NAME

towlower, towlower_1 - convert a wide character to lowercase

LIBRARY

```
Standard C library (libc, -lc)
```

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 alike 2.10;
```

```
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

STANDARDS

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

```
towlower I(): 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)
```