

College of Engineering, Pune
Dept of Computer Engineering and Information Technology
Year (Final B.Tech)
Advanced Unix Programming (AUP)
Lab 8

Write a program to implement the following:

- 1. Create a new system call wait2, which extends the wait system call.**

int wait2(int *wtime, int *rtime, int *iotime)

Where the three arguments are pointers to integers to which the wait2 function will assign:

- a. The aggregated number of clock ticks during which the process waited (was able to run but did not get CPU)**
- b. The aggregated number of clock ticks during which the process was running**
- c. The aggregated number of clock ticks during which the process was waiting for I/O (was not able to run).**

The wait2 function shall return the pid of the child process caught or -1 upon failure

- 2. Call fork. Let the child create a new session. Verify that the child becomes the process group leader and it does not have a controlling terminal.**

- 3. Write a program to verify that a parent process can change the process group ID of one of its children before the child performs an exec(), but not afterward.**