

Full credit is given to the above companies including the OS that this PDF file was generated!

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

\$ man mbtowc.3

MBTOWC(3)

Linux Programmer's Manual

MBTOWC(3)

NAME

mbtowc - convert a multibyte sequence to a wide character

SYNOPSIS

#include <stdlib.h>

int mbtowc(wchar_t *pwc, const char *s, size_t n);

DESCRIPTION

The main case for this function is when s is not NULL and pwc is not NULL. In this case, the mbtowc() function inspects at most n bytes of the multibyte string starting at s, extracts the next complete multi? byte character, converts it to a wide character and stores it at *pwc. It updates an internal shift state known only to the mbtowc() function. If s does not point to a null byte ('\0'), it returns the number of bytes that were consumed from s, otherwise it returns 0.

If the n bytes starting at s do not contain a complete multibyte char? acter, or if they contain an invalid multibyte sequence, mbtowc() re? turns -1. This can happen even if n >= MB_CUR_MAX, if the multibyte string contains redundant shift sequences.

A different case is when s is not NULL but pwc is NULL. In this case, the mbtowc() function behaves as above, except that it does not store the converted wide character in memory.

A third case is when s is NULL. In this case, pwc and n are ignored.

The mbtowc() function resets the shift state, only known to this func?

tion, to the initial state, and returns nonzero if the encoding has nontrivial shift state, or zero if the encoding is stateless.

RETURN VALUE

If s is not NULL, the mbtowc() function returns the number of consumed bytes starting at s, or 0 if s points to a null byte, or -1 upon fail? ure.

If s is NULL, the mbtowc() function returns nonzero if the encoding has nontrivial shift state, or zero if the encoding is stateless.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

?Interface ? Attribute ? Value ?

?mbtowc() ? Thread safety ? MT-Unsafe race ?

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C99.

NOTES

The behavior of mbtowc() depends on the LC_CTYPE category of the cur? rent locale.

This function is not multithread safe. The function mbrtowc(3) pro? vides a better interface to the same functionality.

SEE ALSO

MB_CUR_MAX(3), mblen(3), mbrtowc(3), mbstowcs(3), wcstombs(3), wc? tomb(3)

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 2019-03-06 MBTOWC(3)