NAME

stat - get file status

SYNOPSIS

stat (name, buf)
char *name;
struct inode *buf;

DESCRIPTION

Name points to a null-terminated string naming a file; buf is the address of a 36(10) byte buffer into which information is placed concerning the file. It is unnecessary to have any permissions at all with respect to the file, but all directories leading to the file must be readable. After stat, buf has the following structure (starting offset given in bytes):

struct {

ι –		
char	minor;	/* +0: minor device of i-node */
char	major;	/* +1: major device */
int	inumber;	/* +2 */
int	flags;	/* +4: see below */
char	nlinks;	/* +6: number of links to file */
char	uid;	/* +7: user ID of owner */
char	gid;	/* +8: group ID of owner */
char	size0;	/* +9: high byte of 24-bit size */
int	sizel;	/* +10: low word of 24-bit size */
int		2: block numbers or device number */
int		/* + 28: time of last access */
int		/* +32: time of last modification */
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};

The flags are as follows:

-		
100000	i-node is allocated	
060000	2-bit file type:	
	000000 plain file	
	040000 directory	
	020000 character-type special file	
	060000 block-type special file.	
010000	large 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(1), fstat(2), fs(5)

DIAGNOSTICS

Error bit (c-bit) is set if the file cannot be found. From C, a - 1 return indicates an error.

C'