

NAME

iswalnum, **iswalpha**, **iswascii**, **iswblank**, **iswcntrl**, **iswdigit**, **iswgraph**, **iswhexnumber**, **iswideogram**, **iswlower**, **iswnumber**, **iswphonogram**, **iswpprint**, **iswpunct**, **iswrune**, **iswspace**, **iswspecial**, **iswupper**, **iswxdigit** - wide character classification utilities

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

int

```
iswalnum(wint_t wc);
```

int

```
iswalpha(wint_t wc);
```

int

```
iswascii(wint_t wc);
```

int

```
iswblank(wint_t wc);
```

int

```
iswcntrl(wint_t wc);
```

int

```
iswdigit(wint_t wc);
```

int

```
iswgraph(wint_t wc);
```

int

```
iswhexnumber(wint_t wc);
```

int

```
iswideogram(wint_t wc);
```

int

```
iswlower(wint_t wc);
```

```
int  
iswnumber(wint_t wc);  
  
int  
iswphonogram(wint_t wc);  
  
int  
iswprint(wint_t wc);  
  
int  
iswpunct(wint_t wc);  
  
int  
iswrune(wint_t wc);  
  
int  
iswspace(wint_t wc);  
  
int  
iswspecial(wint_t wc);  
  
int  
iswupper(wint_t wc);  
  
int  
iswxdigit(wint_t wc);
```

DESCRIPTION

The above functions are character classification utility functions, for use with wide characters (*wchar_t* or *wint_t*). See the description for the similarly-named single byte classification functions (like *isalnum(3)*), for details.

RETURN VALUES

The functions return zero if the character tests false and return non-zero if the character tests true.

SEE ALSO

isalnum(3), *isalpha(3)*, *isascii(3)*, *isblank(3)*, *iscntrl(3)*, *isdigit(3)*, *isgraph(3)*, *ishexnumber(3)*, *isideogram(3)*, *islower(3)*, *isnumber(3)*, *isphonogram(3)*, *isprint(3)*, *ispunct(3)*, *isrune(3)*, *isspace(3)*, *isspecial(3)*, *isupper(3)*, *isxdigit(3)*, *wctype(3)*

STANDARDS

These functions conform to IEEE Std 1003.1-2001 ("POSIX.1"), except **iswascii()**, **iswhexnumber()**, **iswideogram()**, **iswnumber()**, **iswphonogram()**, **iswrune()** and **iswspecial()**, which are FreeBSD extensions.

CAVEATS

The result of these functions is undefined unless the argument is WEOF or a valid *wchar_t* value for the current locale.