Scheduling

Monday, 27 February 2023 7:18 PM

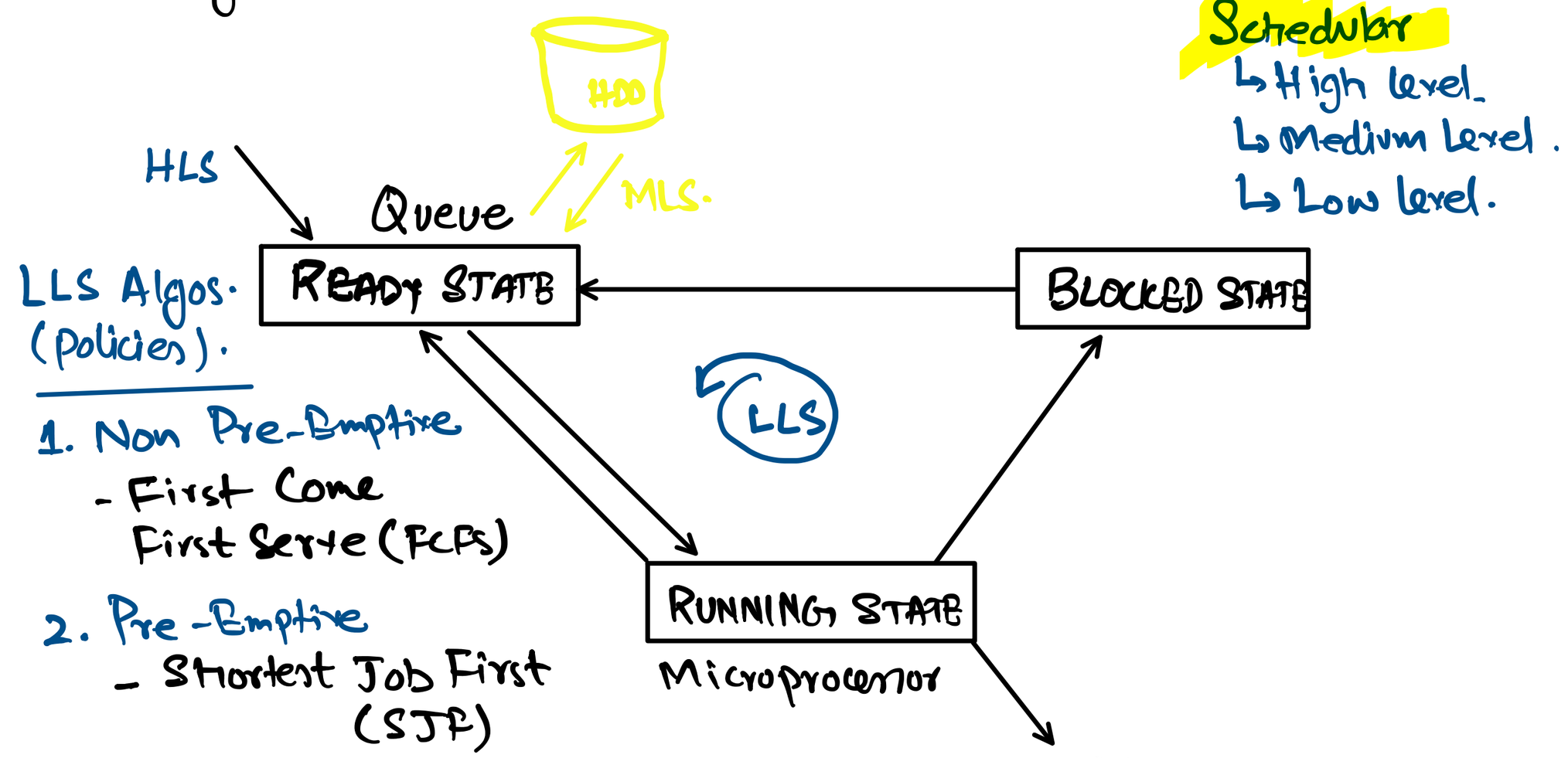
- Program
- Job / Task
- Procen
- multiprogramming
- multitasking.

Objectives
↳ Criteria
Policies (Algo.)

Criteria:

1. Realtime & Batch
2. Resources used so far
3. Resources required.
4. Processor bound vs. I/O bound job.

Scheduler
↳ High level.
↳ Medium level.
↳ Low level.



1. Non Pre-Emptive
   - First Come First Serve (FCFS)
2. Pre-Emptive
   - Shortest Job First (SJF)

- When the job enters the system, it goes to the Q as per it size.
- When the job enters the Q, back from running state, it goes to the back of the queue.

- Shortest Remaining Time (SRT) (Biased)

80 inst.
100 inst.
UP 100 − 30 = 70 inst.

- When the enters the ready queue, whether from running or for the first time, it goes to the position as per its curr. size
- The job that backs from the running state gets shorten for me. Thus sometimes it becomes shorter than the new job & gets back to the running state.

- Round Robin (RR):

Every job is given same amount of time.