

NAME

acl_get_qualifier - retrieve the qualifier from an ACL entry

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

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

```
void *
```

```
acl_get_qualifier(acl_entry_t entry_d);
```

DESCRIPTION

The **acl_get_qualifier()** function is a POSIX.1e call that retrieves the qualifier of the tag for the ACL entry indicated by the argument *entry_d* into working storage and returns a pointer to that storage.

If the value of the tag type in the ACL entry referred to by *entry_d* is **ACL_USER**, then the value returned by **acl_get_qualifier()** will be a pointer to type *uid_t*.

If the value of the tag type in the ACL entry referred to by *entry_d* is **ACL_GROUP**, then the value returned by **acl_get_qualifier()** will be a pointer to type *gid_t*.

If the value of the tag type in the ACL entry referred to by *entry_d* is **ACL_UNDEFINED_TAG**, **ACL_USER_OBJ**, **ACL_GROUP_OBJ**, **ACL_OTHER**, **ACL_MASK**, or an implementation-defined value for which a qualifier is not supported, then **acl_get_qualifier()** will return a value of *(void *)NULL* and the function will fail.

This function may cause memory to be allocated. The caller should free any releasable memory, when the new qualifier is no longer required, by calling **acl_free()** with *void ** as the argument.

RETURN VALUES

The **acl_get_qualifier()** function returns a pointer to the allocated storage if successful; otherwise a NULL pointer is returned and the global variable *errno* is set to indicate the error.

ERRORS

The **acl_get_qualifier()** fails if:

[EINVAL] Argument *entry_d* does not point to a valid descriptor for an ACL entry. The value of the tag type in the ACL entry referenced by argument *entry_d* is not

ACL_USER or ACL_GROUP.

[ENOMEM] The value to be returned requires more memory than is allowed by the hardware or system-imposed memory management constraints.

SEE ALSO

acl(3), acl_create_entry(3), acl_free(3), acl_get_entry(3), acl_get_tag_type(3), acl_set_qualifier(3), acl_set_tag_type(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_get_qualifier()** function was added in FreeBSD 5.0.

AUTHORS

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