

NAME

towctrans, **wctrans** - wide character mapping functions

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

wint_t

```
towctrans(wint_t wc, wctrans_t desc);
```

wctrans_t

```
wctrans(const char *charclass);
```

DESCRIPTION

The **wctrans()** function returns a value of type *wctrans_t* which represents the requested wide character mapping operation and may be used as the second argument for calls to **towctrans()**.

The following character mapping names are recognised:

tolower toupper

The **towctrans()** function transliterates the wide character *wc* according to the mapping described by *desc*.

RETURN VALUES

The **towctrans()** function returns the transliterated character if successful, otherwise it returns the character unchanged and sets *errno*.

The **wctrans()** function returns non-zero if successful, otherwise it returns zero and sets *errno*.

EXAMPLES

Reimplement **towupper()** in terms of **towctrans()** and **wctrans()**:

```
wint_t
mytowupper(wint_t wc)
{
    return (towctrans(wc, wctrans("toupper")));
}
```

ERRORS

The **towctrans()** function will fail if:

[EINVAL] The supplied *desc* argument is invalid.

The **wctrans()** function will fail if:

[EINVAL] The requested mapping name is invalid.

SEE ALSO

tolower(3), toupper(3), wctype(3)

STANDARDS

The **towctrans()** and **wctrans()** functions conform to IEEE Std 1003.1-2001 ("POSIX.1").

HISTORY

The **towctrans()** and **wctrans()** functions first appeared in FreeBSD 5.0.