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# Rocky Enterprise Linux 9.2 Manual Pages on command 'getentropy.3'

# \$ man getentropy.3

GETENTROPY(3)

Linux Programmer's Manual

GETENTROPY(3)

# NAME

getentropy - fill a buffer with random bytes

# SYNOPSIS

#include <unistd.h>

int getentropy(void \*buffer, size\_t length);

Feature Test Macro Requirements for glibc (see feature\_test\_macros(7)):

getentropy():

\_DEFAULT\_SOURCE

# DESCRIPTION

The getentropy() function writes length bytes of high-quality random

data to the buffer starting at the location pointed to by buffer. The

maximum permitted value for the length argument is 256.

A successful call to getentropy() always provides the requested number

of bytes of entropy.

# **RETURN VALUE**

On success, this function returns zero. On error, -1 is returned, and

errno is set appropriately.

### ERRORS

EFAULT Part or all of the buffer specified by buffer and length is not

in valid addressable memory.

- EIO length is greater than 256.
- EIO An unspecified error occurred while trying to overwrite buffer with random data.
- ENOSYS This kernel version does not implement the getrandom(2) system call required to implement this function.

#### VERSIONS

The getentropy() function first appeared in glibc 2.25.

#### CONFORMING TO

This function is nonstandard. It is also present on OpenBSD.

#### NOTES

The getentropy() function is implemented using getrandom(2).

Whereas the glibc wrapper makes getrandom(2) a cancellation point,

getentropy() is not a cancellation point.

getentropy() is also declared in <sys/random.h>. (No feature test macro need be defined to obtain the declaration from that header file.) A call to getentropy() may block if the system has just booted and the kernel has not yet collected enough randomness to initialize the en? tropy pool. In this case, getentropy() will keep blocking even if a signal is handled, and will return only once the entropy pool has been initialized.

#### SEE ALSO

getrandom(2), urandom(4), random(7)

### COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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