HUST-2017: Fourth International Workshop on HPC User Support Tools.

Call for participation

Held in conjunction with
SC17: The International Conference
on High Performance Computing,
Networking, Storage and Analysis.

Denver, CO, USA
12 November 2017

1 Introduction

Supercomputing centers exist to drive scientific discovery by supporting researchers in computational science fields. To make users more productive in the complex HPC environment, HPC centers employ user support teams. These teams serve many roles, from setting up accounts, to consulting on math libraries and code optimization, to managing HPC software stacks. Often, support teams struggle to adequately support scientists. HPC environments are extremely complex, and combined with the complexity of multi-user installations, exotic hardware, and maintaining research software, supporting HPC users can be extremely demanding.

With the fourth HUST workshop, we will continue to provide a necessary forum for system administrators, user support team members, tool developers, policy makers and end users. We will provide a forum to discuss support issues and we will provide a publication venue for current support developments. Best practices, user support tools, and any ideas to streamline user support at supercomputing centers are in scope.

2 Topics

Topics of interest include, but are not limited to:

- defining and customising the user environment
- software build and installation tools
- tools and frameworks for using system performance analysis tools
- workflow and pipeline tools
- collaboration tools
- novel environments: cloud, support for Docker.
- supporting Hadoop and Spark clusters for *Big Data*
- establishing baseline configuration efforts for HPC
- software tools for system testing and *monitoring*
- documentation: creating, maintaining and auto-updating

3 Submission

We invite authors to submit original, high-quality work with sufficient background material to be clear to the HPC community. Format: Submissions are limited to 10 pages in the ACM format (see http://www.acm.org/sigs/publications/proceedings-templates). The 10-page limit includes figures, tables, and your appendices, but does not include references, for which there is no page limit. Papers should be submitted in PDF format. The margins and font sizes should not be modified. We kindly refer authors to the necessary templates [2].

All submissions should be made electronically through the Easychair website [3]. Submissions must be double blind, i.e., authors should remove their names, institutions or hints found in references to earlier work. When discussing past work, they need to refer to themselves in the third person, as if they were discussing another researcher's work. Furthermore, authors must identify any conflict of interest with the PC chair or PC members.

Proceedings will be published in both IEEE Xplore and the ACM Digital library through collaboration with ACM SIGHPC.

4 Important dates

- Submission deadline: August 18th 2017
- Workshop paper reviews: by September 19th 2017
- Acceptance notifications: September 29th 2017
- Camera-ready papers: October 13th, 2017
- Workshop: At SC'17, November 12th, 2017

5 Organisers

- Christopher Bording, Pawsey Supercomputing Centre, Australia
- Todd Gamblin, LLNL, USA
- Olli-Pekka Lehto, Jump Trading, LLC, United Kingdom

5.1 General Chair

- Christopher Bording

5.2 Program Chair

- Todd Gamblin
- Olli-Pekka Lehto

5.3 Program Committee

- Daniel Ahlin, PDC HPC Center, KTH Royal Institute of Technology, Sweden
- Erik Engquist, Rice University, USA
- Wolfgang Frings, Juelich Supercomputing Centre, Germany
- Todd Gamblin, Lawrence Livermore National Laboratory, USA
- Andy Georges, Ghent University, Belgium
- Christopher Harris, Pawsey Supercomputing Centre, Australia
- Vera Hansper, CSC - IT Center for Science, Finland
- Paul Kolano, NASA, USA
- John C. Linford, ParaTools, USA
- Dave Montoya, Los Alamos National Laboratory, USA
- Randy Schauer, Raytheon Company, USA
- Gary B. Skouson, Pacific Northwest Nation Laboratory, USA
- William Scullin, Argonne National Laboratory, USA
- Karen Tomko, Ohio Supercomputing Center, USA