

April 12, 2024 at 7:39 PM

TASK 1 (Similar from the previous assignment)

Table explanation: This table represents a process output of simulation. Table consists of 8 columns and each and every one of them is giving us some information. First one is showing a time slice, its just a like a tag number of how long processes are executing, next we have PID (1,2,3,4,5) which stands for Process ID and shows us in what state is each process during the execution. CPU column shows that at one single time, cpu is running one process.

Execution: Process with ID 0 is running until it's done at (5), by the time process with ID 1,2,3,4,5 are in READY state. After PD0 finishes, Process 1 is starting to run and in that time, PID 0 is already finished, and PID2, 3, 4, 5 are still in ready state. Next, PID (1) is done at Time 9, and PID2 starts to run, at that time process before are in DONE state, while others after process that is currently running are in READY state, waiting to execute. This process continues until all of the 6 processes finishes their execution.

TASK #2

First, calculate total number of bits pen a vintual address which is 16 bits.

Offset = log_2 (4KB · 1024) = log_2 (4096) = 12 6its

1) VA 0 x 0000 15377 (16) = 0000 0000 0000 0000 0001 0101 0111 (2) VPN (decimal number system) TVPN Page France check if this page number exists = 1= UPN (on this page stored o)

0000 0101 0111 (2) = 0557 = 0x 0557

2 VA 0x 0000 2205

4× 40000" 0010 0010 1100 0101 Voffset bits

2 = VPN (stoned 8) 1000 0010 1100 0101 = 82C5= 0x82C5

3 VA 0 × 0000 14 fa

4x "0000" 9001 0100 1111 1010

affect bits

VPN=1 (Honodo) 0000 01000 MMM 1010 = 04FA = 0 x 04FA

@ VA 0 x 0000 206E

4 x 400000" 0010 1000 1101 011011110 UPN = 2 (storeds)

Afset buts 1000 1101 1110 = 806E = 0x806E

8 VA 0 × 0000 0 706

4 × "0000" 0000 0111 1101 0110 offset buts

UPH=O (stoned o)

0000 DAM ADON 0110 = 09DG

= 0 x0906

