

**NAME**

**isctrl**, **isctrl\_l** - control character test

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

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

*int*

```
isctrl(int c);
```

*int*

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

**DESCRIPTION**

The **isctrl()** and **isctrl\_l()** functions test for any control character. 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):

000 NUL	001 SOH	002 STX	003 ETX	004 EOT
005 ENQ	006 ACK	007 BEL	010 BS	011 HT
012 NL	013 VT	014 NP	015 CR	016 SO
017 SI	020 DLE	021 DC1	022 DC2	023 DC3
024 DC4	025 NAK	026 SYN	027 ETB	030 CAN
031 EM	032 SUB	033 ESC	034 FS	035 GS
036 RS	037 US	177 DEL		

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

**RETURN VALUES**

The **isctrl()** and **isctrl\_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

**iswcntrl()** or **iswcntrl\_l()** function should be used instead.

#### SEE ALSO

[ctype\(3\)](#), [ctype\\_l\(3\)](#), [iswcntrl\(3\)](#), [iswcntrl\\_l\(3\)](#), [xlocale\(3\)](#), [ascii\(7\)](#)

#### STANDARDS

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

#### HISTORY

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