

Webinar: Introduction to power management on supercomputers

This webinar is organized by SURF Open Innovation Lab and EAR Team-BSC.

Energy management for supercomputers is one of the most challenging topics in the field of high performance computing. In this webinar we introduce EAR software for power management, control and accounting for super computer sites. EAR software is a management framework that optimizes the energy and efficiency of a cluster of interconnected nodes. EAR provides services for node power monitoring, application accounting, energy optimization through a runtime library, and system power control.

You will hear key EAR attributes for users and system administrators on the HPC sites. And you'll see live demos and examples on how useful system hints can be collected and visualized from flow monitoring and application accounting. And you will learn more about integrating EAR into the operations of Leibniz Supercomputing Center, one of the world's largest supercomputing centers, and its potential impact on energy and cost savings.

Required prior knowledge

- Basic knowledge about working with Linux based machines
- Familiarity with Linux clusters
- Optional: working with resource managers (slurm / torque) on supercomputers

Programme

- Introduction to the EAR framework
- EAR at Leibniz Supercomputing Center
- Live demonstration with EAR
- Question & answers

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