NAME

towlower, towlower 1 – 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 5.05 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/.