

peror Messages

This chapter contains the peror messages issued by Cisco IOS for S/390. It includes sections describing peror messages and socket library error messages.

The peror messages included in the peror module in POPEN are described in the following sections:

- Network peror Messages
- Disk peror Messages
- Other peror Messages
- Mail Error Messages
- User Configuration or Subsystem Error Messages
- Socket Library peror Messages

Overview

The peror function generates a message of this form:

```
user supplied string if any: socket library generated string
```

The peror message connect includes a user-supplied string, and Operation already in progress is the socket library generated string:

```
connect : Operation already in progress
```

Network peror Messages

This section lists all network peror messages.

Bad Source Route

Explanation The option field in the IP datagram requests source routing. A list of a sequence of machines that the datagram must visit is in error.

Recommended Action If the host or an intermediate network is down, contact your proper support personnel to bring the host or network back up. If the problem is an unknown or undefined host, check that the host is in the Cisco IOS for S/390 Host Names Table. Insert a host and/or network entry if necessary and reassemble the Host Names Table. Ignore this message if the user inadvertently entered a nonexistent host.

Host Unreachable

Explanation The host is down or does not exist.

Recommended Action If the host or an intermediate network is down, contact your proper support personnel to bring the host or network back up. If the problem is an unknown or undefined host, check that the host is in the Cisco IOS for S/390 Host Names Table. Insert a host and/or network entry if necessary and reassemble the Host Names Table. Ignore this message if the user inadvertently entered a nonexistent host.

Interrupt Received

Explanation An interrupt is received.

Recommended Action None.

Local Net Down

Explanation The local network is down.

Recommended Action None.

Net Unreachable

Explanation The network requested is not reachable.

Recommended Action If the host or an intermediate network is down, contact your proper support personnel to bring the host or network back up. If the problem is an unknown or undefined host, check that the host is in the Cisco IOS for S/390 Host Names Table. Insert a host and/or network entry if necessary and reassemble the Host Names Table. Ignore this message if the user inadvertently entered a nonexistent host.

Network Timeout

Explanation A network time-out occurs.

Recommended Action Check that the network node addressed is on the network and in the Host Names Table (ARPINAMS) and APPCFGxx. Ignore this message if the network addressed does not exist on your network. Monitor these occurrences. If they continue, notify your network specialist for further analysis and identification of the offending remote host.

No Buffer Storage

Explanation The event fails due to a lack of storage.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. If there is a lot of the same kind of storage, a ptask may be looping storage. Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. Raise the region size on the Cisco IOS for S/390 job. Retry the operation again. If the error recurs, contact Customer Support.

Port Unreachable

Explanation The requested port is unavailable at this time.

Recommended Action Check the WTO and JOB logs for related messages to discover the PORT and the host that are unavailable. Verify that the host supports the protocol the PORT is used for. List the user commands that generated this error. Start up a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Retransmitting

Explanation A TCP acknowledgment for a segment is not received and TCP retransmits the segment.

Recommended Action Monitor these occurrences. If they continue, notify your network specialist for further analysis and identification of the offending remote host.

Software Error!

Explanation One of the programs performing this service ABENDED.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action. Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

Source Quench

Explanation An ICMP source quench is sent requesting that the service stop or reduce the transmission of IP datagrams.

TCP Conn Closed

Explanation The TCP connection is closed.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error. Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

TCP Conn Reset

Explanation A condition occurs that forces the software to break the connection.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error. Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Unknown TCP Error

Explanation An unknown TCP error occurs.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error.

Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Disk perror Messages

This section contains all disk perror messages.

Access control violation

Explanation A user requests a resource that the user does not have access to. Access is denied.

DAIR error

Explanation The task fails in dynamic allocation of a resource. This is an SVC99 error.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action. Use the DAIR code to direct your actions.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails, bring it down and back up again. If the error recurs, contact Customer Support.

Dataset not found

Explanation A request is made to read a nonexistent data set.

Recommended Action Retry the task asking for the correct data set. Check to make sure the catalog actually points to a data set. If there is no data set, fix the catalog.

DSN syntax error

Explanation A request was made for a data set name that has illegal syntax.

Recommended Action Retry the task using a valid data set name.

ENQ conflict

Explanation A request is made for a data set owned by another user.

Recommended Action Retry the task later.

Member not found

Explanation A request is made to read a nonexistent PDS member.

Recommended Action Retry the task asking for the correct member.

Not enough disk space

Explanation Either the disk does not have enough space, or the data set has reached its maximum number of extents.

Recommended Action Retry the task asking for more space or an alternate volume that has more space.

Not enough real storage

Explanation Cisco IOS for S/390 runs out of real storage.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. If there is a lot of the same kind of storage, a ptask may be allocating storage in a loop.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. Raise the region size on the Cisco IOS for S/390 job. Retry the operation again. If the error recurs, contact Customer Support.

Not enough TIOT space

Explanation The task runs out of core for the TIOT.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. If there is a lot of the same kind of storage, a ptask may be allocating storage in a loop.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails, bring it down and back up again. Raise the region size on the Cisco IOS for S/390 job. Retry the operation again. If the error recurs, contact Customer Support.

PDYNAL/IDYNAL bug

Explanation The Cisco IOS for S/390 dynamic allocation routines ABEND. The task cannot be completed.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails, bring it down and back up again. If the error recurs, contact Customer Support.

POPEN failed

Explanation The Cisco IOS for S/390 POPEN utility to open a dcb (or ACB) fails.

Recommended Action Check for a correct call to POPEN. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

Software error

Explanation The programs performing the service ABEND. The task cannot be completed.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

SVC99 parm error

Explanation The task sends bad parameters to Cisco IOS for S/390 dynamic allocation routines.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

Unknown disk error

Explanation An unknown disk error occurs.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages that may direct the correct course of action.

Retry the operation first on the current version of Cisco IOS for S/390. If it fails again, bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

VOL/Unit unavailable

Explanation The user requests access to a disk volume or unit that is unavailable.

Recommended Action Check that the volume or unit is on-line. If the user requested a nonexistent volume or unit, ignore this message.

Other perror Messages

This section lists other miscellaneous perror messages.

I/O error cc

Explanation I/O error occurs with a condition code of cc.

Recommended Action Save all output from the job. Contact Customer Support.

No free storage!

Explanation Cisco IOS for S/390 runs out of pcore storage.

Recommended Action Increase the region size for Cisco IOS for S/390. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages.

Retry the operation first on the current version of Cisco IOS for S/390. Retry the operation again. If it fails again, bring Cisco IOS for S/390 down and back up again. Raise the region size on the Cisco IOS for S/390 job. If the error recurs, contact Customer Support.

Mail Error Messages

This section contains common error messages from mail.

Died during transmission

Explanation The Remote host goes down during transmission.

Recommended Action Check that the remote host is running and able to receive mail. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error.

Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Embedded file recursion

Explanation USMTP discovers a recursive unsupported service within Cisco IOS for S/390.

Recommended Action Check related messages in the logs for proper response. Save all output from the Cisco IOS for S/390 job. Contact Customer Support.

Embedded file security failed

Explanation The Mailer encounters a .f= statement specifying an invalid data set name, a data set name that is not cataloged, or the name of a file that the local security system (e.g., RACF, ACF2, CA-TOPSECRET) will not let the Mailer read.

Recommended Action Correct the data set name; verify that it is in the catalog accessible to Cisco IOS for S/390 and that the local security system provides read authority to Cisco IOS for S/390 for that file.

This mail message must have been entered from SPOOL#3 or SPOOL#4. SNDMSG now expands .f= statements itself.

Embedded file unknown

Explanation USMTP cannot get to a file to perform the mail service.

Recommended Action Check related messages in the WTO logs for proper response.

File open fail!!

Explanation Cannot open the mail file data set.

Recommended Action Check related messages in the logs for the data set name. Examine the data set. Contact Customer Support.

Header parsing error

Explanation USMTP has trouble parsing either the X-FROM or X-TO address field.

Recommended Action Check related messages in the WTO logs for the data set name. Examine the data set. Check the X-FROM and X-TO headers for errors. Contact Customer Support.

Host down

Explanation The remote host is down.

Recommended Action Check that the remote host is running and able to receive mail.

Host look up error

Explanation Cisco IOS for S/390 encounters a problem looking up the host.

Recommended Action Check the Cisco IOS for S/390 WTO logs for the mail data set name. Check that the host in the message is on the network. Save all output from the Cisco IOS for S/390 job. Get the list of commands entered by the user that generated this error.

If the problem is an unknown or undefined host, check that the host is in the Cisco IOS for S/390 Host Names Table. Insert the needed host entry if necessary and reassemble the Host Names Table. Ignore this message if the user inadvertently entered a nonexistent host.

Retry the operation. If the problem persists, contact Customer Support.

Internal format error

Explanation An error is encountered with either the X-FROM or X-TO header.

Recommended Action Check related messages in the WTO logs for the data set name. Examine the data set. Check the X-FROM and X-TO headers for errors. Contact Customer Support.

Internal format error Bad fmuid length

Explanation The userid in the X-TO field is longer than eight characters and cannot be a userid on an IBM system. This error message should appear only if the MUNGE(YES) parameter is specified on the SMTP statement in APPCFGxx.

Recommended Action Check related messages in the logs for the data set name. Examine the data set name and userid. Examine the X-TO header for errors. Contact Customer Support.

Internal format error Bad XFROM

Explanation An error is encountered with the X-FROM header.

Recommended Action Check related messages in the logs for the data set name. Examine the data set. Examine the X-FROM header for errors. Contact Customer Support.

Internal format error Bad XTO

Explanation An error is encountered with the X-TO header.

Recommended Action Check related messages in the logs for the data set name. Examine the data set and the X-TO header for errors. Contact Customer Support.

Internal format error No XFROM

Explanation No X-FROM header exists.

Recommended Action Check related messages in the logs for the data set name. Examine the data set for an X-FROM header. Contact Customer Support.

Internal format error No XTO

Explanation No X-TO header exists.

Recommended Action Check related messages in the logs for the data set name. Examine the data set for an X-TO header. Contact Customer Support.

I/O Error reading disk file!!

Explanation An I/O error occurs when USMTP tries to read the mail data set on disk.

Recommended Action Check related messages in the logs for the data set name. Examine the data set. Use ICKDSF and/or EREP to find any problems on the tracks where the mail data set is stored. Contact Customer Support.

No such mailbox

Explanation The Remote sends a 55x reply. This can indicate either bad mailbox name or that the retry errors maximum was exceeded.

Recommended Action Check to make sure that the mailbox name is on the remote host.

No user table!!

Explanation This message may be generated from either of these conditions:

- Module SMTPUSR contains no users or does not exist. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages.
- The SMTPUSR csect cannot be located. Check the ACFETCH load libraries for module SMTPUSR. Read the *Cisco IOS for S/390 Customization Guide* for information on how to create the SMTPUSR module.

Recommended Action Retry the operation. Bring Cisco IOS for S/390 down and back up again. If the error recurs, contact Customer Support.

Not local user

Explanation The remote host states that the user is not a valid user on its system.

Recommended Action Check the validity of the host and user name for the remote host.

Overflow at remote site

Explanation The data transfer overflows the remote hosts buffers.

Recommended Action Retry the transfer.

SMTP protocol error

Explanation The Remote host believes a protocol error occurred.

Recommended Action Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error.

Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Syntax error in mailbox name

Explanation The Remote host encounters an error in the mailbox name.

Recommended Action Check other messages in the logs for related messages. Make sure that the mail message specifies a valid mailbox name.

TCP connection refused

Explanation The remote host refuses to accept a session with Cisco IOS for S/390.

Recommended Action Check the error logs for related messages. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error.

Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Truncated spool file

Explanation The mail file data set is incomplete. A premature end-of-file condition occurred.

Recommended Action Check related messages in the logs for the data set name. Examine the data set. Contact your proper support personnel or Customer Support.

Unexpected reply from remote SMTP

Explanation The Remote host sends an unexpected reply to Cisco IOS for S/390.

Recommended Action Check related messages in the logs for proper response. Save all output from the Cisco IOS for S/390 job. Check the WTO and JOB logs for related messages. Get the list of commands entered by the user that generated this error.

Start a TCPEEP trace using the TELNET, DEBUG, and SYSOUT options. Retry the operation. If the error recurs, try to determine from the trace which host software is misbehaving. Contact Customer Support.

Unknown host

Explanation The Remote host is unknown.

Recommended Action Save all output from the Cisco IOS for S/390 job. Get the list of commands entered by the user that generated this error.

If the problem is an unknown or undefined host, check that the host is in the Cisco IOS for S/390 Host Names Table. Insert the needed host entry if necessary and reassemble the Host Names Table. Ignore this message if the user inadvertently entered a nonexistent host.

Retry the operation. If the problem persists, contact Customer Support.

User Configuration or Subsystem Error Messages

This section lists all the messages that might occur as subclasses to the main message, User Configuration or Subsystem Error. Messages are listed beginning with the most general message.

User Configuration or Subsystem Error

Explanation This error message is generated when a user issues a socket() function call and either the socket configuration is invalid or the socket library encounters a problem when trying to establish a session on behalf of the user with the API. This error message may be followed by another line that provides more insight into the exact cause of the problem. This extra line is generated if the sockcfg.flags element of the socket configuration structure has the EXTERRNOMSG bit set.

errno: ECONFIG

Recommended Action Set the EXTERRNOMSG bit on in the socket configuration and rerun the program. A more descriptive error message should then be generated and the action listed under that message taken.

Access method CVT unavailable User Configuration or Subsystem Error Access method CVT unavailable

Explanation The access method CVT is unavailable at AOPEN time.

errno: ECONFIG / EAPCBECVT

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

AMODE inconsistent with AOPEN User Configuration or Subsystem Error AMODE inconsistent with AOPEN

Explanation The address mode has changed between the time the AOPEN was issued and the time the ACLOSE was issued by the socket library to the API.

errno: ECONFIG / EAPCBEAMD

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

AMTV validity check error User Configuration or Subsystem Error AMTV validity check error

Explanation The access method transfer vector causes an error at either AOPEN or ACLOSE time.

errno: ECONFIG / EAPCBETRV

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

AOPEN/ACLOSE not issued from PRB User Configuration or Subsystem Error AOPEN/ACLOSE not issued from PRB

Explanation The AOPEN issued by the socket library is done when the socket library is not running under a PRB.

errno: ESCONFIG / EAPCBEPRB

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

APCB already closed User Configuration or Subsystem Error APCB already closed

Explanation The APCB issued on the ACLOSE by the socket library to the API is already marked as closed by the API.

errno: ESCONFIG / EAPCBECLS

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

APCB already opened User Configuration or Subsystem Error APCB already opened

Explanation The APCB used by the socket library to open a user session with the API is listed as open by the API.

errno: ESCONFIG / EAPCBEOPN

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

APCB has permanent error User Configuration or Subsystem Error APCB has permanent error

Explanation The APCB used by the socket library to initiate and terminate a user session with the API has been marked with a permanent error by the API.

errno: ESCONFIG / EAPCBEPER

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

APCB is busy User Configuration or Subsystem Error APCB is busy

Explanation The APCB used by the socket library to initiate and terminate user sessions with the API is detected busy by the API at either AOPEN or ACLOSE time.

errno: ESCONFIG / EAPCBEBSY

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

APCB validity check error User Configuration or Subsystem Error APCB validity check error

Explanation The APCB used by the socket library to perform an AOPEN to the API is invalid.

errno: ESCONFIG / EAPCBEVCK

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

API application close failed User Configuration or Subsystem Error API application close failed

Explanation During socket library termination, the ACLOSE issued to the API fails for an unspecified error.

errno: ESCONFIG / EACLOSEFAILED

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

API application open failed User Configuration or Subsystem Error API application open failed

Explanation When opening a session with the API, the socket library encounters an error about which it cannot be more specific.

errno: ESCONFIG / EAOPENFAILED

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Application ID too long User Configuration or Subsystem Error Application ID too long

Explanation The user's socket configuration specifies an application ID that contains more than 8 characters.

errno: ESCONFIG / EAPPLIDTOOLONG

Recommended Action Correct the application ID parameters of the socket configuration, recompile it, and relink the application.

Application ID too short User Configuration or Subsystem Error Application ID too short

Explanation The user's socket configuration specifies an application ID to be used on the opening of the user's session with the API subsystem that had 0 characters.

errno: ESCONFIG / EAPPLIDTOOSHORT

Recommended Action Correct the application ID parameters of the socket configuration, recompile it, and relink the application.

Atexit error User Configuration or Subsystem Error Atexit error

Explanation The user's socket configuration has an error with the library termination exit function.

errno: ESCONFIG / EEXITERROR

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application.

Cannot establish API session User Configuration or Subsystem Error Cannot establish API session

Explanation The socket library cannot establish a user session with the API for an unknown reason.

errno: ESCONFIG / EAPCBEBEG

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Cannot initialize user environment User Configuration or Subsystem Error Cannot initialize user environment

Explanation The API cannot initialize the user environment at AOPEN time.

errno: ESCONFIG / EAPCBEENV

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Cannot release API session User Configuration or Subsystem Error Cannot release API session

Explanation At socket library termination time, the user session cannot be closed due to an internal error with the API.

errno: ESCONFIG / EAPCBEEND

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Close timeout value too big User Configuration or Subsystem Error Close timeout value too big

Explanation The close time-out value of the socket library's configuration is invalid.

errno: ESCONFIG / ECLOSETIMEOUT

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application.

Duplicate session for user User Configuration or Subsystem Error Duplicate session for user

Explanation A duplicate user session with the API is detected when the socket library issues an AOPEN to the API.

errno: ESCONFIG / EAPCBEDUP

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Environment memory free error User Configuration or Subsystem Error Environment memory free error

Explanation During socket library termination the socket library receives an error when trying to free storage that it had allocated.

errno: ESCONFIG / EENVRFREE

Recommended Action Determine the proper operation of the C runtime library.

Errno base error User Configuration or Subsystem Error Errno base error

Explanation The user's socket configuration has an error with the errno base value.

errno: ESCONFIG / EERRNOBASE

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application.

Internal logic error User Configuration or Subsystem Error Internal logic error

Explanation The API encounters an internal logic error while attempting to complete the AOPEN issued by the socket library to initiate a user session with the API.

errno: ESCONFIG / EAPCBELER

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Invalid access method version User Configuration or Subsystem Error Invalid access method version

Explanation The version number of the APCB is not the same as the API.

errno: ESCONFIG / EAPCBEVER

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

Invalid option on AOPEN/ACLOSE User Configuration or Subsystem Error Invalid option on AOPEN/ACLOSE

Explanation The option field of the APCB is invalid when the socket library issues the AOPEN to the API.

errno: ESCONFIG / EAPCBEOPT

Recommended Action Review the installation procedure of the socket library. Particular attention should be paid to the socket configuration variable that the socket library stuffs into the APCB on the AOPEN. Correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, verify the proper operation of the API and Cisco IOS for S/390.

No memory for AOPEN User Configuration or Subsystem Error No memory for AOPEN

Explanation The API lacks the proper amount of storage to initiate another user session.

errno: ESCONFIG / EAPCBEMEM

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, the user should verify the proper operation of the API and Cisco IOS for S/390.

No memory for environment initialization User Configuration or Subsystem Error No memory for environment initialization

Explanation During socket initialization the socket library cannot allocate storage for its environment initialization routine.

errno: ESCONFIG / EENVRALLOC

Recommended Action Try to find out why there is a shortage of storage.

No memory for user initialization User Configuration or Subsystem Error No memory for user initialization

Explanation During socket library initialization, the socket library cannot allocate enough storage to initialize properly.

errno: ESCONFIG / EUSERALLOC

Recommended Action Try to find out why there is a shortage of storage.

No subsystem ID configured User Configuration or Subsystem Error No subsystem ID configured

Explanation The user's socket configuration does not specify a subsystem ID to be used when opening a session with the assembler API subsystem.

errno: ECONFIG / ENOSUBSYSID

Recommended Action Correct the subsystem ID parameter of the socket configuration, recompile it, and relink the application.

Password too long

User Configuration or Subsystem Error Password too long

Explanation The user's socket configuration specifies an application password that contains more than eight characters.

errno: ECONFIG / EPASSWDTOOLONG

Recommended Action Correct the application password parameters of the socket configuration, recompile it, and relink the application.

Password too short User Configuration or Subsystem Error Password too short

Explanation The user's socket configuration specifies an application password that contains zero characters.

errno: ECONFIG / EPASSWDTOOSHORT

Recommended Action Correct the application password parameter of the socket configuration, recompile it, and relink the application.

Service ID too long User Configuration or Subsystem Error Service ID too long

Explanation The user's socket configuration specifies a service ID that is greater than 8 characters.

errno: ECONFIG / ESVCIDTOOLONG

Recommended Action Correct the service ID parameters of the socket configuration, recompile it, and relink the application.

Service ID too short User Configuration or Subsystem Error Service ID too short

Explanation The user's socket configuration specifies a service ID of 0 bytes.

errno: ECONFIG / ESVCIDTOOSHORT

Recommended Action Correct the service ID parameters of the socket configuration, recompile it, and relink the application.

Signal initialization failed User Configuration or Subsystem Error Signal initialization failed

Explanation The signal parameters of the socket configuration are invalid.

errno: ECONFIG / ESIGNAL

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application.

Socket buffering error User Configuration or Subsystem Error Socket buffering error

Explanation The user's socket configuration has an invalid setting in the buffering configuration parameters.

errno: ECONFIG / EBUFFERVALUES

Recommended Action Review the installation procedure of the socket library, correct any configuration information with the socket configuration, recompile it, and relink the application.

Socket descriptor error User Configuration or Subsystem Error socket descriptor error

Explanation The user's socket configuration has an invalid setting dealing with the assignment of socket descriptors.

errno: ECONFIG / ESOCKETVALUES

Recommended Action Review the installation procedure of the socket library, make any necessary corrections to the socket configuration, recompile it, and relink the application.

Subsystem halted User Configuration or Subsystem Error Subsystem halted

Explanation The API subsystem is halted for some reason.

errno: ECONFIG / EAPCBEHLT

Recommended Action Investigate the reason the API is halted and retry the program once it has been restarted.

Subsystem ID too long User Configuration or Subsystem Error Subsystem ID too long

Explanation The user's socket configuration specifies a subsystem ID of more than 4 bytes to be used when opening a session with the assembler API subsystem.

errno: ECONFIG / ESUBSYSIDTOOLONG

Recommended Action Correct the subsystem ID parameter of the socket configuration, recompile it, and relink the application.

Subsystem ID too short User Configuration or Subsystem Error Subsystem ID too short

Explanation The user's socket configuration specifies a subsystem ID of zero bytes to be used when opening a session with the assembler API subsystem.

errno: ECONFIG / ESUBSYSIDTOOSHORT

Recommended Action Correct the subsystem ID parameter of the socket configuration, recompile it, and relink the application.

Subsystem is terminating User Configuration or Subsystem Error Subsystem is terminating

Explanation The API subsystem is terminating execution. No more users can open sessions with it.

errno: ESCONFIG / EAPCBTERM

Recommended Action Determine why the API is terminating and then retry the program once it is running again.

Subsystem not active User Configuration or Subsystem Error Subsystem not active

Explanation The subsystem of the API is not active.

errno: ESCONFIG / EAPCBEACT

Recommended Action Have the operations personnel start the API and Cisco IOS for S/390.

Subsystem not configured User Configuration or Subsystem Error Subsystem not configured

Explanation The subsystem of the API is not configured.

errno: ESCONFIG / EAPCBCFG

Recommended Action Review the installation procedure of the socket library. Pay particular attention to the subsystem ID. Correct any configuration information with the socket configuration, recompile it, and relink the application. If no configuration errors are found, verify the proper operation of the API and Cisco IOS for S/390.

Subsystem not initialized User Configuration or Subsystem Error Subsystem not initialized

Explanation The subsystem of the API and Cisco IOS for S/390 is not initialized at the current time.

errno: ESCONFIG / EAPCBERDY

Recommended Action Verify that the API is running and has properly initialized before retrying the program.

User memory free error User Configuration or Subsystem Error User memory free error

Explanation At socket library termination, the socket library encounters an error when trying to free storage that it had allocated.

errno: ESCONFIG / EUSERFREE

Recommended Action Verify that the C runtime library is functioning properly.

Socket Library perror Messages

This section lists all Socket Library perror messages in alphabetical order.

Address already in use

Explanation The user requests that a particular port number be used locally but this port is being used by another.

errno: ESADDRINUSE

Recommended Action Select another port number or try again later.

Address family not supported by protocol family

Explanation The socket user issues a call that requires a socket name but specifies a socket domain other than AF_INET.

errno: ESAFNOSUPPORT

Recommended Action Ensure that the domain of a socket name specifies AF_INET.

Bad address

Explanation The user passed a pointer to the socket library that points to an area of storage that cannot be accessed by the socket library.

errno: ESFAULT

Recommended Action Verify that the pointer(s) used on the socket function call are valid.

Bad socket number

Explanation A socket call is issued by the user specifying a socket descriptor that is not active. All socket functions have as their first argument the socket descriptor. The socket descriptor is the small integer returned by the socket function.

errno: ESBADF

Recommended Action Ensure that a proper socket descriptor is being passed when this call is issued.

Broken pipe

Explanation A socket that has had its transmit simplex shutdown has had a write request of some form issued to it. Write requests include send(), sendto(), sendmsg(), write(), and writev().

errno: ESKPIPE

Recommended Action Change this programming tactic.

Can't assign requested address

Explanation The name passed by a user to the socket library is invalid. Typically either the port is 0 or the address equals INADDR_ANY.

errno: ESADDRNOTAVAIL

Recommended Action Verify that a valid socket name is being passed to the failing function.

Can't send after socket shutdown

Explanation After shutting down a socket, the user attempts to transfer data. This error message is generated because the error code is never set by the socket library.

errno: ESSHUTDOWN

Connection refused

Explanation The connect request initiated by a connect() function call is refused by the remote system.

errno: ECONNREFUSED

Recommended Action Verify that the connect request is formatted properly and if the failure still occurs, verify that the remote system is functioning properly.

Connection reset by peer

Explanation The remote endpoint reset the connection for some unknown reason.

errno: ECONNRESET

Recommended Action Check the remote system and then try to solve the problem.

Connection timed out

Explanation The connection has timed out. The socket should be closed and then recreated and the connection re-established.

errno: ETIMEDOUT

Recommended Action Close the socket and then reopen it and re-establish the connection.

Destination address required

Explanation A send request of some form is issued on a socket operating in connectionless mode but the user does not pass the socket library the name of the remote endpoint to send the data to.

errno: EDESTADDRREQ

Recommended Action Either use a connection or association-base socket or ensure that either the function sendto() or sendmsg() be used and a name of the remote endpoint specified.

Destination unreachable

Explanation The remote destination is currently unreachable.

errno: ESDESTUNREACH

Recommended Action Determine the network problem that made the destination unreachable and then try again.

Host is down

Explanation The remote host to which the user is trying to establish a connection or transfer data to and from is not currently operating on the network. This error message is generated because the error code is never set.

errno: ESHOSTDOWN

Recommended Action Wait for the system to become operational.

Host is unreachable

Explanation The remote host of a connection or the remote host to which data is being transferred is unreachable.

errno: ESHOSTUNREACH

Recommended Action Ensure this is the case and then wait for the remote system to become reachable via the network.

I/O error

Explanation A socket call encounters an I/O error. This error message should never be generated because the error code is never set.

errno: ESIO

Interrupted system call

Explanation A system call is interrupted. This error message should never be issued because the error code is never set.

errno: ESINTR

Invalid argument

Explanation This error message is generated for a number of reasons. The reasons are listed in the Cisco IOS for S/390 Assembler API Macro Reference in the section covering each function.

errno: ESINVAL

Recommended Action Find out which socket function is being called at the time of the error and refer to the Cisco IOS for S/390 Assembler API Macro Reference for specific information.

Message too long

Explanation The user issues a send request of some form on a socket that maintains message boundaries but the length of the message exceeds either the maximum allowable message or the maximum allowable message based on the current buffer space allocations.

errno: EMSGSIZE

Recommended Action Either decrease the size of the send request or, if buffer allocations are the restricting factor, increase buffer allocation.

Network dropped connection on reset

Explanation A network problem forces the connection to the remote endpoint to be terminated. This error message is never generated because the error code is not set by the socket library.

errno: ESNETRESET

Recommended Action Determine the problem with the network and retry.

Network flow control

Explanation The network is congested and the local user should slow his transmission rate to help alleviate the congestion.

errno: ESNETOVERRUN

Recommended Action Adjust the data transmission rate to lessen network congestion.

Network is down

Explanation The local network interface is not operational. This error message is never generated because the error code is not set by the socket library.

errno: ESNETDOWN

Recommended Action The local network interface must be placed on-line and a retry initiated.

Network is unreachable

Explanation The remote endpoint cannot be reached because the remote network is unreachable. This error message is never generated because the error code is not set by the socket library.

errno: ESNETUNREACH

Recommended Action Check that correct remote endpoint is being used; if so, try to find out why the remote network is unreachable.

No buffer space available

Explanation The function called cannot acquire the proper amount of buffer space necessary to complete execution of the request. The request is aborted abnormally.

errno: ESNOBUFFS

Recommended Action Try to determine the reason for a lack of storage. This type of problem may be caused by a piece of software that is allocating storage and never freeing it.

No error

Explanation No error occurs within the socket library.

Not enough memory

Explanation Storage cannot be allocated to complete the request.

errno: ESNOMEM

Recommended Action Determine the reason for lack of storage.

Operation already in progress

Explanation The user issues a call to the socket library of a type that the socket is trying to complete on a previous call.

errno: ESALREADY

Recommended Action Wait, using `select()`, to determine when it is proper to issue another call of this type.

Operation not supported on socket

Explanation The user issues a socket function that is not supported by this type of socket. Cases of this error are issuing a `listen()`, `accept()`, or `connect()` function on a connectionless socket.

errno: ESOPNOTSUPP

Recommended Action The socket user should determine the type of socket being used and verify that the proper functions are being issued to it.

Operation now in progress

Explanation A request issued to the socket library has been initiated by the library and the user can determine when it is complete by using the `select()` function call.

errno: ESINPROGRESS

Recommended Action The user can issue a `select()` call to determine when the request has completed.

Operation would block

Explanation An operation requested on a socket that has had the nonblocking I/O option set would block the caller until some network related event occurs.

errno: ESWOULDBLOCK

Recommended Action This is more a warning than an error. Issue the request at some later time. Depending on the request, the user can issue a `select()` function call to determine when this time is.

Option not supported by protocol

Explanation The selected option for a setsockopt() or getsockopt() function call is not supported by the protocol layers. This message should not be generated because the error code is not currently set by the socket library.

errno: ESNOPROTOOPT

Recommended Action Verify that the proper options are being passed to this function.

Permission denied

Explanation The user does not have the proper authorization to make the request.

errno: ESACCESS

Recommended Action Determine the authorization to use the resource and then retry.

Protocol family not supported

Explanation This error message is never generated because the error code is never set.

errno: ESPFNOSUPPORT

Protocol not supported

Explanation The user issues a socket() and specifies a socket type that is not supported.

errno: ESPROTONOSUPPORT

Recommended Action Verify that the proper arguments are being passed to the socket() function.

Protocol wrong type for socket

Explanation The user issues a socket() function specifying both a socket type and a protocol to use. No support for a socket of this type is allowed.

errno: ESPROTOTYPE

Recommended Action Determine the correct settings for the arguments to the socket() function.

Socket is already connected

Explanation The user tries to issue a connect() function call on a socket that is already connected or to transfer data on a connected or associated socket and the user passes a name to send the data to.

errno: ESISCONN

Recommended Action Ensure that the user application is issuing the connect or send request on the proper socket.

Socket is not connected

Explanation The user tries to transfer data on a socket that requires connections but has not yet been connected.

errno: ESNOTCONN

Recommended Action First issue a connect() function call and then transfer data.

Socket operation on non-socket

Explanation The user issues a request on a file descriptor when the request can only be performed on a socket. This message should never be generated.

errno: ESNOTSOCK

Recommended Action Verify that the proper file or socket descriptor is being used.

Socket table overflow

Explanation The user has too many open sockets at the present time.

errno: ESNFILE

Recommended Action Close some of the sockets or modify the socket configuration to allow more sockets per user.

Socket type not supported

Explanation The error message should not be generated because the error code is never set.

errno: ESSOCKTNOSUPPORT

Software caused connection abort

Explanation The connection was aborted by either the local or remote endpoint.

errno: ESCONNABORTED

Recommended Action If this error persists the user should verify the proper operation of Cisco IOS for S/390 and the remote system that is being used.

System Related Error

Explanation This error is generated if the API or Cisco IOS for S/390 is stopped or terminated when a program using sockets is being executed. It may also be caused if the assembler API returns an error code to the socket library for which the socket library is not prepared.

errno: ESSYS

Recommended Action First determine that the API and Cisco IOS for S/390 are still functioning. If this is so and the error occurs repeatedly, contact Customer Support.

Too many open sockets

Explanation The user has too many open sockets at the present time.

errno: ESMFILE

Recommended Action Close some of the sockets or modify the socket configuration to allow more sockets per user.

Transport provider ended

Explanation The Cisco IOS for S/390 subsystem has been stopped by an operator command or has terminated abnormally.

errno: ESTPEND

Recommended Action The socketterm() function should be called to close all open sockets.

API ended

Explanation The API has been stopped by an operator command or has terminated abnormally.

errno: ESAPEND

Recommended Action The socketterm() function should be called to close all open sockets.