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

**\$ man towupper.3**

TOWUPPER(3)

Linux Programmer's Manual

TOWUPPER(3)

## NAME

towupper, towupper\_l - convert a wide character to uppercase

## SYNOPSIS

```
#include <wctype.h>

wint_t towupper(wint_t wc);

wint_t towupper_l(wint_t wc, locale_t locale);
```

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

towupper\_l():

Since glibc 2.10:

`_XOPEN_SOURCE >= 700`

Before glibc 2.10:

`_GNU_SOURCE`

## DESCRIPTION

The `towupper()` function is the wide-character equivalent of the `toupper(3)` function. If `wc` is a lowercase wide character, and there exists an uppercase equivalent in the current locale, it returns the uppercase equivalent of `wc`. In all other cases, `wc` is returned un? changed.

The `towupper_l()` function performs the same task, but performs the conversion based on the character type information in the locale specified by `locale`. The behavior of `towup? per_l()` is undefined if `locale` is the special locale object `LC_GLOBAL_LOCALE` (see `duplo? cale(3)`) or is not a valid locale object handle.

The `wc` argument must be representable as a `wchar_t` and be a valid character in the locale or be the value `WEOF`.

## RETURN VALUE

If `wc` was convertible to uppercase, `towupper()` returns its uppercase equivalent; otherwise it returns `wc`.

## VERSIONS

The `towupper_l()` function first appeared in glibc 2.3.

## 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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?`towupper()` ? Thread safety ? MT-Safe locale ?

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?`towupper_l()` ? Thread safety ? MT-Safe ?

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## CONFORMING TO

`towupper()`: C99, POSIX.1-2001 (XSI); present as an XSI extension in POSIX.1-2008, but marked obsolete.

`towupper_l()`: POSIX.1-2008.

## NOTES

The behavior of these functions depends on the `LC_CTYPE` category of the locale.

These functions are not very appropriate for dealing with Unicode characters, because Unicode knows about three cases: upper, lower and title case.

## SEE ALSO

`iswupper(3)`, `towctrans(3)`, `towlower(3)`, `locale(7)`

## 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/>.