



Red Hat Enterprise Linux Release 9.2 Manual Pages on 'towupper.3' command

\$ man towupper.3

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

NAME

towupper, towupper_l - convert a wide character to uppercase

SYNOPSIS

```
#include <wctype.h>
```

```
wint_t towupper(wint_t wc);
```

```
wint_t towupper_l(wint_t wc, locale_t locale);
```

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

`towupper_l()`:

Since glibc 2.10:

```
  _XOPEN_SOURCE >= 700
```

Before glibc 2.10:

```
  _GNU_SOURCE
```

DESCRIPTION

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

The `towupper_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 `towupper_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 uppercase, `towupper()` returns its uppercase equivalent; otherwise it returns `wc`.

VERSIONS

The `towupper_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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?`towupper()` ? Thread safety ? MT-Safe locale ?

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

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CONFORMING TO

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

`towupper_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

[iswupper\(3\)](#), [towctrans\(3\)](#), [towlower\(3\)](#), [locale\(7\)](#)

COLOPHON

This page is part of release 5.10 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/>.

GNU

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