

ID:

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1. (5 Points) True or False? Why?

- a. We can increase the computer speed with a larger Hard Disk. []
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- b. In Cuda platform, the GPU initiate data request from CPU to GPU. []
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- c. The GPU consists of a set of physical chips called blocks, each contains a set of threads. []
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- d. The Mapping pattern represents a one to one relation between input and output. []
.....
- e. It's easier to parallelize Scatter pattern than Map pattern []
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2. (5 points) The following instruction launch a Cuda kernel called foo.

`foo <<< 100, 2000 >>>`

a. What is the problem with this instruction on a modern processor?.

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b. Rewrite the instruction to fix the problem.

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c. How many threads does this instruction launch?

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d. Rewrite the instruction to apply each thread on matrix of size (10 x 10).

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