NAME

```
cap_rights_get - obtain capability rights
```

LIBRARY

```
Standard C Library (libc, -lc)
```

SYNOPSIS

```
#include <sys/capsicum.h>
int
cap_rights_get(int fd, cap_rights_t *rights);
```

DESCRIPTION

The **cap_rights_get** function allows to obtain current capability rights for the given descriptor. The function will fill the *rights* argument with all capability rights if they were not limited or capability rights configured during the last successful call of cap_rights_limit(2) on the given descriptor.

The *rights* argument can be inspected using cap_rights_init(3) family of functions.

The complete list of the capability rights can be found in the rights(4) manual page.

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.

EXAMPLES

The following example demonstrates how to limit file descriptor capability rights and how to obtain them.

assert(memcmp(&setrights, &getrights, sizeof(setrights)) == 0);

ERRORS

cap_rights_get() succeeds unless:

[EBADF] The fd argument is not a valid active descriptor.

[EFAULT] The *rights* argument points at an invalid address.

SEE ALSO

cap_rights_limit(2), errno(2), open(2), assert(3), cap_rights_init(3), err(3), memcmp(3), memset(3), capsicum(4), rights(4)

HISTORY

The **cap_rights_get()** function first appeared in FreeBSD 9.2. Support for capabilities and capabilities mode was developed as part of the TrustedBSD Project.

AUTHORS

This function was created by Pawel Jakub Dawidek *<pawel@dawidek.net>* under sponsorship of the FreeBSD Foundation.