



Hđh2 - Yeb

Hệ điều hành (Trường Đại học Sư phạm Kỹ Thuật Thành phố Hồ Chí Minh)



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Thời gian còn lại 0:54:18

Câu hỏi 1

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

A memory management unit performs memory-mapping by converting a logical address into a physical address, with the help of _____

Select one:



limit registers



base registers



none



base and limit registers



[Clear my choice](#)

Câu hỏi 2

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

.FIFO scheduling is

Select one:



Fair-share scheduling



Deadline scheduling



Non-preemptive scheduling



Preemptive scheduling



[Clear my choice](#)

Câu hỏi 3

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

The requirements for solving a Critical Section problem are:

Select one or more:



bounded waiting



mutual exclusion



progress

Câu hỏi 4

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

.Which of the following variable wait within the to enable a process

Select one:



all of the mentioned



objects Boolean objects can be used by condition variables



a condition is defined by a condition variable



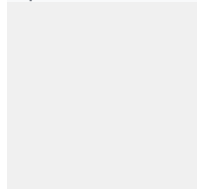
semaphore must be used



[Clear my choice](#)

Câu hỏi 5

Câu trả lời đã được lưu
Đạt điểm 1,0



Đặt cờ

Đoạn văn câu hỏi

Which of the following is NOT true for plans to prevent and avoid deadlock?

Select one:



In the case of deadlock avoidance, resource requests are always granted if the resulting state is safe



Avoid deadlock is less restrictive than preventing deadlock



Avoid deadlock requires prior knowledge of resource requirements



In the deadlock prevention, resource requests are always accepted if the resulting state is safe



[Clear my choice](#)

Câu hỏi 6

Câu trả lời đã được lưu
Đạt điểm 1,0

Xóa cờ

Đoạn văn câu hỏi

Trả lời is a data structure used to store the bas

Câu hỏi 7

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

.Process synchronization can be done on which of the following levels

Select one:



software



none of the mentioned



hardware



both hardware and software



[Clear my choice](#)

Câu hỏi 8

Chưa trả lời
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

There are memory accesses in paging

Câu hỏi 9

Chưa trả lời
Đạt điểm 1,0

Xóa cờ

Đoạn văn câu hỏi

The valid-invalid bit is used in the page table to mark a page as valid or invalid. means the page is being referred to by the process

Consider the two processes P1 and P2 accessing the shared variables X and Y protected by the binary semaphore S1 and S2 respectively, both initiated by 1. The pseudocode of P1 and P2 are follows:

P1:	P2:
<pre>while(true){ L1: L2: X = X + 1; Y = Y - 1; signal(S1); signal(S2); }</pre>	<pre>while(true){ L3: L4: Y = Y + 1; X = Y - 1; signal(S2); signal(S1); }</pre>

To avoid deadlock, the correct operations at L1, L2, L3, L4 are, respectively?

Select one:



wait(S1); wait(S1); wait(S2); wait(S2);



wait(S2); wait(S1); wait(S1); wait(S2);



wait(S1); wait(S2); wait(S2); wait(S1);



wait(S1); wait(S2); wait(S1); wait(S2);



[Clear my choice](#)

.When high priority task is indirectly preempted by medium priority the scenario is called

Select one:



priority modification



priority removal



priority inversion



priority exchange

A system with 32-bit logical address uses a two-level page table structure. It uses page size of 2^{10} . The outer page table or directory is accessed with 8 bits of the address. How many bits are required to access the page table? Trả lời

Fixed partitioning method suffers from fragmentation.

.Which of the following for Mutual exclusion can be provided by the

Select one:



none of the mentioned



mutex locks



binary semaphores



both mutex locks and binary semaphores

Fixed partitioning is a method of partitioning the memory at the time of _____

Select one:



run-time



none



system generation



compilation

In a paging scheme, 16-bit addresses are used with a page size of 512 bytes. If the logical address is 0000010001111101.

The physical address will be , if the frame address corresponding to the computed page number is 15.

Hardware support for the concept is provided by the PTBR and the PTLR.

The 'Circular wait' condition can be prevented by

Select one:



using thread



using pipe



Define a linear order of resource types and enter the resource level



all not correct

A page table entry provides

base address ▼

If the size of a process is an exact multiple of page size chosen, there will not be any _____ fragmentation.

Select one:



internal and external both



internal



external



none

The swap space is reserved in _____

Select one:



any secondary storage



the main memory



none



the hard disk

starvation ▼

is a problem that is addressed when considering concurrent processes, which are closely related to deadlock

In a system, there are three processes, P1, P2, and P3, divided into 32, 189, and 65 pages, respectively. If there are 115 frames in the memory, then the proportions in which the frames will be allocated to the processes are

Select one:



13, 76, 26



18, 70, 27



11, 72, 21



13, 72, 24

The two types of semaphore are

binary and counting



.Which of the following option is suitable when a process is executing in its critical section, then no other processes can be executing in their critical section

Select one:



synchronous exclusion



mutual exclusion



asynchronous exclusion



critical exclusion



[Clear my choice](#)

The value of a counting semaphore is 12 at a particular time of computation. Then 14 P operations and "x" V operations were performed on this semaphore. If the final value of semaphore is 5, x will be Trả lời

To avoid deadlock

Select one:



resource allocation needs to be done only once



All deadlocked processes need to be removed



only allocate resources to processes holding resources



a set number of allocated resources are required

demand paging

is to load only those pages in the memory that are needed at an instant of time of execution.

.A semaphore is a shared integer variable that can not

Select one:



drop below one



be more than zero



that cannot be more than one



drop below zero

There is a system with 64 pages of 512 bytes page size and a physical memory of 32 frames. How many bits are required in the logical address? Trả lời

15

.Scheduling algorithms that work on complex :

Select one:



uses most resources



all of the mentioned



uses few resources



are suitable for large computers

.How can we avoid deadlock

Select one:



there must be a fixed number of resources to allocate



all deadlock process must be aborted



inversion technique can be used



resource allocation must be done at once

Larger the page size _____ will be the memory wastage.

Select one:



the less



no effect



none



the mor

In fixed partitioning, the partition size can be of

Select one:



fixed size



none



fixed as well as variable



variable size

Whenever a resource allocation request cannot be granted immediately, the deadlock detection algorithm is invoked. This will help identify:

Select one:



Specific processes cause deadlock



set of deadlocked processes



set of processes in the deadlock queue



All correct

.Synchronization tool is?

Select one:



semaphore



pipe



socket



thread

.Which of the following is not a part of the operating system?

Select one:



Input/output control program



Supervisor



Job control program



Performance monitor

What is the effective memory access time if a 32-bit system uses a 2-level paging scheme. Assuming the TLB hit ratio is 98%, it takes 15 ns to search the TLB and 100 ns to access the memory.

Select one:



119 ns



120 ns



122 ns



124 ns

.Scheduling algorithm in multilevel feedback

Select one:



none of the mentioned



classification of the ready queue is permanent



processes are not classified into groups



a process can move to a different classified ready queue...



[Clear my choice](#)

Câu trả lời đã được lưu
Đạt điểm 1,0

Đặt cờ

Đoạn văn câu hỏi

Memory mapping through TLB is known as ____

Select one:



TLB mapping



physical mapping



none



associative mapping

Pages and frames are in size.

Consider a system with the following information.

R1 has 5 instances, R2 has 6 instances, R3 has 4 instance.

Process	ALLOCATION			REQUEST		
	R1	R2	R3	R1	R2	R3
P1	1	0	2	1	0	0
P2	1	1	0	4	0	2
P3	1	1	0	0	1	2

Process	R1	R2	R3	R1	R2	R3
P4	0	2	1	2	1	0
P5	1	2	0	3	1	4

What is the safe sequence?

Select one:



{P1, P4, P3, P5, P2}



{P3, P1, P4, P2, P5}



{P1, P3, P4, P5, P2}



{ }



[Clear my choice](#)

There are 128 pages in a logical address space, with a page size of 1024 bytes. How many bits will be there in the logical address?

Answer:

2^20

Belady's anomaly is observed in the _____ algorithm

Select one:



OPT



FIFO



CLOCK



LRU

In a paging scheme, 16-bit addresses are used with a page size of 512 bytes. If the logical address is 0000010001111101.

The offset is .

In a paging scheme, 16-bit addresses are used with a page size of 512 bytes. If the logical address is 0000010001111101.

The page number is .

The downside of calling a deadlock detection algorithm for every request is:

Select one:



all correct



Significant costs during calculation.



consumes excess time in requests allocated memory



cost of deadlock detection algorithm due to memory consumption

There is a system with 64 pages of 512 bytes page size and a physical memory of 32 frames. Thus, there is bits are required in the physical address.

.Trap is a/an

Select one:



Asynchronous interrupt



Synchronous interrupt



Hardware interrupt



Operating system's interrupt



[Clear my choice](#)

Buddy system là một sự thỏa hiệp giữa _____

Select one:



các tùy chọn còn lại đều sai



phân trang và phân đoạn



phân vùng cố định và phân vùng động



phân mảnh ngoại và phân mảnh nội