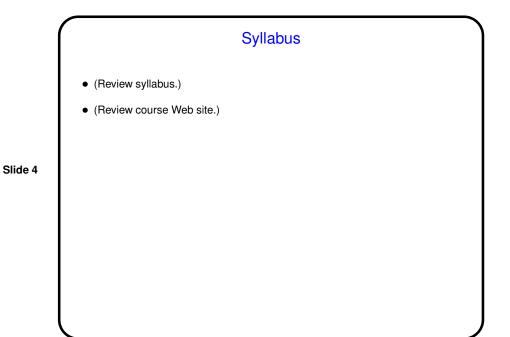


A Few Words About Teaching and Learning This Semester

- The good news: We're back in the classroom! (We can see at least part of each others' faces.)
- The bad news: We're back in the classroom! (News about the pandemic is getting scary again.)
- I feel more at risk than the average person, but Trinity really wants in-person teaching. So: Classes in person, virtual office hours.





About the Textbook

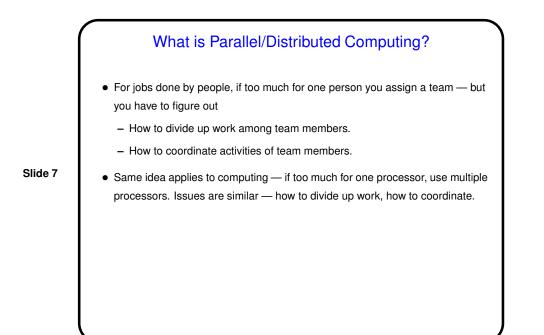
 Why are we using "my" book when there are books that are more textbook-like, and also more recent? because I think it comes closer than any other book I know to covering the material I think is perhaps best learned from a book.

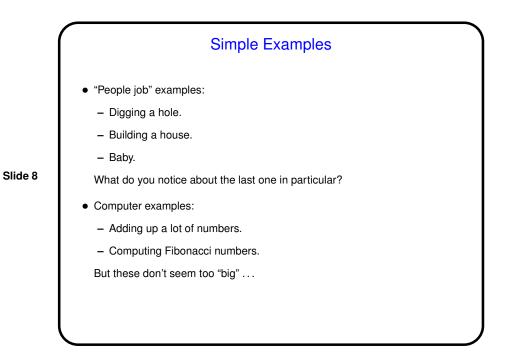
Slide 5

- (And no, I'm not getting rich off the royalties! though extra income is not unwelcome.)
- I somehow neglected to turn in a bookstore order until the last minute, so who knows when the bookstore will get copies. I've put one copy of the book on 1-day reserve at the library.

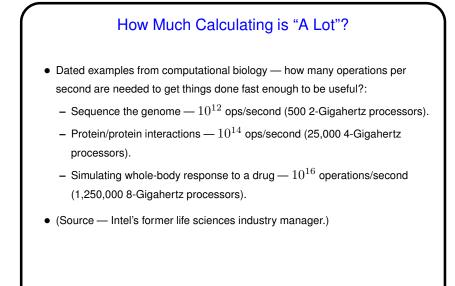
What is Parallel/Distributed Computing?

- Some computational jobs are just too much for one processor no way to get them done in reasonable time.
- For jobs done by people, what do you do when the job is too much for one person?





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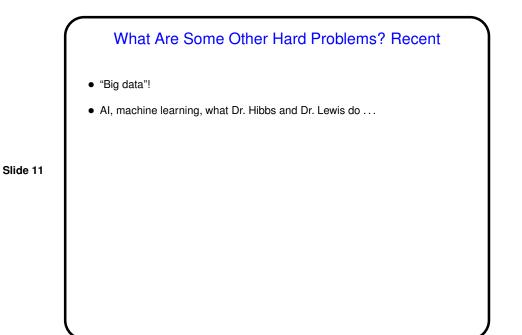


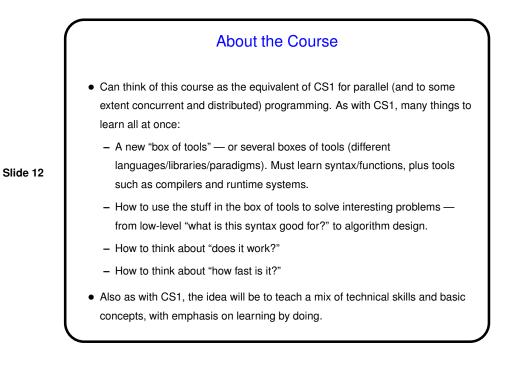
What Are Some Other Hard Problems? Traditional HPC

- Crash simulation / structural analysis.
- Oil exploration.
- Explosion simulations (why Los Alamos is interested).

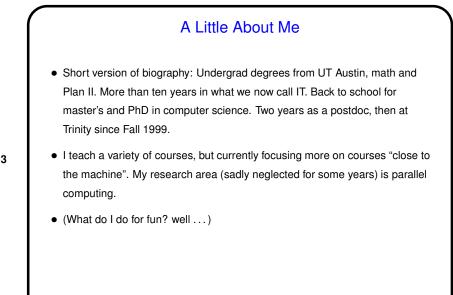
• Astrophysics simulations (e.g., Dr. Lewis's work on Saturn's rings).

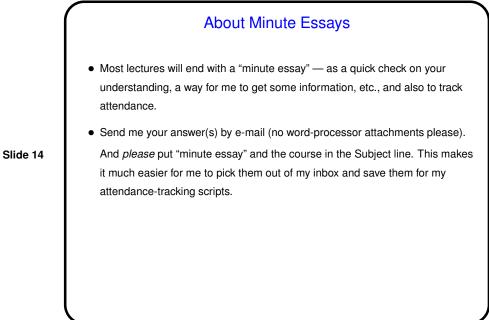
- Fluid dynamics.
- "Rendering" for computer-generated animation.
- And many others ...

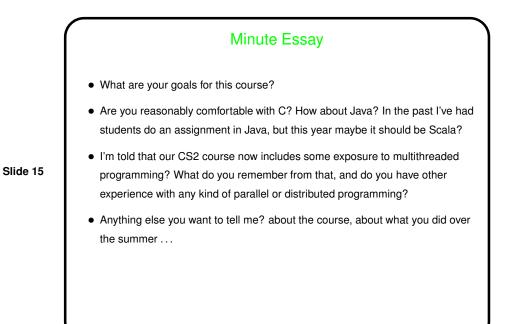




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