The Open Group Base Specifications Issue 7, 2018 edition
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NAME

utmpx.h - user accounting database definitions

SYNOPSIS

[XSI] ⊠ #include <utmpx.h> ⊠

DESCRIPTION

The *<utmpx.h>* header shall define the **utmpx** structure that shall include at least the following members:

```
char            ut_user[]  User login name.
char            ut_id[]    Unspecified initialization process identifier.
char            ut_line[]  Device name.
pid_t           ut_pid     Process ID.
short           ut_type    Type of entry.
struct timeval  ut_tv      Time entry was made.
```

The *<utmpx.h>* header shall define the **pid_t** type through **typedef,** as described in *<sys/types.h>*.

The *<utmpx.h>* header shall define the **timeval** structure as described in *<sys/time.h>*.

Inclusion of the *<utmpx.h>* header may also make visible all symbols from *<sys/time.h>*.

The *<utmpx.h>* header shall define the following symbolic constants as possible values for the *ut_type* member of the **utmpx** structure:

EMPTY
      No valid user accounting information.
BOOT_TIME
      Identifies time of system boot.
OLD_TIME
      Identifies time when system clock changed.
NEW_TIME
      Identifies time after system clock changed.
USER_PROCESS
      Identifies a process.
INIT_PROCESS
      Identifies a process spawned by the init process.
LOGIN_PROCESS
      Identifies the session leader of a logged-in user.
DEAD_PROCESS
      Identifies a session leader who has exited.

The following shall be declared as functions and may also be defined as macros. Function prototypes shall be provided.

```
void          endutxent(void);
struct utmpx *getutxent(void);
struct utmpx *getutxid(const struct utmpx *);
struct utmpx *getutxline(const struct utmpx *);
```

```
struct utmpx *pututxline(const struct utmpx *);
void          setutxent(void);
```

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

[<sys/time.h>](), [<sys/types.h>]()

XSH [endutxent]()

CHANGE HISTORY

First released in Issue 4, Version 2.

End of informative text.

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