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 unchanged.

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 **towupper_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, **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).

Interface	Attribute	Value
towupper()	Thread safety	MT-Safe locale
towupper_l()	Thread safety	MT-Safe

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

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