

Cau hoi 1

When a virtual memory system manages memory in fixed length units, which of the following terms correctly represents its unit?

- A. Frame
- B. Page
- C. Block
- D. Segment



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Cau hoi 2

What is NOT an operating system mode?

- A. System mode
- B. User mode
- C. Kernel mode
- D. Supervisor mode





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Cau hoi 3

In I/O Devices, the software that talks to a controller, giving it commands and accepting responses, is called_____.

- A. device driver
- B. DMA
- C. device interface
- D. interrupt





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Cau hoi 4

What happens to the program counter after an instruction is fetched?

- A. It is reset to zero
- B. It is updated to point to the next instruction
- C. It is used to store the result of the instruction
- D. It is used to store the total length of the program being executed



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Cau hoi 5

Which operating system runs on systems with any CPU (multi-processor, multi-core, multi-chip)?

- A. Embedded OS
- B. Multiprocessor OS
- C. PC OS
- D. Server OS



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B

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Cau hoi 6

What is the output of the following command: echo \$((5 / 2 * 2)) ?

- A. 1
- B. 5
- C. 4
- D. 2





haidang2425 -2

C

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gavea 9

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Đỗ Trung -11

C

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Nguyen_Toan 0

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Cau hoi 7

In Unix, which the POSIX system call creates the new process?

- A. fork
- B. create
- C. new
- D. CreateProcess





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Nguyen_Toan

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Cau hoi 8

In the FIFO page replacement algorithm, what data structure is commonly used to implement the page replacement queue?

- A. Stack
- B. Queue
- C. Linked list
- D. Array



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FIFO thường sẽ là một queue (hà

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B

Cau hoi 9

Which of the following is an Operating System component?

- A. Process Management
- B. Speed Management
- C. Space Management
- D. Time Management





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a

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A

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Cau hoi 10

In computer operating systems, how are processes understood?

- A. A program saved on disk.
- B. A program is loaded into memory and the CPU is executing
- C. A program loads into primary memory or secondary memory
- D. A program loaded on disk.



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b

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Nguyen_Toan 0

B

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Cau hoi 11

In the Round-robin scheduling, what happens to a process when it runs out of the of time allocated by the system?

- A. The process switches from running to a ready state.
- B. The process switches from running to a blocked state.
- C. The process switches from running to a suspended-ready state.
- D. The process switches from running to a suspended state.





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A

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31/7/25 **Báo cáo**



Bachay **0**

a

4/8/25 **Báo cáo**



Nguyen_Toan **0**

A

5/8/25 **Báo cáo**

Cau hoi 12

When using the Critical Regions solution, which of the following conditions is NOT necessary?

- A. Processes entering critical regions must set their speed or number of CPUs.
- B. Two processes are not in critical regions at the same time.
- C. A process outside the staging area must not prevent other processes from entering critical regions.
- D. Processes do not have to wait indefinitely to enter critical regions.





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Bachay 0

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A

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Cau hoi 13

In interprocess communication, which synchronization method requires hardware support?

- A. TSL Instruction
- B. Peterson's Solution
- C. Sleep and Wakeup
- D. Semaphores





feifaineverdie 29

- A. TSL - test and set lock Instruction
cấp phần cứng để kiểm tra và thi khóa
- B. Peterson's Solution - pp dựa trên
để giải quyết vấn đề critical region
- C. Sleep and Wakeup - thao tác
hành cho phép 1 tiến trình đi vào
ngủ.
- D. Semaphores - khóa đồng bộ -

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Cau hoi 14

Which of the following information bits in the page table entry is used to indicate the types of access that are permitted?

- A. Present/absent bit
- B. Caching disabled
- C. Protection bit
- D. Modified bit





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C

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- A. Bit hiện diện/vắng mặt (Present bit)
→ Xác định trang có trong bộ nhớ không.
- B. Bit tắt bộ nhớ đệm (Caching bit)
→ Kiểm soát việc lưu trữ trang vào cache.
- C. Bit bảo vệ (Protection bit)
→ Quy định quyền truy cập (đọc, viết) cho trang.
- D. Bit sửa đổi (Modified bit)

Cau hoi 15

In a real-time scheduling system, which type of process is given the highest priority?

- A. Shortest processes
- B. Processes with the highest computation time
- C. Processes with the earliest deadlines
- D. Background processes





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C

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Nguyen_Toan 0

C

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Cau hoi 16

What is the role of the Memory Management Unit (MMU) in a computer system?

- A. The MMU translates virtual addresses into physical addresses
- B. It controls the allocation of memory to different processes.
- C. It manages the paging and swapping of memory pages.
- D. It is a data structure used in computer operating systems for virtual memory management



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A

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A

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a

31/7/25 Báo cáo



Nguyen_Toan 0

A

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Cau hoi 17

How does memory abstraction through address spaces benefit a computer system?

- A. It allows each process to access the entire physical memory directly.
- B. It isolates processes from one another, preventing unauthorized access.
- C. It eliminates the need for virtual memory.
- D. It reduces CPU processing speed.





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b

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Bachay 0

b

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Bachay 0

b

4/8/25 Báo cáo



Nguyen_Toan 0

B

5/8/25 Báo cáo

Cau hoi 18

In virtual memory, a solution adopted in the 1960s was to split programs into little pieces called ____.

- A. overlays
- B. pages
- C. page table
- D. page fault





toitengi 1

" A solution adopted in the 1960 programs into little pieces,called
trang 194, mục 3.3 -> A

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Bachay 0

ko rõ

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Nguyen_Toan 0

a

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Cau hoi 19

A computer with a 32-bit address uses a two-level page table. Virtual addresses are split into a 10-bit top-level page table field, an 12-bit second-level page table field, and an offset. What is the size of the pages?

- A. 512B page
- B. 1-KB page
- C. 2-KB page
- D. 4-KB page





feifaineverdie 29

Tổng số bit = Tổng bit VPN + Offset bit
32 = 10 + 12 + Offset bit
=> Offset bit = 10,
size = 2^{10} = 1024 byte = 1 kB

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B

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G

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b

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Nguyen Toan 0

Cau hoi 20

If FIFO page replacement algorithm is used with four page frames, how many page faults will occur with the reference string 0172327103 if the four frames are initially empty?

- A. 4 Pages
- B. 5 Pages
- C. 6 Pages
- D. 7 Pages



H

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C



0: [0] - Fault

1: [1, 0] - Fault

7: [7, 1, 0] - Fault

2: [2, 7, 1, 0] - Fault

3: [3, 2, 7, 1] - Fault

2: [3, 2, 7, 1]

7: [3, 2, 7, 1]

1: [3, 2, 7, 1]

0: [0, 3, 2, 7] - Fault

3: [0, 3, 2, 7]

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Cau hoi 21

A program causing page faults every few instructions is said to be _____.
A. crashing
B. thrashing
C. error agent
D. trojan



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B

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tan2005sd 0

B thrashing

30/7/25 Báo cáo

G

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b

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Nguyen_Toan 0

B

5/8/25 Báo cáo

Cau hoi 22

What is the main advantage of using the Clock Algorithm over the Second Chance Algorithm in terms of page replacement efficiency?

- A. The Clock algorithm eliminates the need to move pages around, reducing overhead.
- B. The Clock algorithm increases the complexity of implementation.
- C. The Clock algorithm guarantees fewer page faults compared to Second Chance algorithm.
- D. The Clock algorithm uses more memory to maintain the circular structure.





Siêu cấp chụp bi 5

A

ưu điểm chính của thuật toán Cletoán Second Chance nằm ở hiệu việc thực thi và giảm thiểu thachuyển dữ liệu trên danh sách

28/7/25 Báo cáo



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A

30/7/25 Báo cáo



gavea 9

a

31/7/25 Báo cáo

Cau hoi 23

What is the primary purpose of using paging in memory management? choose correct answers

- A. To reduce the access time for data in memory.
- B. To allow multiple processes to share the same physical memory.
- C. To eliminate fragmentation and improve memory utilization.
- D. To organize memory into fixed-size blocks for efficient storage.





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BC

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Oro Jackson



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cd

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Bachay 0

cd

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Nguyen_Toan 0

CD

Cau hoi 24

A straight forward and quite general solution is to provide the machine with many completely independent address spaces, which is called?

- A. Segment
- B. Paging
- C. Partition
- D. Virtual



D

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D

25/7/25 Báo cáo

G

gavea 9

a

31/7/25 Báo cáo



Nguyen_Toan 0

D

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CANCFI 0

Cau hoi 25

In a file structure, what type of file is obviously quite different from the unorganized byte streams used in UNIX and Windows and is used on some mainframes for commercial data processing?

- A. Byte sequence
- B. Record sequence
- C. Unstructure
- D. Tree of records



B

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B

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Nguyen_Toan 0

B

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Cau hoi 26

In a file's metadata, what information does the file size typically represent?

- A. The physical size of the storage medium.
- B. The number of characters ~~in~~ the file.
- C. The number of pages in the file.
- D. The amount of space the file occupies on the storage medium.



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D

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D

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G

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C

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Nguyen_Toan 0

D

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Cau hoi 27

In the context of a file system, how many letters do all current operating systems allow as legal file names?

- A. Zero to eight
- B. One to ten
- C. One to eight
- D. One to nine





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C

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gavea 9

C

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Bachay 0

C

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Nguyen_Toan 0

C

5/8/25 Báo cáo

Cau hoi 28

When a directory has been read, it should be closed to free up internal table space that is ____ .

- A. Close
- B. Closedir
- C. Delete
- D. Opendir



B

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H

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B

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G

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b

31/7/25 Báo cáo



Nguyen_Toan 0

B

5/8/25 Báo cáo



CANCFI 0

Cau hoi 29

What is fragmentation in the context of file-system implementation?

- A. A technique for managing directory structures.
- B. The allocation of memory for file storage.
- C. The splitting of files or free space into smaller, non-contiguous blocks.
- D. The arrangement of files on storage devices.



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C

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C

31/7/25 Báo cáo



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C

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Cau hoi 30

In file sharing, B links to one of C's files by having the system create a new file, of type LINK, and entering that file in B's directory. The new file contains just the path name of the file to which it is linked. When B reads from the linked file, the operating system sees that the file being read from is of type LINK, looks up the name of the file, and reads that file.

Which of the following is the correct about the type of file sharing described above?

- A. Synchronous Linking
- B. Symbolic Linking
- C. Traditional (hard) Linking
- D. Synthetic Linking



B

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H

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B

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G

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b

31/7/25 Báo cáo



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B

5/8/25 Báo cáo



CANCFI 0

Cau hoi 31

When the computer is booted, what is used to read in and executes?

- A. BIOS, Boot Block
- B. CPU, BIOS
- C. BIOS, MBR
- D. MBR, BIOS





thangtunglz 0

Basic Input/Output System -> M
Record

28/7/25 Báo cáo



tan2005sd 0

C bios mbr

30/7/25 Báo cáo



gavea 9

C

31/7/25 Báo cáo



Nguyen_Toan 0

C

Cau hoi 32

In Linux, what is the primary purpose of the /etc directory?

- A. To store temporary files.
- B. To manage system boot files.
- C. To house system configuration files and scripts.
- D. To store user home directories.



H

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C

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C to house system configuration
scripts

30/7/25 Báo cáo

G

gavea 9

C

31/7/25 Báo cáo



Nguyen_Toan 0

C

Cau hoi 33

What addresses are typically used by most DMA controllers for transmission?

- A. Logical memory
- B. Abstract memory
- C. Virtual memory
- D. Physical memory



H

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D

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D

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G

gavea 9

d

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D

5/8/25 Báo cáo

Cau hoi 34

Regarding the computer's interrupt, which of the following is the number on the address lines that is used as an index into a table to fetch a new program counter?

- A. interrupt vector
- B. interrupt handler
- C. interrupt pointer
- D. interrupt executer



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A

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tan2005sd 0

A interrupt vector

30/7/25 Báo cáo

G

gavea 9

a

31/7/25 Báo cáo



Nguyen_Toan 0

A

5/8/25 Báo cáo

Cau hoi 35

What is the purpose of Direct Memory Access (DMA) in I/O hardware?

- A. To manage device controllers.
- B. To allocate memory for device drivers.
- C. To enable devices to transfer data to and from memory without CPU intervention.
- D. To provide user interfaces for I/O devices.



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C

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G

gavea 9

C

31/7/25 Báo cáo



Nguyen_Toan 0

C

5/8/25 Báo cáo

Cau hoi 36

_____ include(s) every peripheral unit in the system such as disks, clocks, keyboards, displays, and so on.

- A. I/O devices
- B. Memory
- C. CPU
- D. Software



H

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A

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tan2005sd 0

A

30/7/25 Báo cáo

G

gavea 9

a

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Nguyen_Toan 0

A

5/8/25 Báo cáo

Cau hoi 37

What does the term "blocking" refer to in the context of I/O software?

- A. A technique for managing device drivers.
- B. A mechanism for ensuring device synchronization.
- C. The process of stopping a process until an I/O operation is completed.
- D. A method of allocating memory for I/O operations.



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C

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tan2005sd 0

C

30/7/25 Báo cáo

G

gavea 9

C

31/7/25 Báo cáo



Nguyen_Toan 0

C

5/8/25 Báo cáo

Cau hoi 38

What is the role of the file system in disk management?

- A. To allocate memory for disk operations.
- B. To manage the disk's hardware components.
- C. To organize and track files and data on the disk.
- D. To design disk controllers.



H

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C

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G

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C

31/7/25 Báo cáo



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C

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Nguyen_Toan 0

C

5/8/25 Báo cáo

Cau hoi 39

Consider a disk queue with requests for I/O to blocks on cylinders: 98, 37, 14, 65, 67. The disk arm motion, if the disk head is initially at 53, is 53, 98, 37, 14, 65, 67. Which the disk arm scheduling algorithms is used?

- A. FCFS
- B. SSF
- C. SJF
- D. Elevator



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A

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A

Bài gốc ở đây nha mọi người
<https://www.scribd.com/presentation/147-THUAT-TOAN-LAP-LICH>

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G

gavea 9

a

31/7/25 Báo cáo

Cau hoi 40

Which RAID level, which duplicates all the disks, offers fault tolerance through disk mirroring?

- A. RAID 1
- B. RAID 0
- C. RAID 5
- D. RAID 6



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RAID 0: Xem tất cả các đĩa đều là
thuật toán OR - SUM)

RAID 1: Coi một đĩa là gốc còn
thì sử dụng phương thức clone
gốc (dùng thuật toán AND - MIN)

RAID 5: sử dụng từ 3 đĩa trở lên,
pháp giống với RAID 0 nhưng có
là dùng parity check

RAID 6: tương tự như RAID 5 như
đĩa trở lên, hỗ trợ nhiều parity ch

Cau hoi 41

Time to move the arm to the proper cylinder is called?

- A. Seek time
- B. Rotational delay
- C. Actual data transfer time
- D. Access time





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A

26/7/25 Báo cáo



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A

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gavea 9

a

31/7/25 Báo cáo



Nguyen_Toan 0

A

5/8/25 Báo cáo

Cau hoi 42

What is a preemptable resource?

- A. The one that can be taken away from the process owning it with no ill effects
- B. The one that can be taken away from the process owning it with ill effects
- C. The one that can not be taken away from the process owning it with no ill effects
- D. The one that can not be taken away from the process owning it with ill effects





Siêu cấp chụp bi 5

A

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A fit with no ill effects

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gavea 9

a

31/7/25 Báo cáo



Nguyen_Toan 0

A

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Cau hoi 43

Which of the following statements regarding deadlock is correct?

- A. Allocation is a logical process while acquisition is its physical implementation.
- B. Banker's Algorithm is used to guarantee absolute mutual exclusion during resource acquisition.
- C. A combination of semaphore and mutex ensures safe resource allocation.
- D. Kernel is responsible for exclusive resource acquisition by a process while IPC takes care of safe resource allocation among multiple processes.





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C

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C

31/7/25 Báo cáo



Bachay 0

C

4/8/25 Báo cáo



Nguyen_Toan 0

C

5/8/25 Báo cáo

Cau hoi 44

In deadlock, what is mutual exclusion condition?

- A. Processes currently holding resources that were granted earlier can request new resources.
- B. Resources previously granted cannot be forcibly taken away from a process. They must be explicitly released by the process holding them.
- C. There must be a circular list of two or more processes, each of which is waiting for a resource held by the next member of the chain.
- D. Each resource is either currently assigned to exactly one process or is available.





gavea 9

d

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BMP 2

B

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Nguyen_Toan 0

D

5/8/25 Báo cáo



Nguyen_Toan 0

D

5/8/25 Báo cáo

Cau hoi 45

In the context of resource allocation or resource management models. What does it mean for an arc to be directed from a process to a resource?

- A. That the process is currently waiting for that resource.
- B. That the process is currently ready waiting for that resource.
- C. That the process is currently blocked waiting for that resource.
- D. That the process is currently running for that resource.



H

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A

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G

gavea 9

a

31/7/25 Báo cáo



BMP 2

C

31/7/25 Báo cáo



Nguyen_Toan 0

A

5/8/25 Báo cáo

Cau hoi 46

What does a resource allocation graph represent in the context of deadlock detection?

- A. A graph that shows the number of resources allocated to each process.
- B. A graph that depicts the processes and resources and their relationships.
- C. A chart showing the execution order of processes.
- D. A diagram of CPU scheduling.



H

classic 147

B

25/7/25 Báo cáo



SN1 54

B

Nói về đồ thị tài nguyên - tiến trình dùng để biểu thị mối quan hệ gián tiếp và các loại tài nguyên mà tiến trình nắm giữ. Thường thì nó sẽ được tìm kiếm, chống (hoặc là ngăn chặn) ngừa deadlock với một số thuật

28/7/25 Báo cáo

G

gavea 9

b

Cau hoi 47

In the Banker's algorithm, what is the purpose of the "maximum demand" matrix?

- A. To specify the number of instances of each resource currently held by each process.
- B. To record the maximum resources each process may need during its execution.
- C. To list the resources currently available in the system.
- D. To identify deadlocked processes.



B

19/4/25 Báo cáo

H

classic 147

B

25/7/25 Báo cáo

G

gavea 9

b

31/7/25 Báo cáo



Nguyen_Toan 0

B

5/8/25 Báo cáo



CANCFI 0

Cau hoi 48

Which deadlock condition does "Take resources away" attack?

- A. Hold and wait
- B. Mutual exclusion
- C. No preemption
- D. Circular wait



C

19/4/25 Báo cáo

H

classic

147

C

25/7/25 Báo cáo

G

gavea

9

C

31/7/25 Báo cáo



Nguyen_Toan

0

C

5/8/25 Báo cáo



CANCFI

0

Cau hoi 49

A problem closely related to deadlock and livelock is_____

- A. Starvation
- B. Communication
- C. Two-phase locking
- D. Prevention



A

19/4/25 Báo cáo

H

classic 147

A

25/7/25 Báo cáo

G

gavea 9

a

31/7/25 Báo cáo



Nguyen_Toan 0

A

5/8/25 Báo cáo



CANCFI 0

Cau hoi 50

Paravirtualization takes a different approach by modifying the source code of the guest operating system instead rather than performing sensitive instructions.
In this context, which of the following is true?

- A. the paravirtualized guest executes system calls
- B. the paravirtualized guest executes virtual calls
- C. the paravirtualized guest executes hyper calls
- D. the paravirtualized guest executes Hyper commands



C

19/4/25 Báo cáo

H

classic

147

C

25/7/25 Báo cáo

G

gavea

9

C

31/7/25 Báo cáo



Nguyen_Toan

0

C

5/8/25 Báo cáo



CANCFI

0