March
WEEK 11

January 2017

M	30	2	9	16	23	
T	31	3	10	17	24	
W		4	11	18	25	
T		5	12	19	26	
F		6	13	20	27	
S		7	14	21	28	
S	1	8	15	22	29	

February 2017

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13 Monday 072/293

Canberra Day (ACT-Aust) Labour Day (Vic-Aust)
Eight Hours Day (Tas-Aust) March Holiday†† (Adelaide Cup) (SA-Aust) Anniv. Day (Taranaki-NZ)*

8.00 am
8.30 **Process Scheduling**

9.00 lecture from video lectures
9.30 What is Control Variable???
↳ main problem
If is the Science termonolgy??
10.00
10.30 Critical region
↳ where race condition is
11.00 arisen?
11.30 Process Schedulling ??
Noon ↳ How to select the process??
↳ content switch
12.30 **Process Behaviour**
1.00 Short CPU Bursts
↳ How much time process
1.30 keep the cpu inside
↳ when the I/O comes
2.00 till time.

2.30 interactive Program have short cpu
burst like taking I/O from user
3.00 CPU tell OS to take I/O
From user
3.30
Fib → dont need to I/O
4.00 until the result.
4.30
→ long CPU burst between I/o request
5.00
6.00 pm

8.00 am

8.30

9.00

9.30

10.00

10.30

11.00

11.30

Noon

12.30

1.00

1.30

2.00

2.30

3.00

3.30

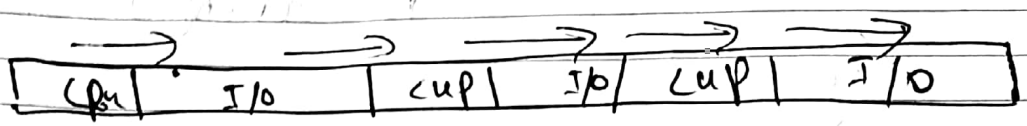
4.00

4.30

5.00

6.00 pm

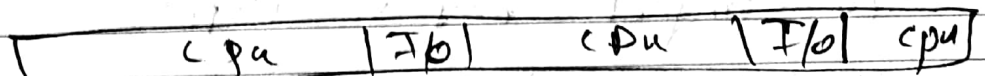
It means that long cpu burst like calculating 2000 fib because no need to take Input from user code itself recursive call then it will take long time



This diagram represent first we This Program used small time cpu then wait for the I/O and also wait in the ready Queue for Bhari ka wait karnay ki liye is liye innay I/O cpu bound process kehty Hai

long cpu Burst => ko cpu-bound process kehty Hai

diagram



Process Scheduling

-> Maximise of cpu and Improve throughput

=> Some process run for long time we should to prempt for the other process

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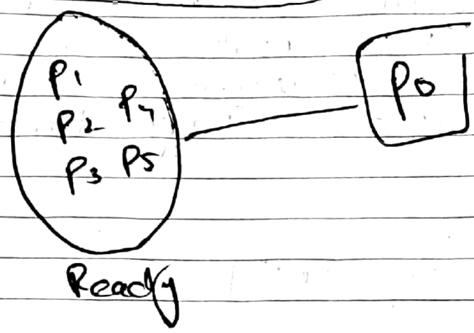
15 Wednesday 074/291

8.00 am

Process Scedular

8.30



9.00 Have main How we select / How Schedular select Process

9.30 Two thinges

10.00

10.30

There are two for the Process Scedular

11.00

① Scheduling Algorithm

11.30

↳ decide " kis ki bhari Ho ghi "

Noon

12.30

② Dispatcher

1.00

↳ khesy Run karna Hai } Context Switch Topic

1.30

When does the Scdular make decision?

2.00

↳ Pre-emption may be Happen
↳ I/O complet may be Happen

2.30

• Preemptive Schedular vs

3.00

↳ also said Co-operative scedular

3.30

4.00

4.30

5.00

6.00 pm

8.00 am Scheduling Algorithm goals

8.30 Miminize Response time
↳ Click on the google chrome
9.00 then immediately opened this is
response between User and Hardware.

9.30
initial response time window ko kamm
10.00 Which is good things.

10.30 Minimize overhead
↳ FXP (gigantic Algorithm)

11.00
• Avoid starvation
11.30 ↳ to keep front of High
Priority Process

Noon

12.30 • Degrade gracefully
↳ ~~conceptual~~
1.00 ↳ Gracefull degradation

1.30
First Come First serve
2.00 ↳ diagram on slide

2.30
This is non premptive

3.00

3.30 ⟹ Non premptive
↳ If long cpu Burst comes
4.00
then ye bheta rahy ghe.

4.30

5.00

6.00 pm

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17 Friday 076/289

St Patrick's Day (Rep of Ire.) St Patrick's Day (N Ireland-U.K.)

8.00 am

Round - Robin Schedulling

↳ Same fcfs along with preemption.

On slides

8.30 9.00 9.30

10.00 Shortest Remaining time first Schedulling.

10.30

2	2	10	3	8
E	D	C	B	A
25	23	21	11	8

mean time = 17.6

11.00 11.30

10	8	3	2	2
C	A	B	D	E
25	15	7	4	2

Noon

mean time = 10.6

12.30 1.00

But we can't predict the time before running the program

1.30

Still seeing video, is last 10 min

2.00

Priority scheduling

2.30

↳ is process ko kitni priority dyna hai

3.00

Nice command in linux

3.30 4.00

Priority again

4.30

↳ We increase the priority by time by time

5.00

6.00 pm

Multi-level Queues

↳ 9fss not good for us because low priority process never get to execute.

"Push Migration"