

NAME

libugidfw - library interface to the file system firewall MAC policy

LIBRARY

File System Firewall Interface Library (libugidfw, -lugidfw)

SYNOPSIS

```
#include <sys/types.h>
#include <security/mac_bsdextended/mac_bsdextended.h>
#include <ugidfw.h>
```

DESCRIPTION

The **libugidfw** library routines provide an interface to the `mac_bsdextended(4)` file system firewall MAC policy.

The **libugidfw** library defines the following functions:

bsde_rule_to_string() Converts the internal representation of a rule (*struct mac_bsdextended_rule*) into its text representation; see `bsde_rule_to_string(3)`.

bsde_parse_rule() Parses an entire rule (in argument array form); see `bsde_parse_rule(3)`.

bsde_parse_rule_string()
Parses an entire rule string; see `bsde_parse_rule_string(3)`.

bsde_get_rule_count() Returns the total number of `ugidfw` rules being enforced in the system; see `bsde_get_rule_count(3)`.

bsde_get_rule_slots() Returns the total number of used rule slots; see `bsde_get_rule_slots(3)`.

bsde_get_rule() Returns a rule by its rule number; see `bsde_get_rule(3)`.

bsde_delete_rule() Deletes a rule by its rule number; see `bsde_delete_rule(3)`.

bsde_set_rule() Uploads the rule to the `mac_bsdextended(4)` module and applies it; see `bsde_set_rule(3)`.

bsde_add_rule() Upload the rule to the module, automatically selecting the next available rule number; see `bsde_add_rule(3)`.

SEE ALSO

bsde_delete_rule(3), bsde_get_rule(3), bsde_get_rule_count(3), bsde_get_rule_slots(3),
bsde_parse_rule(3), bsde_parse_rule_string(3), bsde_rule_to_string(3), bsde_set_rule(3)

AUTHORS

This software was contributed to the FreeBSD Project by Network Associates Labs, the Security Research Division of Network Associates Inc. under DARPA/SPAWAR contract N66001-01-C-8035 ("CBOSS"), as part of the DARPA CHATS research program.