EE3450 Hw5 - Question 6 (5.18)   總分   6/6   ?

Chapter 5 : Large and Fast: Exploiting Memory Hierarchy & Virtual Memory

0 分, 共 0 分

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Question 6 (5.18)   6 分, 共 6 分

[5.3] means you should have read Section 5.3. Under the Covers, to help you solve this exercise

In this exercise, we will examine space/time optimizations for page tables. The following list provides parameters of a virtual memory system.

Virtual Address	Physical DRAM installed	Page Size	PTE Size
43 bits	16 GiB	4 KiB	4 bytes

✓　1. [5.7] For a single-level page table, how many page table entries (PTEs)　3/3
are needed? (2^N entries, N=?) *

31　　　　　　　　　　　　　　　　　　　　　　　　　　✓

✓　2. [5.7] How much physical memory is needed for storing the page　3/3
tables? *

○　2 GB

○　4 GB

◉　8 GB　　　　　　　　　　　　　　　　　　　　　　✓

○　16 GB

這份表單是在 清華大學 中建立。

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