NAME

  towlower, towlower_l - convert a wide character to lowercase

SYNOPSIS

  #include <wctype.h>

  wint_t towlower(wint_t *wc***);**

  wint_t towlower_l(wint_t *wc***, locale_t** *locale***);**

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

  towlower_l():
    Since glibc 2.10:
       _XOPEN_SOURCE >= 700
    Before glibc 2.10:
       _GNU_SOURCE

DESCRIPTION

  The **towlower**() function is the wide-character equivalent of the tolower(3) function. If *wc* is an uppercase wide character, and there exists a lowercase equivalent in the current locale, it returns the lowercase equivalent of *wc*. In all other cases, *wc* is returned unchanged.

  The **towlower_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 **towlower_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 lowercase, **towlower**() returns its lowercase equivalent; otherwise it returns *wc*.

VERSIONS

  The **towlower_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
towlower()	Thread safety	MT-Safe locale
towlower_l()	Thread safety	MT-Safe

CONFORMING TO

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

  towlower_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

  iswlower(3), towctrans(3), towupper(3), locale(7)

COLOPHON

  This page is part of release 4.10 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/.