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1. How many total thread blocks do we use?

(int)1000/256+1=4 blocks

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

No, because we only have 1000 elements, but 1024 threads. So, for those three blocks, they are full. For the fourth block, it’s not full.

1. How can this basic vector add program be improved? (What changes do you think can be made to speed up the code?)

Change the size of block to divisor of N, like 250. (which l have tried it works)

The time of launching kernel has decreased from 0.000061s to 0.000037s .