CPU SCHEDULING2 Process Scheduling rejens to a set of policies & mechanis
Process Scheduling rejens to a set of policies & mechanis
m built into the operating System that govern the

order in which the work has to be done in a computer

system is Completed. ? Program in Execution is a Process Process wants resources

PROCESS

C.P. U bound I/O bound

CPU Burst I/O Burst

There are three types of Schedulers

1- Long term 2- Short term Dispatiner? dispatihertive

3- Medium Lerm

PCB

(Program Control Block) Von Journey Ready)

(Program Control Block) Von Journey Ready)

CPU

assign elle se

waiting stage Ready Suspended Suspended - Birle Swapping IN 00 3 6 2 T Process w Virtual Memory o -Sight swapping out as 3626 Process v Virtual Mamory 0

Date Will constitute of south levine in the * Long term Schedules : or not in prequent 200. SCHEDULING CRITERIA'S CPU UTILIZATIONE -> We want to keep the CPV as busy as possible -> We want to maximize the working of CPU 2- THROUGHPUTZ + Number of processes that are completed per unit time > It must be maximum. 3- IURNAROUND TIMEZ The time b/w the submission of the job & completion of the job Time should be minimum 4- WAITING TIMEZ The time of the process in which the process is in the 9 ready queue for execution, time should be minimum 5- RESPONSE TIMES The time blu the submission of job & first response of the job is called Response line should be minimum.

THE REAL PROPERTY.	THE WORLD IN THE PROPERTY OF T	10
	THE RESERVE OF THE PARTY OF THE	16
13.3	in im Node	1
	Criteria: Anivel Teme, Decission Node Criteria: FIRST SERVE)	15
Date	Critera: HAT SERVE)	
FCFS	Criteria: Amirat 1011 SERVE) (FIRST COME FIRST SERVE) (FIRST Completion Turn around Waiting TAT-BT)	"
	CFIRST COME FIRST SERVE) Arrival Burst Completion Turn around Waiting AT BT CT TAT WI TO THE TOTAL	1
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PNO	1 1 6	-
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2	2 14	•
3	2 16 10	1
4	5 8 24 19 11	7
5		F 70
Gart Cha		
[1/ Pi	P2 13 14 16 Completion Time	1
0 1		1
PRE-EMP	TIONE	2
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411 2000	nati layskly.	-1
the ways	22 To time - Assival Jime	
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VT= lurs	raround lime - Burst time	4.
Ang= E.	221ALL DENDACTAL	
5		
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Simple 15	in lostand, Easy is understand	
Denos Co 170	understand, Easy to understand	
JEMEK III		
When lue	cers has to wait.	
other pro	cers has to wait.	
0.04 00000	al time is same of a processes then see	
O, and	at time is same of a processes their see	
subscript.		

Date ROUND ROBINZ - Pre-ampt -> Resource sing 1 maksoos time the diga jyga or phir wapis lay lipa jyga
-6262 sit & man / 12 Sis & Sis & + Switching is through Dispatcher 7 Context Switch - Jave & resume Back BT CT TAT INT 420 8 8 4 AT 8 8 4/20 BBX0 18 17 12 0 Do 6 3 17 21 10 13 BXO 19 is maintained Gantt chart + Queue First in First out Queve | 8/ 8/2 8/3 8/1 8/4 8/3 8/2 8/2 8/2 8/2 8/2 8/2 1 right to left P1 P2 P3 P1 P4 P5 P2 P6 P5 P2 P6 P5. TQ V CS A

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2		8 Vo	10	8	6	
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4	3	10	21	17	11	
5	4	620	18	12	9	
6	6	30	10	10		
circular	Que	ue la	Tori	PG 1P2	TP51	Pa 1931
P1 1	P2 P	3 /P4	1151	10 1/2		
Grant	chart		1.00	101	0, 100	1

[P1 | P2 | P3 | P4 | P5 | P6 | P2 | P5] 0 4 8 10 11 15 18 19 21 + If time Quantum is to large wen't will become FCFS

2 - CITHM2
PREEMPTIVE PRIORITY. ALGORITHM 2 PREEMPTIVE PRIORITY BT
DEEEMPTIVE TRIBE
PNO Priority 011 6.
1 2 1 2.
2 4 1 3/2
3 6 2 8
10 3 648
4 X
S 8 C 12 Highest S 40 C 12 Priority S
6 1d Priorty 6
7 9 6
Priority Quenes - Heap
11 0 1 0 1 Po 1 Po 1 Po 1 Po 1 Po 1 Po 1
P1 P2 P3 P4 P6 P4 P7 P5 P3 P2 P1 P1 P2 P3 P2 P1 P2 P3 P2 P1 P3 P2 P1 P3 P3 P3 P2 P1 P3 P3 P3 P3 P3 P3 P3
o 1 d - : : d d mare ness
Pre-emplive become non-preemplive if all processess is in ready queue
is in spendy queue
to in the Park
Starvation: Problem.
Aging (Pre-emptive Counter)

Thread is writt of work