



Rocky Enterprise Linux 9.2 Manual Pages on command 'openpty.3'

C:\>man openpty.3

OPENPTY(3) Linux Programmer's Manual OPENPTY(3)

NAME

openpty, login_tty, forkpty - terminal utility functions

SYNOPSIS

```
#include <pty.h>
```

```
int openpty(int *amaster, int *aslave, char *name,  
            const struct termios *termp,  
            const struct winsize *winp);
```

```
pid_t forkpty(int *amaster, char *name,  
              const struct termios *termp,  
              const struct winsize *winp);
```

```
#include <utmp.h>
```

```
int login_tty(int fd);
```

Link with -lutil.

DESCRIPTION

The `openpty()` function finds an available pseudoterminal and returns file descriptors for the master and slave in `amaster` and `aslave`. If `name` is not `NULL`, the filename of the slave is returned in `name`. If `termp` is not `NULL`, the terminal parameters of the slave will be set to the values in `termp`. If `winp` is not `NULL`, the window size of the slave will be set to the values in `winp`.

The `login_tty()` function prepares for a login on the terminal `fd` (which may be a real terminal device, or the slave of a pseudoterminal as returned by `openpty()`) by

forkpty() in glibc 2.8.

In versions of glibc before 2.0.92, openpty() returns file descriptors for a BSD pseudoterminal pair; since glibc 2.0.92, it first attempts to open a UNIX 98 pseudo-terminal pair, and falls back to opening a BSD pseudoterminal pair if that fails.

BUGS

Nobody knows how much space should be reserved for name. So, calling openpty() or forkpty() with non-NULL name may not be secure.

SEE ALSO

fork(2), ttyname(3), pty(7)

COLOPHON

This page is part of release 5.05 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.

GNU

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