

**NAME**

**iswalnum\_l**, **iswalpha\_l**, **iswcntrl\_l**, **iswctype\_l**, **iswdigit\_l**, **iswgraph\_l**, **iswlower\_l**, **iswprint\_l**, **iswpunct\_l**, **iswspace\_l**, **iswupper\_l**, **iswxdigit\_l**, **towlower\_l**, **towupper\_l**, **wctype\_l**, **iswblank\_l**, **iswhexnumber\_l**, **iswideogram\_l**, **iswnumber\_l**, **iswphonogram\_l**, **iswrune\_l**, **iswspecial\_l**, **nextwctype\_l**, **towctrans\_l**, **wctrans\_l** - wide character classification utilities

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

```
#include <wctype.h>
```

*int*

```
iswalnum_l(wint_t wc, locale_t loc);
```

*int*

```
iswalpha_l(wint_t wc, locale_t loc);
```

*int*

```
iswcntrl_l(wint_t wc, locale_t loc);
```

*int*

```
iswctype_l(wint_t wc, locale_t loc);
```

*int*

```
iswdigit_l(wint_t wc, locale_t loc);
```

*int*

```
iswgraph_l(wint_t wc, locale_t loc);
```

*int*

```
iswlower_l(wint_t wc, locale_t loc);
```

*int*

```
iswprint_l(wint_t wc, locale_t loc);
```

*int*

```
iswpunct_l(wint_t wc, locale_t loc);
```

*int*

**iswspace\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswupper\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswxdigit\_l**(*wint\_t* wc, *locale\_t* loc);

*wint\_t*

**towlower\_l**(*wint\_t* wc, *locale\_t* loc);

*wint\_t*

**towupper\_l**(*wint\_t* wc, *locale\_t* loc);

*wctype\_t*

**wctype\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswblank\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswhexnumber\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswideogram\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswnumber\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswphonogram\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswrune\_l**(*wint\_t* wc, *locale\_t* loc);

*int*

**iswspecial\_l**(*wint\_t* wc, *locale\_t* loc);

*wint\_t*

**nextwctype\_l**(*wint\_t* wc, *locale\_t* loc);

*wint\_t*

**towctrans\_l**(*wint\_t wc, wctrans\_t, locale\_t loc*);

*wctrans\_t*

**wctrans\_l**(*const char \*, locale\_t loc*);

## DESCRIPTION

The above functions are character classification utility functions, for use with wide characters (*wchar\_t* or *wint\_t*) in the locale *loc*. They behave in the same way as the versions without the *\_l* suffix, but use the specified locale rather than the global or per-thread locale. These functions may be implemented as inline functions in *<wctype.h>* and as functions in the C library. See the specific manual pages for more information.

## RETURN VALUES

These functions return the same things as their non-locale versions. If the locale is invalid, their behaviors are undefined.

## SEE ALSO

*iswalnum*(3), *iswalpha*(3), *iswblank*(3), *iswcntrl*(3), *iswctype*(3), *iswdigit*(3), *iswgraph*(3), *iswhexnumber*(3), *iswideogram*(3), *iswlower*(3), *iswnumber*(3), *iswphonogram*(3), *iswprint*(3), *iswpunct*(3), *iswrune*(3), *iswspace*(3), *iswspecial*(3), *iswupper*(3), *iswxdigit*(3), *nextwctype*(3), *towctrans*(3), *towlower*(3), *towupper*(3), *wctrans*(3), *wctype*(3)

## STANDARDS

These functions conform to IEEE Std 1003.1-2008 ("POSIX.1"), except for **iswascii\_l**(), **iswhexnumber\_l**(), **iswideogram\_l**(), **iswphonogram\_l**(), **iswrune\_l**(), **iswspecial\_l**() and **nextwctype\_l**() which are FreeBSD extensions.