



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

\$ man wctrans.3p

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

wctrans, wctrans_l ? define character mapping

SYNOPSIS

```
#include <wctype.h>

wctrans_t wctrans(const char *charclass);

wctrans_t wctrans_l(const char *charclass, locale_t locale);
```

DESCRIPTION

For wctrans(): 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 wctrans() and wctrans_l() functions are defined for valid character mapping names identified in the current locale. The charclass is a string identifying a generic character mapping name for which codeset-specific information is required. The following character mapping names are defined in all locales: tolower and toupper.

These functions shall return a value of type wctrans_t, which can be

used as the second argument to subsequent calls of `towctrans()` and `towctrans_l()`.

The `wctrans()` and `wctrans_l()` functions shall determine values of `wc?trans_t` according to the rules of the coded character set defined by character mapping information in the current locale or in the locale represented by `locale`, respectively (category `LC_CTYPE`).

The values returned by `wctrans()` shall be valid until a call to `setlo?cale()` that modifies the category `LC_CTYPE`.

The values returned by `wctrans_l()` shall be valid only in calls to `towctrans_l()` with a locale represented by `locale` with the same `LC_CTYPE` category value.

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

RETURN VALUE

The `wctrans()` and `wctrans_l()` functions shall return 0 and may set `er?rno` to indicate the error if the given character mapping name is not valid for the current locale (category `LC_CTYPE`); otherwise, they shall return a non-zero object of type `wctrans_t` that can be used in calls to `towctrans()` and `towctrans_l()`.

ERRORS

These functions may fail if:

EINVAL The character mapping name pointed to by `charclass` is not valid in the current locale.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

towctrans()

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

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