- 1. Good Evening 2. We will begin at 9:10 pm.
- 3. Introduction to Mucads.

Agenda

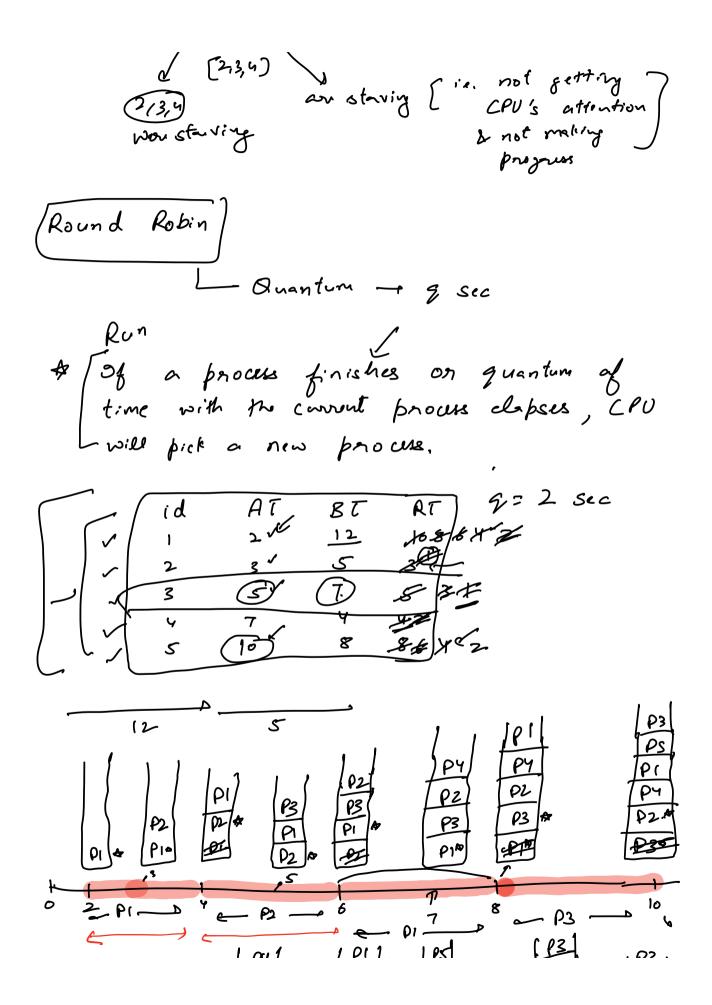
- Stanuation in FCFS & SRTF
- Round Robin
- Threads - Introtudation Single core VS Multicore

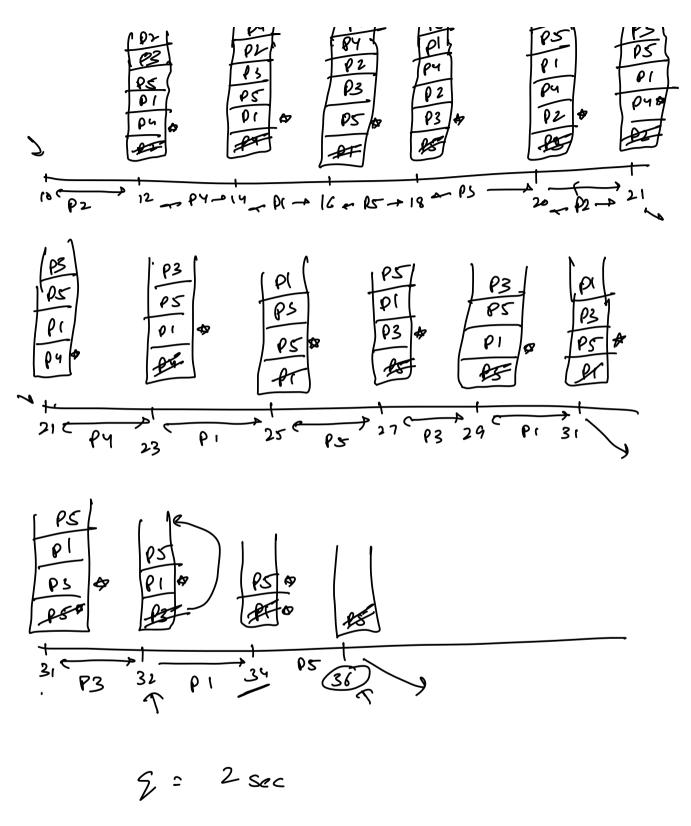
 Concurrency VS Parallelism

 Code [wing Java] Li Indroduce Thread

 Li Hello Ward via threads Eal

 Print 1 to 100 via threads Ex2





3 x 10° glz cycles per second

Round Robin Pardial?
Staning?
Simple [9 = 30 Seconds] - FCFS [Stanuation] 9 = 0.000 2 seconds More Context Switching Program Counter = 9,2 2 x 10 9 sec

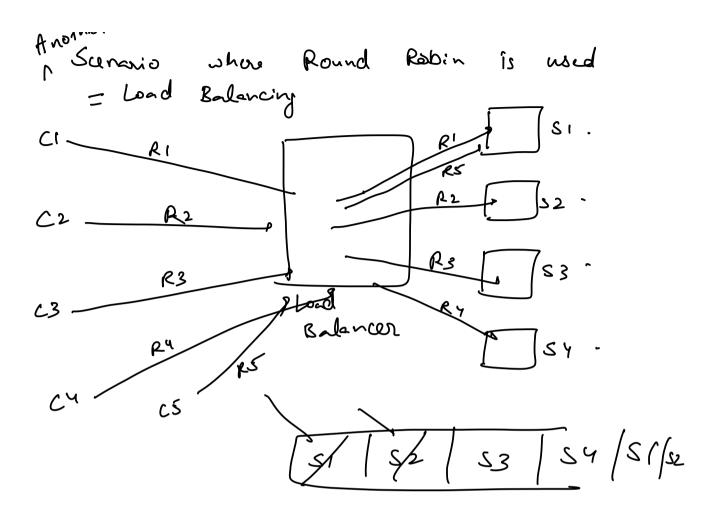
Appropriate quantum is required

~ (10 seconds) - RR algorithm Throughput I If of processes completed per unit of time 5/21 = 0.14 process/second Latency - Time taken by a process
from arrival till finish

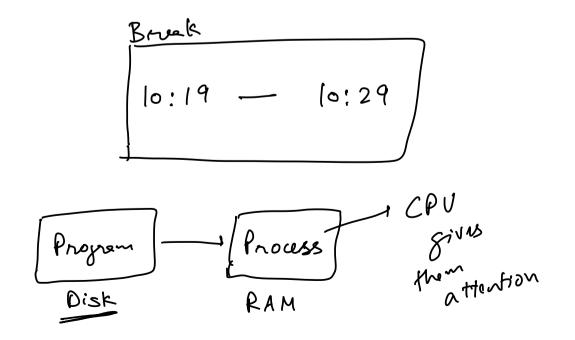
SRTF & RR which one has higher latercy?

Latency vs Stanation

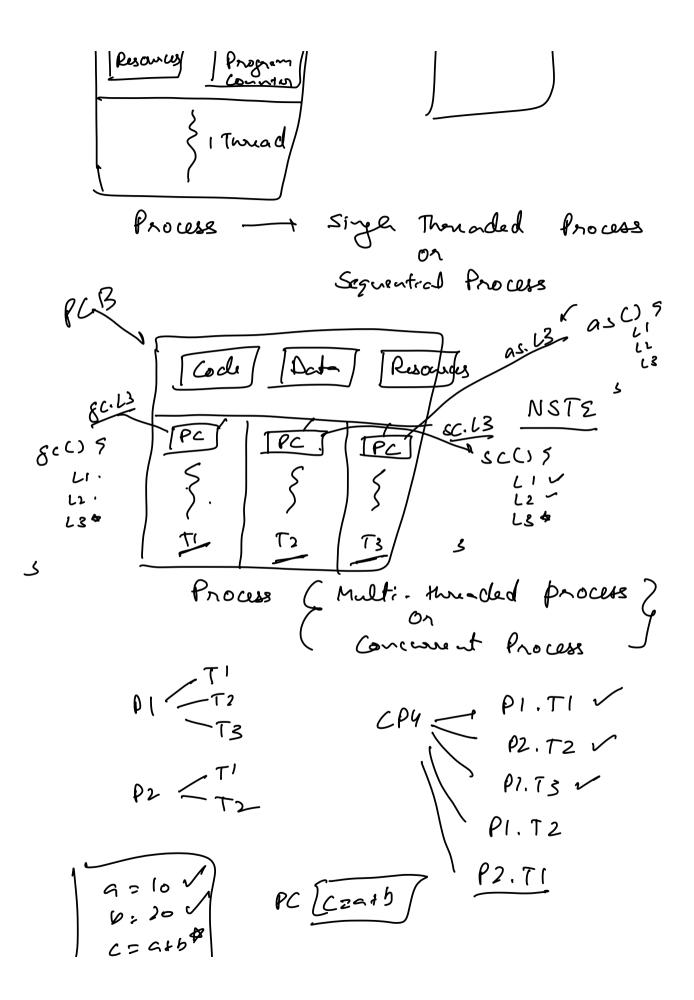
NYYY

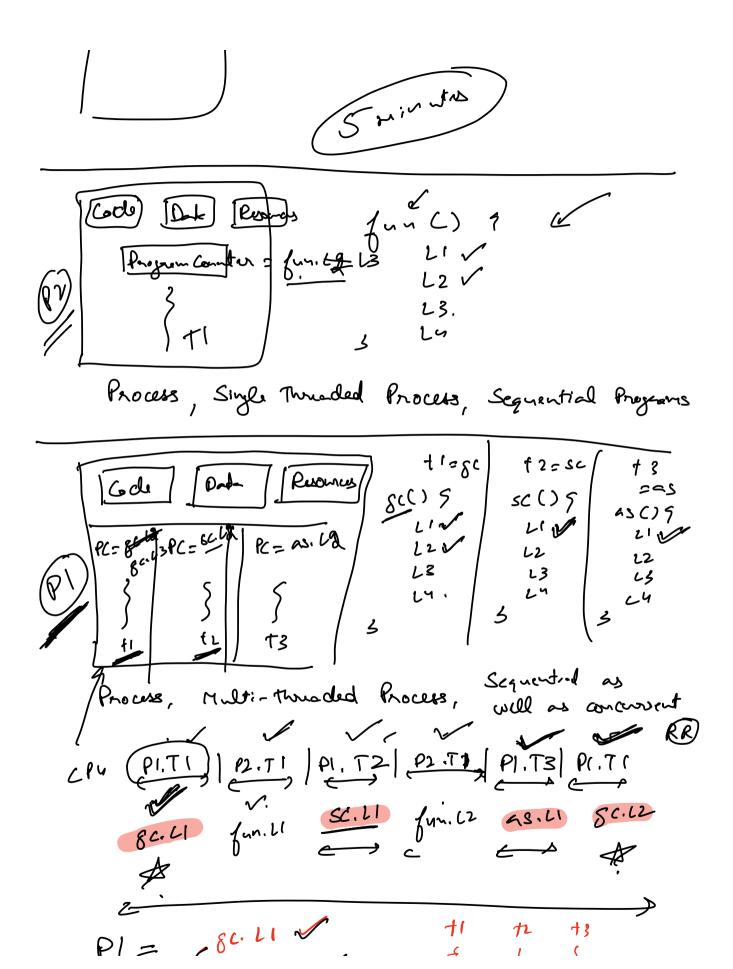


Introduction to Threads



Word Processor — Shows you you input - UI Display → Spel Check -> Gramman check - Ando Sysset fun () 7 main() 211/ L21 V 131 V LUIV Sevial on Sequential Thread Unit of CPU execution Code [Data]

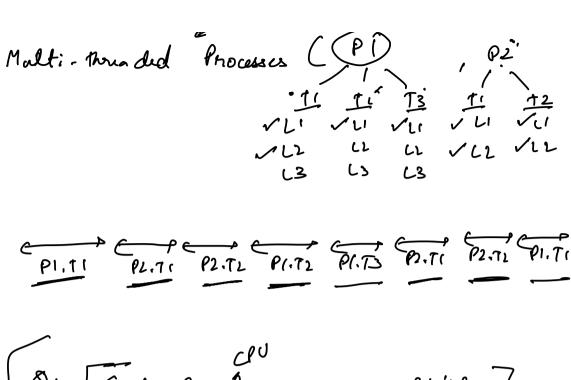


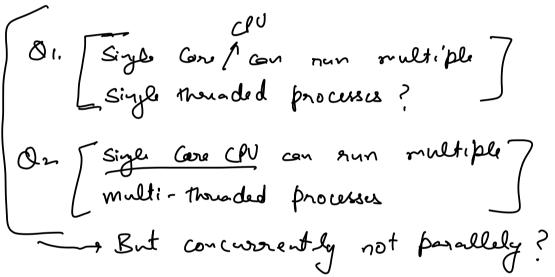


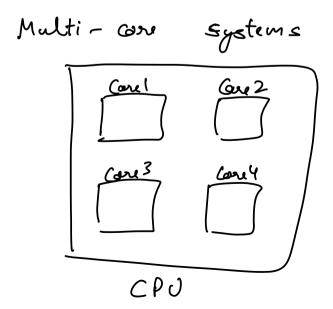
Concurrent us Parallel J. Sigle Con us Multi Core CORS - Executing unit within CPU Single Core CPUs can

Single Concurrency 1.e.

Multiple processes and CPU < different stages of execution but none of them is nunning at Same time Singer Thursdad Procuses (PI, P2, P5)







Multi-mud multiple processes

TI 72 T3

VIII 2121 VI3D

L112 L122 L132

L113 L123 L133

 P3 T1 VL3D L3P2 L313

C1 P1T1

C2 P2T2

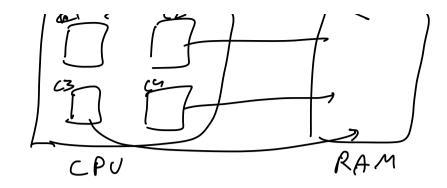
C3 P3T1

CY P1T3

Con corred

Parallel

- 1. Are multiple processes in different states of execution in both of them?
- 2. Can multiple processes make progress at some time in both of them? No only in paullel
- CPU nons processes



Thread us Process

WP 1C SC AS Display

Wark - Divide it for concurred/paralled exention

should we onete separate processes or separate threads?

Related tasks - likely to show date - Procuss

