

[CS-721] Final Theory

* Required

Questions

OS do not update contents of Process Control Block with execution progress of the job. *

- ☐ True
- ☒ False

to get page frame number of a page, following equation is used *

- ☐ $\text{page-frame-address} = \text{page-frame-number} * \text{page-frame-size}$
- ☐ $\text{page-frame-address} = \text{page-number} * \text{page-frame-size}$
- ☐ $\text{page-frame-address} = \text{page-frame-number} * \text{page-size}$
- ☒ $\text{page-frame-address} = \text{page-number} * \text{page-size}$

for optimal performance of SJN, its is required that ____ *

- ☐ prior availability of all jobs
- ☐ CPU time estimates of each job is available
- ☐ CPU time estimates must not be inaccurate for any single job
- ☒ All of the mentioned



Thread Control Block and Process Control Block share common data in content registers at any given time. *

- ☒ Yes
- ☐ No

If the job is in Running state, Process Status Word holds ____ *

- ☐ contents of the register
- ☒ state of the job
- ☐ information about allocated resources
- ☐ left undefined

whenever a page fault occurs, state of the running job changes to ____ *

- ☐ ready
- ☒ waiting
- ☐ hold
- ☐ no impact on the jobs near to completion

ready queue is entertained by ____ *

- ☐ low level scheduler
- ☒ high level scheduler
- ☐ ready queue scheduler
- ☐ mid level scheduler



deallocation is the process of freeing up resource like *

- ☐ memory
- ☐ a device or a file
- ☐ CPU
- ☒ All of the mentioned

consider an application programmer writes a code to add more CPU cycles until his program completes its execution. at OS level, such a program keep changing its state from running to _____ *

- ☒ waiting
- ☐ delayed
- ☐ blocked
- ☐ none of the mentioned

in paged memory allocation, pages are loaded into memory ____ *

- ☐ in continuous page frames
- ☒ in non continuous page frames
- ☐ in sectors of main memory
- ☐ in non framed memory



page framer number is a _____ quantity. *

- ☐ logical
- ☒ physical
- ☐ relative
- ☐ absolute

following page management scheme supports partial job loading in main memory *

- ☐ paged memory allocation
- ☒ demand paging memory allocation
- ☐ dynamic partitions
- ☐ best-fit memory allocation

information of jobs loaded into main memory is maintained by *

- ☒ job table
- ☐ page map table
- ☐ memory map table
- ☐ execution job table



considering a page size = 150. following is the page number of byte 456. *

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ 5

displacement of an instruction is a ____ *

- ☒ relative factor
- ☐ absolute factor
- ☐ real factor
- ☐ all of the mentioned

the process of collecting fragments of available memory space into contiguous blocks *

- ☐ deallocation
- ☐ fragmentation
- ☒ compaction
- ☐ nulling the entries



address of a in-memory instruction is calculated using the equation *

- ☒ instruction-address = page-frame-address + displacement
- ☐ instruction-address = page-frame-address - displacement
- ☐ instruction-address = page-frame-address / displacement
- ☐ instruction-address = page-frame-address + displacement * 4096

for many decades, the standard size of a page, page frame, and sector was identical at 512-bytes. Now the standard is moving to sectors of ____ *

- ☐ 2K
- ☒ 4K
- ☐ 8K
- ☐ 64K

in virtual memory with segmentation, the absolute address is calculated using segment number page number. *

- ☒ True
- ☐ False

for working of page memory allocation scheme, size of page frame, sectors, and pages must have same size. *

- ☒ True
- ☐ False



for batch systems following is best suited scheduling algorithm *

- ☐ FCFS
- ☐ SJF
- ☒ SJN
- ☐ Priority Scheduling

a main memory allocation scheme that considers all free blocks and selects for allocation the one that will result in the least amount of wasted space. *

- ☐ worst fit memory allocation
- ☐ first fit memory allocation
- ☒ best fit memory allocation
- ☐ single user memory allocation

Shutdown procedure is build into the operating system because *

- ☐ It looks elegant
- ☐ it is required to shutdown all devices
- ☒ to turn off the computer system
- ☐ RAM needs constant power to keep its contents



in paged memory allocation scheme, _____ *

- ☐ entire job must be loaded in memory
- ☒ only a part of job can be loaded in memory
- ☐ a single job is loaded in memory at a time
- ☐ multiple partial jobs are loaded in memory

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