Introduction to CUDA Parallel Programming Homework Assignment 2
Due 2022/04/06

1. Write your own CPU+GPU code for finding the maximum of the absolute value of an array of real numbers with parallel reduction. You can use the sample code in twqcd80:/home/cuda_lecture_2022/vecDotProduct/vecDot.cu as template. The input array can be 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_HW2.tar.gz).
   Please send your homework from your NTU/NTNU email account to twchiu@phys.ntu.edu.tw before 24:00 of the due date.