

Slide 1

Administrivia

- All regular homeworks should be in by now. We need to set a “not accepted past” date. I propose next Wednesday (May 6) at 11:59pm.
- Sample solutions for all regular homeworks on Web.
- Project proposals due today at 11:59pm. Okay to turn them in tomorrow if you need to talk to me first.
- Project presentations May 8 at noon. Everything else due the same day at 11:59pm.
- Tentative office hours tomorrow and next week: Tomorrow 1:30pm to 2:30pm. Tuesday through Thursday next week 2pm to 4pm. Other times by appointment.

Slide 2

More Administrivia

- “What about our grades?” You will get information by e-mail as soon as I have it. Recall grades/comments on Homework 1.
 - Recall(?) weights from syllabus:
 - 20 points class participation (attendance).
 - 140 points homework.
 - 100 points project.
- (Be advised also that in the past I have sometimes given extra credit for particularly good projects.)

Review of Course

- “PAD I for parallel programming”? We covered:
 - Three languages/libraries — OpenMP, MPI, Java.
 - How to find and exploit concurrency in programs.
- We also did several running examples and some homeworks . . .

Slide 3

Review of Homeworks

- Homeworks 1 and 2 — estimating π with Monte Carlo methods. Basic structure is *Task Parallelism*. Complication is that you need a thread-safe RNG.
- Homework 3 — Conway's game of life. Basic structure is *Geometric Decomposition*. Basic idea easy, details a bit messy (particularly for MPI).
- Homework 4 — quicksort. Basic structure is *Divide and Conquer*.
- For all programs, probably need large problem sizes to get any benefit from multiple UEs. Even then performance may not be amazingly good, but the primary goal is pedagogical rather than practical.

Slide 4

Sort of for Fun — Performance Results versus Hype

Slide 5

- Fifteen years ago one David Bailey wrote a paper called “Twelve Ways to Fool the Masses When Giving Performance Results on Parallel Computers”. Somewhat tongue in cheek, but many very valid points.
- Link to original text on course “Useful links” page. Let’s skim . . .
- Points for discussion: Have we been guilty, in this course, of doing any of the things he warns against, or have we been careful to avoid them? What if anything does it mean when your parallel program doesn’t seem to run faster as you increase the number of UEs? (It could mean that “multicore is the wave of the future!” is hype, right? Does it?)

Minute Essay

Slide 6

- How did the course compare with your expectations/goals? Did you learn what you hoped to learn?