Time Quantum Scheduling Algorithm

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Abstract:

Round Robin scheduling algorithm is a preemptive CPU scheduling algorithm which switches between the processes when static time quantum expires. In Round Robin scheduling algorithm the time quantum is fixed and process are scheduled in such a way that no process get CPU time more than one time quantum in one go. Round Robin scheduling algorithm is designed especially for time sharing operating system but it has its disadvantages that are its Longer Average Waiting Time, Higher Context Switches and Higher Turnaround Time. In this scheduling algorithm the main idea is to adjust the time quantum dynamically so that (AMMRR) perform better performance than Round Robin scheduling algorithm.

Keywords: Operating System, Round Robin, Average Mid Max Round Robin, Turnaround time, waiting time, Context Switch.