NAME

ttyname, ttyname_r − return name of a terminal

SYNOPSIS

#include <unistd.h>

char *ttyname(int *fd***);**

int ttyname_r(int *fd***, char ****buf***, size_t** *buflen***);**

DESCRIPTION

The function **ttyname**() returns a pointer to the null-terminated pathname of the terminal device that is open on the file descriptor *fd*, or NULL on error (for example, if *fd* is not connected to a terminal). The return value may point to static data, possibly overwritten by the next call. The function **ttyname_r**() stores this pathname in the buffer *buf* of length *buflen*.

RETURN VALUE

The function **ttyname**() returns a pointer to a pathname on success. On error, NULL is returned, and *errno* is set appropriately. The function **ttyname_r**() returns 0 on success, and an error number upon error.

ERRORS

EBADF

Bad file descriptor.

ENODEV

File descriptor refers to a slave pseudoterminal device but the corresponding pathname could not be found (see NOTES).

ENOTTY

File descriptor does not refer to a terminal device.

ERANGE

(**ttyname_r**()) *buflen* was too small to allow storing the pathname.

ATTRIBUTES

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
ttyname()	Thread safety	MT-Unsafe race:ttyname
ttyname_r()	Thread safety	MT-Safe

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, 4.2BSD.

NOTES

A process that keeps a file descriptor that refers to a **pts**(4) device open when switching to another mount namespace that uses a different */dev/ptmx* instance may still accidentally find that a device path of the same name for that file descriptor exists. However, this device path refers to a different device and thus can't be used to access the device that the file descriptor refers to. Calling **ttyname**() or **ttyname_r**() on the file descriptor in the new mount namespace will cause these functions to return NULL and set *errno* to **ENODEV**.

SEE ALSO

tty(1), **fstat**(2), **ctermid**(3), **isatty**(3), **pts**(4)

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/.