



## ***Rocky Enterprise Linux 9.2 Manual Pages on command 'fwide.3'***

**C:\>man fwide.3**

FWIDE(3)                      Linux Programmer's Manual                      FWIDE(3)

### NAME

fwide - set and determine the orientation of a FILE stream

### SYNOPSIS

```
#include <wchar.h>
```

```
int fwide(FILE *stream, int mode);
```

Feature Test Macro Requirements for glibc (see `feature_test_macros(7)`):

fwide():

```
_XOPEN_SOURCE >= 500 || _ISOC99_SOURCE ||
```

```
_POSIX_C_SOURCE >= 200112L
```

### DESCRIPTION

When `mode` is zero, the `fwide()` function determines the current orientation of stream. It returns a positive value if stream is wide-character oriented, that is, if wide-character I/O is permitted but char I/O is disallowed. It returns a negative value if stream is byte oriented; that is, if char I/O is permitted but wide-character I/O is disallowed. It returns zero if stream has no orientation yet; in this case the next I/O operation might change the orientation (to byte oriented if it is a char I/O operation, or to wide-character oriented if it is a wide-character I/O operation).

Once a stream has an orientation, it cannot be changed and persists until the stream is closed.

When `mode` is nonzero, the `fwide()` function first attempts to set stream's orienta?

tion (to wide-character oriented if mode is greater than 0, or to byte oriented if mode is less than 0). It then returns a value denoting the current orientation, as above.

## RETURN VALUE

The `fwide()` function returns the stream's orientation, after possibly changing it.

A positive return value means wide-character oriented. A negative return value means byte oriented. A return value of zero means undecided.

## CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C99.

## NOTES

Wide-character output to a byte oriented stream can be performed through the `fprintf(3)` function with the `%lc` and `%ls` directives.

Char oriented output to a wide-character oriented stream can be performed through the `fwprintf(3)` function with the `%c` and `%s` directives.

## SEE ALSO

`fprintf(3)`, `fwprintf(3)`

## 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/>.