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Report 12

This report summarizes the man command result of the commands *select(), poll(),* and *epoll_wait().* These three commands are the key commands required in concurrent programming.

select(): Select() allows a program to monitor multiple file descriptors, waiting until one or more of the file descriptors become "ready" for some class of I/O operation. A ready file descriptor should be able to perform a corresponding I/O operation such as *read()* and *write().* This command returns the number of ready file descriptors.

poll(): Poll() performs similarly as *select().* It waits for one of a set of file descriptors to become ready to perform I/O. The set of file descriptors to be monitored is specified by a structure which includes the file descriptor, requested event, and returned events. On success, a positive number representing the number of file descriptors that are ready. -1 is returned if an error has occurred.

epoll_wait(): epoll_wait() waits for an I/O event on an epoll file descriptor *epfd*. An *events* structure will contain the events that are available for the caller and up to *maxevents* of events are returned by epoll_wait(). *Maxevents* must be greater than zero. When successful, this command returns the number of file descriptors ready for the requested I/O.

These commands are helpful in knowing the number of file descriptors ready for I/O, especially in servers with several client connections.