

EE147

Lab 1 Report: Simple Vector Add

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Questions

1. How many total thread blocks do we use?

With the default case of 1000 threads and each block having 256 threads, the total number of thread blocks used would be 4 thread blocks.

2. Are all thread blocks full? That is, do all threads in thread blocks have data to operate on?

Not all thread blocks are full since 4 full thread blocks would require 1024 threads. Therefore, 24 threads operate on nothing.

3. How can this basic vector add program be improved?

This program can be improved by adding a parameter to the function `basicVecAdd` to allow the user to input the size of the thread block without having to change it in the `kernel.cu` code.