Lab 3 Report

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Questions

Assume you perform a histogram operation on an array of size N, 16 blocks, block size of B and 1024 bins. Assume a privitized histogram implementation.

1. How many global memory reads are performed during the histogram kernel?
Answer:

N + 1024 * 16

2. How many global memory writes are performed during the histogram kernel?
Answer:

1024 * 16

3. How many total atomic operations are performed?
Answer:

N + 1024 * 16