

NAME

acl_calc_mask - calculate and set ACL mask permissions

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

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

```
int
```

```
acl_calc_mask(acl_t *acl_p);
```

DESCRIPTION

The **acl_calc_mask()** function is a POSIX.1e call that calculates and set the permissions associated with the ACL_MASK ACL entry of the ACL referred to by *acl_p*.

The value of new permissions are the union of the permissions granted by the ACL_GROUP, ACL_GROUP_OBJ, ACL_USER tag types which match processes in the file group class contained in the ACL referred to by *acl_p*.

If the ACL referred to by *acl_p* already contains an ACL_MASK entry, its permissions shall be overwritten; if it does not contain an ACL_MASK entry, one shall be added.

RETURN VALUES

The **acl_calc_mask()** 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

The **acl_calc_mask()** function fails if:

[EINVAL] Argument *acl_p* does not point to a pointer to a valid ACL.

SEE ALSO

acl(3), acl_get_entry(3), acl_valid(3), posix1e(3)

STANDARDS

POSIX.1e is described in IEEE POSIX.1e draft 17.

HISTORY

POSIX.1e support was introduced in FreeBSD 4.0. The **acl_calc_mask()** function was added in FreeBSD 5.0.

AUTHORS

The **acl_calc_mask()** function was written by Chris D. Faulhaber <jedgar@fxp.org>.