

OmpSs tutorial, and Tareador Education Session among other BSC? activities in SC13



Are you interested in finding out about OmpSs or Tareador?

Don't miss the upcoming OmpSs tutorial #117 *"Asynchronous Hybrid and Heterogeneous Parallel Programming with MPI/OmpSs and its Impact in Energy Efficient Architectures for Exascale Systems"* at Supercomputing 2013 in Denver, Colorado. Also related to the previous tutorial, you can learn more about how Tareador can help you developing OmpSs applications in the HPC Educators program session *"Exploring Parallelization Strategies at Undergraduate Level"*.

Don't miss ScalA at SC'13! The 4th in the series workshop focuses on novel scalable scientific algorithms that are needed to enable key science applications to exploit the computational power of large-scale systems. The program can be found at www.csm.ornl.gov/srt/conferences/Scala/2013/

As in previous editions, the BSC will be actively participating at the [SC13 conference](#). During the

exhibition, feel free to come over our booth #3938 and meet any of our experts. Due to the success of previous year of the tutorial in the educational programme, this year BSC is spread through the conference and exhibition floor. We tried to summarize the BSC's activities in the following table:

Event Type	Speaker(s)	Day and Time
More information about OmpSs Tutorial Technical paper "On the Consistency of Object Tracking Techniques in Performance Analysis" Monday November 18, 2013	German Llorc, Harald Servat, Juan Gonzalez, Judit Gimenez, Jesus Labarta	Wednesday 20th November, 2:00PM-2:30PM
4th Workshop on Latest Advances in Scalable Model approach for future exascale systems, with the potential to exploit unprecedented amounts of parallelism, while coping with memory latency, network Papers, Awards, Best Student Paper Finalists Monday November 18, 2013	ies. MPI/OmpSs is a promising program Vassil Alexandrov, Jack Dongarra, Al Geist, Christian Engelmann	Monday 18th November, 9:00AM-5:30PM
Supercomputing with Commodity CPUs: Are Mobile SoCs Ready for HPC? Monday November 18, 2013	their ports to MPI/OmpSs (see EU projects Nikola Rajovic, Paul M. Carpenter, Isaac Delgado, Nikola Puzova, Alex Ramirez, Mateo Valero	Tuesday 19th November, 3:30PM-4:00PM
Tutorial "Asynchronous Hybrid and Heterogeneous Parallel Programming with MPI/OmpSs and its Impact in Energy Efficient Architectures for Exascale Systems" Monday November 18, 2013	The OmpSs runtime supports asynchronous execution and clusters thereof. The integration of OmpSs can be Jesus Labarta, Eduard Ayguade, Alex Ramirez, Rosa M. Badia	Monday 18th November, 8:30AM-5:00PM
Technical paper "Deterministic Scale-Free Pipeline Parallelism with Hyperqueues" Monday November 18, 2013	Paraver performance analysis tool. Examples of benchmarks and applications parallelized with MPI/OmpSs will also be presented. The tutorial will present Hans Vandierendonck, Kallia Chronaki, Dimitrios S. Nikolopoulos	Wednesday 20th November, 11:00AM-11:30AM
Poster: "GMT: Enabling Easy Development and Efficient Execution of Irregular Applications on Commodity Clusters" Monday November 18, 2013	Alessandro Morari, Oreste Villa, Antonio Tumeo, Daniel Chavarria, Mateo Valero	Tuesday 19th November, 5:15PM-7:00PM
Tareador HPC Education Session at SC13 (Euro-Centric)" Wednesday November 20, 2013	Marie-Christine Sawley, Alison Kennedy, Alex Ramirez, Catherine Riviere	Thursday 21st November, 10:30AM-12:00PM
Birds-of-Feather Session "Building on the European Exascale Approach" Monday November 18, 2013	Something that was the concern of a "few" Alex Ramirez	Tuesday 19th November, 12:15PM-1:15PM
Tareador HPC Education Session at SC13 (Euro-Centric)" Wednesday November 20, 2013	to analyze different parallelization strategies and approach to visualize these strategies and Hans-Christian Hoppe, Robert Wisniewski, Jesus Labarta	Tuesday 19th November, 5:30PM-7:00PM

Tareador will dynamically build the computation task graph, identifying all data-dependencies among annotated tasks. Tareador also feeds Dimemas, a simulator to predict the potential of the proposed strategy and visualize an execution timeline (Paraver). Using the environment, we show a top-down approach that leads to appropriate parallelization strategies (task decomposition and granularity) and that helps to identify tasks interactions that will need to be guaranteed when coding the application in parallel.

URL: http://sc13.supercomputing.org/schedule/event_detail.php?evid=eps104

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