

errno.h – C Error Codes in Linux

All the Linux/C error codes are listed below.

I occasionally google C error codes, but always end up grepping through /usr/include to find the answer. To save myself, and a few others, some time in the future...

`/usr/include/asm-generic/errno-base.h`

```

#ifndef _ASM_GENERIC_ERRNO_BASE_H
#define _ASM_GENERIC_ERRNO_BASE_H

#define EPERM          1  /* Operation not permitted */
#define ENOENT         2  /* No such file or directory */
#define ESRCH          3  /* No such process */
#define EINTR          4  /* Interrupted system call */
#define EIO            5  /* I/O error */
#define ENXIO          6  /* No such device or address */
#define E2BIG          7  /* Argument list too long */
#define ENOEXEC        8  /* Exec format error */
#define EBADF          9  /* Bad file number */
#define ECHILD        10  /* No child processes */
#define EAGAIN        11  /* Try again */
#define ENOMEM        12  /* Out of memory */
#define EACCES        13  /* Permission denied */
#define EFAULT        14  /* Bad address */
#define ENOTBLK       15  /* Block device required */
#define EBUSY         16  /* Device or resource busy */
#define EEXIST        17  /* File exists */
#define EXDEV         18  /* Cross-device link */
#define ENODEV        19  /* No such device */
#define ENOTDIR       20  /* Not a directory */
#define EISDIR        21  /* Is a directory */
#define EINVAL        22  /* Invalid argument */
#define ENFILE        23  /* File table overflow */
#define EMFILE        24  /* Too many open files */
#define ENOTTY        25  /* Not a typewriter */
#define ETXTBSY       26  /* Text file busy */
#define EFBIG         27  /* File too large */
#define ENOSPC        28  /* No space left on device */
#define ESPIPE        29  /* Illegal seek */
#define EROFS         30  /* Read-only file system */
#define EMLINK        31  /* Too many links */
#define EPIPE        32  /* Broken pipe */
#define EDOM          33  /* Math argument out of domain of func */
#define ERANGE        34  /* Math result not representable */

#endif

```

/usr/include/asm-generic/errno.h

virtsync (<http://www.virtsync.com>)

```

#ifndef _ASM_GENERIC_ERRNO_H
#define _ASM_GENERIC_ERRNO_H

```

```
#include <asm-generic/errno-base.h>
```

```
#define EDEADLK      35  /* Resource deadlock would occur */
#define ENAMETOOLONG 36  /* File name too long */
#define ENOLCK       37  /* No record locks available */
#define ENOSYS       38  /* Function not implemented */
#define ENOTEMPTY    39  /* Directory not empty */
#define ELOOP        40  /* Too many symbolic links encountered */
#define EWOULDBLOCK  EAGAIN /* Operation would block */
#define ENOMSG       42  /* No message of desired type */
#define EIDRM        43  /* Identifier removed */
#define ECHRNG       44  /* Channel number out of range */
#define EL2NSYNC     45  /* Level 2 not synchronized */
#define EL3HLT       46  /* Level 3 halted */
#define EL3RST       47  /* Level 3 reset */
#define ELNRNG       48  /* Link number out of range */
#define EUNATCH      49  /* Protocol driver not attached */
#define ENOCSI       50  /* No CSI structure available */
#define EL2HLT       51  /* Level 2 halted */
#define EBADE        52  /* Invalid exchange */
#define EBADR        53  /* Invalid request descriptor */
#define EXFULL       54  /* Exchange full */
#define ENOANO       55  /* No anode */
#define EBADRQC      56  /* Invalid request code */
#define EBADSLT      57  /* Invalid slot */
```

```
#define EDEADLOCK    EDEADLK
```

```
#define EBFONT        59  /* Bad font file format */
#define ENOSTR        60  /* Device not a stream */
#define ENODATA       61  /* No data available */
#define ETIME         62  /* Timer expired */
#define ENOSR         63  /* Out of streams resources */
#define ENONET        64  /* Machine is not on the network */
#define ENOPKG        65  /* Package not installed */
#define EREMOTE       66  /* Object is remote */
#define ENOLINK       67  /* Link has been severed */
#define EADV          68  /* Advertise error */
#define ESRMNT        69  /* Srmount error */
#define ECOMM         70  /* Communication error on send */
#define EPROTO        71  /* Protocol error */
#define EMULTIHOP     72  /* Multihop attempted */
#define EDOTDOT       73  /* RFS specific error */
#define EBADMSG       74  /* Not a data message */
```

```

#define EOVERFLOW      75 /* Value too large for defined data type */
#define ENOTUNIQ       76 /* Name not unique on network */
#define EBADFD         77 /* File descriptor in bad state */
#define EREMCHG        78 /* Remote address changed */
#define ELIBACC        79 /* Can not access a needed shared library */
#define ELIBBAD        80 /* Accessing a corrupted shared library */
#define ELIBSCN        81 /* .lib section in a.out corrupted */
#define ELIBMAX        82 /* Attempting to link in too many shared libraries
*/
#define ELIBEXEC       83 /* Cannot exec a shared library directly */
#define EILSEQ         84 /* Illegal byte sequence */
#define ERESTART       85 /* Interrupted system call should be restarted */
#define ESTRPIPE       86 /* Streams pipe error */
#define EUSERS         87 /* Too many users */
#define ENOTSOCK       88 /* Socket operation on non-socket */
#define EDESTADDRREQ   89 /* Destination address required */
#define EMSGSIZE       90 /* Message too long */
#define EPROTOTYPE     91 /* Protocol wrong type for socket */
#define ENOPROTOOPT    92 /* Protocol not available */
#define EPROTONOSUPPORT 93 /* Protocol not supported */
#define ESOCKTNOSUPPORT 94 /* Socket type not supported */
#define EOPNOTSUPP     95 /* Operation not supported on transport endpoint */
#define EPFNOSUPPORT   96 /* Protocol family not supported */
#define EAFNOSUPPORT   97 /* Address family not supported by protocol */
#define EADDRINUSE     98 /* Address already in use */
#define EADDRNOTAVAIL  99 /* Cannot assign requested address */
#define ENETDOWN       100 /* Network is down */
#define ENETUNREACH    101 /* Network is unreachable */
#define ENETRESET      102 /* Network dropped connection because of reset */
#define ECONNABORTED   103 /* Software caused connection abort */
#define ECONNRESET     104 /* Connection reset by peer */
#define ENOBUFS        105 /* No buffer space available */
#define EISCONN        106 /* Transport endpoint is already connected */
#define ENOTCONN       107 /* Transport endpoint is not connected */
#define ESHUTDOWN      108 /* Cannot send after transport endpoint shutdown */
#define ETOOMANYREFS   109 /* Too many references: cannot splice */
#define ETIMEDOUT      110 /* Connection timed out */
#define ECONNREFUSED   111 /* Connection refused */
#define EHOSTDOWN      112 /* Host is down */
#define EHOSTUNREACH   113 /* No route to host */
#define EALREADY       114 /* Operation already in progress */
#define EINPROGRESS    115 /* Operation now in progress */
#define ESTALE         116 /* Stale NFS file handle */
#define EUCLEAN        117 /* Structure needs cleaning */
#define ENOTNAM        118 /* Not a XENIX named type file */

```

```
#define ENAVAIL      119 /* No XENIX semaphores available */
#define EISNAM      120 /* Is a named type file */
#define EREMOTEIO   121 /* Remote I/O error */
#define EDQUOT      122 /* Quota exceeded */

#define ENOMEDIUM   123 /* No medium found */
#define EMEDIUMTYPE 124 /* Wrong medium type */
#define ECANCELED    125 /* Operation Canceled */
#define ENOKEY       126 /* Required key not available */
#define EKEYEXPIRED  127 /* Key has expired */
#define EKEYREVOKED  128 /* Key has been revoked */
#define EKEYREJECTED 129 /* Key was rejected by service */

/* for robust mutexes */
#define EOWNERDEAD  130 /* Owner died */
#define ENOTRECOVERABLE 131 /* State not recoverable */

#endif
```

Posted on 20 March 2009.