HEIDELBERG UNIVERSITY INSTITUTE FOR COMPUTER ENGINEERING (ZITI)

MASTER OF SCIENCE COMPUTER ENGINEERING GPU COMPUTING

Exercise 7

gpucomp03

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7.1 Naive GPU implementation

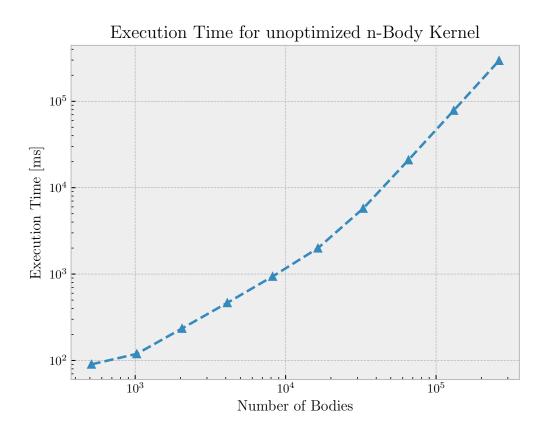


Figure 1: Execution times for unoptimized n-body kernel

7.2 Optimized GPU implementation

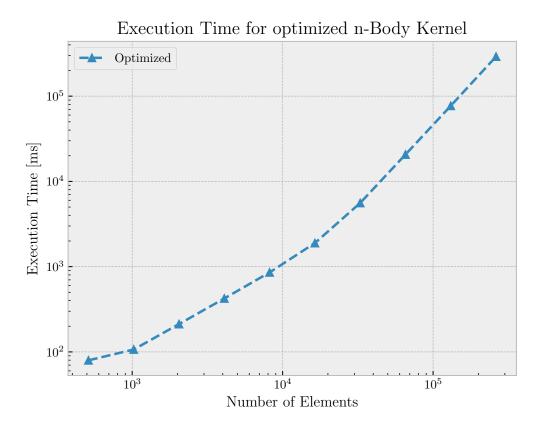


Figure 2: Execution times for unoptimized n-body kernel

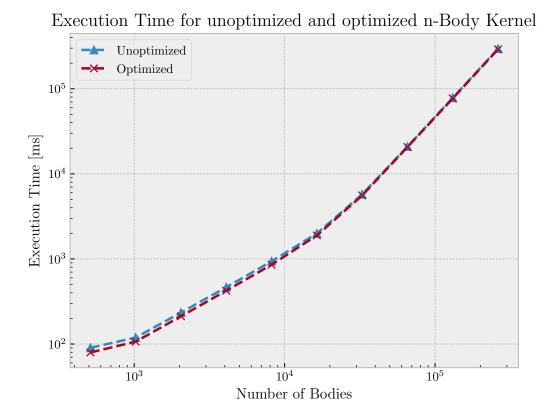


Figure 3: Comparison of execution times for optimized and unoptimized versions

7.3 n-Body GPU computations and streaming

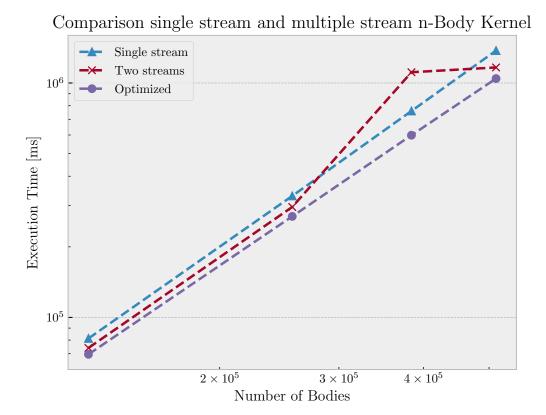


Figure 4: Execution times for n-body kernel using one and two streams

7.4 Willingness to present

Hereby, we declare our will to present the results shown in the former sections.