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 {
          char      *ty_name;           /* terminal device name */
          char      *ty_getty;          /* command to execute, usually getty */
          char      *ty_type; /* terminal type for termcap */
#define   TTY_ON              0x01      /* enable logins (start ty_getty program) */
#define   TTY_SECURE          0x02      /* allow uid of 0 to login */
#define   TTY_DIALUP          0x04      /* is a dialup tty */
#define   TTY_NETWORK         0x08      /* is a network tty */
#define   TTY_IFEXISTS        0x10      /* configured as "onifexists" */
#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_IFEXISTS Identifies a tty that does not necessarily exist.

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.