Quiz 05

Thursday, 13 October 2022 11:51

The mapping of a logical address to a physical address is done dynamically in

The mapping of a logical address to a physical address is done dynamically in

- a. load-time binding
- b. compile-time binding
- c. execution-time binding

Which dynamic storage-allocation policy results in the largest leftover hole in memory?

Which dynamic storage-allocation policy results in the largest leftover hole in memory?

- a. First fit
- b. Worst fits
- c. Best fit

Which of the following memory allocation methods may result in external fragmentation?

Which of the following memory allocation methods may result in external fragmentation?

- a. Both paging and segmentation
- b. Paging
- c. Both dynamic partitioning & segmentation
- d. Both dynamic partitioning & paging

Considering a logical address with a page size of 8 KB, how many bits must be used to represent the page offset in the logical address?

Considering a logical address with a page size of 8 KB, how many bits must be used to represent the page offset in the logical address?

- a. 13
- b. 10
- c. 8
- d. 12

Which of the following memory allocation methods may result in internal fragmentation?

Which of the following memory allocation methods may result in internal fragmentation?

- a. Dynamic partitioning
- b. Paging
- c. Segmentation

Which dynamic storage-allocation policy has least overhead?

Which dynamic storage-allocation policy has least overhead?

- a. Worst fits
- b. Best fit
- c. First fit

Which of the following statement about memory compaction is true?

Which of the following statement about memory compaction is true?

- a. It can be done at compile, load, or execution time.
- b. It is possible only if address binding is dynamic and done at execution time.
- c. It does not shuffle memory contents.
- d. It is used to solve the problem of internal fragmentation.

Quiz 05

Thursday, 13 October 2022 11:51

Re-locatable code will be generated for

Re-locatable code will be generated for

- (●) a. execution-time binding
- ( ) b. load-time binding
- ( ) c. compile-time binding

Memory compaction can be performed if address binding is done in

Memory compaction can be performed if address binding is done in

- ( ) a. compile-time
- (●) b. execution-time
- ( ) c. load-time

Which of the following memory allocation approaches assumes logical address space of a process is contiguous?

Which of the following memory allocation approaches assumes logical address space of a process is contiguous?

- ( ) a. Dynamic partitioning
- ( ) b. Paging
- ( ) c. Segmentation
- (●) d. All the above

Which of the following memory allocation approaches allocates contiguous memory space for a process?

Which of the following memory allocation approaches allocates contiguous memory space for a process?

- (●) a. Dynamic partitioning
- ( ) b. Paging
- ( ) c. Segmentation
- ( ) d. All the above

Which dynamic storage-allocation policy results in the smallest leftover hole in memory?

Which dynamic storage-allocation policy results in the smallest leftover hole in memory?

- ( ) a. Worst fits
- (●) b. Best fit
- ( ) c. First fit

Logical address and physical address will be the same if address binding is performed in

Logical address and physical address will be the same if address binding is performed in

- ( ) compile-time
- ( ) load-time
- ( ) execution-time
- (●) both compile-time and load-time

Quiz 05

Thursday, 13 October 2022 11:51

Given the logical address 0xAEF9 (in hexadecimal) with a page size of 256 bytes, what is the page offset?

Given the logical address 0xAEF9 (in hexadecimal) with a page size of 256 bytes, what is the page offset?

- a. 0X9
- b. 0XF9
- c. 0xAF9
- d. 0xAE

Given the logical address 0xAEF9 (in hexadecimal) with a page size of 256 bytes, what is the page number of this logical address?

Given the logical address 0xAEF9 (in hexadecimal) with a page size of 256 bytes, what is the page number of this logical address?

- a. 0xAE
- b. 0xA
- c. 0X9
- d. 0xF9