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

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