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 *wcrtomb(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 rea-
　　　　sons:

　　　　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 con-
　　　　　　verted, 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 **wcsrtombs**() func-
　　　　tion 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 encountered 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).

Interface	Attribute	Value
wcsrtombs()	Thread safety	MT-Unsafe race:wcsrtombs/!ps

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
　　　　This page is part of release 4.10 of the Linux *man-pages* project. A description of the project, information
　　　　about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-
　　　　pages/.