

Exp# 5b

who | wc -l

Aim

To determine number of users logged in using pipe.

Algorithm

1. Declare a array *pfds* with two elements for pipe descriptors.
2. Create pipe on *pfds* using pipe function call.
 - a. If return value is -1 then stop
3. Using fork system call, create a child process.
4. Free the standard output (1) using close system call to redirect the output to pipe.
5. Make a copy of write end of the pipe using dup system call.
6. Execute who command using execlp system call.
7. Free the standard input (0) using close system call in the other process.
8. Make a close of read end of the pipe using dup system call.
9. Execute wc -l command using execlp system call.
10. Stop

Result

Thus standard output of who is connected to standard input of wc using pipe to compute number of users logged in.