Courseware Course Info Discussion Wiki Progress Discussion Guidelines Resources Exploring Engineering

Syllabus How to Use Jade

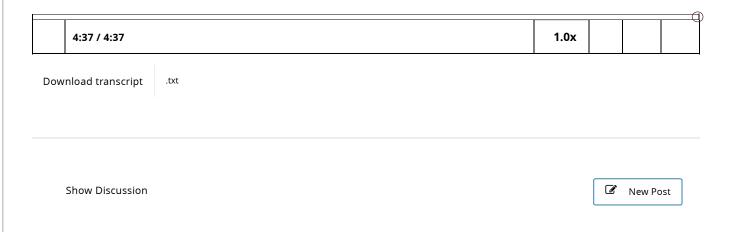
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MEMORY TECHNOLOGY

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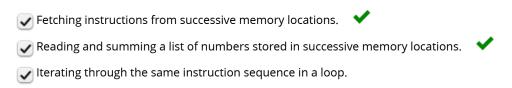
CACHE

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1. CHECK YOUR UNDERSTANDING (1 point possible)

Consider a cache with a block size of multiple instructions, or multiple data words. Which of the following operations would show a performance improvement due to *spatial*, rather than *temporal*, locality? [CHECK ALL THAT APPLY]



EXPLANATION

By bringing in a block of instructions on a miss, the cache exploits spatial locality when successive instructions are fetched.

By bringing in a block of numbers on a miss, the cache exploits spatial locality when successive numbers are accessed.

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When rereading the same instruction sequence on successive loop iterations, the cache exploits locality in time, or temporal locality. You have used 2 of 2 submissions **Hide Answer** Help Show Discussion New Post



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