Study Guide

Week 2 Monday January 18th 2016 – Sunday January 24th, 2016

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Study Materials on Moodle

- *PowerPoint Slides*
  - Introduction to OpenMP- I
- *Video*
  - *Lecture 3 -* 75-minute video of Lecture 3 in Fall 2014, on *Introduction to OpenMP- I* and Assignment 1.
- *Sample Quiz Questions*
  - Amdahl's law
  - OpenMP directives

Tasks

- **Mini-Quiz:** Answer the short posted quiz before 11:55 pm Sunday January 24th, 2016. This quiz also covers week 1.
- **Complete Pre-Assignment** - Setting up software environment
  - Pre-Assignment Due: *Friday January 22nd, 2016*
- **Assignment 1** – OpenMP tutorial
  - Assignment 1 Instructions
  - Assignment 1 Due: *Sunday January 31st, 2016*

Moodle Saba meeting – Friday *January 22nd, 2016*, 6 pm

Introduction to OpenMP- I describes in some detail the OpenMP standard for programming shared memory systems including the thread team pattern used in OpenMP, and OpenMP directives/constructs including parallel, shared and local variables, work-sharing, sections, for, loop scheduling, for reduction, single and master. OpenMP constructs will be continued in Week 3.

Note the posted slides were slightly updated from those used in the Fall 2014 video. In particular, firstprivate and lastprivate clauses were dropped. You will not be asked about those. You are expected to know what is in the posted slides. This applies throughout the course.

Mini-Quiz: Remember the mini-quizzes are used to record "attendance" (and to see if there are any issues with understanding the materials), so make sure you answer Week 2 mini-quiz.

Assignment 1 Instructions: Assignment 1 is a tutorial on OpenMP with much of the code given (and even loaded into the VM). As with most assignments, you first compile and test the code on your own computer before finally trying the code on the UNCC cluster. Note you only have one week to do this assignment so start early!