NAME

ttyname, **ttyname_r**, **isatty** - get name of associated terminal (tty) from file descriptor

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <unistd.h>

char *
ttyname(*int fd*);

int
ttyname_r(*int fd*, *char *buf*, *size_t len*);

int
isatty(*int fd*);

DESCRIPTION

These functions operate on file descriptors for terminal type devices.

The **isatty**() function determines if the file descriptor *fd* refers to a valid terminal type device.

The **ttyname**() function gets the related device name of a file descriptor for which **isatty**() is true.

The **ttyname**() function returns the name stored in a static buffer which will be overwritten on subsequent calls. The **ttyname_r**() function takes a buffer and length as arguments to avoid this problem.

RETURN VALUES

The **isatty**() function returns 1 if *fd* refers to a terminal type device; otherwise, it returns 0 and may set *errno* to indicate the error. The **ttyname**() function returns the null terminated name if the device is found and **isatty**() is true; otherwise a NULL pointer is returned. The **ttyname_r**() function returns 0 if successful. Otherwise an error number is returned.

ERRORS

These functions may fail if:

[EBADF]   The *fd* argument is not a valid file descriptor.

[ENOTTY]   The file associated with *fd* is not a terminal.

Additionally, **ttyname_r**() may fail if:

[ERANGE]   The *bufsize* argument is smaller than the length of the string to be returned.

SEE ALSO

fdevname(3), ptsname(3), tcgetattr(3), tty(4)

HISTORY

The **isatty**() and **ttyname**() functions appeared in Version 7 AT&T UNIX. The **ttyname_r**() function appeared in FreeBSD 6.0.