## **NAME**

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

### **LIBRARY**

Standard C library (libc, -lc)

## **SYNOPSIS**

#include <stdlib.h>

# **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* be gins in the initial shift state. The conversion can stop for three reasons:

- 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 returned.
- 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.
- The wide-character string has been completely converted, including the terminating null wide character (L'\0'). In this case, the conversion ends in the initial shift state. The number of bytes written to *dest*, excluding the terminating 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 wc-stombs(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 character 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

## **STANDARDS**

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)