Shortest-Job Forst Scheduling algorithm [SJF]

Associal Process Buses time

P1 3 RAH

P2 2 RAH

P3 3 6 P4 1 3 P2 (2)

P4 P5 (3)

Execution time

P1 P2 P4 P5 P3

Time associating

P2 P4 P5 P3

Time associating

P3 P2 P4 P5 P3

Time associating

P4 P5 P3

Time associating

P5 P2 P4 P5 P3

Time associating

P6 CPU will be idle. Sk-now

P5 Since P1 coopered at time 2, forom 0 +0 2 CPU will be idle. Sk-now

P6 CPU will be idle. Sk-now

Since P₁ associety at time 2, forom 0 to 2 CPU while 2 only P₁ is in RAN and no process has been assirted y executing.

ii) Thile P₁ is executing at 3 time interval P₂ 2, Associety the time interval P₃ 1 Associety than the RAN

But it has to wait tall P₁ is executing.

But it has to wait tall P₂ is executing.

But it has to wait tall P₁ is executing.

P₂ >> given peoples

(I finishes at 5th samong P₂ and P₃

(I finishes at 5th samong P₂ arowings to the CPU and (I least burst time). So at 5th, P₂ arowings to the CPU and

i) thile P2 is executing at 6th time => P4 about 28 the RAH.

b) After P2, arrong P4 and P3; P4= given perference (loss burst time)

vi) P4 finishes at 8th, at 8th P5 about 28 to RAH.

vi) P4 finishes at 8th, at 8th P5 about 28 to RAH.

vi) Among P5 and P3; P5=> given preference (loss burst time)

vii) At last P3 is garaining in RAH and it will execute

Daiting time Arrival time of the powers in RAM Daiting & process assumed time of the CPU raiting time floor, $\rho_i \implies 2-2 \Rightarrow 0$ P2 => 5-3 > 2 Then P_4 ends at $\frac{8}{2}$ and P_5 Ps -> 18-4 -> 6 asonies at 8 with loss best time P4 => 7-6 => 1 it doesn't wait at -all, Immediately it starts executing. Ps => 8-8 => 0. Tion-around & Waiting + Burst + I/o 10 In this og: assume that no process is doing time time I/o openation Twon-assound time: Two-assered Thorough-put Ly Number of process completed time poor P, = 0+3 = 3 Schedule length P2 => 2+2 => 4 => 5 | berocass agre P3 >6+3 >9 completed in unit time P4 => 1+1=> 2 P5 => 0+2=> 2 spourd time of (empletion time the 1st process of the last parties

南 13-2 司 11