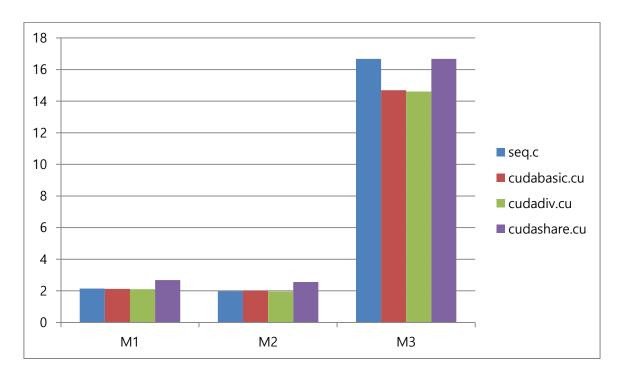
Lab 3 Report
Jiwon Shin
6, May, 2015



For the above graph:

M1 = 14000000

M2 = 13000000

M3 = 1000000000

- 1. For the GPU version to be better than the sequential version, the size of the data set must be large enough.
- 2. M2 is lower than M1 because the branch divergence helps thread actions to be carried out faster with less amount of thread context switching happening
- 3. M3 is higher than M1, as it requires data set to be large enough to compensate for the cost of sharing the data set amongst all threads.
- 4. No optimizations were used besides branch divergence and shared memory usage, as having more optimizations may also lead to higher overhead costs, leading to slower performance time.