

NAME

mac_from_text, **mac_to_text** - convert MAC label to/from text representation

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

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

int

```
mac_from_text(mac_t *mac, const char *text);
```

int

```
mac_to_text(mac_t label, char **text);
```

DESCRIPTION

The **mac_from_text()** function converts the text representation of a label into the internal policy label format (*mac_t*) and places it in **mac*, which must later be freed with `free(3)`.

The **mac_to_text()** function allocates storage for **text*, which will be set to the text representation of *label*.

Refer to `maclabel(7)` for the MAC label format.

RETURN VALUES

The **mac_from_text()** and **mac_to_text()** functions return the value 0 if successful; otherwise the value -1 is returned and the global variable *errno* is set to indicate the error.

COMPATIBILITY

POSIX.1e does not define a format for text representations of MAC labels.

POSIX.1e requires that text strings allocated using **mac_to_text()** be freed using `mac_free(3)`; in the FreeBSD implementation, they must be freed using `free(3)`, as `mac_free(3)` is used only to free memory used for type *mac_t*.

ERRORS

[ENOMEM] Insufficient memory was available to allocate internal storage.

SEE ALSO

`free(3)`, `mac(3)`, `mac_get(3)`, `mac_is_present(3)`, `mac_prepare(3)`, `mac_set(3)`, `posix1e(3)`, `mac(4)`,

maclabel(7)

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

Support for Mandatory Access Control was introduced in FreeBSD 5.0 as part of the TrustedBSD Project.