Rocky Enterprise Linux 9.2 Manual Pages on command 'mbtowc.3'

C:\>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 start? ing at s, extracts the next complete multibyte 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 character, or if they contain an invalid multibyte sequence, mbtowc() returns -1. This can happen even if n >= MB_CUR_MAX, if the multibyte string contains redundant shift se? quences.

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 charac? ter 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 function, to the initial state,

and returns nonzero if the encoding has nontrivial shift state, or zero if the en?

coding is stateless.

RETURN VALUE

If s is not NULL, the mbtowc() function returns the number of consumed bytes start?

ing at s, or 0 if s points to a null byte, or -1 upon failure.

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 attributes(7).

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?Interface ? Attribute ? Value ?

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

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CONFORMING TO

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

NOTES

The behavior of mbtowc() depends on the LC_CTYPE category of the current locale.

This function is not multithread safe. The function mbrtowc(3) provides a better

interface to the same functionality.

SEE ALSO

MB_CUR_MAX(3), mblen(3), mbrtowc(3), mbstowcs(3), wcstombs(3), wctomb(3)

COLOPHON

This page is part of release 5.05 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/.