

NAME

acl_to_text, **acl_to_text_np** - convert an ACL to text

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

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

```
char *
```

```
acl_to_text(acl_t acl, ssize_t *len_p);
```

```
char *
```

```
acl_to_text_np(acl_t acl, ssize_t *len_p, int flags);
```

DESCRIPTION

The **acl_to_text()** and **acl_to_text_np()** functions translate the ACL pointed to by argument *acl* into a NULL terminated character string. If the pointer *len_p* is not NULL, then the function shall return the length of the string (not including the NULL terminator) in the location pointed to by *len_p*. If the ACL is POSIX.1e, the format of the text string returned by **acl_to_text()** shall be the POSIX.1e long ACL form. If the ACL is NFSv4, the format of the text string shall be the compact form, unless the **ACL_TEXT_VERBOSE** flag is given.

The flags specified are formed by *or*'ing the following values

ACL_TEXT_VERBOSE	Format ACL using verbose form
ACL_TEXT_NUMERIC_IDS	Do not resolve IDs into user or group names
ACL_TEXT_APPEND_ID	In addition to user and group names, append numeric IDs

This function allocates any memory necessary to contain the string and returns a pointer to the string. The caller should free any releasable memory, when the new string is no longer required, by calling **acl_free(3)** with the *(void*)char* as an argument.

IMPLEMENTATION NOTES

FreeBSD's support for POSIX.1e interfaces and features is still under development at this time.

RETURN VALUES

Upon successful completion, the function shall return a pointer to the long text form of an ACL. Otherwise, a value of *(char*)NULL* shall be returned and *errno* shall be set to indicate the error.

ERRORS

If any of the following conditions occur, the **acl_to_text()** function shall return a value of *(acl_t)NULL* and set *errno* to the corresponding value:

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

The ACL denoted by *acl* contains one or more improperly formed ACL entries, or for some other reason cannot be translated into a text form of an ACL.

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

SEE ALSO

[acl\(3\)](#), [acl_free\(3\)](#), [acl_from_text\(3\)](#), [posix1e\(3\)](#)

STANDARDS

POSIX.1e is described in IEEE POSIX.1e draft 17. Discussion of the draft continues on the cross-platform POSIX.1e implementation mailing list. To join this list, see the FreeBSD POSIX.1e implementation page for more information.

HISTORY

POSIX.1e support was introduced in FreeBSD 4.0, and development continues.

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BUGS

The **acl_from_text()** and **acl_to_text()** functions rely on the **getpwent(3)** library calls to manage username and uid mapping, as well as the **getgrent(3)** library calls to manage groupname and gid mapping. These calls are not thread safe, and so transitively, neither are **acl_from_text()** and **acl_to_text()**. These functions may also interfere with stateful calls associated with the **getpwent()** and **getgrent()** calls.