

# Comparison Between different scheduling algorithm

A benchmark program was run which runs for at least 25 - 30 seconds and following values of waittime(in ticks) of the program was noted using different scheduling algorithm.

DEFAULT — 4267

FCFS — 4854

PBS — 4392

MLFQ — 4118

- 1) FCFS is waiting for the largest time as there is no preemption and if a process with larger time comes first all the rest processes have to starve for cpu execution.
- 2) PBS is DEFAULT are almost same as we have given same priority to all processes in PBS , so it would also act as default round robin and as round robin has preemption of processes after every particular time slice so not process would starve for CPU. Thus, its time is less than FCFS.
- 3) MLFQ has the least time as there are many queues with different priorities and a process which takes more CPU time is shifted to less priority queue and also prevents starvation by aging i.e shifting to upper queues after some fixed time. Thus , it takes the least time.