

## 2015 ECI Runtime Systems Workshop - Agenda

Dates: March 11 – 13, 2015

Location: Rockville Hilton, Rockville, MD

<b>Wednesday, March 11, 2015</b>		
	<b>Topic</b>	<b>Speaker</b>
1:00pm - 1:20pm	<i>Welcome and Introduction – RTS Exascale Computing Initiative ECI NNSA ASC Perspective</i>	<i>William Harrod Director of Research, Advanced Scientific Computing Research (ASCR) Thuc Hoang Program Manager, Advanced Simulation and Computing (ASC)</i>
1:20pm – 1:40pm	<i>ParalleX/HPX Runtime for Exascale</i>	<i>Thomas Sterling Indiana University</i>
1:40pm – 2:00pm	<i>Open Community Runtime</i>	<i>Joshua Fryman Intel</i>
2:00pm – 2:20pm	<i>Adaptive Runtime Systems for DEGAS</i>	<i>Kathy Yelick Lawrence Berkeley National Laboratory (LBNL)</i>
2:20pm – 2:40pm	<i>ASCR Runtime System Summit Report</i>	<i>Milind Kulkarni Purdue University</i>
2:40pm – 3:00pm	<i>Break</i>	
3:00pm – 4:30pm	<i>Parallel Session I: Runtime Systems Architecture (set 1)</i>	<i>Chair: Jim Laros Sandia National Laboratories (SNL)</i>
	<i>Parallel Session II: Runtime Systems Architecture (set 2)</i>	<i>Chair: Joshua Fryman Intel</i>
4:30pm – 4:45pm	<i>Report Back Session I Runtime Systems Architecture</i>	<i>Jim Laros SNL</i>
4:45pm – 5:00pm	<i>Report Back Session II Runtime Architecture Debate</i>	<i>Joshua Fryman Intel</i>
<b>5:00pm</b>	<b>Adjourn</b>	

**Thursday, March 12, 2015**

	<b>Topic</b>	<b>Speaker</b>
7:40am – 8:30am	<i>Continental Breakfast</i>	
8:30am – 8:40am	<i>2015 ECI RTS Workshop</i>	<i>Sonia Sachs ASCR</i>
8:40am – 9:00am	<i>ASC's Tools Needs</i>	<i>Todd Gamblin Lawrence Livermore National Laboratory (LLNL)</i>
9:00am – 9:20am	<i>Exascale Runtime System Architecture and Design</i>	<i>Ron Brightwell SNL</i>
9:20am – 9:40 am	<i>DAG-Based Runtime Systems A Uintah Perspective</i>	<i>Martin Berzins University of Utah</i>
9:40am – 10:00am	<i>Adaptive Runtimes: Charm++ Case Study and Lessons for Exascale</i>	<i>Sanjay Kale University of Illinois Urbana-Champaign (UIUC)</i>
10:00am – 10:20am	<i>ARGO</i>	<i>Pete Beckman Argonne National Laboratory (ANL)</i>
10:20am – 10:40am	<i>Break</i>	
10:40am – 12:00pm	<i>Parallel Session III: Runtime Systems Design (set 1)</i>	<i>Chair: Pat McCormick LANL</i>
	<i>Parallel Session IV: Runtime Systems Design (set 2)</i>	<i>Chair: Sanjay Kale UIUC</i>
12:00pm – 1:00pm	<i>Lunch</i>	
1:00pm – 2:00pm	<i>ASC Panel on RTS Topics Optimizing RT, Tools and Interfaces A Task-Based PM for SC</i>	<i>Kevin Pedretti, SNL Martin Schulz, LLNL Josh Payne, LANL/Ben Bergen, LANL</i>
2:00pm – 2:15pm	<i>Report Back of Session III</i>	<i>Pat McCormick LANL</i>
2:15pm – 2:30pm	<i>Report Back of Session IV RTS Design Session</i>	<i>Sanjay Kale University of Illinois Urbana-Champaign (UIUC)</i>
2:30pm – 2:50pm	<i>MPI and OpenMP Runtime</i>	<i>Pavan Balaji ANL</i>
2:50pm – 3:10pm	<i>Global Arrays Runtime</i>	<i>Daniel Chavarría-Miranda Pacific Northwest National Laboratory (PNNL)</i>
3:10pm – 3:30pm	<i>Break</i>	
3:30pm – 5:00pm	<i>Parallel Session V: Runtime Systems Research Questions (set 1)</i>	<i>Chair: Thomas Sterling Indiana University</i>
	<i>Parallel Session VI: Runtime Systems Research Questions (set 2)</i>	<i>Chair: Andrew Chien University of Chicago</i>
<b>5:00pm</b>	<b>Adjourn</b>	

**Friday, March 13, 2015**

	<b>Topic</b>	<b>Speaker</b>
7:40am – 8:30am	Continental Breakfast	
8:30am – 8:50am	<i>Legion: Runtime System</i>	<i>Pat McCormick Los Alamos National Lab (LANL)</i>
8:50am – 9:05am	<i>Report Back of Session V RTS Questions Working Group</i>	<i>Thomas Sterling Indiana University</i>
9:05am – 9:20am	<i>Report Back of Session VI</i>	<i>Zoran Budimlik Rice University</i>
9:20am – 10:30am	<i>Parallel Session VII: Runtime R&amp;D Roadmap (set 1)</i>	<i>Chair: Kathy Yelick LBNL</i>
	<i>Parallel Session VIII: Runtime R&amp;D Roadmap (set 2)</i>	<i>Chair: Dave Montoya LANL</i>
10:30am – 10:45am	Break	
10:45am – 11:00am	<i>Report Back Session VII Runtime Roadmap VII</i>	<i>Kathy Yelick LBNL</i>
11:00am – 11:15am	<i>Report Back Session VIII Roadmap_Session VIII</i>	<i>Dave Montoya LANL</i>
11:15am – 11:35am	<i>Scalable Storage I/O workshop report summary</i>	<i>Rob Ross ANL</i>
11:35am – 12:00pm	<i>Workshop Summary</i>	<i>Chairs: Pete Beckman, ANL &amp; Rob Neely, LLNL</i>
<b>12:00pm</b>	<b>Adjourn</b>	