Instructor Guide

Lesson:

1. (ppt) Slides Contain:
   1. Learning Objectives
   2. Explanation of the problem Sequential
   3. Explanation of how to parallelize the problem
2. Code is written in C
   1. How to compile and run the code is explained directly on the slides with the command line compiler instruction
   2. The environment used :CPU type, GPU type, OS , Compiler version (gcc, CUDA, MPI, OpenMP)
3. (mp4) Video Lecture:
   1. Narration of the slides
4. Code:
   1. Implementation of the example explained in the slides

Common Pitfalls for Students and Instructors

Students:

1. Ignoring the race condition on the hist[]++
2. Confusing Shared and Global memory and try to access the shared memory array (only numberOfThreadsPerBlock wide-256) with the global threadId