EAST WEST UNIVERSITY

MID-01

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Ans to the Ques No-2

Given,

	P_0	P_1	P_2	P_3
Input	6	10	5	9
cpu burst time	12	13	14	12
Output	5	6	3	7

(a) Multiprogrammed processing system

P_0	I_0 6	C_0 12	O_0 5					
P_1		I_1 10		C_1 13	O_1 6			
P_2			I_2 5		C_2 14	O_2 3		
P_3				I_3 9		C_3 12	O_3 7	
	6	12	13		14	12	7	64

Ans to the Ques No-2(b)

Time sheard processing system :

Time quantum is 12.

P_0	I_0 6	C_0 12	O_0 5					
P_1		I_1 10	C_1 12			C_1 1	O_1 6	
P_2			I_2 5	C_2 6			C_2 8	O_2 3
P_3				I_3 9	C_3 12	O_0 7		
	12	12	12	12	12			60

Ans to the Ques No - 4.

when I ~~clike~~ clicked calculator on turned on the calculator software In new state there was a process created. wherever I clicked the buttons for nesserary operands It demands input form user. There are five states, of the process of the given Seenario.

New state: It is the state where processes are created. Here ~~I have~~ when we clicked the ~~bot~~ buttons for ~~nesse~~ necessary operands and ~~operand~~ operator for the multiplication operation. The process is created in new state.

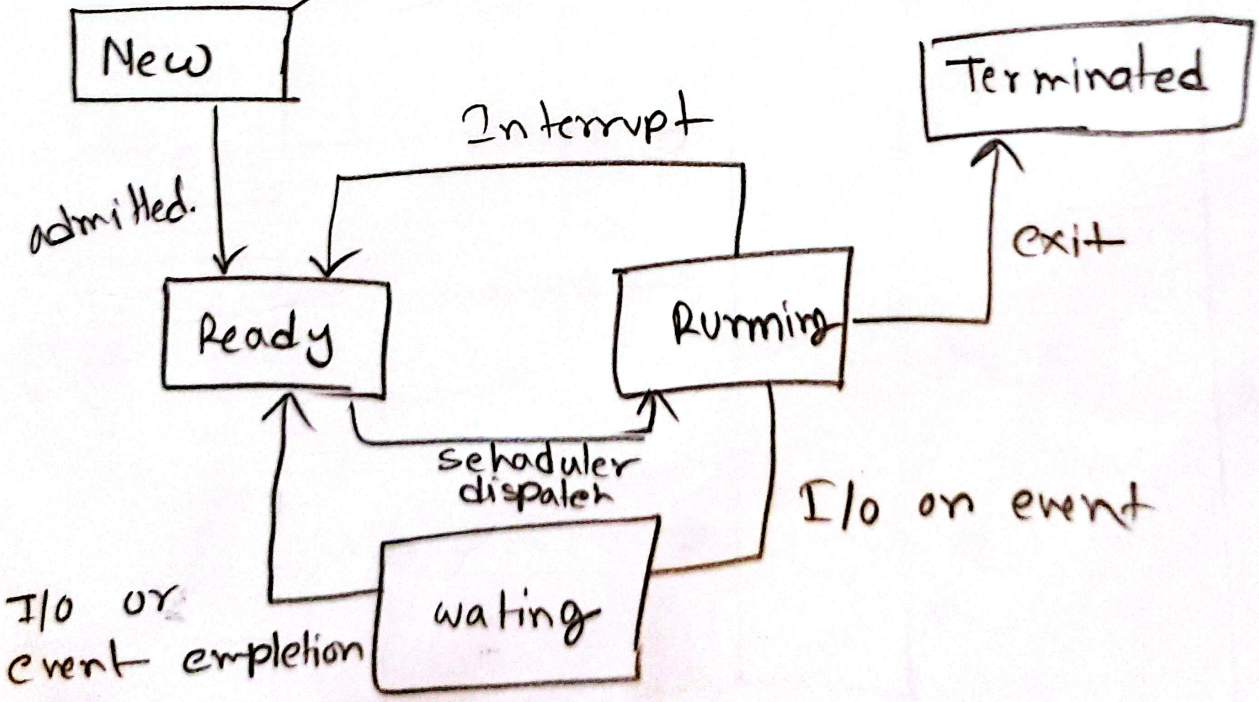
Ready state: In this state the process waits to be assigned to a processor.

Running state: In this state the instructions are ~~exeoted~~ executed.

waiting state: This state the process wait for some event to occur.

Terminated state: Terminated state, the process finished execution.

From new state the process goes to ready queue and waiting to executed. After read the cpu selects processes on a priority basis and state runing state.



In running state user given input as User gives input, I/O interrupt occur. In different operant button clicking the Process go to the waiting state. Again ready to running. Finishing the process the program goes to termited state and throws output.

~~Ans to the ques~~

also Here,

$3+2-1*3=?$

Using ~~to~~ calculator software then clicked the button for ~~resse~~ necessary operands and operators for this calculation. The Software calculated it and show the result on screens. The process are,

1st,

$\boxed{3+2}-1*3 \longrightarrow 5-1*3=12$ [$3+2=5$ then $(-1)*3$]

2nd,

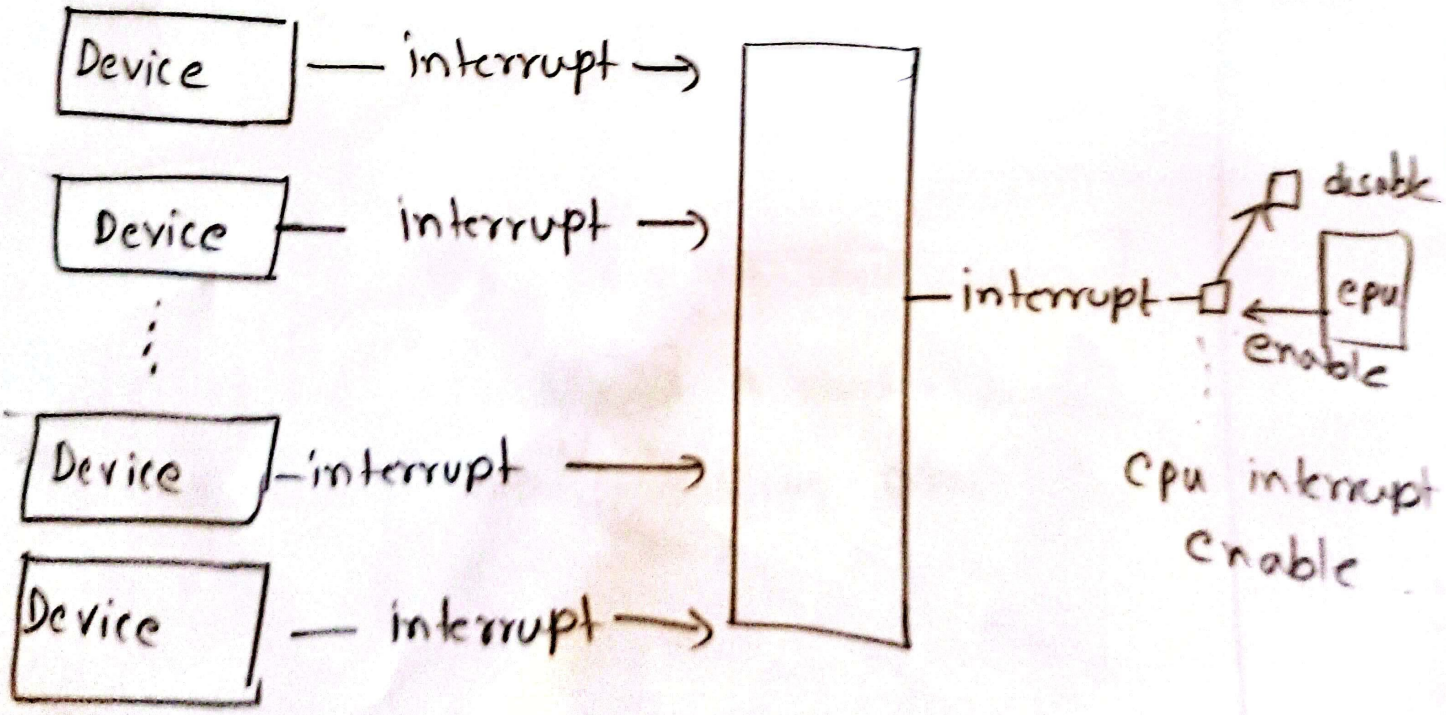
$3+\boxed{2-1}*3 \longrightarrow 3+3=6$ [$2-1=1$ Multiply by 3 and summation to 3]

3rd, $3+2-3=2$ [$1*3=3$ then others]

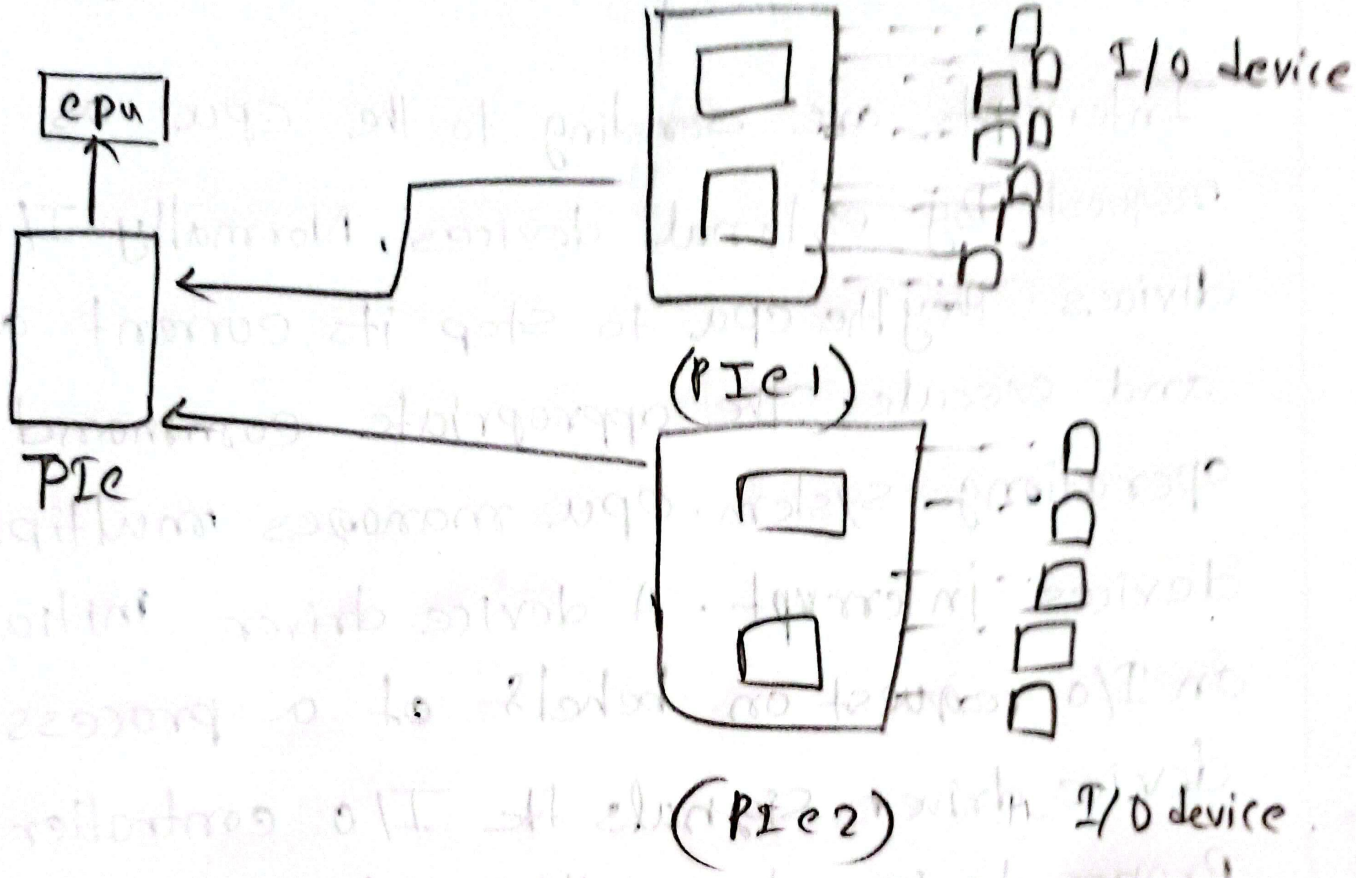
So, the result is ~~[illegible]~~ 3rd. because ~~to~~ finally do multiplication and the result is 2.

Ans to the Ques No-1

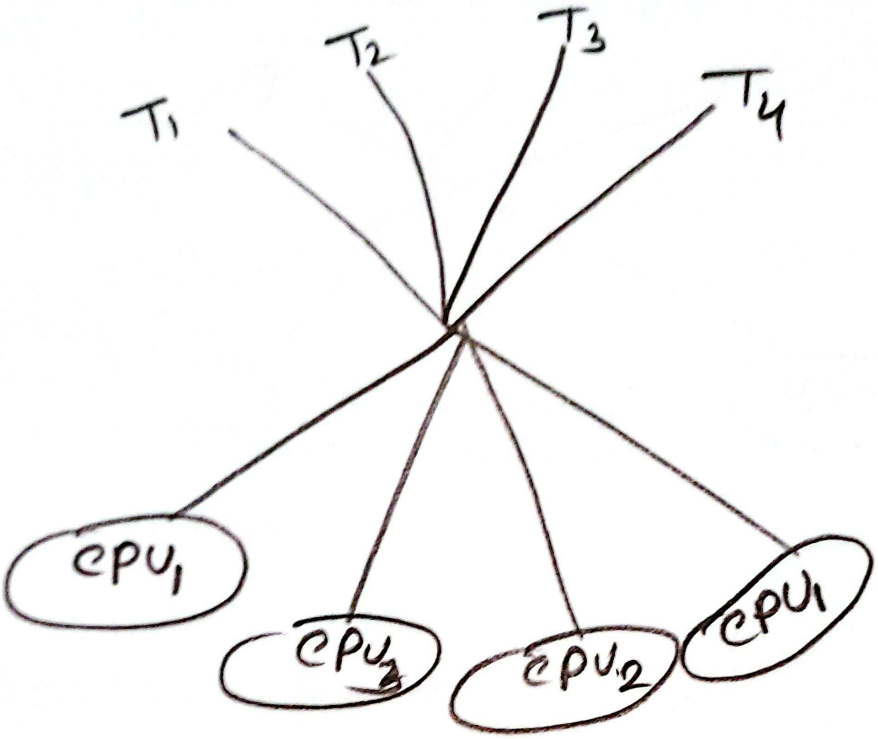
Interrupts are sending to the cpu as a request By extrnal devices, Normally I/O divices. ~~They~~ The cpu to stop its current activities and execute. The appropriate command of the operationg system. cpu manages multiple I/O devices interrupt. A device driver initiates on I/O request on behelf of a process. The device driver signals the I/O controller for Proper device whie initiates the request I/O.



also



Ans — 5



Here four toreads are running with four different process Multiprocessing system has many user level threads to a smaller or equal number of kernel threads. kernel specific or a application or a particular Machines devloper can implements many user threads to necessary. when a threads perform a blocking

System call. The kernel schedule another thread for execution.

Ans-8

Ans to the Ques No-3

Output:

Hello
World
Hello
World
World.

Because pid = fork( ) is always picked a random numbe and which is positive and greater then 0.

Pid — + Pid

Pid = fork

Pid = fork
is (Pid > 0)
Pid1 = fork( )
Printf (Hello)

Pid1 = fork( )

Pid = for( )

else id-(Pid = 0.