



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

\$ man toupper.3

toupper(3) Library Functions Manual toupper(3)

NAME

toupper, toupper_l - convert a wide character to uppercase

LIBRARY

Standard C library (libc, -lc)

SYNOPSIS

```
#include <wctype.h>

wint_t toupper(wint_t wc);

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

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

toupper_l():

Since glibc 2.10:

 _XOPEN_SOURCE >= 700

Before glibc 2.10:

 _GNU_SOURCE

DESCRIPTION

The `toupper()` 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 unchanged.

The `toupper_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 `toupper_l()` is undefined if `locale` is the special locale object `LC_GLOBAL_LOCALE` (see `duplocale(3)`) or

is not a valid locale object handle.

The argument `wc` 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, `toupper()` returns its uppercase equivalent; otherwise it returns `wc`.

ATTRIBUTES

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

[illegible]

?	Interface	?	Attribute	?	Value	?
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[illegible]

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

[illegible]

? towupper_l()	? Thread safety	? MT-Safe	?
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[illegible]

STANDARDS

towupper()

C11, POSIX.1-2008 (XSI).

towupper_l()

POSIX.1-2008.

HISTORY

towupper()

C99, POSIX.1-2001 (XSI). Obsolete in POSIX.1-2008 (XSI).

towupper_l()

POSIX.1-2008. glibc 2.3.

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), tolower(3), locale(7)
```