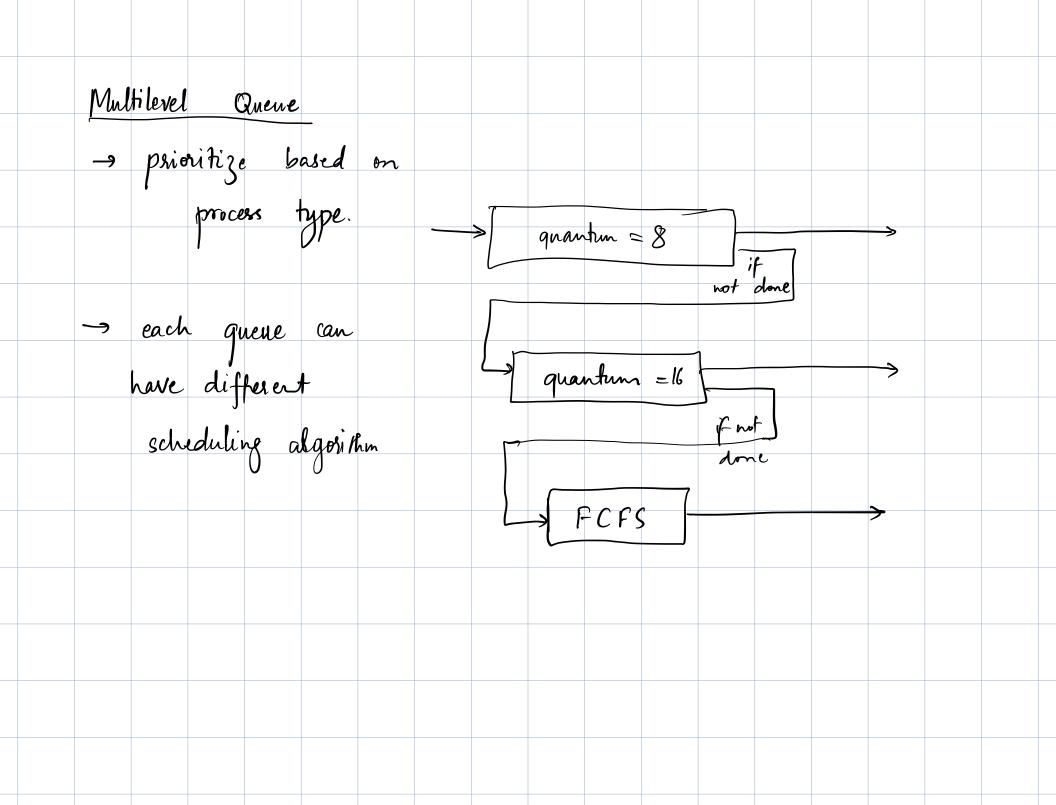


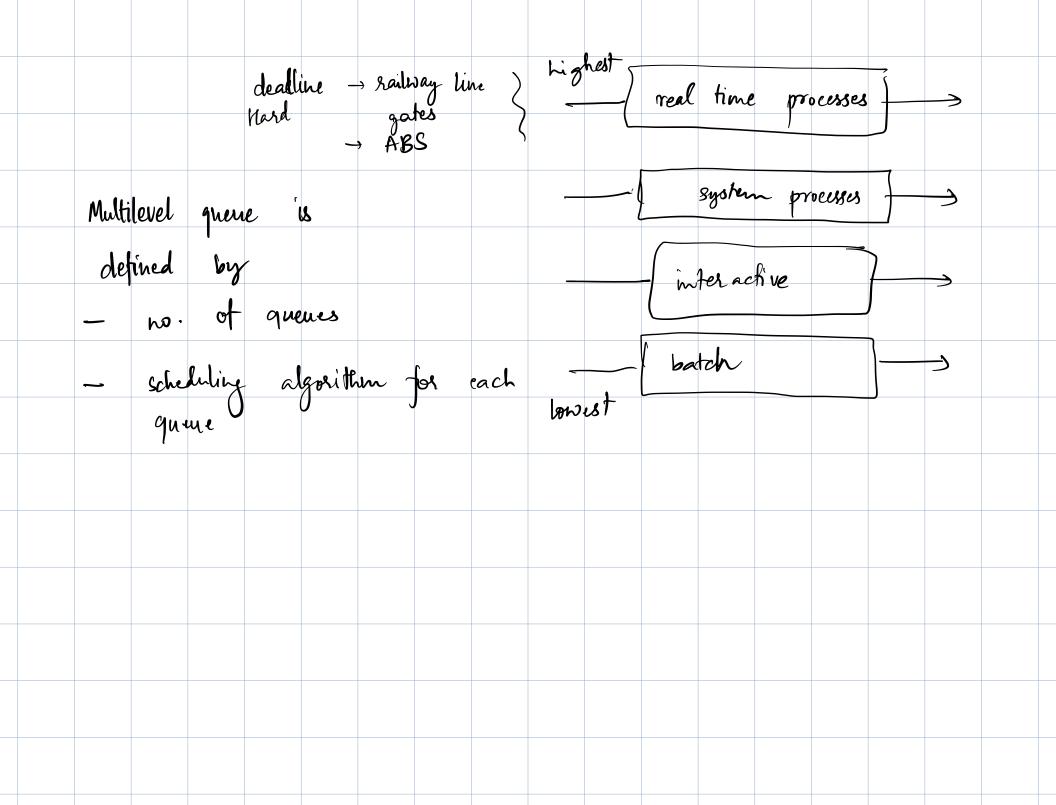
Scheduling criteria when is time wasted? > keep CPU buzy -> CPU utilization -> Context switching -> throughput - # of processes -> Turnaround -> Walting → Response SJF FCFS -> theoretically best bad furnaround time  $\rightarrow$  less predictable estimation itself is an overhead shortest Remaining Time First -> starvation : smaller jobs keep arriving

scheduler is P1 P2 P3 Pч also a program Schedules where? -> rans on the same CPU Ready guene P1  $P_2$   $P_3$   $P_4$ CPU -> timer creates interrupt at regular intervals (time grantum) scheduler P1 ignored ? Scheduler usually for ? switch simply analysis

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807. CPU brust > 9 fork and phread\_create -> create new process System call to > pasent has invoke > to wait due to scheduler > overhead celled by a process sunning in the CPU In Windows: pthread\_create: lighter than fork Priority scheduling -> starvation low priority processes -> solution: aging - RR : if same priority





Single process scheduling Thread scheduling ~> distinction b/w user level and kernel level threads → APT  $\rightarrow M - to - one & M - to - M models$ thread library schedules user - level threads to san on LWP -> process confention scope VT multiple threads VS compute (within a virtual process) process - LWP KT KS

-> Pthread Scheduling APJ Next class: multiple coses scheduling