



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

\$ man towctrans.3p

TOWCTRANS(3P) POSIX Programmer's Manual TOWCTRANS(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

towctrans, towctrans_l ? wide-character transliteration

SYNOPSIS

```
#include <wctype.h>

wint_t towctrans(wint_t wc, wctrans_t desc);

wint_t towctrans_l(wint_t wc, wctrans_t desc,
                  locale_t locale);
```

DESCRIPTION

For towctrans(): The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The towctrans() and towctrans_l() functions shall transliterate the wide-character code wc using the mapping described by desc.

The current setting of the LC_CTYPE category in the current locale or in the locale represented by locale, respectively, should be the same as during the call to wctrans() or wctrans_l() that returned the value

desc.

If the value of desc is invalid (that is, not obtained by a call to wc?trans() or desc is invalidated by a subsequent call to setlocale() that has affected category LC_CTYPE), the result is unspecified.

If the value of desc is invalid (that is, not obtained by a call to wc?trans_l() with the same locale object locale) the result is unspecified.

An application wishing to check for error situations should set errno to 0 before calling towctrans() or towctrans_l().

If errno is non-zero on return, an error has occurred.

The behavior is undefined if the locale argument to towctrans_l() is the special locale object LC_GLOBAL_LOCALE or is not a valid locale object handle.

RETURN VALUE

If successful, the towctrans() and towctrans_l() functions shall return the mapped value of wc using the mapping described by desc. Otherwise, they shall return wc unchanged.

ERRORS

These functions may fail if:

EINVAL desc contains an invalid transliteration descriptor.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

The strings "tolower" and "toupper" are reserved for the standard mapping names. In the table below, the functions in the left column are equivalent to the functions in the right column.

towlower(wc)	towctrans(wc, wctrans("tolower"))
towlower_l(wc, locale)	towctrans_l(wc, wctrans("tolower"), locale)
toupper(wc)	towctrans(wc, wctrans("toupper"))
toupper_l(wc, locale)	towctrans_l(wc, wctrans("toupper"), locale)

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`towlower()`, `toupper()`, `wctrans()`

The Base Definitions volume of POSIX.1?2017, `<wctype.h>`

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