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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 <u>SC13 conference</u>. 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
Morgination about QuipSes Sutorialect 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 model 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 Dongafra, Al ential to exploit unprecedented amounts Geist, Christian Engelmann latency and load imbalance. Many large	Monday 18th Movember, 9:00AN Scâ0₽M
Proping in the provident of the open MP model. Unlike Open MP model. Unlike Open MP model. Unlike Open MP model.	theine restories of Planne Scargeneed, proje ronce plant the programming, model. On MP: how over task dependencies are det	94aesday 19th INSVEADEF, 3:30PN ermined at
Turtime thanks to the directionality of data arguments. T 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 communi Systems performance tools available for the programming model	and clusters thereof. The integration of Outputs thereof. The integration of Outputs Labarta, Eduard Ayguade, Alex s and improves the performance of these Ramirez, Rosa M. Badia cation between tasks. The tutorial will als paraver performance analysis tool. Example, and the second s	s execution MpSdayitBth November, 8:30AN 5:00PEMthe pples of
Prochmarks and applications parallelized with MPI/Ompleteneous and applications parallelized with MPI/Ompleteneous and the programming model to address the lime frequencies and the programming model to address the programming model to address the programming model to address the lime frequencies and the programming model to address the programming model to address the programming model to address the programming model	Ss will also be presented. The tutorial w	Wednesday 20th
Poster: "GMT: Enabling Easy Development and ERLeibthpE/sectationportomogutingAppg/sechodule/avent_de Commodity Clusters"	Alessandro Morari, Oreste Villa,	Tuesday 19th November, 5:15PN 7:00PM
Pareld <u>From PC Educatolo Session datis Onsa</u> (Euro- <u>Centric)</u> " Wednesday November 20, 2013	Marie-Christine Sawley, Alison Kennedy, Alex Ramirez, Catherine Riviere	Thursday 21st November, 10:30A 12:00PM
Brasediving November 20, 2013 Brasediving the Scalionar Blick amounting Earopution. S spientists has become mainstream and of concern to even proposes a set of tools to be used at undergraduate level	y single programmer. This HPC Educate	Session Session
heir 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 gi	approach to visualize these strategies an Hans-Christian Hoppe, Robert use simple code annotations to identify t Wisniewski, Jesus Labaria aph, identifying all data-dependencies an	Tuesday 19th Novamber, 5:30PN 700PM
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

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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