

A z/OS UNIX syscall typically returns three values:

- Return value: set to -1 (x'FFFFFFFF'), if an error condition is found
- Return code (errno): integer value associated with generic error condition
- Reason code (errnojr/errno2): four-byte value that provides specific information about failure

If the return value is -1, check the errno and errnojr values for details about the error. Usually, the errno values correspond to standard POSIX errors and aren't very helpful. On the other hand, the errnojr values (CCCCRRRR) provide a more descriptive meaning of the failure. The first two bytes (CCCC) are the reason code qualifier, which identifies the failing component. If the reason code qualifier is between 0-20FF, the reason code is from z/OS UNIX. The second two bytes (RRRR) are the reason code value.

The **BPXMTEXT** utility can quickly interpret z/OS UNIX errnojr values. Find BPXMTEXT in **SYS1.SBPXEXEC** and copy it to SYSEXEC or SYSPROC to use it. You can invoke it from TSO/E, IPCS, or the z/OS UNIX shell. In **z/OS V1R8**, you can use BPXMTEXT to interpret errnojr values from zFS (reason code qualifier=EFxx) and TCP/IP (reason code qualifier=7xxx). In **z/OS V1R9**, you can also interpret errnojr values from the C/C++ run-time library (reason code qualifier=Cxxx). For more details about interpreting errno and errnojr values,

See **"old standby"** *z/OS UNIX System Services Messages and Codes*, SA22-7807.

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