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

C:\>man wcstombs.3

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

NAME

wcstombs - convert a wide-character string to a multibyte string

SYNOPSIS

#include <stdlib.h>

size_t wcstombs(char *dest, const wchar_t *src, size_t n);

DESCRIPTION

If dest is not NULL, the wcstombs() function converts the wide-character string src to a multibyte string starting at dest. At most n bytes are written to dest. The sequence of characters placed in dest begins in the initial shift state. The con? version can stop for three reasons:

1. A wide character has been encountered that can not be represented as a multibyte sequence (according to the current locale). In this case, (size_t) -1 is re? turned.
2. The length limit forces a stop. In this case, the number of bytes written to dest is returned, but the shift state at this point is lost.
3. The wide-character string has been completely converted, including the terminat? ing null wide character (L'\0'). In this case, the conversion ends in the ini? tial shift state. The number of bytes written to dest, excluding the terminat? ing null byte ('\0'), is returned.

The programmer must ensure that there is room for at least n bytes at dest.

If dest is NULL, n is ignored, and the conversion proceeds as above, except that

the converted bytes are not written out to memory, and no length limit exists.

In order to avoid the case 2 above, the programmer should make sure n is greater than or equal to wcstombs(NULL,src,0)+1.

RETURN VALUE

The wcstombs() function returns the number of bytes that make up the converted part of a multibyte sequence, not including the terminating null byte. If a wide char? acter was encountered which could not be converted, (size_t) -1 is returned.

ATTRIBUTES

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

Interface	Attribute	Value
wcstombs()	Thread safety	MT-Safe

CONFORMING TO

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

NOTES

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

The function wcsrtombs(3) provides a better interface to the same functionality.

SEE ALSO

mblen(3), mbstowcs(3), mbtowc(3), wcsrtombs(3) wctomb(3)

COLOPHON

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