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).

Interface	Attribute	Value
ptsname()	Thread safety	MT-Unsafe race:ptsname
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

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