

**NAME**

**ispunct**, **ispunct\_l** - punctuation character test

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

```
#include <ctype.h>
```

```
int
```

```
ispunct(int c);
```

```
int
```

```
ispunct_l(int c, locale_t loc);
```

**DESCRIPTION**

The **ispunct()** and **ispunct\_l()** functions test for any printing character except for space (‘ ’) or a character for which **isalnum(3)** or **isalnum\_l(3)** is true. The value of the argument must be representable as an *unsigned char* or the value of EOF.

In the ASCII character set, this includes the following characters (with their numeric values shown in octal):

041 “!”	042 “””	043 “#”	044 “\$”	045 “%”
046 “&”	047 “””	050 “(”	051 “)”	052 “*”
053 “+”	054 “,”	055 “-”	056 “.”	057 “/”
072 “:”	073 “;”	074 “<”	075 “=”	076 “>”
077 “?”	100 “@”	133 “[”	134 “\”	135 “]”
136 “^”	137 “_”	140 “””	173 “{”	174 “ ”
175 “}”	176 “~”			

The **ispunct\_l()** function takes an explicit locale argument, whereas the **ispunct()** function uses the current global or per-thread locale.

**RETURN VALUES**

The **ispunct()** and **ispunct\_l()** functions return zero if the character tests false and return non-zero if the character tests true.

**COMPATIBILITY**

The 4.4BSD extension of accepting arguments outside of the range of the *unsigned char* type in locales

with large character sets is considered obsolete and may not be supported in future releases. The **iswpunct()** or **iswpunct\_l()** function should be used instead.

**SEE ALSO**

ctype(3), ctype\_l(3), iswpunct(3), iswpunct\_l(3), xlocale(3), ascii(7)

**STANDARDS**

The **ispunct()** function conforms to ISO/IEC 9899:1990 ("ISO C90"). The **ispunct\_l()** function conforms to IEEE Std 1003.1-2008 ("POSIX.1").

**HISTORY**

The **ispunct()** function first appeared in Version 7 AT&T UNIX.