Report

To check the performance of different schedulling algorithms we made a test program which creates 10 processes, with increasing IO time and decreasing CPU burst time as the creation time increases.

Outcome

Total time taken for different Algorithms: Round Robin Schedulling := 2011 ticks FCFS Schedulling := 3484 ticks PBS Schedulling := 2044 ticks MLFQ Schedulling := 2049 ticks

---

Conclusion

Round Robin Schedulling is premptive and yields after every clock cycle and thus has better results.

1. MLFQ Schedulling makes IO processes to run in higher priority queues and CPU bound processes to lower prioirty queues and thus it also gives good results. Processes can exploit this algorithm as it can sleep itself just before a the time slice of a queue and thus it reschedules itself in the same queue forever.
2. PBS Schedulling gives higher priority to IO processes hence the run first and gives good result.
3. FCFS Schedulling is the worst among the given Algorithms and much more time than other three. So to sum up the results the efficiency of different algorithms will be in the order: FCFS < RR <= PBS <= MLFQ

Bonus

The graph is included as graph.png

This shows that IO bound processes are scheduled in Queues of higher priority(0-1) and CPU bound processes are scheduled in lower priority queues(3-4).