MLQ - Multilevel Queue Scheduling (preemptive)

Associate a priority with each thread and execute highest priority thread first. If same priority, do round-robin.



- Problem I: starvation of low priority thread
- Problem 2: (possibly) starvation of high priority thread
- Problem 3: how to decide on the priority?

MLQ - Starvation of high priority thread

- 1. TI (low priority) starts, runs and acquires the lock 1
- 2. T2 (medium priority) starts, preempts the CPU and runs
- 3. T3 (high priority) starts, preempts the CPU, runs but gets blocked while trying to acquire the lock 1
- 4. T2 is elected to run (highest priority thread to be ready to run)
- Problem: starvation of a high priority thread
- √ Solution : priority donation