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## 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 4<sup>th</sup> 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
Mererinforpation about Our Se Tutorialect Tracking Techniques in Performance Analysis" Monday November 18, 2013	German Llort, Harald Servat, Juan Gonzalez, Judit Gimenez, Jesus Labarta	Wednesday 20th November, 2:00PN 2:30PM
Due to its asynchronous nature and look-ahead capabili 4th Workshop on Latest Advances in Scalable nodel approach for future exascale systems, with the po Algorithms for Large-Scale Systems parallelism, while coping with memory latency, network	ies, MPI/OmpSs is a promising program Vassil Alexandrov, Jack Dongarra, Al ential to exploit unprecedented amounts Geist, Christian Engelmann latency and load imbalance. Many large	Mogday 18th Movember, 9:00AN ScanPM
applications are a bead saccing paper positive results from Monthland Deep with XTh. Welwill finets experting has ic seen as an extension of the OpenMP model. Unlike Open	theinprets to MPLAMPS afferfel, projections of the project of the property of the project of the	Thesday 19th NSVEHIDEF, 3:30PN ermined at
mutime thanks to the directionality of data arguments. The Tutorial Asynchronous Hybrid and Heterogeneous of tasks on heterogeneous systems such as SMPs, GPUs Parallel Programming with MPI/OmpSs and its MPI facilitates the migration of current MPI application. Impact in Energy Efficient Architectures for Exascale applications by overlapping computation with communications of the programming model of the programming model.	and clusters thereof. The integration of O Jesus Labarta, Eduard Ayguade, Alex and improves the performance of these Ramirez, Rosa M. Badia ation between tasks. The tutorial will als	S execution  Mpsidayith8th  November, 8:30AN  5:00Pt/the
penchmarks and applications parallelized with MPI/Omple chimical paper applications parallelized with MPI/Omple chimical paper applications parallelized with MPI/Omple chimical paper applications parallel programming model to address the lime efficient parallel platforms. The tutorial will also include	Francilly also be presented a The tutorial we tetions of using low-suddexises to build	Wedgesday 20th
Poster: "GMT: Enabling Easy Development and PRIcibility Execution of Commodity Clusters"	Alessandro Morari, Oreste Villa, Aihtohpilovidateol Daniel Chavarria, Mateo Valero	Tuesday 19th November, 5:15PM 7:00PM
Pared den HPC Ethnearolo Session datis Onca (Euro- Centric)"  Wednesday November 20, 2013	Marie-Christine Sawley, Alison Kennedy, Alex Ramirez, Catherine Riviere	Thursday 21st November, 10:30A 12:00PM
Whasediving the Sealionar bleksomenting revolution. Seignists has become mainstream and of concern to ever proposes a set of tools to be used at undergraduate level	y single programmer. This HPC Educate	r Session 12.131
their potential benefit. Tareador provides a very intuitive Birds-of-Feather session. Towards Exascale Runtime understand their implications. The programmer needs to Systems: Challenges and Opportunities Fareador will dynamically build the computation task gr	approach to visualize these strategies an Hans-Christian Hoppe, Robert use simple code annotations to identify t Wisniewski, Jesus Labarta aph, identifying all data-dependencies an	Tuesday 19th Nov <b>end</b> ber, 5:30PN 3100PNA
annotated tasks. Tareador also feeds Dimemas, a simulator to predict the potential of the proposed strategy		

URL: http://sc13.supercomputing.org/schedule/event\_detail.php?evid=eps104

tasks interactions that will need to be guaranteed when coding the application in parallel.

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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