



Linux Ubuntu 26.04 Manual Pages on command 'fwide.3'

\$ man fwide.3

fwide(3) Library Functions Manual fwide(3)

NAME

fwide - set and determine the orientation of a FILE stream

LIBRARY

Standard C library (libc, -lc)

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 orientation (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.

STANDARDS

C11, POSIX.1-2008.

HISTORY

POSIX.1-2001, 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)`

Linux man-pages 6.17

2026-02-08

`fwide(3)`