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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'ttyname_r.3' command

\$ 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 path name 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 path?
name.

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

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