

## ACCESS(II)

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### NAME

access — determine accessibility of file

### SYNOPSIS

(access = 33.; not in assembler)  
**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 is not permitted.

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 executable, but *execv* will fail unless it is in proper format.

### DIAGNOSTICS

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

### BUGS