

HW: CUDA - Blurring/Averaging a picture with Shared Memory

This homework is to do the blurring/averaging of a picture by CUDA. We did this homework by OpenMP.

Please try to use multi block, and each block has multi threads to launch your GPU kernel.

If you use 1D block and 1D threads in previous homework, now you need to change it to 2D block with 2D threads first.

In this homework, you will be required to use shared memory and other techniques to increase the performance of your code.

Test your code with an image. Compare the time with previous homework. And submit your code and report.