



Rocky Enterprise Linux 9.2 Manual Pages on command 'towlower.3'

C:\>man towlower.3

TOWLOWER(3) Linux Programmer's Manual TOWLOWER(3)

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\(7\)](#).

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?Interface ? Attribute ? Value ?

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?`towlower()` ? Thread safety ? MT-Safe locale ?

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?`towlower_l()` ? Thread safety ? MT-Safe ?

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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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