

HW9.4. Virtual Memory Potpourri

Q1: Which of the following statements about virtual memory are true?

☐ (a) Virtual memory allows programs to access more memory than is available in the real primary memory of the machine.

☐ (b) Virtual memory reduces memory access latency.

☐ (c) Virtual memory provides protection for the operating system.

☐ (d) Virtual memory gives programs their own address space (starting at address zero).

☐ (e) The size of virtual memory can be smaller than the size of physical memory.

Select all possible options that apply. ?

Q2: Which is the primary need for a translation look-aside buffer (TLB) when using virtual memory?

☐ (a) It significantly reduces the average access time to memory by caching page table information.

☐ (b) It is used to keep copies of the page protection information so that access can be checked before retrieving pages from secondary storage.

☐ (c) It solves the problem of locality of reference when pages which are stored a long way from each other are accessed at the same time.

☐ (d) It buffers pages in physical memory so that access to them is faster.

Select all possible options that apply. ?

Save & Grade 20 attempts left

Save only

Additional attempts available with new variants ?

Homework 9

Assessment overview

Total points:

0/100

Score:

0%

Question

Value:

5

History:

Awarded points:

0/5

Report an error in this question ?

Previous question

Next question

Attached files

No attached files

Attach a file ?

Attach text ?