

Outline for October 14, 2008

1. Kinds of process schedulers
 - a. Long-term scheduler
 - b. Short-term scheduler
 - c. Medium-term scheduler
2. Scheduling considerations and overview
 - a. Metrics: throughput, turnaround, response, resource use, waiting time, consistency
 - b. Distinguishing characteristics of processes
 - i. Priority
 - ii. Anticipated resource need (including running time)
 - iii. Running time
 - iv. Resources used so far
 - v. Interactive/non-interactive
 - vi. Frequency of I/O requests
 - vii. Time spent waiting for service
3. Universal scheduler
4. Some scheduling algorithms
 - a. First come first serve (FCFS)
 - b. Shortest process next (SPN), preemptive shortest process next (PSPN)
 - c. Round robin (RR)
 - d. Multilevel Feedback Queue (MLFB)
5. External priority methods
 - a. Deadline scheduling