

NAME

`acl_set_fd` — set an ACL by file descriptor

LIBRARY

Linux Access Control Lists library (libacl, -lacl).

SYNOPSIS

```
#include <sys/types.h>
#include <sys/acl.h>

int
acl_set_fd(int fd, acl_t acl);
```

DESCRIPTION

The `acl_set_fd()` function associates an access ACL with the file referred to by *fd*.

The effective user ID of the process must match the owner of the file or the process must have the CAP_FOWNER capability for the request to succeed.

RETURN VALUE

The `acl_set_fd()` function returns the value 0 if successful; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

ERRORS

If any of the following conditions occur, the `acl_set_fd()` function returns the value -1 and sets *errno* to the corresponding value:

[EBADF]	The <i>fd</i> argument is not a valid file descriptor.
[EINVAL]	The argument <i>acl</i> does not point to a valid ACL. The ACL has more entries than the file referred to by <i>fd</i> can obtain.
[ENOSPC]	The directory or file system that would contain the new ACL cannot be extended or the file system is out of file allocation resources.
[ENOTSUP]	The file identified by <i>fd</i> cannot be associated with the ACL because the file system on which the file is located does not support this.
[EPERM]	The process does not have appropriate privilege to perform the operation to set the ACL.
[EROFS]	This function requires modification of a file system which is currently read-only.

STANDARDS

IEEE Std 1003.1e draft 17 (“POSIX.1e”, abandoned)

SEE ALSO

`acl_delete_def_file(3)`, `acl_get_file(3)`, `acl_set_file(3)`, `acl_valid(3)`, `acl(5)`

AUTHOR

Derived from the FreeBSD manual pages written by Robert N M Watson <rwatson@FreeBSD.org>, and adapted for Linux by Andreas Gruenbacher <andreas.gruenbacher@gmail.com>.