wcstoumax *Convert Wide String to Unsigned Greatest-Width Integer (C99)* `<inttypes.h>`

```
uintmax_t wcstoumax(const wchar_t * restrict nptr,
                    wchar_t ** restrict endptr,
                    int base);
```

Wide-character version of `strtoumax`. *27.2*

---

wcsxfrm *Transform Wide String (C99)* `<wchar.h>`

```
size_t wcsxfrm(wchar_t * restrict s1,
               const wchar_t * restrict s2, size_t n);
```

Wide-character version of `strxfrm`. *25.5*

---

wctob *Convert Wide Character to Byte (C99)* `<wchar.h>`

```
int wctob(wint_t c);
```

Returns Single-byte representation of `c` as an `unsigned char` converted to `int`. Returns EOF if `c` doesn't correspond to one multibyte character in the initial shift state. *25.5*

---

wctomb *Convert Wide Character to Multibyte Character* `<stdlib.h>`

```
int wctomb(char *s, wchar_t wc);
```

Converts the wide character stored in `wc` into a multibyte character. If `s` isn't a null pointer, stores the result in the array that `s` points to.

Returns If `s` is a null pointer, returns a nonzero or zero value, depending on whether or not multibyte characters have state-dependent encodings. Otherwise, returns the number of bytes in the multibyte character that corresponds to `wc`; returns –1 if `wc` doesn't correspond to a valid multibyte character. *25.2*

---

wctrans *Define Wide-Character Mapping (C99)* `<wctype.h>`

```
wctrans_t wctrans(const char *property);
```

Returns If `property` identifies a valid mapping of wide characters according to the `LC_CTYPE` category of the current locale, returns a nonzero value that can be used as the second argument to the `towctrans` function; otherwise, returns zero. *25.6*

---

wctype *Define Wide-Character Class (C99)* `<wctype.h>`

```
wctype_t wctype(const char *property);
```

Returns If `property` identifies a valid class of wide characters according to the `LC_CTYPE` category of the current locale, returns a nonzero value that can be used as the second argument to the `iswctype` function; otherwise, returns zero. *25.6*

---

wmemchr *Search Wide-Character Memory Block for Character (C99)* `<wchar.h>`

```
wchar_t *wmemchr(const wchar_t *s, wchar_t c,
                 size_t n);
```

Wide-character version of `memchr`. *25.5*