

NAME

btowc, **wctob** - convert between wide and single-byte characters

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

#include <wchar.h>

wint_t

btowc(*int c*);

int

wctob(*wint_t c*);

#include <wchar.h>

#include <xlocale.h>

wint_t

btowc_l(*int c, locale_t loc*);

int

wctob_l(*wint_t c, locale_t loc*);

DESCRIPTION

The **btowc**() function converts a single-byte character into a corresponding wide character. If the character is EOF or not valid in the initial shift state, **btowc**() returns WEOF.

The **wctob**() function converts a wide character into a corresponding single-byte character. If the wide character is WEOF or not able to be represented as a single byte in the initial shift state, **wctob**() returns EOF.

The **_l**-suffixed versions take an explicit locale argument, while the non-suffixed versions use the current global or per-thread locale.

SEE ALSO

mbrtowc(3), **multibyte**(3), **wcrtomb**(3)

STANDARDS

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

HISTORY

The **btowc()** and **wctob()** functions first appeared in FreeBSD 5.0.