#### **NAME**

getttyent, getttynam, setttyent, endttyent, isdialuptty, isnettty - ttys(5) file routines

### **LIBRARY**

```
Standard C Library (libc, -lc)
```

#### **SYNOPSIS**

```
#include <ttyent.h>

struct ttyent *
getttyent(void);

struct ttyent *
getttynam(const char *name);

int
setttyent(void);

int
endttyent(void);

int
isdialuptty(const char *name);

int
isnettty(const char *name);
```

# **DESCRIPTION**

The **getttyent**(), and **getttynam**() functions each return a pointer to an object, with the following structure, containing the broken-out fields of a line from the tty description file.

```
struct ttyent {
                                    /* terminal device name */
                  *ty_name;
         char
                                    /* command to execute, usually getty */
         char
                  *ty_getty;
                  *ty_type; /* terminal type for termcap */
         char
#define TTY_ON
                           0x01
                                    /* enable logins (start ty_getty program) */
#define TTY_SECURE
                           0x02
                                    /* allow uid of 0 to login */
#define TTY_DIALUP
                                    /* is a dialup tty */
                           0x04
#define TTY_NETWORK 0x08
                                    /* is a network tty */
                                    /* configured as "onifexists" */
#define TTY IFEXISTS
                          0x10
```

```
#define TTY_IFCONSOLE0x20  /* configured as "onifconsole" */
    int         ty_status; /* status flags */
    char         *ty_window;         /* command to start up window manager */
    char         *ty_comment;         /* comment field */
    char         *ty_group;         /* tty group name */
};
```

The fields are as follows:

*ty\_name* The name of the character-special file.

ty\_getty The name of the command invoked by init(8) to initialize tty line characteristics.

*ty\_type* The name of the default terminal type connected to this tty line.

ty\_status A mask of bit fields which indicate various actions allowed on this tty line. The possible flags are as follows:

TTY\_ON Enables logins (i.e., init(8) will start the command referenced by

ty\_getty on this entry).

TTY\_SECURE Allow users with a uid of 0 to login on this terminal.

TTY\_DIALUP Identifies a tty as a dialin line. If this flag is set, then **isdialuptty**() will

return a non-zero value.

TTY\_NETWORK Identifies a tty used for network connections. If this flag is set, then

isnettty() will return a non-zero value.

TTY\_IFCONSOLE

Identifies a tty that might be a system console.

ty\_window The command to execute for a window system associated with the line.

ty\_group A group name to which the tty belongs. If no group is specified in the ttys description file,

then the tty is placed in an anonymous group called "none".

ty\_comment Any trailing comment field, with any leading hash marks ("#") or whitespace removed.

If any of the fields pointing to character strings are unspecified, they are returned as null pointers. The field *ty status* will be zero if no flag values are specified.

See ttys(5) for a more complete discussion of the meaning and usage of the fields.

The **getttyent**() function reads the next line from the ttys file, opening the file if necessary. The **setttyent**() function rewinds the file if open, or opens the file if it is unopened. The **endttyent**() function closes any open files.

The **getttynam**() function searches from the beginning of the file until a matching *name* is found (or until EOF is encountered).

#### **RETURN VALUES**

The routines **getttyent()** and **getttynam()** return a null pointer on EOF or error. The **setttyent()** function and **endttyent()** return 0 on failure and 1 on success.

The routines **isdialuptty**() and **isnettty**() return non-zero if the dialup or network flag is set for the tty entry relating to the tty named by the argument, and zero otherwise.

#### **FILES**

/etc/ttys

# **SEE ALSO**

login(1), gettytab(5), termcap(5), ttys(5), getty(8), init(8)

### **HISTORY**

The getttyent(), getttynam(), setttyent(), and endttyent() functions appeared in 4.3BSD.

# **BUGS**

These functions use static data storage; if the data is needed for future use, it should be copied before any subsequent calls overwrite it.