NAME

access − determine accessibility of file

SYNOPSIS

(access = 33.)

sys   access; name; mode

access(name, mode)
char *name;

DESCRIPTION

Access checks the given file *name* for accessibility according to *mode,* which is 4 (read), 2 (write) or 1 (execute) or a combination thereof. An appropriate error indication is returned if one or more of the desired access modes would not be granted.

The user and group IDs with respect to which permission is checked are the real UID and GID of the process, so this call is useful to set-UID programs.

Notice that it is only access bits that are checked. A directory may be announced as writable by *access,* but an attempt to open it for writing will fail (although files may be created there); a file may look excutable, but *exec* (II) will fail unless it is in proper format.

SEE ALSO

stat(II)

DIAGNOSTICS

C-bit is set on disallowed accesses, and the error code is in r0; from C, −1 is returned and the error code is in *errno.* 0 is returned from successful tests.