

**NAME**

`ttyname`, `ttyname_r` - return name of a terminal

**SYNOPSIS**

```
#include <unistd.h>
```

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

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

**DESCRIPTION**

The function `ttyname()` returns a pointer to the null-terminated pathname of the terminal device that is open on the file descriptor `fd`, or NULL on error (for example, if `fd` is not connected to a terminal). The return value may point to static data, possibly overwritten by the next call. The function `ttyname_r()` stores this pathname in the buffer `buf` of length `buflen`.

**RETURN VALUE**

The function `ttyname()` returns a pointer to a pathname on success. On error, NULL is returned, and `errno` is set appropriately. The function `ttyname_r()` returns 0 on success, and an error number upon error.

**ERRORS****EBADF**

Bad file descriptor.

**ENOTTY**

File descriptor does not refer to a terminal device.

**ERANGE**

`ttyname_r()` `buflen` was too small to allow storing the pathname.

**ATTRIBUTES**

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
<code>ttyname()</code>	Thread safety	MT-Unsafe race:ttyname
<code>ttyname_r()</code>	Thread safety	MT-Safe

**CONFORMING TO**

POSIX.1-2001, POSIX.1-2008, 4.2BSD.

**SEE ALSO**

[tty\(1\)](#), [fstat\(2\)](#), [ctermid\(3\)](#), [isatty\(3\)](#)

**COLOPHON**

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