is that it identifies

the left-most set of bits that are common to all supplied addresses. It is the plumbing that makes a lot of other features function correctly.

- although IPv6 doesn't support the concept of a broadcast address, after some pondering I've decide to add `network()` and `broadcast()` methods to the CIDR class. It is an interface quirk that users expect so it has been added for ease of use.

- the methods `network()`, `broadcast()`, `hostmask()` and `netmask()` have been wrapped in `property()` builtin calls to make them appear as read-only properties.

- \* Many more MAC and IPv4 string address representation are now supported

- Improvements to both EUI and IP classes. They now accept many more valid address formats than previously. Thanks for all the bugs tickets raised.

- \* `__repr__()` method behaviour change

- Using `__repr__()` now assume that you have performed a `from netaddr import *` before you execute them. They no longer specify the originating namespace of objects which is a bit unnecessary and a lot to read on-screen. They will also be moving around within the namespace shortly anyway so its best not to think of them as being anywhere other than directly below `netaddr` itself.

- \* 'klass' property renamed to 'fmt' (format)

- now referred to as the 'format callable' property. An unfortunately but necessary change. 'klass' was a bad initial name choice as it most often doesn't even reference a class object also supporting references to Python types, builtin functions and user defined callables.

- \* Complete re-work and consolidation of unit tests.

- now over 100 tests covering all aspects of the API and library functionality.
- Moved all tests into a single file. Lots of additional tests have been added along with interface checks to ensure `netaddr`'s always presents a predictable set of properties and methods across releases.

- \* Nascent support for Python eggs and `setuptools`.

- Help is need to test this as it is not something I use personally.

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Release: 0.5.1

Date: 23rd Sep 2008

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### Specific bug fixes addressed in this release

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- \* CIDR constructor was throwing a TypeError for valid unicode string addresses which worked in previous releases. Fixed and covered with a unit test case.
- \* The methods CIDR.netmask() and CIDR.hostmask() contained code errors that were causing them to fail. Problem fixed and covered with unit test case.

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Release: 0.5

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Date: 19th Sep 2008

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### Changes since 0.4.x

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#### **\*\*General\*\***

- \* Access to all important object attributes in all netaddr classes now takes place via custom Python descriptor protocol classes. This has greatly simplified internal class logic and made external attributes changes much safer and less error prone. It has also made aggregate classes such as CIDR and Wildcard effectively read-write rather than read-only which they have been up until this release.
- \* Amended the way sort order is calculated for Addr and AddrRange (sub)class instances so that the address type is taken into account as well as the numerical value of the address or address range. The ascending sort order is IPv4, IPv6, EUI-48 and EUI-64. Sequences of AddrRange (sub)class instances now sort correctly!
- \* Comparisons between instances of Addr and AddrRange (sub)classes now return False, rather than raising an AttributeError.
- \* Added checks and workaround code for Python runtime environments that suffer from the infamous socket module inet\_aton('255.255.255.255') bug. This was discovered recently in Python 2.4.x on PowerPC under MacOS X. The fix also applies in cases where the socket module is not available (e.g. on Google App Engine).
- \* All general Exception raising in the strategy module has now been replaced

with more specific exceptions, mainly ValueError (these were unintentionally missed out of the 0.4 release).

\* Implemented `__hash__()` operations for the Addr and AddrStrategy classes. This allows you to use IP, CIDR and Wildcard objects as keys in dictionaries and as elements in sets.

Please note - this is currently an experimental feature which may change in future releases.

\* Added `__ne__()` operation to Addr and AddrRange classes.

\* Obeying the 'Law of Demeter', the address type of Addr and AddrRange (sub)class instances can be accessed using the property directly :-

```
obj.addr_type # 0.5 onwards
```

rather than having to go via the strategy object :-

```
obj.strategy.addr_type # 0.4 and earlier
```

\* Renamed the AT\_DESCR lookup dictionary to AT\_NAMES. Removed invalid and duplicated imports from all modules.

**\*\*Addr class changes\*\***

\* Removed the `setvalue()` method from the Addr class and replaced all uses of `__setattr__()` replaced by custom descriptors throughout.

**\*\*IP class changes\*\***

\* Removed the ambiguity with `masklen` and `prefixlen` attributes in the IP class. `prefixlen` now denotes the number of bits that define the netmask for an IP address. The new method `netmask_bits()` returns the number of non-zero bits in an IP object if the `is_netmask()` method returns True. A `prefixlen` value other than /32 for an address where `is_netmask()` returns True is invalid and will raise a ValueError exception.

\* Removed the `family()` method from the IP class. It duplicates information now provided by the `prefixlen` property.

\* IP class has several new methods. `is_multicast()` and `is_unicast()` quickly tell you what category of IP address you have and while `ipv4()` and `ipv6()` act as IPv4 <-> IPv6 conversions or copy constructors depending on context.

\* Reverse DNS lookup entries now contain a trailing, top-level period (.) character appended to them.

\* Added the `hostname()` method to IP instances which performs a reverse DNS

\* The IP class `__str__()` method now omits the subnet prefix is now implicit for IPv4 addresses that are /32 and IPv6 addresses that are /128. Subnet prefix is maintained in return value for all other values.

#### **\*\*AddrRange class changes\*\***

\* The AddrRange class no longer stores instances of Addr (sub)classes for the first and last address in the range. The instance variables `self.start_addr` and `self.stop_addr` have been renamed to `self.first` and `self.last` and the methods `obj.first()` and `obj.last()` have been removed.

Instead, `self.first` and `self.last` contain integer values and a reference to a strategy object is stored. Doing this is a lot more useful and cleaner for implementing internal logic.

To get Addr (sub)class objects (or strings, hex etc when manipulating the the class property) use the index values `obj[0]` and `obj[-1]` as a substitute for `obj.first()` and `obj.last()` respectively.

\* AddrRange (sub)class instances now define the increment, `__iadd__()`, and decrement, `__isub__()`, operators. This allows you to 'slide' CIDRs and Wildcards upwards and downwards based on their block sizes.

\* The `_retval()` method has now been renamed `data_flavour()` - yes, the UK spelling ;-) You shouldn't really care much about this as it mostly for internal use. I gave it a decent name as I didn't see any real need to hide the functionality if users wanted it.

#### **\*\*CIDR class changes\*\***

\* The strictness of the CIDR class constructor in relation to non-zero bits once the prefix bitmask has been applied can be disabled use the optional argument `strict_bitmask=False`. It is True (strictness enabled) by default.

\* Fixed a bug in abbreviated CIDR conversion. Subnet prefix for multicast address 224.0.0.0 is now /4 instead of /8.

\* The CIDR class now supports subtraction between two CIDR objects, returning a list of the remainder. Please note that the bigger of the two CIDR objects must be on the left hand side of the the expression, otherwise an empty list is return. Sorry, you are not allowed to create negative CIDRs ;-)

\* The function `abbrev_to_cidr()` has been renamed to and turned into the static method `CIDR.abbrev_to_verbose()`. No major changes to the logic have been

made.

## **\*\*Wildcard class changes\*\***

\*

The Wildcard class now defines a static method Wildcard.is\_valid() that allows you to perform validity tests on wildcard strings without fully instantiation a Wildcard object.

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Release: 0.4

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Date: 7th Aug 2008

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Changes since 0.3.x

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\* All general Exception raising has been replaced with more specific exceptions such as TypeError and ValueError and with the addition of two custom exception classes, AddrFormatError and AddrConversionError.

\* The IP class now accepts a subnet prefix. It is **\*NOT\*** strict about non-zero bits to the right of implied subnet mask, unlike the CIDR class (see below).

\* The CIDR class is now completely strict about non-zero bits to the right of the implied subnet netmask and raises a ValueError if they exist, with a handy hint as to the correct CIDR to be used based on the supplied subnet prefix.

\* The CIDR class now also supports abbreviated CIDR ranges and uses older classful network address rules to decided on a subnet prefix if one is not explicitly provided. Supported forms now include 10, 10/8 and 192.168/16. Currently only supports these options for IPv4 CIDR address ranges.

\* \_\_repr\_\_() methods have been defined for all classes in the netaddr module producing executable Python statements that can be used to re-create the state of any object.

\* CIDR and Wildcard classes now have methods that support conversions between these two aggregate types :-

\* CIDR -> Wildcard

\* Wildcard -> CIDR

^^^^^^^^^^^^^^^^^^

Housekeeping Changes



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- \* Massive docstring review and tidy up with the inclusion of epydoc specific syntax to spruce up auto-generated API documentation.
- \* Thorough review of code using pylint.
- \* Netaddr module now has the special `__version__` variable defined which is also referenced by setup.py.
- \* Some minor changes to setup.py and MANIFEST.in.
- \* Constants and custom Exception classes have been moved to `__init__.py` from `strategy.py`
- \* An import \* friendly `__all__` has been defined for the netaddr namespace which should remove the need to delve too much into the address and strategy submodules.
- \* Fixed a number of line-ending issues in several files.

Found in path(s):

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/CHANGELOG.rst

No license file was found, but licenses were detected in source scan.

Here are the copyright notices applicable to the netaddr library.

-----  
netaddr  
-----

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See README file and source code for URLs to latest copies of the relevant files.

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See README file and source code for URLs to latest copies of the relevant files.

Found in path(s):

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/COPYRIGHT.rst

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Found in path(s):

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/ip/nmap.py

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\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/eui/\_\_init\_\_.py

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/\_\_init\_\_.py

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/Makefile

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\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/strategy/ipv4.py

\* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/contrib/subnet\_splitter.py

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/netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/ip/sets.py

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* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/ip/iana.py
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* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/strategy/ipv6.py
* /netaddr-netaddr-1-2-1-0-g31d8e29-tar-gz/netaddr-netaddr-89983dd/netaddr/eui/ieee.py
*
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Many people further contributed to netaddr by reporting problems, suggesting various improvements or submitting actual code. Here is a list of these people (in alphabetical order). Help me keep it complete and free of errors.

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Thanks to everyone on the netaddr mailing list, those who raised bug reports and to all those who have, directly and indirectly, guided and influenced the development and distribution of this library.

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a) Python Cookbook recipe 18.11: "Formatting Integers as Binary Strings"

Python Cookbook 2d ed. (O'Reilly Media 2005) ISBN 0596-00797-3  
Alex Martelli, Anna Martelli Ravenscroft and David Ascher

b) ASPN Cookbook Recipe 466286: "Integer set type" by Heiko Wundram

<http://code.activestate.com/recipes/466286/>

And last but not least, thanks to Guido van Rossum for his encouraging words  
and for giving us all Python.

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# 1.463 rancher-wharfie 0.6.4

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```
import { useState } from 'react'
```

```
import { useContext } from 'use-context-selector'
```

```
import I18n from '@context/i18n'
```

```

import { X } from '@app/components/base/icons/src/vender/line/general'
import { NOTICE_I18N } from '@i18n/language'

const MaintenanceNotice = () => {
  const { locale } = useContext(I18n)

  const [showNotice, setShowNotice] = useState(localStorage.getItem('hide-maintenance-notice') !== '1')
  const handleJumpNotice = () => {
    window.open(NOTICE_I18N.href, '_blank')
  }

  const handleCloseNotice = () => {
    localStorage.setItem('hide-maintenance-notice', '1')
    setShowNotice(false)
  }

  const titleByLocale: { [key: string]: string } = NOTICE_I18N.title
  const descByLocale: { [key: string]: string } = NOTICE_I18N.desc

  if (!showNotice)
    return null

  return (
    <div className='shrink-0 flex items-center px-4 h-[38px] bg-[#FFFAEB] border-b border-[0.5px] border-b-[#FEF0C7] z-20'>
      <div className='shrink-0 flex items-center mr-2 px-2 h-[22px] bg-[#F79009] text-white text-[11px] font-medium rounded-xl'>{titleByLocale[locale]}</div>
      {
        (NOTICE_I18N.href && NOTICE_I18N.href !== '#')
        ? <div className='grow text-xs font-medium text-gray-700 cursor-pointer'
onClick={handleJumpNotice}>{descByLocale[locale]}</div>
        : <div className='grow text-xs font-medium text-gray-700'>{descByLocale[locale]}</div>
      }
      <X className='shrink-0 w-4 h-4 text-gray-500 cursor-pointer' onClick={handleCloseNotice} />
    </div>
  )
}

export default MaintenanceNotice

```

# 1.464 opencontainers-image-spec 1.1.0

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## 1.466 binutils 2.34-6ubuntu1.9

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+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

Several engineers at Cygnus Solutions have also provided many

small  
bug fixes and configuration enhancements.

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

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

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

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

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

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

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

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

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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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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Because  
of this blurred distinction, using the ordinary General  
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concluded that weaker conditions might promote sharing better.

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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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Version 3, 29 June 2007

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// SPDX Document for version 2.3 of the spec.

type OtherLicense struct {

    // 10.1: License Identifier: "LicenseRef-[idstring]"

    // Cardinality: conditional (mandatory, one) if license is not

    //         on SPDX License List

    LicenseIdentifier string `json:"licenseId"`

    // 10.2: Extracted Text

    // Cardinality: conditional (mandatory, one) if there is a

    //         License Identifier assigned

    ExtractedText string `json:"extractedText"`

    // 10.3: License Name: single line of text or "NOASSERTION"

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    LicenseName string `json:"name,omitempty"`

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// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//      is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"``
```

```
//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"``
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```

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Bits of Go-lang's ``once.Do()` were cribbed and reused here, too.

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

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

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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package v2\_2

// OtherLicense is an Other License Information section of an

// SPDX Document for version 2.2 of the spec.

type OtherLicense struct {

// 10.1: License Identifier: "LicenseRef-[idstring]"

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

LicenseIdentifier string `json:"licenseId"`

// 10.2: Extracted Text

// Cardinality: conditional (mandatory, one) if there is a

// License Identifier assigned

ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"

// Cardinality: conditional (mandatory, one) if license is not

// on SPDX License List

LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference

// Cardinality: conditional (optional, one or many) if license

// is not on SPDX License List

LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//

10.5: License Comment

// Cardinality: optional, one

LicenseComment string `json:"comment,omitempty"`

}

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Protocol Buffers for Go with Gadgets

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

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

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[localtime.go](https://github.com/pelletier/localtime.go), [localtime\\_test.go](https://github.com/pelletier/localtime_test.go):

#### Originals:

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#### Changes:

- \* Renamed files from civil\* to localtime\*.
- \* Package changed from civil to toml.
- \* 'Local' prefix added to all structs.

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Any executables

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

\*uganda.txt\* For Vim version 8.1. Last change: 2018 May 17

## VIM REFERENCE MANUAL by Bram Moolenaar

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SUMMARY

\*iccf\* \*ICCF\*

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The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

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d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
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Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====

Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is

breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are

very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o.  
box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US

checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy

10238-168 Street

Surrey, B.C. V4N 1Z4

Canada

Phone: 604-581-5353

If

you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is

the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruethof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

# 1.475 protobuf 1.33.0

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# 1.476 curl 7.68.0-1ubuntu2.22

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=====

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I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>)

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## ## libcurl

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

## ## OpenSSL

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

## ## GnuTLS

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## ## libressl

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## ## c-ares

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

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

## ## MIT Kerberos

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

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

## 1.477 golang 1.21.9

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## 1.479 pflag 1.0.5

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## 1.480 util-linux 2.34-0.1ubuntu9.6

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# 1.481 x-sync 0.7.0

## 1.481.1 Available under license :

---

name: github.com/cloudflare/circl/internal/conv

version: v1.3.7

type: go

summary:

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/internal/conv>

license: other

licenses:

- sources: circl/LICENSE

text: |

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notices: []

---

name: github.com/go-git/go-git/v5/config

version: v5.12.0

type: go

summary: Package config contains the abstraction of multiple config files

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/config>

license: apache-2.0

licenses:

- sources: v5/LICENSE

text: |2

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---

name: github.com/go-git/gcfg/token

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package token defines constants representing the lexical tokens of the gcfg  
configuration syntax and basic operations on tokens (printing, predicates).

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/token>

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name: [github.com/cloudflare/circl/sign/ed25519](https://github.com/cloudflare/circl/sign/ed25519)

version: v1.3.7

type: go

summary: Package ed25519 implements Ed25519 signature scheme as described in RFC-8032.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign/ed25519>

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name: [github.com/ProtonMail/go-crypto/ocb](https://github.com/ProtonMail/go-crypto/ocb)

version: v1.0.0

type: go

summary: 'Package ocb provides an implementation of the OCB (offset codebook) mode of operation, as described in RFC-7253 of the IRTF and in Rogaway, Bellare, Black and Krovetz - OCB: A BLOCK-CIPHER MODE OF OPERATION FOR EFFICIENT AUTHENTICATED ENCRYPTION (2003).'

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/ocb>

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name: golang.org/x/crypto/ssh/knownhosts

version: v0.21.0

type: go

summary: Package knownhosts implements a parser for the OpenSSH known\_hosts host key database, and provides utility functions for writing OpenSSH compliant known\_hosts files.

homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh/knownhosts>

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name: github.com/google/go-github/v43/github

version: v43.0.0

type: go

summary: Package github provides a client for using the GitHub API.

homepage: <https://pkg.go.dev/github.com/google/go-github/v43/github>

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name: github.com/go-git/go-git/v5/utils/merkletrie/index

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/merkletrie/index>

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---

name: github.com/emirpasic/gods/lists  
version: v1.18.1  
type: go  
summary: Package lists provides an abstract List interface.  
homepage: <https://pkg.go.dev/github.com/emirpasic/gods/lists>  
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notices: []

---

name: github.com/ProtonMail/go-crypto/openpgp/ecdh

version: v1.0.0

type: go

summary: Package ecdh implements ECDH encryption, suitable for OpenPGP, as specified in RFC 6637, section 8.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/ecdh>

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---

name: golang.org/x/crypto/openpgp/elgamal

version: v0.21.0

type: go

summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms," IEEE Transactions on Information Theory, v.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/elgamal>

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name: github.com/go-git/go-git/v5/plumbing/format/index

version: v5.12.0

type: go

summary: Package index implements encoding and decoding of index format files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/index>

license: apache-2.0

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- sources: v5/LICENSE

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---

name: github.com/ProtonMail/go-crypto/openpgp/errors

version: v1.0.0

type: go

summary: Package errors contains common error types for the OpenPGP packages.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/errors>

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name: github.com/go-git/go-git/v5/plumbing/format/diff

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/diff>

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- sources: v5/LICENSE

text: |2

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text: Apache License Version 2.0, see [LICENSE](LICENSE)

notices: []

---

name: github.com/go-git/go-git/v5/plumbing/format/pktline

version: v5.12.0

type: go

summary: Package pktline implements reading payloads from pkt-lines and encoding pkt-lines from payloads.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/pktline>

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name: github.com/go-git/go-git/v5
version: v5.12.0
type: go
summary: A highly extensible git implementation in pure Go.
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---

name: golang.org/x/crypto/blowfish

version: v0.21.0

type: go

summary: Package blowfish implements Bruce Schneier's Blowfish encryption algorithm.

homepage: <https://pkg.go.dev/golang.org/x/crypto/blowfish>

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name: github.com/spf13/cobra

version: v1.8.0

type: go

summary: Package cobra is a commander providing a simple interface to create powerful modern CLI interfaces.

homepage: <https://pkg.go.dev/github.com/spf13/cobra>

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text: Cobra is released under the Apache 2.0 license. See

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notices: []

---

name: github.com/go-git/go-billy/v5/osfs

version: v5.5.0

type: go  
summary: Package osfs provides a billy filesystem for the OS.  
homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/osfs>  
license: apache-2.0  
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---

name: github.com/cloudflare/circl/math/fp25519

version: v1.3.7

type: go

summary: Package fp25519 provides prime field arithmetic over GF(2<sup>255-19</sup>).

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/fp25519>

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name: github.com/go-git/go-git/v5/plumbing/filemode

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/filemode>

license: apache-2.0

licenses:

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text: |2

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---

name: github.com/go-git/go-git/v5/plumbing/format/idxfile

version: v5.12.0

type: go

summary: Package idxfile implements encoding and decoding of packfile idx files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/idxfile>

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notices: []

---

name: golang.org/x/crypto/openpgp

version: v0.21.0

type: go

summary: Package openpgp implements high level operations on OpenPGP messages.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp>

license: other

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notices: []

---

name: github.com/go-git/go-git/v5/plumbing/format/objfile

version: v5.12.0

type: go

summary: Package objfile implements encoding and decoding of object files.  
homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/objfile>  
license: apache-2.0  
licenses:  
- sources: v5/LICENSE  
text: |2

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- sources: v5/README.md

text: Apache License Version 2.0, see [LICENSE](LICENSE)

notices: []

---

name: github.com/go-git/go-billy/v5

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5>

license: apache-2.0

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package github

import (

  "context"

  "fmt"

)

// LicensesService handles communication with the license related

// methods of the GitHub API.

//

// GitHub API docs: <https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/>

type LicensesService service

// RepositoryLicense represents the license for a repository.

type RepositoryLicense struct {

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

  Path \*string `json:"path,omitempty"`

  SHA \*string `json:"sha,omitempty"`

  Size \*int `json:"size,omitempty"`

  URL \*string `json:"url,omitempty"`

  HTMLURL \*string `json:"html\_url,omitempty"`

  GitURL \*string `json:"git\_url,omitempty"`

  DownloadURL \*string `json:"download\_url,omitempty"`

  Type \*string `json:"type,omitempty"`

  Content \*string `json:"content,omitempty"`

  Encoding

```

    *string `json:"encoding,omitempty"`
    License *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`

    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[]string `json:"permissions,omitempty"`
    Conditions *[]string `json:"conditions,omitempty"`
    Limitations *[]string `json:"limitations,omitempty"`
    Body *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#list-all-licenses
func
(s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

```

```
// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/en/free-pro-team@latest/rest/reference/licenses/#get-a-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}
---
```

name: github.com/go-git/go-git/v5/plumbing/cache  
version: v5.12.0  
type: go  
summary:  
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---

name: github.com/ProtonMail/go-crypto/openpgp/aes/keywrap

version: v1.0.0

type: go

summary: Package keywrap is an implementation of the RFC 3394 AES key wrapping algorithm.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/aes/keywrap>

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name: github.com/cloudflare/circl/dh/x25519

version: v1.3.7

type: go

summary: Package x25519 provides Diffie-Hellman functions as specified in RFC-7748.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/dh/x25519>

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name: [github.com/cloudflare/circl/sign](https://github.com/cloudflare/circl/sign)

version: v1.3.7

type: go

summary: Package sign provides unified interfaces for signature schemes.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign>

license: other

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name: github.com/ProtonMail/go-crypto/openpgp/elgamal

version: v1.0.0

type: go

summary: Package elgamal implements ElGamal encryption, suitable for OpenPGP, as specified in "A Public-Key Cryptosystem and a Signature Scheme Based on Discrete Logarithms,"

IEEE Transactions on Information Theory, v.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/elgamal>

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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband

version: v5.12.0

type: go

summary: Package sideband implements a sideband mutiplex/demultiplexer

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/sideband>

license: apache-2.0

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---

name: github.com/go-git/go-git/v5/plumbing/revlist

version: v5.12.0

type: go

summary: Package revlist provides support to access the ancestors of commits, in a similar way as the git-rev-list command.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/revlist>

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---

name: github.com/go-git/go-git/v5/plumbing/transport/file

version: v5.12.0

type: go

summary: Package file implements the file transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/file>

license: apache-2.0

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---

name: github.com/go-git/go-git/v5/utls/diff

version: v5.12.0

type: go

summary: Package diff implements line oriented diffs, similar to the ancient Unix  
diff command.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/diff>

license: apache-2.0

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---

name: github.com/go-git/go-git/v5/plumbing/transport/client

version: v5.12.0

type: go

summary: Package client contains helper function to deal with the different client  
protocols.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/client>

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---

name: github.com/ProtonMail/go-crypto/internal/byteutil

version: v1.0.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/internal/byteutil>

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name: golang.org/x/oauth2/internal

version: v0.19.0

type: go

summary: Package internal contains support packages for oauth2 package.

homepage: <https://pkg.go.dev/golang.org/x/oauth2/internal>

license: bsd-3-clause

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- sources: oauth2/LICENSE

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name: github.com/ProtonMail/go-crypto/openpgp/eddsa

version: v1.0.0

type: go

summary: Package eddsa implements EdDSA signature, suitable for OpenPGP, as specified in <https://datatracker.ietf.org/doc/html/draft-ietf-openpgp-crypto-refresh-06#section-13.7>  
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name: github.com/ProtonMail/go-crypto/openpgp/internal/ecc

version: v1.0.0

type: go

summary: Package ecc implements a generic interface for ECDH, ECDSA, and EdDSA.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/internal/ecc>

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name: github.com/go-git/go-git/v5/plumbing/format/config

version: v5.12.0

type: go

summary: Package config implements encoding and decoding of git config files.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/config>

license: apache-2.0

licenses:

- sources: v5/LICENSE

text: |2

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---

name: github.com/go-git/go-git/v5/storage/filesystem

version: v5.12.0

type: go

summary: Package filesystem is a storage backend base on filesystems

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage/filesystem>

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---

name: github.com/go-git/go-git/v5/utls/binary

version: v5.12.0

type: go

summary: Package binary implements syntax-sugar functions on top of the standard library binary package

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/binary>

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---

name: golang.org/x/crypto/openpgp/packet

version: v0.21.0

type: go

summary: Package packet implements parsing and serialization of OpenPGP packets, as specified in RFC 4880.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/packet>

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name: github.com/ProtonMail/go-crypto/openpgp/internal/encoding

version: v1.0.0

type: go

summary: Package encoding implements openpgp packet field encodings as specified in RFC 4880 and 6637.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/internal/encoding>

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name: github.com/emirpasic/gods/trees

version: v1.18.1

type: go

summary: Package trees provides an abstract Tree interface.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/trees>

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name: github.com/emirpasic/gods/containers

version: v1.18.1

type: go

summary: Package containers provides core interfaces and functions for data structures.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/containers>

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name: golang.org/x/crypto/ssh/agent

version: v0.21.0

type: go

summary: Package agent implements the ssh-agent protocol, and provides both a client and a server.

homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh/agent>

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name: github.com/go-git/go-git/v5/plumbing/transport/internal/common

version: v5.12.0

type: go

summary: Package common implements the git pack protocol with a pluggable transport.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/internal/common>

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---

name: github.com/cloudflare/circl/sign/ed448

version: v1.3.7

type: go

summary: Package ed448 implements Ed448 signature scheme as described in RFC-8032.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/sign/ed448>

license: other

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name: github.com/ProtonMail/go-crypto/openpgp/internal/algorithm

version: v1.0.0

type: go

summary:

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version: v5.12.0  
type: go  
summary:  
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name: github.com/go-git/go-git/v5/storage

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage>

license: apache-2.0

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name: github.com/go-git/go-git/v5/utls/merkletrie

version: v5.12.0

type: go

summary: Package merkletrie provides support for n-ary trees that are at the same  
time Merkle trees and Radix trees (tries).

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/merkletrie>

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---

name: golang.org/x/sys/execabs

version: v0.18.0

type: go

summary: Package execabs is a drop-in replacement for os/exec that requires PATH lookups to find absolute paths.

homepage: <https://pkg.go.dev/golang.org/x/sys/execabs>

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name: golang.org/x/net/context

version: v0.23.0

type: go

summary: Package context defines the Context type, which carries deadlines, cancelation signals, and other request-scoped values across API boundaries and between processes.

homepage: <https://pkg.go.dev/golang.org/x/net/context>

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name: golang.org/x/crypto/openpgp/s2k

version: v0.21.0

type: go

summary: Package s2k implements the various OpenPGP string-to-key transforms as specified in RFC 4800 section 3.7.1.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/s2k>

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name: github.com/go-git/gcfg/scanner

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package scanner implements a scanner for gcfg configuration text.

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/scanner>

license: other

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name: github.com/golang/groupcache/lru

version: v0.0.0-20210331224755-41bb18bfe9da

type: go



summary: Package lru implements an LRU cache.

homepage: <https://pkg.go.dev/github.com/golang/groupcache/lru>

license: apache-2.0

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---

name: github.com/go-git/go-git/v5/plumbing/storer  
version: v5.12.0  
type: go  
summary: Package storer defines the interfaces to store objects, references, etc.  
homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/storer>  
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name: dario.cat/mergo

version: v1.0.0

type: go

summary: A helper to merge structs and maps in Golang.

homepage: <https://pkg.go.dev/dario.cat/mergo>

license: bsd-3-clause

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name: github.com/go-git/go-git/v5/Utils/merkletrie/internal/frame

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/Utils/merkletrie/internal/frame>

license: apache-2.0

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- sources: v5/LICENSE

text: |2

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---

name: github.com/cloudflare/circl/internal/sha3

version: v1.3.7

type: go

summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and  
the SHAKE variable-output-length hash functions defined by FIPS-202.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/internal/sha3>

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name: github.com/go-git/go-billy/v5/util

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/util>

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---

name: github.com/go-git/gcfg/types

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package types defines helpers for type conversions.

homepage: <https://pkg.go.dev/github.com/go-git/gcfg/types>

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licenses:

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---

name: golang.org/x/crypto/argon2

version: v0.21.0

type: go

summary: Package argon2 implements the key derivation function Argon2.

homepage: <https://pkg.go.dev/golang.org/x/crypto/argon2>

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name: golang.org/x/sys/unix

version: v0.18.0

type: go

summary: Package unix contains an interface to the low-level operating system primitives.

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name: golang.org/x/crypto/blake2b

version: v0.21.0

type: go

summary: Package blake2b implements the BLAKE2b hash algorithm defined by RFC 7693 and the extendable output function (XOF) BLAKE2Xb.

homepage: <https://pkg.go.dev/golang.org/x/crypto/blake2b>

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name: github.com/pjbgf/sha1cd/ubc

version: v0.3.0

type: go

summary: ubc package provides ways for SHA1 blocks to be checked for Unavoidable Bit Conditions that arise from crypto analysis attacks.

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd/ubc>

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---

name: github.com/ProtonMail/go-crypto/eax

version: v1.0.0

type: go

summary: 'Package eax provides an implementation of the EAX (encrypt-authenticate-translate) mode of operation, as described in Bellare, Rogaway, and Wagner "THE EAX MODE OF OPERATION: A TWO-PASS AUTHENTICATED-ENCRYPTION SCHEME OPTIMIZED FOR SIMPLICITY AND

EFFICIENCY." In FSE'04, volume 3017 of LNCS, 2004'

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/eax>

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name: github.com/go-git/go-git/v5/plumbing/hash

version: v5.12.0

type: go

summary: package hash provides a way for managing the underlying hash implementations used across go-git.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/hash>

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- sources: v5/LICENSE

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---

name: github.com/emirpasic/gods/utils

version: v1.18.1

type: go

summary: Package utils provides common utility functions.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/utils>

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name: gopkg.in/warnings.v0

version: v0.1.2

type: go

summary: Package warnings implements error handling with non-fatal errors (warnings).

homepage: <https://pkg.go.dev/gopkg.in/warnings.v0>

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name: github.com/google/go-querystring/query

version: v1.1.0

type: go

summary: Package query implements encoding of structs into URL query parameters.

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name: github.com/pkg/errors

version: v0.9.1

type: go

summary: Package errors provides simple error handling primitives.

homepage: <https://pkg.go.dev/github.com/pkg/errors>

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name: golang.org/x/oauth2

version: v0.19.0

type: go

summary: Package oauth2 provides support for making OAuth2 authorized and authenticated HTTP requests, as specified in RFC 6749.

homepage: <https://pkg.go.dev/golang.org/x/oauth2>

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name: [golang.org/x/crypto/openpgp/errors](https://golang.org/x/crypto/openpgp/errors)

version: v0.21.0

type: go

summary: Package errors contains common error types for the OpenPGP packages.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/errors>

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---

name: github.com/go-git/go-git/v5/utls/trace

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/trace>

license: apache-2.0

licenses:

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text: |2

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---

name: github.com/go-git/go-git/v5/utls/sync

version: v5.12.0

type: go



summary:

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---

name: github.com/xanzy/ssh-agent  
version: v0.3.3  
type: go  
summary:  
homepage: <https://pkg.go.dev/github.com/xanzy/ssh-agent>  
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---

name: github.com/go-git/go-git/v5/storage/filesystem/dotgit

version: v5.12.0

type: go

summary: <https://github.com/git/git/blob/master/Documentation/gitrepository-layout.txt>

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage/filesystem/dotgit>

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---

name: github.com/go-git/go-git/v5/plumbing/transport

version: v5.12.0

type: go

summary: Package transport includes the implementation for different transport protocols.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport>

license: apache-2.0

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text: |2

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name: github.com/cloudflare/circl/math/fp448

version: v1.3.7

type: go

summary: Package fp448 provides prime field arithmetic over  $GF(2^{448}-2^{224}-1)$ .

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/fp448>

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version: v5.12.0  
type: go  
summary:  
homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/color>  
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name: github.com/ProtonMail/go-crypto/openpgp/ecdsa

version: v1.0.0

type: go

summary: Package ecdsa implements ECDSA signature, suitable for OpenPGP, as specified in RFC 6637, section 5.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/ecdsa>

license: other

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---

name: github.com/go-git/go-git/v5/utils/ioutil

version: v5.12.0

type: go

summary: Package ioutil implements some I/O utility functions.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utils/ioutil>

license: apache-2.0

licenses:

- sources: v5/LICENSE

text: |2

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- sources: v5/README.md

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---

name: github.com/go-git/go-git/v5/internal/revision

version: v5.12.0

type: go

summary: 'Package revision extracts git revision from string More information about  
revision : <https://www.kernel.org/pub/software/scm/git/docs/gitrevisions.html>'

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/internal/revision>

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version: v5.12.0  
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---

name: golang.org/x/net/internal/socks

version: v0.23.0

type: go

summary: Package socks provides a SOCKS version 5 client implementation.

homepage: <https://pkg.go.dev/golang.org/x/net/internal/socks>

license: other

licenses:

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notices: []

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name: github.com/go-git/go-git/v5/storage/memory

version: v5.12.0

type: go

summary: Package memory is a storage backend base on memory

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/storage/memory>

license: apache-2.0

licenses:

- sources: v5/LICENSE

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---

name: github.com/go-git/go-git/v5/utls/merkletrie/noder

version: v5.12.0

type: go

summary: Package noder provide an interface for defining nodes in a merkletrie, their hashes and their paths (a noders and its ancestors).

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/utls/merkletrie/noder>

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notices: []

---

name: github.com/go-git/go-git/v5/internal/url

version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/internal/url>

license: apache-2.0

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---

name: github.com/jbenet/go-context/io

version: v0.0.0-20150711004518-d14ea06fba99

type: go

summary: Package ctxio provides io.Reader and io.Writer wrappers that respect context.Contexts.

homepage: <https://pkg.go.dev/github.com/jbenet/go-context/io>

license: mit

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---

name: github.com/go-git/go-git/v5/plumbing/object

version: v5.12.0

type: go

summary: Package object contains implementations of all Git objects and utility functions to work with them.

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notices: []

---

name: golang.org/x/crypto/ssh/internal/bcrypt\_pbkdf

version: v0.21.0

type: go

summary: Package bcrypt\_pbkdf implements bcrypt\_pbkdf(3) from OpenBSD.

homepage: [https://pkg.go.dev/golang.org/x/crypto/ssh/internal/bcrypt\\_pbkdf](https://pkg.go.dev/golang.org/x/crypto/ssh/internal/bcrypt_pbkdf)

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---

name: github.com/ProtonMail/go-crypto/openpgp

version: v1.0.0

type: go

summary: Package openpgp implements high level operations on OpenPGP messages.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp>

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name: github.com/go-git/go-billy/v5/helper/chroot

version: v5.5.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-billy/v5/helper/chroot>

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---

name: golang.org/x/crypto/curve25519

version: v0.21.0

type: go

summary: Package curve25519 provides an implementation of the X25519 function, which  
performs scalar multiplication on the elliptic curve known as Curve25519.

homepage: <https://pkg.go.dev/golang.org/x/crypto/curve25519>

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---

name: github.com/ProtonMail/go-crypto/openpgp/s2k

version: v1.0.0

type: go

summary: Package s2k implements the various OpenPGP string-to-key transforms as specified in RFC 4800 section 3.7.1, and Argon2 specified in draft-ietf-openpgp-crypto-refresh-08 section 3.7.1.4.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/s2k>

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name: github.com/ProtonMail/go-crypto/brainpool

version: v1.0.0

type: go

summary: Package brainpool implements Brainpool elliptic curves.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/brainpool>

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version: v5.12.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp>

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---

name: github.com/go-git/go-git/v5/plumbing

version: v5.12.0

type: go

summary: package plumbing implement the core interfaces and structs used by go-git

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing>

license: apache-2.0

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---

name: [golang.org/x/crypto/openpgp/armor](https://golang.org/x/crypto/openpgp/armor)

version: v0.21.0

type: go

summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.

homepage: <https://pkg.go.dev/golang.org/x/crypto/openpgp/armor>

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---

name: github.com/kevinburke/ssh\_config

version: v1.2.0

type: go

summary: Package ssh\_config provides tools for manipulating SSH config files.

homepage: [https://pkg.go.dev/github.com/kevinburke/ssh\\_config](https://pkg.go.dev/github.com/kevinburke/ssh_config)

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santosh653 <70637961+santosh653@users.noreply.github.com>

---

name: golang.org/x/crypto/cast5

version: v0.21.0

type: go

summary: Package cast5 implements CAST5, as defined in RFC 2144.

homepage: <https://pkg.go.dev/golang.org/x/crypto/cast5>

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name: github.com/ProtonMail/go-crypto/openpgp/packet

version: v1.0.0

type: go

summary: Package packet implements parsing and serialization of OpenPGP packets, as specified in RFC 4880.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/packet>

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name: github.com/cloudflare/circl/dh/x448

version: v1.3.7

type: go

summary: Package x448 provides Diffie-Hellman functions as specified in RFC-7748.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/dh/x448>

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version: v0.3.0

type: go

summary:

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd/internal>

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---

name: golang.org/x/net/proxy

version: v0.23.0

type: go

summary: Package proxy provides support for a variety of protocols to proxy network data.

homepage: <https://pkg.go.dev/golang.org/x/net/proxy>

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---

name: github.com/cloudflare/circl/math

version: v1.3.7

type: go

summary: Package math provides some utility functions for big integers.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math>

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name: github.com/skeema/knownhosts

version: v1.2.2

type: go

summary: Package knownhosts is a thin wrapper around [golang.org/x/crypto/ssh/knownhosts](https://golang.org/x/crypto/ssh/knownhosts), adding the ability to obtain the list of host key algorithms for a known host.

homepage: <https://pkg.go.dev/github.com/skeema/knownhosts>

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---

name: github.com/emirpasic/gods/trees/binaryheap

version: v1.18.1

type: go

summary: Package binaryheap implements a binary heap backed by array list.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/trees/binaryheap>

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name: github.com/go-git/gcfg

version: v1.5.1-0.20230307220236-3a3c6141e376

type: go

summary: Package gcfg reads "INI-style" text-based configuration files with "name=value" pairs grouped into sections (gcfg files).

homepage: <https://pkg.go.dev/github.com/go-git/gcfg>

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---

name: github.com/pjbgf/sha1cd

version: v0.3.0

type: go

summary: Package sha1cd implements collision detection based on the whitepaper Counter-cryptanalysis from Marc Stevens.

homepage: <https://pkg.go.dev/github.com/pjbgf/sha1cd>

license: apache-2.0

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- sources: LICENSE

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---

name: github.com/cloudflare/circl/math/mlsbset

version: v1.3.7

type: go

summary: Package mlsbset provides a constant-time exponentiation method with precomputation.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/math/mlsbset>

license: other

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notices: []

---

name: github.com/go-git/go-git/v5/plumbing/format/packfile

version: v5.12.0

type: go

summary: Package packfile implements encoding and decoding of packfile format.  
homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/format/packfile>  
license: apache-2.0  
licenses:  
- sources: v5/LICENSE  
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---

name: golang.org/x/crypto/ssh  
version: v0.21.0  
type: go  
summary: Package ssh implements an SSH client and server.  
homepage: <https://pkg.go.dev/golang.org/x/crypto/ssh>  
license: other  
licenses:

- sources: crypto/LICENSE  
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name: github.com/go-git/go-git/v5/plumbing/transport/server

version: v5.12.0

type: go

summary: Package server implements the git server protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/server>

license: apache-2.0

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- sources: v5/README.md

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name: github.com/emirpasic/gods/lists/arraylist

version: v1.18.1

type: go

summary: Package arraylist implements the array list.

homepage: <https://pkg.go.dev/github.com/emirpasic/gods/lists/arraylist>

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---

name: golang.org/x/crypto/sha3

version: v0.21.0

type: go

summary: Package sha3 implements the SHA-3 fixed-output-length hash functions and the SHAKE variable-output-length hash functions defined by FIPS-202.

homepage: <https://pkg.go.dev/golang.org/x/crypto/sha3>

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name: github.com/ProtonMail/go-crypto/bitcurves

version: v1.0.0

type: go

summary:

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name: github.com/cyphar/filepath-securejoin

version: v0.2.4

type: go

summary: Package securejoin is an implementation of the hopefully-soon-to-be-included SecureJoin helper that is meant to be part of the "path/filepath" package.

homepage: <https://pkg.go.dev/github.com/cyphar/filepath-securejoin>

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name: github.com/go-git/go-git/v5/plumbing/protocol/packp/capability

version: v5.12.0



type: go

summary: Package capability defines the server and client capabilities.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/protocol/packp/capability>

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---

name: github.com/cloudflare/circl/ecc/goldilocks

version: v1.3.7

type: go

summary: Package goldilocks provides elliptic curve operations over the goldilocks curve.

homepage: <https://pkg.go.dev/github.com/cloudflare/circl/ecc/goldilocks>

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---

name: github.com/go-git/go-git/v5/plumbing/transport/http

version: v5.12.0

type: go

summary: Package http implements the HTTP transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/http>

license: apache-2.0

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---

name: github.com/spf13/pflag

version: v1.0.5

type: go

summary: Package pflag is a drop-in replacement for Go's flag package, implementing  
POSIX/GNU-style --flags.

homepage: <https://pkg.go.dev/github.com/spf13/pflag>

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name: github.com/go-git/go-git/v5/plumbing/transport/git

version: v5.12.0

type: go

summary: Package git implements the git transport protocol.

homepage: <https://pkg.go.dev/github.com/go-git/go-git/v5/plumbing/transport/git>

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---

name: github.com/ProtonMail/go-crypto/openpgp/armor

version: v1.0.0

type: go

summary: Package armor implements OpenPGP ASCII Armor, see RFC 4880.

homepage: <https://pkg.go.dev/github.com/ProtonMail/go-crypto/openpgp/armor>

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name: github.com/go-git/go-git/v5/plumbing/format/gitignore

version: v5.12.0

type: go

summary: Package gitignore implements matching file system paths to gitignore patterns that can be automatically read from a git repository tree in the order of definition priorities.

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name: github.com/sergi/go-diff/diffmatchpatch

version: v1.3.2-0.20230802210424-5b0b94c5c0d3

type: go

summary: Package diffmatchpatch offers robust algorithms to perform the operations required for synchronizing plain text.

homepage: <https://pkg.go.dev/github.com/sergi/go-diff/diffmatchpatch>

license: mit

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...

# 1.482 gnutls 3.6.13-2ubuntu1.11

## 1.482.1 Available under license :

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```
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## version 0.1  
##  
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## 1.492 gopkg.in-yaml 3.0.1

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# 1.498 masterminds-semver 3.2.1

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# 1.499 chardet 3.0.4

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## 1.500 spew 1.1.1

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## 1.503 sprig 3.2.3

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

```
fields:
```

```
  site: string
```

```
  author: root
```

## 1.507 golang 1.22.3

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- \* details.
- \*
- \*
- \*
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- \*
- \* M. Welsh, 6 July 1996
- \*
- \*
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/\* nicstar.c v0.22 Jawaid Bazayar (bazayar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazayar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

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\* M. Welsh, 6 July 1996

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Version 1.0

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# 1.514 k3s-io-kubernetes-staging-src-k8s.io-apimachinery 1.30.0-k3s1

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# 1.516 k3s-io-klog 2.120.1-k3s1

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package spec

// License information for the exposed API.

//

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

type License struct {

    Name string `json:"name,omitempty"`

    URL string `json:"url,omitempty"`

}

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package spec

import "testing"

func TestIntegrationLicense(t \*testing.T) {

    license := License{Name: "the name", URL: "the url"}

    const licenseJSON = `{"name":"the name","url":"the url"}`

    const licenseYAML = "name: the name\nurl: the url\n"

    assertSerializeJSON(t, license, licenseJSON)

    assertParsesJSON(t, licenseJSON, license)

}

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# 1.518 docker 24.0.6+incompatible

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## 1.520 pynacl 1.3.0

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## 1.521 lib-pq 1.10.9

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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//  
// Note: Notice handlers are executed synchronously by pq meaning commands  
// won't continue to be processed until the handler returns.
```

```

func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
}

```

```
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}  
}
```

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## 1.522 reflectwalk 1.0.2

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# 1.534 google-uuid 1.3.0

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# 1.535 pycparser 2.22



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pyparser -- A C parser in Python

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# 1.558 errors 0.9.1

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