Introduction to CUDA Parallel Programming Homework Assignment 2 Due 2020/03/24

1. Use twqcd135:/home/cuda_lecture/vecDotProduct/vecDot.cu as a template to write your own code for finding the maximum of an array of real numbers with parallel reduction. The input array is generated by the routine RandomInit with 81920007 elements. Also, determine the optimal block size and grid size for this problem.

Your homework report should include your source codes, results, and discussions. The discussion file should be prepared with a typesetting system, e.g., LaTeX, Word, etc., and it is converted to a PDF file. All files should be zipped into one gzipped tar file, with a file name containing your student number and the problem set number (e.g., r05202043 ps2.tar.gz).

Please send your homework from your NTU email account to twchiu@phys.ntu.edu.tw before 24:00 of the due date.