

C Socket errno Codes

This chapter defines errno codes returned by the Cisco IOS for S/390 IUCV C socket functions. It includes these sections:

Overview

When an IUCV C socket function completes, the errno value provides additional information about the error reported. errno values are set when the return code is negative.

errno Code Table

The values of errno shown in this table are returned to C socket library applications when the return value is -1:

Table 6-1 **errno Descriptions**

errno Name	Value	Description
EPERM	1	Not owner
ENOENT	2	No such file
ESRCH	3	No such process
EINTR	4	Interrupted system
EIO	5	I/O error
ENXIO	6	No such device
E2BIG	7	Argument list too long
ENOEXEC	8	Exec format error
EBADF	9	Bad file number
ECHILD	10	No children
EAGAIN	11	No more processes
ENOMEM	12	Not enough core
EACCES	13	Permission denied
EFAULT	14	Bad address
ENOTBLK	15	Block device required
EBUSY	16	Mount device busy
EEXIST	17	File exists

Table 6-1 errno Descriptions (Continued)

errno Name	Value	Description
EXDEV	18	Cross-device link
ENODEV	19	No such device
ENOTDIR	20	Not a directory
EISDIR	21	Is a directory
EINVAL	22	Invalid argument
ENFILE	23	File table overflow
EMFILE	24	Too many open file
ENOTTY	25	Not a typewriter
ETXTBSY	26	Text file busy
EFBIG	27	File too large
ENOSPC	28	No space left on
ESPIPE	29	Illegal seek
EROFS	30	Read-only file system
EMLINK	31	Too many links
EPIPE	32	Broken pipe
EWOULDBLOCK	35	Operation would block
EINPROGRESS	36	Operation now in progress
EALREADY	37	Operation already in progress
ENOTSOCK	38	Socket operation on
EDESTADDRREQ	39	Destination address required
EMSGSIZE	40	Message too long
EPROTOYPE	41	Protocol wrong type
ENOPROTOPT	42	Protocol not available
EPROTONOSUPPORT	43	Protocol not supported
ESOCKTNOSUPPORT	44	Socket type not supported
EOPNOTSUPP	45	Operation not supported
EPFNOSUPPORT	46	Protocol family not supported
EAFNOSUPPORT	47	Address family not supported
EADDRINUSE	48	Address already in use
EADDRNOTAVAIL	49	Can't assign requested address
ENETDOWN	50	Network is down
ENETUNREACH	51	Network is unreachable
ENETRESET	52	Network dropped connection
ECONNABORTED	53	Software caused connection
ECONNRESET	54	Connection reset by peer
ENOBUFS	55	No buffer space available

Table 6-1 errno Descriptions (Continued)

errno Name	Value	Description
EISCONN	56	Socket is already connected
ENOTCONN	57	Socket is not connected
ESHUTDOWN	58	Can't send after shutdown
ETOOMANYREFS	59	Too many references
ETIMEDOUT	60	Connection timed out
ECONNREFUSED	61	Connection refused
ELOOP	62	Too many levels of nesting
ENAMETOOLONG	63	File name too long
EHOSTDOWN	64	Host is down
EHOSTUNREACH	65	No route to host
ENOTEMPTY	66	Directory not empty
EPROCLIM	67	Too many processes
EUSERS	68	Too many users
EDQUOT	69	Disc quota exceeded
ESTALE	70	Stale NFS file handle
EREMOTE	71	Too many levels of remote in the path
ENOSTR	72	Device is not a stream
ETIME	73	Timer expired
ENOSR	74	Out of streams resources
ENOMSG	75	No message
EBADMSG	76	Trying to read unreadable message
EIDRM	77	Identifier removed
EDEADLK	78	Deadlock condition
ENOLCK	79	No record locks available
ENONET	80	Machine is not on network
ERREMOTE	81	Object is remote
ENOLINK	82	The link has been severed
EADV	83	ADVERTISE error
ESRMNT	84	SRMOUNT error
ECOMM	85	Communication error
EPROTO	86	Protocol error
EMULTIHOP	87	Multihop attempted
EDOTDOT	88	Cross mount point
EREMCHG	89	Remote address change
EIBMBADCALL	1000	A bad socket-call constant was found in the IUCV header

Table 6-1 errno Descriptions (Continued)

errno Name	Value	Description
EIBMBADPARM	1001	Other IUCV header error, bad length, etc.
EIBMSOCKOUTOFRANGE	1002	Socket number assigned by client interface code (for socket() and accept()) is out of range
EIBMSOCKINUSE	1003	Socket number assigned by client interface code is already in use
EIBMIUCVERR	1004	Request failed due to IUCV error
EIBMCONFLICT	1008	Conflicting call already outstanding on socket
EIBMCANCELLED	1009	Request cancelled via socket function CANCEL request

IPRCODE Table

The codes shown in this table are returned to applications by the IUCV transport and may also be displayed as C socket or macro API return codes:

Table 6-2 IPRCODE Descriptions

IPRCODE	Description
1	Invalid path ID
2	Path quiesced - no sends allowed
3	Message limit exceeded
4	Priority messages not allowed on path
5	Buffer too short for message
6	Fetch protection exception
7	Addressing exception
8	Message ID found, but class/path invalid
9	Message has been purged
10	Message length negative
11	Target is not logged on
12	Target has not declared a buffer
13	Invoker max connections exceeded
14	Target maximum connections exceeded
15	Not authorized to connect to target
16	Invalid CP system service name
17	Invalid function code
18	Invalid message limit
19	Already has declared a buffer
20	Path has been severed
21	Parameter list message not allowed
22	Send list invalid
23	Negative length in list
24	Reserved: VM/SP uses this IPRCODE to flag invalid total list length

Table 6-2 IPRCODE Descriptions (Continued)

IPRCODE	Description
25	PRMMSG and BUF/ANSLIST not allowed
26	Buffer list not double-word aligned
27	Answer list not double-word aligned
28	No control buffer exists

