



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

\$ man ttyname.3p

TTYNAME(3P) POSIX Programmer's Manual TTYNAME(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

ttyname, ttyname_r ? find the pathname of a terminal

SYNOPSIS

```
#include <unistd.h>

char *ttyname(int fildes);

int ttyname_r(int fildes, char *name, size_t namesize);
```

DESCRIPTION

The `ttyname()` function shall return a pointer to a string containing a null-terminated pathname of the terminal associated with file descriptor `fildes`. The application shall not modify the string returned. The returned pointer might be invalidated or the string content might be overwritten by a subsequent call to `ttyname()`. The returned pointer and the string content might also be invalidated if the calling thread is terminated.

The `ttyname()` function need not be thread-safe.

The `ttyname_r()` function shall store the null-terminated pathname of the terminal associated with the file descriptor `fildes` in the `charac?`

ter array referenced by name. The array is `namesize` characters long and should have space for the name and the terminating null character.

The maximum length of the terminal name shall be `{TTY_NAME_MAX}`.

RETURN VALUE

Upon successful completion, `ttyname()` shall return a pointer to a string. Otherwise, a null pointer shall be returned and `errno` set to indicate the error.

If successful, the `ttyname_r()` function shall return zero. Otherwise, an error number shall be returned to indicate the error.

ERRORS

The `ttyname()` function may fail if:

`EBADF` The `fildev` argument is not a valid file descriptor.

`ENOTTY` The file associated with the `fildev` argument is not a terminal.

The `ttyname_r()` function may fail if:

`EBADF` The `fildev` argument is not a valid file descriptor.

`ENOTTY` The file associated with the `fildev` argument is not a terminal.

`ERANGE` The value of `namesize` is smaller than the length of the string to be returned including the terminating null character.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

The term "terminal" is used instead of the historical term "terminal device" in order to avoid a reference to an undefined term.

The thread-safe version places the terminal name in a user-supplied buffer and returns a non-zero value if it fails. The non-thread-safe version may return the name in a static data area that may be overwritten by each call.

FUTURE DIRECTIONS

None.

SEE ALSO

The Base Definitions volume of POSIX.1-2017, <unistd.h>

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