

NAME

`acl_valid` — validate an ACL

LIBRARY

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

SYNOPSIS

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

int
acl_valid(acl_t acl);
```

DESCRIPTION

The **`acl_valid()`** function checks the ACL referred to by the argument *acl* for validity.

The three required entries `ACL_USER_OBJ`, `ACL_GROUP_OBJ`, and `ACL_OTHER` must exist exactly once in the ACL. If the ACL contains any `ACL_USER` or `ACL_GROUP` entries, then an `ACL_MASK` entry is also required. The ACL may contain at most one `ACL_MASK` entry.

The user identifiers must be unique among all entries of type `ACL_USER`. The group identifiers must be unique among all entries of type `ACL_GROUP`.

RETURN VALUE

The **`acl_valid()`** 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_valid()`** function returns -1 and sets *errno* to the corresponding value:

- | | |
|----------|--|
| [EINVAL] | The argument <i>acl</i> is not a valid pointer to an ACL. |
| | The argument <i>acl</i> does not point to a valid ACL. |
| | One or more of the required ACL entries is not present in <i>acl</i> . |
| | The ACL contains entries that are not unique. |

STANDARDS

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

SEE ALSO

acl_check(3), *acl_set_file*(3), *acl*(5)

AUTHOR

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