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

\$ man wcsrtombs.3

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

NAME

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

SYNOPSIS

```
#include <wchar.h>

size_t wcsrtombs(char *dest, const wchar_t **src,
                 size_t len, mbstate_t *ps);
```

DESCRIPTION

If `dest` is not `NULL`, the `wcsrtombs()` function converts the wide-character string `*src` to a multibyte string starting at `dest`. At most `len` bytes are written to `dest`. The shift state `*ps` is updated. The conversion is effectively performed by repeatedly calling `wcr? tomb(dest, *src, ps)`, as long as this call succeeds, and then incrementing `dest` by the number of bytes written and `*src` by one. The conversion 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, `*src` is left pointing to the invalid wide character, `(size_t) -1` is returned, and `errno` is set to `EILSEQ`.
2. The length limit forces a stop. In this case, `*src` is left pointing to the next wide character to be converted, and the number of bytes written to `dest` is returned.
3. The wide-character string has been completely converted, including the terminating null wide character (`L'\0'`), which has the side effect of bringing back `*ps` to the initial state. In this case, `*src` is set to `NULL`, and the number of bytes written to `dest`, excluding the terminating null byte (`'\0'`), is returned.

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

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

In both of the above cases, if `ps` is `NULL`, a static anonymous state known only to the `wc?`
`srtombs()` function is used instead.

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

RETURN VALUE

The `wcsrtombs()` function returns the number of bytes that make up the converted part of
multibyte sequence, not including the terminating null byte. If a wide character was `en?`
countered which could not be converted, `(size_t) -1` is returned, and `errno` set to `EILSEQ`.

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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?`wcsrtombs()` ? Thread safety ? MT-Unsafe race:`wcsrtombs`!/ps ?

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CONFORMING TO

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

NOTES

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

Passing `NULL` as `ps` is not multithread safe.

SEE ALSO

`iconv(3)`, `mbsinit(3)`, `wcrtomb(3)`, `wcsnrtombs(3)`, `wcstombs(3)`

COLOPHON

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project, information about reporting bugs, and the latest version of this page, can be
found at <https://www.kernel.org/doc/man-pages/>.

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