International Workshop on Runtime and Operating Systems for Supercomputers
Eugene, Oregon, USA

International Workshop on
Runtime and Operating Systems for Supercomputers ROSS'13

Held in conjunction with ICS 2013, Eugene, USA, June 10, 2013

The complexity of node architectures in supercomputers increases as we cross petaflop milestones on the way towards Exascale. Increasing levels of parallelism in multi- and many-core chips and emerging heterogeneity of computational resources coupled with energy and memory constraints force a reevaluation of our approaches towards operating systems and runtime environments.

Call for Papers

The ROSS workshop, to be held as a full-day meeting at the ICS 2013 conference in Eugene, USA, focuses on principles and techniques to design, implement, optimize, or operate runtime and operating systems for supercomputers and massively parallel machines.

Topics of interest:

- OS and runtime system scalability on many-node and multi/many-core systems
- specialized OSs for Supercomputing
- distributed/hybrid/partitioned OSs and runtime systems for Supercomputing
- fault tolerance
- system noise analysis and prevention
- interaction between middleware, runtime system, and the OS
- modeling and performance analysis of runtime systems
- I/O resource management and forwarding
- parallel job startup
- memory management and emerging memory technologies
- the role of OS and runtime system in minimizing power usage
- real-time considerations for Supercomputing

Schedule and Submission Procedure

Submission deadline:	March 15, 2013
Author notification:	April 22, 2013
Final papers due:	May 10, 2013
Workshop date:	June 10, 2013

The ROSS workshop proceedings will be published electronically along with the ICS conference proceedings via the ACM Digital Library. Submitted manuscripts should be formatted using the ACM SIG proceedings alternate format. Extensive documentation can be found at the ACM site (http://www.acm.org/sigs/publications/proceedings-templates).The maximum length is 8 pages. All papers must be in English. Please visit the workshop website (http://www.mcs.anl.gov/events/ workshops/ross/2013/) for further instructions and the submission link.

The best papers of the workshop will be considered for inclusion in a special issue of International Journal of High Performance Computing Applications (IJHPCA).

Workshop Chairs

Torsten Hoefler	ETH Zurich
Kamil Iskra	ANL

Program Committee

Patrick Bridges	UNM
Ron Brightwell	SNL
Franck Cappello	INRIA/UIUC
Bronis R. de Supinski	LLNL
Christian Engelmann	ORNL
Markus Geimer	JSC
Roberto Gioiosa	PNNL
Yutaka Ishikawa	Tokyo Univ.
Larry Kaplan	Cray
Bernd Mohr	JSC
Raymond Namyst	Bordeaux Univ.
Rob Ross	ANL
Martin Schulz	LLNL
Jesper L. Träff	TU Wien
Robert Wisniewski	Intel

Contact us

Email: ross2013@easychair.com

In conjunction with

In cooperation with