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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'wcstombs.3p' command***

***\$ man wcstombs.3p***

WCSTOMBS(3P)          POSIX Programmer's Manual          WCSTOMBS(3P)

### PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

### NAME

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

### SYNOPSIS

```
#include <stdlib.h>

size_t wcstombs(char *restrict s, const wchar_t *restrict pwcs,
                size_t n);
```

### DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The `wcstombs()` function shall convert the sequence of wide-character codes that are in the array pointed to by `pwcs` into a sequence of characters that begins in the initial shift state and store these characters into the array pointed to by `s`, stopping if a character would exceed the limit of `n` total bytes or if a null byte is stored. Each wide-character code shall be converted as if by a call to `wctomb()`, except

that the shift state of `wctomb()` shall not be affected.

The behavior of this function shall be affected by the `LC_CTYPE` category of the current locale.

No more than `n` bytes shall be modified in the array pointed to by `s`.

If copying takes place between objects that overlap, the behavior is undefined. If `s` is a null pointer, `wcstombs()` shall return the length required to convert the entire array regardless of the value of `n`, but no values are stored.

## RETURN VALUE

If a wide-character code is encountered that does not correspond to a valid character (of one or more bytes each), `wcstombs()` shall return `(size_t)-1`. Otherwise, `wcstombs()` shall return the number of bytes stored in the character array, not including any terminating null byte.

The array shall not be null-terminated if the value returned is `n`.

## ERRORS

The `wcstombs()` function shall fail if:

**EILSEQ** A wide-character code does not correspond to a valid character.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

`mblen()`, `mbtowc()`, `mbstowcs()`, `wctomb()`

The Base Definitions volume of POSIX.1-2017, `<stdlib.h>`

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2017

WCSTOMBS(3P)