

Scheduling

- Goals of CPU scheduling
 - **Fairness**: each process receives fair share of CPU
 - **Throughput**: maximize jobs completed per hour
 - **Turnaround time**: minimize time between submission and completion
 - **Efficiency**: minimize context switches
 - **Response time**: minimize starvation, get response soon
- Scheduling Algorithms
 - **First Come First Serve (FCFS)**: FIFO. Average waiting time quite long
 - **Shortest Job First (SJB)**: Choose the process with the shortest processing time. Probably optimal average wait time
 - **Round Robin (RR)**: Circular. Each process is allowed to run for time quantum q before being pre-empted and put back on queue
 - **Priority Scheduling**: Highest priority job is selected from ready queue