## NAME

fputwc, putwc - write a wide character to a FILE stream

## SYNOPSIS

**#include <stdio.h>**
**#include <wchar.h>**

**wint_t fputwc(wchar_t** *wc*, **FILE ***stream**);**
**wint_t putwc(wchar_t** *wc*, **FILE ***stream**);**

## DESCRIPTION

The **fputwc**() function is the wide-character equivalent of the fputc(3) function. It writes the wide character *wc* to *stream*. If*ferr or(stream)* becomes true, it returns **WEOF**. If a wide-character conversion error occurs, it sets *errno* to **EILSEQ** and returns **WEOF**. Otherwise, it returns *wc*.

The **putwc**() function or macro functions identically to **fputwc**(). It may be implemented as a macro, and may evaluate its argument more than once. There is no reason ever to use it.

For nonlocking counterparts, see unlocked_stdio(3).

## RETURN VALUE

The **fputwc**() function returns *wc* if no error occurred, or **WEOF** to indicate an error. In the event of an error, *errno* is set to indicate the cause.

## ERRORS

Apart from the usual ones, there is

**EILSEQ**
Conversion of *wc* to the stream's encoding fails.

## CONFORMING TO

C99, POSIX.1-2001.

## NOTES

The behavior of **fputwc**() depends on the **LC_CTYPE** category of the current locale.

In the absence of additional information passed to the fopen(3) call, it is reasonable to expect that **fputwc**() will actually write the multibyte sequence corresponding to the wide character *wc*.

## SEE ALSO

fgetwc(3), fputws(3), unlocked_stdio(3)

## COLOPHON

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