

5th Workshop on System-level Virtualization for High Performance Computing (HPCVirt 2011)

held in conjunction with [EuroPar 2011](#).
August 29, 2011, Bordeaux, France

Web page: <http://www.csm.ornl.gov/srt/conferences/hpcvirt2011/>

The emergence of virtualization enabled hardware, such as the latest generation AMD and Intel processors, has raised significant interest in High Performance Computing (HPC) community. In particular, system-level virtualization provides an opportunity to advance the design and development of operating systems, programming environments, administration practices, and resource management tools. This leads to some potential research topics for HPC, such as failure tolerance, system resilience, system management, energy saving and solution for application porting to new HPC platforms.

The workshop on System-level Virtualization for HPC (HPCVirt 2011) is intended to be a forum for the exchange of ideas and experiences on the use of virtualization technologies for HPC, the challenges and opportunities offered by the development of system-level virtualization solutions themselves, as well as case studies in the application of system-level virtualization in HPC.

The workshop program will include presentations of peer-reviewed papers as well as a panel with participants from research/academia and industry. HPCVirt topics of interest include, but are not limited to:

- system-level virtualization solutions for HPC,
- high-availability based on system-level virtualization mechanisms for HPC,
- fault tolerance mechanisms based on system-level virtualization mechanisms for HPC,
- system resilience based on system-level virtualization technics for HPC,
- energy saving,
- system administration and management for virtualized environments for HPC,
- resource management for HPC in virtualized environments,
- performance and evaluation of virtualization in HPC,
- case studies of virtualization enabled hardware,
- virtualized I/O and storage.

Download the call for paper: <http://www.csm.ornl.gov/srt/conferences/hpcvirt2011/cfp-hpcvirt2011.pdf>

Important Dates

- Paper submission deadline: June 24, 2011
- Acceptance notification: July 11, 2011
- Final camera ready version: July 25, 2011
- Early registration deadline: July 19, 2011

Paper Submission

Authors are invited to submit papers electronically in English in PDF format via EasyChair at <https://www.easychair.org/conferences/?conf=hpcvirt2011>. Submitted manuscripts should be structured as technical papers and may not exceed 10 pages, including figures, tables and references, using Springer's Lecture Notes in Computer Science (LNCS) format at <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>. Submissions should include abstract, key words and the e-mail address of the corresponding author. Papers not conforming to these guidelines may be returned without review. All manuscripts will be reviewed and will be judged on correctness, originality, technical strength, significance, quality of presentation, and interest and relevance to the conference attendees. Submitted papers must represent original unpublished research that is not currently under review for any other conference or journal. Papers not following these guidelines will be rejected without review and further action may be taken, including (but not limited to) notifications sent to the heads of the institutions of the authors and sponsors of the conference. Submissions received after the due date, exceeding length limit, or not appropriately structured may also not be considered. The proceedings will be published in Springer's LNCS as post-conference proceedings. At least one author of an accepted paper must register for and attend the workshop for inclusion in the proceedings. Authors may contact the workshop program chair for more information.

Workshop Chairs

General Chair: Dr. Stephen L. Scott (Tennessee Tech University/Oak Ridge National Laboratory)

Program Chairs: Dr. Geoffroy Vallee (Oak Ridge National Laboratory) and Thomas Naughton (Oak Ridge National Laboratory)

Program Committee

- Patrick Bridges; UNM, USA
- Thierry Delaitre; The University of Westminster, UK
- Christian Engelmann; ORNL, USA
- Douglas Fuller; ORNL, USA
- Ada Gavrilovska; Georgia Tech, USA
- Jack Lange; University of Pittsburgh, USA
- Adrien Lebre; Ecole des Mines de Nantes, France
- Laurent Lefevre; INRIA, Universite of Lyon, France
- Jean-Marc Menaud; Ecole des Mines de Nantes, France
- Christine Morin; INRIA, France
- Thomas Naughton; ORNL, USA
- Dimitrios Nikolopoulos; University of Crete, Greece
- Josh Simons; VMWare, USA
- Samuel Thibault; LaBRI, France

Contact

Please contact hpcvirt2011@ornl.gov with questions.