NAME

stat – get file status

SYNOPSIS

stat = 18.

ARGUMENTS(input)

capability associated with working directory of sender process
0 - name byte offset into message
1 - file pathname

VALUES(returned)

0-17 - file status as described below

DESCRIPTION

The status of the given file is returned in the acknowledgement message (18 words). It is not necessary to have any permissions with respect to the file, but all directories leading to the file must be readable. Starting at fm_arg[0], the returned status of the file in the message is described by:

```
struct {
        char   minor;           /* minor device of i-node */
        char   major;         /* major device of i-node */
        int    inumber;       /* i-node number */
        int    flags;         /* see below */
        char   nlinks;          /* number of links to file */
        char   uid;           /* user ID of owner */
        char   gid;           /* group ID of owner */
        char   size0;         /* high byte of 24-bit size */
        char   *size1;          /* low word of 24-bit size */
        int    addr[8];       /* extents or device number */
        int    atime[2];      /* time of last access */
        int    mtime[2];      /* time of last modification */
};
```

The flags are as follows:

```
100000 i-node is allocated
070000 3-bit file type
   000000  plain file
   040000  directory
   020000  character-type special file
   060000  block-type special file
   070000  record-type special file
010000 contiguous file
004000 set user-ID on execution
002000 set group-ID on execution
000400 read (owner)
000200 write (owner)
000100 execute (owner)
000070 read, write, execute (group)
000007 read, write, execute (others)
```

SEE ALSO

ls(I), stat(II), fstat(II), fstat(C), fs(g).

DIAGNOSTICS

An error status byte is returned if the file cannot be found.