



*Full credit is given to the above companies including the OS that this PDF file was generated!*

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

**\$ man wrtomb.3p**

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

wrtomb ? convert a wide-character code to a character (restartable)

### SYNOPSIS

```
#include <wchar.h>

size_t wrtomb(char *restrict s, wchar_t wc, mbstate_t *restrict ps);
```

### 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.

If `s` is a null pointer, the `wrtomb()` function shall be equivalent to the call:

```
wrtomb(buf, L'\0', ps)
```

where `buf` is an internal buffer.

If `s` is not a null pointer, the `wrtomb()` function shall determine the number of bytes needed to represent the character that corresponds to the wide character given by `wc` (including any shift sequences), and

store the resulting bytes in the array whose first element is pointed to by `s`. At most `{MB_CUR_MAX}` bytes are stored. If `wc` is a null wide character, a null byte shall be stored, preceded by any shift sequence needed to restore the initial shift state. The resulting state described shall be the initial conversion state.

If `ps` is a null pointer, the `wcrtomb()` function shall use its own internal `mbstate_t` object, which is initialized at program start-up to the initial conversion state. Otherwise, the `mbstate_t` object pointed to by `ps` shall be used to completely describe the current conversion state of the associated character sequence. The implementation shall behave as if no function defined in this volume of POSIX.1-2017 calls `wcrtomb()`.

The `wcrtomb()` function need not be thread-safe if called with a NULL `ps` argument.

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

The `wcrtomb()` function shall not change the setting of `errno` if successful.

## RETURN VALUE

The `wcrtomb()` function shall return the number of bytes stored in the array object (including any shift sequences). When `wc` is not a valid wide character, an encoding error shall occur. In this case, the function shall store the value of the macro `[EILSEQ]` in `errno` and shall return `(size_t)-1`; the conversion state shall be undefined.

## ERRORS

The `wcrtomb()` function shall fail if:

**EILSEQ** An invalid wide-character code is detected.

The `wcrtomb()` function may fail if:

**EINVAL** `ps` points to an object that contains an invalid conversion state.

The following sections are informative.

## EXAMPLES

None.

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

`mbsinit()`, `wcsrtombs()`

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

## COPYRIGHT

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1-2017, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 7, 2018 Edition, Copyright (C) 2018 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html>.

Any typographical or formatting errors that appear in this page are most likely to have been introduced during the conversion of the source files to man page format. To report such errors, see [https://www.kernel.org/doc/man-pages/reporting\\_bugs.html](https://www.kernel.org/doc/man-pages/reporting_bugs.html).

IEEE/The Open Group

2017

WCRTOMB(3P)