



HPC User Forum Agenda

86th HPC User Forum

October 21 & 22, 2024 – Barcelona Supercomputer Center
Meeting Address: Vèrtex Building, UPC Auditorium
Plaça Eusebi Güell, 6, 08034 Barcelona

Meeting focus areas:

- Major ways to use AI & GPUs in HPC
- BSC as a testbed & developer of new technologies, RISC-V for HPC applications
- Quantum computing futures

Monday, October 21, 2024

13:00-14:00	Welcome Lunch, UPC Premises
14:00-14:15	Welcome by Rupak Biswas and Earl Joseph, BSC Welcome (Fabrizio Gagliardi + Xavier Martorell) then Fabrizio Gagliardi introduces BSC Director and Founder Mateo Valero
14:15-14:45	Update on BSC Past, Present and Future, Mateo Valero, BSC-CNS
14:45-15:15	MN5: Design Choices, Challenges and Future Plans, Sergi Girona, BSC-CNS
15:15-15:45	HPC Site Update: HPC and AI at CERN, Maria Girone, CERN
15:45-16:00	Hyperion Research Market Update, Earl Joseph, Hyperion Research
16:00-16:15	Vendor Update: Eric Eppe, Eviden
16:15-16:45	RISC-V and New ISAs, Marc Casas, BSC-CNS
16:45-17:15	Networking Coffee Break
17:15-17:45	Openchip and the DARE RISC-V Initiative, Gaspar Mora, Openchip, and Osman Unsal, BSC-CNS
17:45-18:00	Vendor Update: Program Analysis Technologies with LLVM Targeting HPC Codes, Manuel Arenaz, Codee – Appentra Solutions, S.L.
18:00-19:00	Visit of the MN5 Supercomputer, Filippo Mantovani
19:00	Adjourn and Free Evening

Tuesday, October 22, 2024

08:15-08:55	Networking Breakfast
08:55-09:00	Welcome/Logistics
09:00-09:30	AI in Life Science, LLMs and TPC, Jose Carbonell, BSC-CNS
09:30-10:00	HPC+AI Workflows at BSC, Rosa Badia, BSC-CNS
10:00-10:30	EuroHPC Update, Josephine Wood, EuroHPC JU
10:30-11:00	Optimizing Climate Models with Accelerators and Emerging Technologies, Mario Acosta, BSC-CNS
11:00-11:30	Networking Coffee Break
11:30-12:00	Quantum Computing at BSC, Artur Garcia and Alba Cervera-Lierta, BSC
12:00-12:15	Vendor Update: Noam Rosen, Lenovo
12:15-12:45	HPC and QC at NASA Rupak Biswas, NASA
12:45-13:15	The Use of Quantum Computing Around the World, Bob Sorensen, Hyperion Research
13:15-13:30	Vendor Update: Yuval Boger, QuEra
13:30-14:00	Towards an AI-autonomous HPC World, Pedro Valero, Oak Ridge National Laboratory (ORNL)
14:00-14:30	ALCF Resources and Argonne Initiatives in AI for Science and Integrated Research Infrastructure, David Martin, Argonne National Laboratory (ANL)
14:30-14:35	Meeting Wrap Up, Fabrizio Gagliardi, Rupak Biswas and Earl Joseph
14:35	Networking Buffet Lunch

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