NAME

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getentropy - get entropy
```

LIBRARY

Standard C Library (libc, -lc)

SYNOPSIS

```
#include <unistd.h>
```

int

getentropy(void *buf, size_t buflen);

DESCRIPTION

getentropy() fills a buffer with high-quality random data.

The maximum buflen permitted is 256 bytes.

If it does not produce an error, **getentropy**() always provides the requested number of bytes of random data.

Similar to reading from /dev/urandom just after boot, **getentropy**() may block until the system has collected enough entropy to seed the CSPRNG.

IMPLEMENTATION NOTES

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

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

getentropy() will succeed unless:

[EFAULT] The *buf* parameter points to an invalid address.

[EIO] Too many bytes requested, or some other fatal error occurred.

SEE ALSO

getrandom(2), arc4random(3), random(4)

STANDARDS

getentropy() is non-standard. It is present on OpenBSD and Linux.

HISTORY

The **getentropy**() function appeared in OpenBSD 5.6. The FreeBSD libc compatibility shim first appeared in FreeBSD 12.0.