

Gaussian implementation

Runtimes:

Matrix size – Time (hr:min:sec)

2048 - 00:02:08

4096 - 00:31:41

8192 - Timeout

16384 - Timeout

Timing analysis

For the given block size, time execution of the program (Cuda version) is considerably increasing with the increase of problem size. If you see the runtimes, with matrix size of 2048 takes 2 min 8 sec and where 8192, 16384 takes more than an hour which leads to time out.

Contribution:

Naga Ganesh Kurapati : Developing code, executing with two of matrix sizes

Bhavya Guntupally : Developing code, executing with two of matrix sizes