Université de Pau et des Pays de l'Adour
Département de Mathématiques
2020-2021

M2-BigData : GPGPU
Chapter 13 – Exercice 1

Objectives

Write a first simple OpenACC code.

Instructions

1. Write a CPU version of the vectorAdd code from Chapter 3.
2. Write a second version using explicit data movement directives

Questions

1. Use the profiler to compare the 3 versions of vector add : CUDA, OpenACC with generated data transfers and OpenACC explicit data managment. Are the execution time of the whole algorithm (transfers + computations) are almost the same ? Explain ?