Welcome to the XSEDE OpenMP Workshop

John Urbanic
Parallel Computing Scientist
Pittsburgh Supercomputing Center

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Who are we?

Your hosts:
Pittsburgh Supercomputing Center

Our satellite sites:

Georgia Tech
Purdue University
Temple University
Howard University
University of Arizona
Texas Tech University
University of Michigan
University of Cincinnati
University of Delaware
Georgia State University
Old Dominion University
Arizona State University
Louisiana State University
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Oklahoma State University
Pennsylvania State University
University of Texas at El Paso
University of Nebraska-Lincoln
University of Houston - Clear Lake
Lawrence Berkeley National Laboratory
National Center for Supercomputing Applications
University of Tennessee, Knoxville - National Institute for Computational Sciences
John Urbanic
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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

- June 6-9: Summer Boot Camp
- August 15: HPC Monthly Workshop: OpenMP
- September 12-13: HPC Monthly Workshop: Big Data
- October 3-4: HPC Monthly Workshop: MPI
- November 7: HPC Monthly Workshop: OpenACC
- December 5-6: HPC Monthly Workshop: Big Data
- January 9: HPC Monthly Workshop: OpenMP
- February 7-8: HPC Monthly Workshop: Big Data
- March 6: HPC Monthly Workshop: OpenACC
- April 3-4: HPC Monthly Workshop: MPI
- May 1-2: HPC Monthly Workshop: Big Data
- June 4-7: Summer Boot Camp
- August 7: HPC Monthly Workshop: OpenMP
- September 5-6: HPC Monthly Workshop: Big Data
- October 2-3: HPC Monthly Workshop: MPI
- November 6: HPC Monthly Workshop: OpenACC
- December 4-5: 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.

- Learning is a social process
  - This is not a MOOC
  - This is the **Wide Area Classroom**
  - so raise your expectations
Tuesday, January 9th

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
The YouTube Channel Has Arrived!

Due to overwhelming demand, and a lot of editing, we have begun to post workshop videos on the XSEDE Monthly Workshop Training Channel:

**XSEDETraining**

They will be incrementally appearing in the coming months. Subscribe and give us feedback.

Resources

Your local TAs

Questions from the audience

On-line talks

Getting Time on XSEDE

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