



Upgraded version of base station energy management system for use in supercomputing centers

All allocated and many non-allocated systems now have Singularity version 2.6.1 available, and we are rolling out a major upgrade to version 3.5.3 over the next month.

By combining insights from GPU benchmarking to understand application power profiles, we present a telemetry data-driven approach for deriving energy savings projections. This approach ...

In this paper we present EAR, an energy management framework for HPC with a set of components and a nature similar to a resource manager. EAR offers energy optimization, accounting, and control of a ...

The Advanced Scientific Computing Research (ASCR) program leads the nation and the world in supercomputing, advanced networking and state-of-the-art research in computer science, ...

It was found that state-of-the-art supercomputers are growing in computing power, but are combining different measures to meet sustainability concerns, namely going beyond energy ...

This paper is intended for HPC system administrators, application developers and data center managers that want to better understand the power usage of their HPC system, optimize the energy ...

The data are stored on Figshare 11, a shared platform that can be accessed publicly and used to support energy analysis and waste heat recovery development of the Frontier supercomputer...

The paper aims to raise awareness about energy efficiency among users, particularly in the high energy physics and astrophysics domains, offering practical advice on how to analyse and ...

To the best of our knowledge, this is the first paper to present a uniquely coordinated effort that discusses the state-of-the-practice in power provisioning across six international ...

Since its formation in 2004, the OLCF has fielded five generations of world-class supercomputing systems that have produced a nearly 2,000 times increase in energy efficiency per ...

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