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

**\$ man getwc.3**

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

NAME

fgetwc, getwc - read a wide character from a FILE stream

SYNOPSIS

```
#include <stdio.h>
#include <wchar.h>
wint_t fgetwc(FILE *stream);
wint_t getwc(FILE *stream);
```

DESCRIPTION

The `fgetwc()` function is the wide-character equivalent of the `fgetc(3)` function. It reads a wide character from stream and returns it. If the end of stream is reached, or if `ferror(stream)` becomes true, it returns `WEOF`. If a wide-character conversion error occurs, it sets `errno` to `EILSEQ` and returns `WEOF`.

The `getwc()` function or macro functions identically to `fgetwc()`. 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 `fgetwc()` function returns the next wide-character from the stream, or WEOF. In the event of an error, `errno` is set to indicate the cause.

## ERRORS

Apart from the usual ones, there is

**EILSEQ** The data obtained from the input stream does not form a valid character.

## ATTRIBUTES

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

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?Interface ? Attribute ? Value ?

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?fgetwc(), getwc() ? Thread safety ? MT-Safe ?

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## CONFORMING TO

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

## NOTES

The behavior of `fgetwc()` 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 `fgetwc()` will actually read a multibyte sequence from the stream and then convert it to a wide character.

## SEE ALSO

`fgetws(3)`, `fputwc(3)`, `ungetwc(3)`, `unlocked_stdio(3)`

## COLOPHON

This page is part of release 5.10 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/>.