Welcome to the XSEDE OpenMP Workshop

John Urbanic
Parallel Computing Scientist
Pittsburgh Supercomputing Center
Who are we?

Your hosts:
Pittsburgh Supercomputing Center

Our satellite sites:

Tufts University
Purdue University
New York University
Texas Tech University
Oral Roberts University
Arizona State University
East Carolina University
Northwestern University
Pennsylvania State University
Georgia Institute of Technology
University of Houston - Clear Lake
National Center for Supercomputing Applications
University of Tennessee, Knoxville - National Institute for Computational Sciences
John Urbanic
Parallel Computing Scientist
Pittsburgh Supercomputing Center

Parallelize codes with

- MPI
- OpenMP
- OpenACC
- Hybrid
- Big Data and Machine Learning

Mostly for XSEDE platforms. Mostly to extreme scalability.
<table>
<thead>
<tr>
<th>Month</th>
<th>Dates</th>
<th>Workshop Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>3-4</td>
<td>HPC Monthly Workshop: MPI</td>
</tr>
<tr>
<td>October</td>
<td>1-2</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
<tr>
<td>November</td>
<td>5</td>
<td>HPC Monthly Workshop: OpenMP</td>
</tr>
<tr>
<td>December</td>
<td>3-4</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
<tr>
<td>January</td>
<td>21</td>
<td>HPC Monthly Workshop: OpenMP</td>
</tr>
<tr>
<td>February</td>
<td>19-20</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
<tr>
<td>March</td>
<td>3</td>
<td>HPC Monthly Workshop: OpenACC</td>
</tr>
<tr>
<td>April</td>
<td>7-8</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
<tr>
<td>May</td>
<td>5-6</td>
<td>HPC Monthly Workshop: MPI</td>
</tr>
<tr>
<td>June</td>
<td>2-5</td>
<td>Summer Boot Camp</td>
</tr>
<tr>
<td>August</td>
<td>4-5</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
<tr>
<td>September</td>
<td>1-2</td>
<td>HPC Monthly Workshop: MPI</td>
</tr>
<tr>
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<td>6-7</td>
<td>HPC Monthly Workshop: Big Data</td>
</tr>
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<td>3</td>
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</tr>
</tbody>
</table>
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 21st

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

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.
XSEDE has an external code of conduct for XSEDE sponsored events which represents XSEDE's commitment to providing an inclusive and harassment-free environment in all interactions regardless of gender, sexual orientation, disability, physical appearance, race, or religion. The code of conduct extends to all XSEDE-sponsored events, services, and interactions.

Code of Conduct: [https://www.xsede.org/codeofconduct](https://www.xsede.org/codeofconduct)

Contact:
- Event organizer: Tom Maiden, PSC (tmaiden@psc.edu)
- XSEDE ombudspersons:
  - Linda Akli, SURA ([akli@sura.org](mailto:akli@sura.org))
  - Lianne Destefano, Georgia Tech ([lizanne.destefano@ceismc.gatech.edu](mailto:lizanne.destefano@ceismc.gatech.edu))
Getting Time on XSEDE

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

even simpler:

https://psc.edu/apply-for-an-xsede-startup-grant
Check your email now for the post-event survey.

Surveys are conducted by an external evaluation team. XSEDE staff will not know who said what. If you have questions regarding the evaluation please contact: Lorna Rivera, lorna.rivera@gatech.edu, or Lizanne DeStefano, ldestefano6@gatech.edu