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

C:\>man wcrtomb.3

WCRTOMB(3) Linux Programmer's Manual WCRTOMB(3)

NAME

wcrtomb - convert a wide character to a multibyte sequence

SYNOPSIS

#include <wchar.h>

size_t wcrtomb(char *s, wchar_t wc, mbstate_t *ps);

DESCRIPTION

The main case for this function is when s is not NULL and wc is not a null wide character (L'\0'). In this case, the wcrtomb() function converts the wide charac? ter wc to its multibyte representation and stores it at the beginning of the char? acter array pointed to by s. It updates the shift state *ps, and returns the length of said multibyte representation, that is, the number of bytes written at s.

A different case is when s is not NULL, but wc is a null wide character (L'\0'). In this case, the wcrtomb() function stores at the character array pointed to by s the shift sequence needed to bring *ps back to the initial state, followed by a '\0' byte. It updates the shift state *ps (i.e., brings it into the initial state), and returns the length of the shift sequence plus one, that is, the number of bytes written at s.

A third case is when s is NULL. In this case, wc is ignored, and the function ef? fectively returns

wcrtomb(buf, L'\0', ps)

where buf is an internal anonymous buffer.

In all of the above cases, if ps is NULL, a static anonymous state known only to the wcrtomb() function is used instead.

RETURN VALUE

The wcrtomb() function returns the number of bytes that have been or would have been written to the byte array at s. If wc can not be represented as a multibyte sequence (according to the current locale), (size_t) -1 is returned, and errno set to EILSEQ.

ATTRIBUTES

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

Interface	Attribute	Value
wcrtomb()	Thread safety	MT-Unsafe race:wcrtomb/!ps

CONFORMING TO

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

NOTES

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

Passing NULL as ps is not multithread safe.

SEE ALSO

mbsinit(3), wcsrtombs(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/.