Welcome to the XSEDE OpenMP Workshop

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Who are we?

Your hosts:
Pittsburgh Supercomputing Center

Our satellite sites:
Tufts University
University of Utah
Howard University
Purdue University
University of Delaware
Old Dominion University
Ohio Supercomputer Center
Pennsylvania State University
University of Nebraska-Lincoln
University of Houston-Clear Lake
National Center for Supercomputing Applications
Who am I?

John Urbanic
Parallel Computing Scientist
Pittsburgh Supercomputing Center

Parallelize codes with

• MPI
• OpenMP
• OpenACC
• Hybrid
• Now Big Data!

Mostly for XSEDE platforms. Mostly to extreme scalability.
XSEDE HPC Monthly Workshop Schedule

- November 3: *HPC Monthly Workshop: Big Data*
- December 3: *HPC Monthly Workshop: OpenACC*
- January 20: *HPC Monthly Workshop: OpenMP*
- February 9, 10: *HPC Monthly Workshop: MPI*
- March 8: *HPC Monthly Workshop: OpenACC*
- April 5: *HPC Monthly Workshop: Big Data*
- May 10: *HPC Monthly Workshop: OpenMP*
- June 14-17: *HPC Monthly Workshop: HPC Summer Boot Camp*
- August 9: *HPC Monthly Workshop: Big Data*
- September 7, 8: *HPC Monthly Workshop: MPI*
- October 4: *HPC Monthly Workshop: OpenMP*
- November 1: *HPC Monthly Workshop: Big Data*
- December 6: *HPC Monthly Workshop: OpenACC*
- **January 16**: *HPC Monthly Workshop: OpenMP*
- February 10: *HPC Monthly Workshop: Big Data*
HPC Monthly Workshop Philosophy

- Workshops as long as they *should* be.
- You have real lives…
  - in different time zones…
  - that don’t come to a halt.
- General Agenda
  - Lightweight first morning to get all the logistical nonsense out of the way so we can focus on…
  - Intense afternoon
- Learning is a social process
  - This is not a MOOC
  - This is a Wide Area Classroom
Tuesday, October 4

11:00  Welcome
11:15  Computing Environment
11:30  It’s a Multi-core World
12:00  Intro to OpenMP
1:00   Lunch Break
2:00   Exercise 1
2:45   More OpenMP
3:30   Exercise 2
4:00   OpenMP Retrospective
4:15   OpenMP 4.0 Sneak Peek
5:00   Adjourn
Resources

Your local TAs

Questions from the audience

On-line talks

bit.ly/XSEDE-Workshop
Getting Time on XSEDE

https://portal.xsede.org/web/guest/allocations