

NAME

iswctype, **wctype** - wide character class functions

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

int

```
iswctype(wint_t wc, wctype_t charclass);
```

wctype_t

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

DESCRIPTION

The **wctype()** function returns a value of type *wctype_t* which represents the requested wide character class and may be used as the second argument for calls to **iswctype()**.

The following character class names are recognised:

alnum	cntrl	ideogram	print	space	xdigit
alpha	digit	lower	punct	special	
blank	graph	phonogram	rune	upper	

The **iswctype()** function checks whether the wide character *wc* is in the character class *charclass*.

RETURN VALUES

The **iswctype()** function returns non-zero if and only if *wc* has the property described by *charclass*, or *charclass* is zero.

The **wctype()** function returns 0 if *property* is invalid, otherwise it returns a value of type *wctype_t* that can be used in subsequent calls to **iswctype()**.

EXAMPLES

Reimplement `iswalpha(3)` in terms of **iswctype()** and **wctype()**:

```
int
myiswalpha(wint_t wc)
{
```

```
        return (iswctype(wc, wctype("alpha")));  
    }
```

SEE ALSO

ctype(3), nextwctype(3)

STANDARDS

The **iswctype()** and **wctype()** functions conform to IEEE Std 1003.1-2001 ("POSIX.1"). The "ideogram", "phonogram", "special", and "rune" character classes are extensions.

HISTORY

The **iswctype()** and **wctype()** functions first appeared in FreeBSD 5.0.