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# Rocky Enterprise Linux 9.2 Manual Pages on command 'ttyslot.3'

# \$ man ttyslot.3 TTYSLOT(3) Linux Programmer's Manual TTYSLOT(3) NAME ttyslot - find the slot of the current user's terminal in some file **SYNOPSIS** /See NOTES \*/ #include <unistd.h> int ttyslot(void); Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)): ttyslot(): Since glibc 2.24: \_DEFAULT\_SOURCE From glibc 2.20 to 2.23: \_DEFAULT\_SOURCE || \_XOPEN\_SOURCE && \_XOPEN\_SOURCE < 500 Glibc 2.19 and earlier: \_BSD\_SOURCE || \_XOPEN\_SOURCE && \_XOPEN\_SOURCE < 500

**DESCRIPTION** 

entry in some file.

Now "What file?" you ask. Well, let's first look at some history.

#### Ancient history

There used to be a file /etc/ttys in UNIX V6, that was read by the init(1) program to find out what to do with each terminal line. Each line consisted of three characters. The first character was either '0' or '1', where '0' meant "ignore". The second character denoted the terminal: '8' stood for "/dev/tty8". The third character was an argu? ment to getty(8) indicating the sequence of line speeds to try ('-' was: start trying 110 baud). Thus a typical line was "18-". A hang on some line was solved by changing the '1' to a '0', signaling init, changing back again, and signaling init again.

In UNIX V7 the format was changed: here the second character was the argument to getty(8) indicating the sequence of line speeds to try ('0' was: cycle through 300-1200-150-110 baud; '4' was for the on-line con? sole DECwriter) while the rest of the line contained the name of the tty. Thus a typical line was "14console".

Later systems have more elaborate syntax. System V-like systems have /etc/inittab instead.

#### Ancient history (2)

On the other hand, there is the file /etc/utmp listing the people cur? rently logged in. It is maintained by login(1). It has a fixed size, and the appropriate index in the file was determined by login(1) using the ttyslot() call to find the number of the line in /etc/ttys (count? ing from 1).

#### The semantics of ttyslot

Thus, the function ttyslot() returns the index of the controlling ter? minal of the calling process in the file /etc/ttys, and that is (usu? ally) the same as the index of the entry for the current user in the file /etc/utmp. BSD still has the /etc/ttys file, but System V-like systems do not, and hence cannot refer to it. Thus, on such systems the documentation says that ttyslot() returns the current user's index in the user accounting data base.

#### **RETURN VALUE**

If successful, this function returns the slot number. On error (e.g., if none of the file descriptors 0, 1 or 2 is associated with a terminal that occurs in this data base) it returns 0 on UNIX V6 and V7 and BSD-like systems, but -1 on System V-like systems.

#### **ATTRIBUTES**

For an explanation of the terms used in this section, see at? tributes(7).

?Interface ? Attribute ? Value ?

?ttyslot() ? Thread safety ? MT-Unsafe ?

#### **CONFORMING TO**

SUSv1; marked as LEGACY in SUSv2; removed in POSIX.1-2001. SUSv2 re? quires -1 on error.

### **NOTES**

The utmp file is found in various places on various systems, such as /etc/utmp, /var/adm/utmp, /var/run/utmp.

The glibc2 implementation of this function reads the file \_PATH\_TTYS, defined in <ttyent.h> as "/etc/ttys". It returns 0 on error. Since Linux systems do not usually have "/etc/ttys", it will always return 0. On BSD-like systems and Linux, the declaration of ttyslot() is provided

by <unistd.h>. On System V-like systems, the declaration is provided

by <stdlib.h>. Since glibc 2.24, <stdlib.h> also provides the declara?

tion with the following feature test macro definitions:

```
(_XOPEN_SOURCE >= 500 ||

(_XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED))

&&!(_POSIX_C_SOURCE >= 200112L || _XOPEN_SOURCE >= 600)
```

Minix also has fttyslot(fd).

## SEE ALSO

getttyent(3), ttyname(3), utmp(5)

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This page is part of release 5.10 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/.

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