NAME

towupper, towupper_1 - 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

```
is wupper (3), towctrans (3), towlower (3), locale (7) \\
```

COLOPHON

This page is part of release 5.02 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/.