NAME

utmpx, wtmpx – utmpx and wtmpx entry formats

SYNOPSIS

```
#include <utmpx.h>
```

DESCRIPTION

utmpx is an extended version of **utmp**(4).

utmpx and **wtmpx** hold user and accounting information for commands such as **who**, **write**, and **login**. These files have the following structure as defined by **<utmpx.h>**:

```
#define   UTMPX_FILE                  "/var/adm/utmpx"
#define   WTMPX_FILE                  "/var/adm/wtmpx"
#define   ut_name                     ut_user
#define   ut_xtime                    ut_tv.tv_sec
struct utmpx {
    char      ut_user[32];            /* user login name */
    char      ut_id[4];               /* inittab id */
    char      ut_line[32];            /* device name */
                                      /* (console, lnxx) */
    pid_t     ut_pid;                 /* process id */
    short     ut_type;                /* type of entry */
    struct    exit_status ut_exit;    /* process termination/exit */
                                      /* status */
    struct    timeval ut_tv;          /* time entry was made */
    long      ut_session;             /* session ID, used for */
                                      /* windowing */
    long      pad[5];                 /* reserved for future use */
    short     ut_syslen;              /* significant length of */
                                      /* ut_host */
                                      /* including terminating null */
    char      ut_host[257];           /* remote host name */
    };
/* Definitions for ut_type */
#define   EMPTY             0
#define   RUN_LVL           1
#define   BOOT_TIME         2
#define   OLD_TIME          3
#define   NEW_TIME          4
#define   INIT_PROCESS      5       /* Process spawned by "init" */
#define   LOGIN_PROCESS     6       /* A "getty" process waiting */
                                    /* for login */
#define   USER_PROCESS      7       /* A user process */
#define   DEAD_PROCESS      8
#define   ACCOUNTING        9

#define   UTMAXTYPE  ACCOUNTING     /* Largest legal value */
                                    /* of ut_type */
```

```
/* Below are special strings or formats used in the "ut_line" */
/* field when accounting for something other than a process. */
/* No string for the ut_line field can be more than 11 chars + */
/* a null character in length. */

#define   RUNLVL_MSG          "run-level %c"
#define   BOOT_MSG            "system boot"
#define   OTIME_MSG           "old time"
#define   NTIME_MSG           "new time"
#define   MOD_WIN             10
```

FILES

/var/adm/utmpx
/var/adm/wtmpx

SEE ALSO

login(1), **who**(1), **write**(1)