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16.14. 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

`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

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