

16.15. `errno` — Standard `errno` system symbols

This module makes available standard `errno` system symbols. The value of each symbol is the corresponding integer value. The names and descriptions are borrowed from `linux/include/errno.h`, which should be pretty all-inclusive.

`errno.errorcode`

Dictionary providing a mapping from the `errno` value to the string name in the underlying system. For instance, `errno.errorcode[errno.EPERM]` maps to `'EPERM'`.

To translate a numeric error code to an error message, use `os.strerror()`.

Of the following list, symbols that are not used on the current platform are not defined by the module. The specific list of defined symbols is available as `errno.errorcode.keys()`. Symbols available can include:

`errno.EPERM`

Operation not permitted

`errno.ENOENT`

No such file or directory

`errno.ESRCH`

No such process

`errno.EINTR`

Interrupted system call.

See also: This error is mapped to the exception `InterruptedError`.

`errno.EIO`

I/O error

`errno.ENXIO`

No such device or address

`errno.E2BIG`

Arg list too long

`errno.ENOEXEC`

Exec format error

errno. **EBADF**

Bad file number

errno. **ECHILD**

No child processes

errno. **EAGAIN**

Try again

errno. **ENOMEM**

Out of memory

errno. **EACCES**

Permission denied

errno. **EFAULT**

Bad address

errno. **ENOTBLK**

Block device required

errno. **EBUSY**

Device or resource busy

errno. **EEXIST**

File exists

errno. **EXDEV**

Cross-device link

errno. **ENODEV**

No such device

errno. **ENOTDIR**

Not a directory

errno. **EISDIR**

Is a directory

errno. **EINVAL**

Invalid argument

errno. **ENFILE**

File table overflow

errno. **EMFILE**

Too many open files

errno. **ENOTTY**

Not a typewriter

errno. **ETXTBSY**

Text file busy

errno. **EFBIG**

File too large

errno. **ENOSPC**

No space left on device

errno. **ESPIPE**

Illegal seek

errno. **EROFS**

Read-only file system

errno. **EMLINK**

Too many links

errno. **EPIPE**

Broken pipe

errno. **EDOM**

Math argument out of domain of func

errno. **ERANGE**

Math result not representable

errno. **EDEADLK**

Resource deadlock would occur

errno. **ENAMETOOLONG**

File name too long

errno. **ENOLCK**

No record locks available

errno. **ENOSYS**

Function not implemented

errno. **ENOTEMPTY**

Directory not empty

errno. **ELOOP**

Too many symbolic links encountered

errno. **EWOULDBLOCK**

Operation would block

errno. **ENOMSG**

No message of desired type

errno. **EIDRM**

Identifier removed

errno. **ECHRNG**

Channel number out of range

errno. **EL2NSYNC**

Level 2 not synchronized

errno. **EL3HLT**

Level 3 halted

errno. **EL3RST**

Level 3 reset

errno. **ELNRNG**

Link number out of range

errno. **EUNATCH**

Protocol driver not attached

errno. **ENOCSI**

No CSI structure available

errno. **EL2HLT**

Level 2 halted

errno. **EBADE**

Invalid exchange

errno. **EBADR**

Invalid request descriptor

errno. **EXFULL**

Exchange full

errno. **ENOANO**

No anode

errno. **EBADRQC**

Invalid request code

errno. **EBADSLT**

Invalid slot

errno. **EDEADLOCK**

File locking deadlock error

errno. **EBFONT**

Bad font file format

errno. **ENOSTR**

Device not a stream

errno. **ENODATA**

No data available

errno. **ETIME**

Timer expired

errno. **ENOSR**

Out of streams resources

errno. **ENONET**

Machine is not on the network

errno. **ENOPKG**

Package not installed

errno. **EREMOTE**

Object is remote

errno. **ENOLINK**

Link has been severed

errno. **EADV**

Advertise error

errno. **ESRMNT**

Srmount error

errno. **ECOMM**

Communication error on send

errno. **EPROTO**

Protocol error

errno. **EMULTIHOP**

Multihop attempted

errno. **EDOTDOT**

RFS specific error

errno. **EBADMSG**

Not a data message

errno. **EOVERFLOW**

Value too large for defined data type

errno. **ENOTUNIQ**

Name not unique on network

errno. **EBADFD**

File descriptor in bad state

errno. **EREMCHG**

Remote address changed

errno. **ELIBACC**

Can not access a needed shared library

errno. **ELIBBAD**

Accessing a corrupted shared library

errno. **ELIBSCN**

.lib section in a.out corrupted

errno. **ELIBMAX**

Attempting to link in too many shared libraries

errno. **ELIBEXEC**

Cannot exec a shared library directly

errno. **EILSEQ**

Illegal byte sequence

errno. **ERESTART**

Interrupted system call should be restarted

errno. **ESTRPIPE**

Streams pipe error

errno. **EUSERS**

Too many users

errno. **ENOTSOCK**

Socket operation on non-socket

errno. **EDESTADDRREQ**

Destination address required

errno. **EMSGSIZE**

Message too long

errno. **EPROTOTYPE**

Protocol wrong type for socket

errno. **ENOPROTOOPT**

Protocol not available

errno. **EPROTONOSUPPORT**

Protocol not supported

errno. **ESOCKTNOSUPPORT**

Socket type not supported

errno. **EOPNOTSUPP**

Operation not supported on transport endpoint

errno. **EPFNOSUPPORT**

Protocol family not supported

errno. **EAFNOSUPPORT**

Address family not supported by protocol

errno. **EADDRINUSE**

Address already in use

errno. **EADDRNOTAVAIL**

Cannot assign requested address

errno. **ENETDOWN**

Network is down

errno. **ENETUNREACH**

Network is unreachable

errno. **ENETRESET**

Network dropped connection because of reset

errno. **ECONNABORTED**

Software caused connection abort

errno. **ECONNRESET**

Connection reset by peer

errno. **ENOBUFS**

No buffer space available

errno. **EISCONN**

Transport endpoint is already connected

errno. **ENOTCONN**

Transport endpoint is not connected

errno. **ESHUTDOWN**

Cannot send after transport endpoint shutdown

errno. **ETOOMANYREFS**

Too many references: cannot splice

errno. **ETIMEDOUT**

Connection timed out

errno. **ECONNREFUSED**

Connection refused

errno. **EHOSTDOWN**

Host is down

errno. **EHOSTUNREACH**

No route to host

errno. **EALREADY**

Operation already in progress

errno. **EINPROGRESS**

Operation now in progress

errno. **ESTALE**

Stale NFS file handle

errno. **EUCLEAN**

Structure needs cleaning

errno. **ENOTNAM**

Not a XENIX named type file

errno. **ENAVAIL**

No XENIX semaphores available

errno. **EISNAM**

Is a named type file

errno. **EREMOTEIO**

Remote I/O error

errno. **EDQUOT**

Quota exceeded