Scuola Politecnica e delle Scienze di Base
Dipartimento di Ingegneria
Via Roma 29, Aula Magna, Aversa
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"Smart Scaling for High Performance Computing: SuperMUC-NG at the Leibniz Supercomputing Centre (LRZ)"

Seminario per il corso di high performance and cloud computing ingegneria informatica magistrale e per i corsi di dottorato in ingegneria industriale e dell'informazione ed ambiente, design ed innovazione

Progetto

High Performance Computing (HPC) represents a competitive advantage for science and research, as it evolves over time and allows unprecedented levels of performance to attack computational problems. The German Smart Scaling initiative takes this idea further into the future by pushing the capability of systems towards exascale. The next supercomputer at the Leibniz Supercomputing Centre (LRZ), codename SuperMUC-NG, is on the trajectory to this ambitious goal, which can only be achieved if users needs are balanced with optimal usage of technology.

It is interesting to note that - in contrast to other systems in that range - SuperMUC-NG will be a general purpose architecture, providing highest performance to a broad range of different applications. At the same time, energy efficiency measures such as hot water cooling are pushed across todays limits. Once SuperMUC-NG is available to its scientific users, we expect another substantial advancement for computational science.

Discute

Prof. Dieter Kranzlmueller
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He is founding member of the EGI.eu Organisation and German representative on the European Grid Initiative (EGI) Council and German representative on the PRACE Strategic Working Group (SWG). He chairs the MNM-Team (Munich Network Management Team), which is engaged in networks and distributed systems in general, and networks, grids, clouds and HPC in particular. He has been involved in leading roles in more than 30 EC-funded and national projects, including his role as Deputy Director of EGEE-II, member of the Executive Board of EGI.eu, and Project Director of EGI-DS. His team is currently coordinating the EC project PROCESS and organizing the EnviroInfo 2018 conference.*

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