

**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, **ttynam\_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 **ttynam()** functions appeared in Version 7 AT&T UNIX. The **ttynam\_r()** function appeared in FreeBSD 6.0.