HPC2N Symposium – Inauguration of Abisko

Umeå University, May 31, 2012

Invitation and Program

High Performance Computing Center North cordially invites you to participate in the inauguration of Abisko, the new HPC2N supercomputer system. The morning program offers a tutorial and the afternoon program includes presentations by scientists using Abisko, state-of-the-art technical and R&D overviews and the formal inauguration of Abisko. The procurement of Abisko was made possible through a grant from the *Swedish National Metacenter VR/SNIC* and the support of Umeå University.

Link to registration: https://www.hpc2n.umu.se/abisko/inauguration/form

Tutorial on the Abisko System Architecture and Its Efficient Use

Room N420 in Naturvetarhuset

09.00	*Algorithm Design for NUMA Architectures and Energy Aware Computing* Asst. Professor **Lars Karlsson**, Dept. of Computing Science & HPC2N, Umeå University
09.45	Coffee and Tea
10.00	*AMD Interlagos Processors – Tuning for Efficient Use: OS, Compilers and Libraries* **Leif Nordlund**, HPC & Cloud BD Executive, AMD EMEA
11.45	Lunch break – participants on their own

HPC2N Symposium – Inauguration of Abisko

Umeå University, May 31, 2012

Invitation and Program

High Performance Computing Center North cordially invites you to participate in the inauguration of Abisko, the new HPC2N supercomputer system. The morning program offers a tutorial and the afternoon program includes presentations by scientists using Abisko, state-of-the-art technical and R&D overviews and the formal inauguration of Abisko. The procurement of Abisko was made possible through a grant from the *Swedish National Metacenter VR/SNIC* and the support of Umeå University.

Link to registration: https://www.hpc2n.umu.se/abisko/inauguration/form

Symposium Program - Lecture Hall MA 121 in the MIT-building

13.15	CHAIR: **Bo Kågström**, Director of HPC2N *Welcome and Opening* Sample User Research Projects at HPC2N *Solvation of Ions and Organic Molecules in Water Droplets* Professor **David van der Spoel**, Dept. of Cell and Molecular Biology**,** Computational and Systems Biology, Uppsala University *Large Scale Simulations of Laser-Plasma Interactions* Professor **Mattias Marklund**, Dept. of Physics, Theoretical Physics, Umeå University *How Stellar Winds Interact with Planets* Assoc. Professor **Mats Holmström**, Swedish Institute of Space Physics, Kiruna
14.30	CHAIR: **Åsa Rasmuson-Lestander**, Dean of the Faculty of Science and Technology HPC2N Activities and R&D Collaborations *Algorithm and Library Software Design – The Challenge for Tera, Peta and Future Exascale Computing* Professor **Bo Kågström**, Director of HPC2N and Dept. of Computing Science, Umeå University *Autonomic Resource Management for Elastic Compute Clouds* Professor **Erik Elmroth**, Dept. of Computing Science, Umeå University *UMIT Research Lab – Computational Science and Engineering focusing on Industrial Applications and Innovative Software* Professor **Mats G. Larson**, Dept. of Mathematics and Mathematical Statistics, Umeå University *eSSENCE – The e-Science Collaboration: SFO programme including Uppsala, Lund and Umeå* Professor **Göran Sandberg**, eSSENCE coordinator, Lund University
15.30	Coffe and Tea
16.00	CHAIR: **Marianne Sommarin**, Deputy Vice-Chancellor for Research, Chairman of the HPC2N Board *Abisko – The HPC2N Massively Parallel Computer System* Dr **Mats Nylén**, Senior consultant and SweGrid Coordinator/NGI manager *Vendor Views and Abisko Highlights* Representatives of **South Pole AB** and **AMD EMEA** *Inauguration of Abisko – A Strategic National Resource* **Lena Gustafsson**, Vice-Chancellor Umeå University **Jacko Koster**, SNIC Director Visit Abisko in the Computer Room guided by HPC2N Staff – Sparkling beverages will be served
17.30	Dinner Buffet at Universum