Bell Telephone Laboratories, Incorporated PROGRAM APPLICATION INSTRUCTION

STAT(c)

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)

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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.

The status of an given file is returned in the asknowledgement message (18 yords). It is not necessary to have any pormissions with respect to the file, but all directories isading in the file must be reached as the scaling in the recesser is eached as the states of the file in the increase is seenbed as

The fibes are as follows:

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