

**NAME**

**acl\_delete\_def\_file**, **acl\_delete\_def\_link\_np**, **acl\_delete\_fd\_np**, **acl\_delete\_file\_np**, **acl\_delete\_link\_np** - delete an ACL from a file

**LIBRARY**

Standard C Library (libc, -lc)

**SYNOPSIS**

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

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

*int*

```
acl_delete_def_file(const char *path_p);
```

*int*

```
acl_delete_def_link_np(const char *path_p);
```

*int*

```
acl_delete_fd_np(int filedes, acl_type_t type);
```

*int*

```
acl_delete_file_np(const char *path_p, acl_type_t type);
```

*int*

```
acl_delete_link_np(const char *path_p, acl_type_t type);
```

**DESCRIPTION**

The **acl\_delete\_def\_file()**, **acl\_delete\_def\_link\_np()**, **acl\_delete\_fd\_np()**, **acl\_delete\_file\_np()**, and **acl\_delete\_link\_np()** each allow the deletion of an ACL from a file. The **acl\_delete\_def\_file()** function is a POSIX.1e call that deletes the default ACL from a file (normally a directory) by name; the remainder of the calls are non-portable extensions that permit the deletion of arbitrary ACL types from a file/directory either by path name or file descriptor. The **\_file()** variations follow a symlink if it occurs in the last segment of the path name; the **\_link()** variations operate on the symlink itself.

**IMPLEMENTATION NOTES**

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

**RETURN VALUES**

Upon successful completion, the value 0 is returned; 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, these functions shall return -1 and set *errno* to the corresponding value:

- |                |   |
|----------------|---|
| [EACCES]       | Search permission is denied for a component of the path prefix, or the object exists and the process does not have appropriate access rights. |
| [EBADF]        | The <i>fd</i> argument is not a valid file descriptor.  |
| [EINVAL]       | The ACL type passed is invalid for this file object.  |
| [ENAMETOOLONG] | A component of a pathname exceeded 255 characters, or an entire path name exceeded 1023 characters.   |
| [ENOENT]       | The named object does not exist, or the <i>path_p</i> argument points to an empty string.   |
| [ENOMEM]       | Insufficient memory available to fulfill request.   |
| [ENOTDIR]      | A component of the path prefix is not a directory.<br><br>Argument <i>path_p</i> must be a directory, and is not.                             |
| [EOPNOTSUPP]   | The file system does not support ACL deletion.  |
| [EPERM]        | The process does not have appropriate privilege to perform the operation to delete an ACL.  |
| [EROFS]        | The file system is read-only.   |

## SEE ALSO

`acl(3)`, `acl_get(3)`, `acl_set(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.

**AUTHORS**

Robert N M Watson