

**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*>.