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ForHLR - New Energy Efficient HPC System at KIT with Warm Water Cooling

Friday, 22 April 2016 11:35 (25 minutes)

A new HPC-System has been installed at Steinbuch Centre for Computing (SCC) of Karlsruhe Institute of Technology (KIT) delivering about one Petaflops of computing power. For this system a new data center has been built featuring an innovative and very energy efficient warm water cooling. The water temperature level of 40°C inlet and 45°C outlet allows free cooling with dry coolers all over the year even in hot summer conditions as well as reuse of the waste heat for heating office buildings in the colder seasons.

This talk will present the features of this new system, details of the innovative warm water cooling, and further interesting aspects.

Length of presentation (minutes, max. 20)

15

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