

Joint ENCORE & PEPHER Workshop on Programmability and Portability for Emerging Architectures (EPoPPEA)

Tuesday, January 24, 2012, Paris, France
in conjunction with the HiPEAC'12 conference
www.peppher.eu/hipeac12

10:00-11:00 SESSION 1 "Welcome and Keynote"

Chair: Siegfried Benkner (University of Vienna)

10:00-10:05 Siegfried Benkner (University of Vienna) "Welcome"

10:05-11:00 Mitsuhsa Sato (University of Tsukuba and RIKEN AICS) "The K Computer and XcalableMP Parallel Language Project: Towards a Programming Environment for Peta-scale Computing"

11:00-11:30 Coffee Break

11:30-13:00 SESSION 2

Chair: Ben Juurlink (TU Berlin)

11:30-12:00 Jesus Labarta (BSC) "The OmpSs Programming Model"

12:00-12:30 Welf Löwe (Linnaeus University) "Parallelizing Object-Oriented Programs"

12:30-13:00 Siegfried Benkner (University of Vienna) "High-Level Language Support for Heterogeneous Manycore Architectures"

13:00-14:30 Lunch Break

14:30-16:00 SESSION 3

Chair: Beverly Bachmayer (Intel)

14:30-15:00 Dimitris Nikolopoulos (FORTH) "Region-based Memory Management for Task Dataflow Models"

15:00-15:30 Mats Brorsson and Artur Podobas (KTH) "Scheduling OmpSs Tasks with Real-time and Other QoS Constraints in Mind"

15:30-16:00 Karl Solchenbach (Intel) "Intel's Exascale Activities in Europe"

16:00-16:30 Coffee Break

16:30-18:00 SESSION 4 "2009 and 2011 EU Computing Systems Projects"

Chair: Koen De Bosschere (Ghent University)

The session will look at European multi-core programming projects that address Computing Systems objective of FP7. It will be an opportunity to discuss differences and commonalities in vision and approach, means and methods of four selected projects. We will present ENCORE and PEPHER as representatives of the 2009 Computing Systems call and two projects from the 2011 Computing Systems call: AUTOTUNE and LPGPU.

- ENCORE: Alex Ramirez (Barcelona Supercomputing Center & UPC)
- PEPHER: Sabri Pllana (University of Vienna)
- AUTOTUNE: Michael Gerndt (TU Munich)
- LPGPU: Ben Juurlink (TU Berlin)