NAME

stat – data returned by stat system call

SYNOPSIS

#include <sys/types.h>
#include <sys/stat.h>

DESCRIPTION

The system calls **stat**, **lstat** and **fstat** return data in a **stat** structure, which is defined in **stat.h**.

The constants used in the **st_mode** field are also defined in this file:

```
#define   S_IFMT     /* type of file */
#define   S_IAMB     /* access mode bits */
#define   S_IFIFO    /* fifo */
#define   S_IFCHR    /* character special */
#define   S_IFDIR    /* directory */
#define   S_IFNAM    /* XENIX special named file */
#define   S_INSEM    /* XENIX semaphore subtype of IFNAM */
#define   S_INSHD    /* XENIX shared data subtype of IFNAM */
#define   S_IFBLK    /* block special */
#define   S_IFREG    /* regular */
#define   S_IFLNK    /* symbolic link */
#define   S_ISUID    /* set user id on execution */
#define   S_ISGID    /* set group id on execution */
#define   S_ISVTX    /* save swapped text even after use */
#define   S_IREAD    /* read permission, owner */
#define   S_IWRITE   /* write permission, owner */
#define   S_IEXEC    /* execute/search permission, owner */
#define   S_ENFMT    /* record locking enforcement flag */
#define   S_IRWXU    /* read, write, execute: owner */
#define   S_IRUSR    /* read permission: owner */
#define   S_IWUSR    /* write permission: owner */
#define   S_IXUSR    /* execute permission: owner */
#define   S_IRWXG    /* read, write, execute: group */
#define   S_IRGRP    /* read permission: group */
#define   S_IWGRP    /* write permission: group */
#define   S_IXGRP    /* execute permission: group */
#define   S_IRWXO    /* read, write, execute: other */
#define   S_IROTH    /* read permission: other */
#define   S_IWOTH    /* write permission: other */
#define   S_IXOTH    /* execute permission: other */
```

The following macros are for POSIX conformance:

#define	**S_ISBLK(mode)**	block special file
#define	**S_ISCHR(mode)**	character special file
#define	**S_ISDIR(mode)**	directory file
#define	**S_ISFIFO(mode)**	pipe or fifo file
#define	**S_ISREG(mode)**	regular file

SEE ALSO

stat(2), **types**(5)