



## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'ptsname\_r.3' command***

### ***\$ man ptsname\_r.3***

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

#### NAME

ptsname, ptsname\_r - get the name of the slave pseudoterminal

#### SYNOPSIS

```
#include <stdlib.h>
```

```
char *ptsname(int fd);
```

```
int ptsname_r(int fd, char *buf, size_t buflen);
```

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

ptsname():

Since glibc 2.24:

```
_XOPEN_SOURCE >= 500 ||
```

```
(_XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED)
```

Glibc 2.23 and earlier:

```
_XOPEN_SOURCE
```

ptsname\_r():

```
_GNU_SOURCE
```

#### DESCRIPTION

The ptsname() function returns the name of the slave pseudoterminal de?

vice corresponding to the master referred to by the file descriptor fd.

The ptsname\_r() function is the reentrant equivalent of ptsname(). It

returns the name of the slave pseudoterminal device as a null-termi?

nated string in the buffer pointed to by buf. The buflen argument

specifies the number of bytes available in buf.

## RETURN VALUE

On success, `ptsname()` returns a pointer to a string in static storage which will be overwritten by subsequent calls. This pointer must not be freed. On failure, `NULL` is returned.

On success, `ptsname_r()` returns 0. On failure, an error number is returned to indicate the error.

## ERRORS

`EINVAL` (`ptsname_r()` only) `buf` is `NULL`. (This error is returned only for glibc 2.25 and earlier.)

`ENOTTY` `fd` does not refer to a pseudoterminal master device.

`ERANGE` (`ptsname_r()` only) `buf` is too small.

## VERSIONS

`ptsname()` is provided in glibc since version 2.1.

## 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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?ptsname() ? Thread safety ? MT-Unsafe race:ptsname ?

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?ptsname\_r() ? Thread safety ? MT-Safe ?

??

## CONFORMING TO

`ptsname()`:

POSIX.1-2001, POSIX.1-2008.

`ptsname()` is part of the UNIX 98 pseudoterminal support (see `pts(4)`).

`ptsname_r()` is a Linux extension, that is proposed for inclusion in the next major revision of POSIX.1 (Issue 8). A version of this function

is documented on Tru64 and HP-UX, but on those implementations, `-1` is returned on error, with `errno` set to indicate the error. Avoid using this function in portable programs.

## SEE ALSO

grantpt(3), posix\_openpt(3), ttyname(3), unlockpt(3), pts(4), pty(7)

## 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/>.

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