Quiz #3

截止时间 4月17日 23:59 **得分** 10 **问题** 10 **可用** 4月15日 0:01 至 4月17日 23:59 3 天 **时间限制** 60 分钟

说明

Welcome to the Week #3 quiz!

Remember that this is due Sunday night at 23:59. Canvas is very unforgiving, so don't push it.

Also, remember that this is open-notes. Good luck!

尝试历史记录

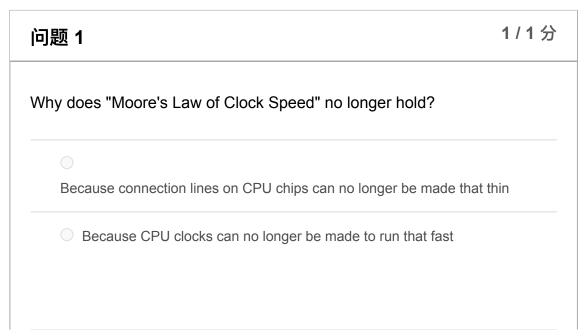
	尝试	时间	分数	
最新	<u>尝试 1</u>	8 分钟	10,满分 10 分	
 				

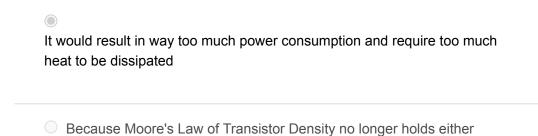
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① 正确答案将于 4月18日 0:01 提供。

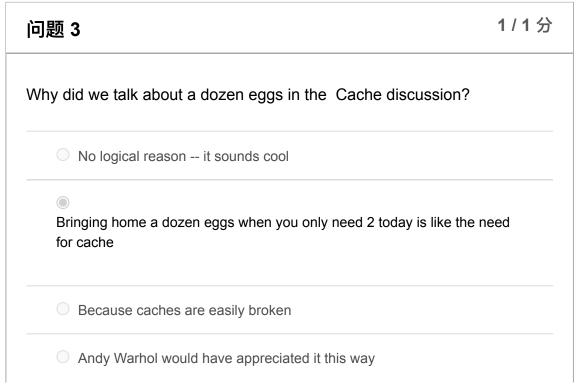
此测验的分数: 10,满分10分

提交时间 4月15日 10:34 此尝试进行了 8 分钟。





问题 2	1/1分
The difference between L1 and L2 cache is	
L2 has two banks of memory, L1 only has one	
L1 is smaller and faster than L2	
L1 is larger and slower than L2	
Nothing they are two terms for the same thing	



问题 4	1/1分
Caches are at their very best when your code takes advantage or	f
Singular and Temporal coherency	
Spatial and Temporal coherency	
Singular and Temporary coherency	
Spatial and Temporary coherency	

When adding up the elements of a 2D array in C or C++, it is faster to add the elements:

- Horizontally (i.e., across the rows) first
- It makes no speed difference either way
- O Vetically (i.e., down the columns) first

问题 6 1/1分

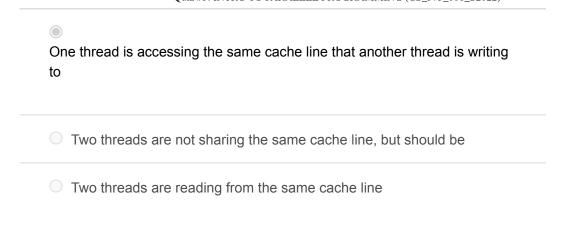
In terms of 32-bit (4-byte) floating-point numbers, the size of a cache line is:



8 floating-point numbers		
64 floating-point numbers		
32 floating-point numbers		
16 floating-point numbers		

问题 7	1/1分
MESI stands for	
Modified-Exclusive-Single-Invalid	
Nothing, it is someone's name	
Modified-Exclusive-Shared-Invalid	
Modified-Exterior-Shared-Invalid	
Multicore-Exclusive-Shared-Invalid	
Modified-Exclusive-Shared-Instructions	

问题 8	1/1分
False Sharing happens because	
More than two threads are trying to read from the same cache I	ine



问题 9	1/1分
AMD recently achieved a remarkably-high CPU clock speed by:	
Running the CPU outside at the north pole	
Cooling the chip with four fans	
Cooling the chip with liquid nitrogen	
Running the CPU in the Penguin Encounter at Sea World	

问题 10	1/1分
When performing a matrix multiply:	
The order of the i-j-k for-loops makes a big difference in performa	nce
The order of the i-j-k for-loops makes a slight difference in perform	mance
The order of the i-j-k for-loops makes no difference in performance	ee

测验分数: 10, 满分 10 分

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