



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

C:\>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 device corresponding to the master referred to by fd.

The ptsname_r() function is the reentrant equivalent of ptsname(). It returns the name of the slave pseudoterminal device as a null-terminated 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, a nonzero value is returned and errno is set 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 ?

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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 5.05 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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