

NAME

iswalnum, **iswalph**, **iswascii**, **iswblank**, **iswcntrl**, **iswdigit**, **iswgraph**, **iswhexnumber**, **iswideogram**, **iswlower**, **iswnumber**, **iswphonogram**, **iswprint**, **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

```
iswalph(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.