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*Rocky Enterprise Linux 9.2 Manual Pages on command 'ttyname\_r.3'*

**\$ man ttynname r.3**

## TTYNAME(3)

## Linux Programmer's Manual

TTYNAME(3)

NAME

`ttynname, ttynname_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 `ttynname()` 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 `ttynname_r()` stores this pathname in the buffer `buf` of length `buflen`.

## RETURN VALUE

The function `ttynname()` returns a pointer to a pathname on success. On error, `NULL` is returned, and `errno` is set appropriately. The function `ttynname_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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?ttynname() ? Thread safety ? MT-Unsafe race:ttynname ?

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?ttynname\_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 ttynname() or ttynname\_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

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