

COMP 322: Fundamentals of Parallel Programming (Spring 2014)

Instructor: Vivek Sarkar

Worksheet 13: due by start of next class (Feb 17th)

Name: _____ Netid: _____

Honor Code Policy: You are free to discuss all aspects of in-class worksheets with your other classmates, the teaching assistants and the professor during the class. You can work in a group in a class, and write down the solution that you obtained as a group. If you work on the worksheet outside of class, then it must be an individual effort. If you use any material from external sources, you must provide proper attribution.

Iterative Averaging Variants

1. Download the OneDimAveragingBarrier.java file
2. Run the OneDimAveragingBarrier program on your laptop and record the minimum time observed for each of the following cases.
 - a. Sequential Time:
 - b. Forall-Chunked [tasks=2] Time:
 - c. Forall-barrier [tasks=2] Time:
3. Slides 7-10 outlined four different variants of Iterative Averaging. The computations for cases b. and c. above are performed by the methods listed below. Enter the slide number corresponding to the variant for each method:
 - b. Method runForallChunked() implements the variant in slide number _____
 - c. Method runForallBarrier () implements the variant in slide number _____