

**NAME**

wctype - wide-character classification

**SYNOPSIS**

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

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

**DESCRIPTION**

The *wctype\_t* type represents a property which a wide character may or may not have. In other words, it represents a class of wide characters. This type's nature is implementation-dependent, but the special value (*wctype\_t*) 0 denotes an invalid property. Nonzero *wctype\_t* values can be passed to the [iswctype\(3\)](#) function to actually test whether a given wide character has the property.

The **wctype()** function returns a property, given by its name. The set of valid names depends on the **LC\_CTYPE** category of the current locale, but the following names are valid in all locales.

"alnum" - realizes the [isalnum\(3\)](#)

classification function

"alpha" - realizes the [isalpha\(3\)](#)

classification function

"blank" - realizes the [isblank\(3\)](#)

classification function

"cntrl" - realizes the [iscntrl\(3\)](#)

classification function

"digit" - realizes the [isdigit\(3\)](#)

classification function

"graph" - realizes the [isgraph\(3\)](#)

classification function

"lower" - realizes the [islower\(3\)](#)

classification function

"print" - realizes the [isprint\(3\)](#)

classification function

"punct" - realizes the [ispunct\(3\)](#)

classification function

"space" - realizes the [isspace\(3\)](#)

classification function

"upper" - realizes the [isupper\(3\)](#)

classification function

"xdigit" - realizes the [isxdigit\(3\)](#)

classification function

**RETURN VALUE**

The **wctype()** function returns a property descriptor if the *name* is valid. Otherwise, it returns (*wctype\_t*) 0.

**ATTRIBUTES**

For an explanation of the terms used in this section, see [attributes\(7\)](#).

Interface	Attribute	Value
<b>wctype()</b>	Thread safety	MT-Safe locale

**CONFORMING TO**

POSIX.1-2001, POSIX.1-2008, C99.

**NOTES**

The behavior of **wctype()** depends on the **LC\_CTYPE** category of the current locale.

**SEE ALSO**

[iswctype\(3\)](#)

**COLOPHON**

This page is part of release 4.10 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at <https://www.kernel.org/doc/man-pages/>.