

**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.