

NAME

grantpt - grant access to the slave pseudoterminal

SYNOPSIS

```
#define _XOPEN_SOURCE /* See feature\_test\_macros\(7\)
*/
#include <stdlib.h>

int grantpt(int fd);
```

DESCRIPTION

The **grantpt()** function changes the mode and owner of the slave pseudoterminal device corresponding to the master pseudoterminal referred to by *fd*. The user ID of the slave is set to the real UID of the calling process. The group ID is set to an unspecified value (e.g., *tty*). The mode of the slave is set to 0620 (crw--w----).

The behavior of **grantpt()** is unspecified if a signal handler is installed to catch **SIGCHLD** signals.

RETURN VALUE

When successful, **grantpt()** returns 0. Otherwise, it returns -1 and sets *errno* appropriately.

ERRORS**EACCES**

The corresponding slave pseudoterminal could not be accessed.

EBADF

The *fd* argument is not a valid open file descriptor.

EINVAL

The *fd* argument is valid but not associated with a master pseudoterminal.

VERSIONS

grantpt() is provided in glibc since version 2.1.

CONFORMING TO

POSIX.1-2001.

NOTES

This is part of the UNIX 98 pseudoterminal support, see [pts\(4\)](#). Many systems implement this function via a set-user-ID helper binary called `pt_chown`. With Linux devpts no such helper binary is required.

SEE ALSO

[open\(2\)](#), [posix_openpt\(3\)](#), [ptsname\(3\)](#), [unlockpt\(3\)](#), [pts\(4\)](#), [pty\(7\)](#)

COLOPHON

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