Virtual memory quiz

1 play • 65 players

A kahoot by Penn State

Questions (6)

1 - Poll

Exam 2 survey: How was the exam time?

20 sec

- Too short
- Just right
- Too long
- Wait, there was an exam?

2 - Poll

Exam 2 survey: How was the questions?

20 sec

- Toooooo easy
- Just right
- Too hard!!
- Honestly I did not study so I don't know

3 - Quiz

If you are accessing an array A[i][j] in a nested loop, which of the following is true?

90 sec

- The innermost loop should be i for good spatial locality ✗
- The innermost loop should be j for good spatial locality ✓
- The innermost loop should be i for good temporal locality ✗
- The innermost loop should bej for good temporal locality ✗

4 - Quiz

What is NOT the benefit of using virtual memory?

60 sec

- Each program has an illusion of having a private virtual address space ✗
- Each program has an illusion of having a larger memory ✗
- Main memory sharing can be done safely across programs ✗
- Improves cache performance ✓

5 - Quiz

What is NOT true about virtual address translation?

60 sec

- Pages can either be in the main memory or secondary storage ✗
- It leverages the concept of locality ✗
- It uses a dedicated hardware resource called a page table ✓
- It is done by the OS ✗

6 - Quiz

What is NOT true about the difference between virtual memory translation and the cache lookup?

60 sec

- Pages are larger than cache blocks ✗
- Page placement is fully associative, while cache placement is usually not ✗
- Software finds pages, while hardware files cache blocks ✗
- Writes to pages are write-through, while to caches are write-back ✓