Instructor Guide

Lesson:

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