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

\$ man ttyname_r.3

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

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

ENOTTY `fd` 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).

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?Interface ? Attribute ? Value ?

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?ttyname() ? Thread safety ? MT-Unsafe race:ttyname ?

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?ttyname_r() ? Thread safety ? MT-Safe ?

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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 5.10 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/>.