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Institute Computing Infrastructure with Dynamic Extension

Tuesday 16 April 2024 13:30 (25 minutes)

The Institute for Experimental Particle Physics (ETP) at the Karlsruhe Institute of Technology has access to several computing and storage resources. Besides the local resources such as worker nodes and storage, the ETP has access to the HPC cluster NEMO in Freiburg and to the Throughput Optimized Analysis System (TOPAS) cluster and Grid storage at the WLCG-Tier1 GridKa.

Hence, we use a pilot-like concept and the HTCondor flocking mechanism to make these additional resources transparent and dynamically available to users. This system provides users from ETP with up to several thousand CPU cores and several dozen data center GPUs in a homogeneous software environment.

This talk will show how to set up and use that computing infrastructure and its dynamic extensions. In addition to the admin point of view, the user point of view will also be discussed.

Desired slot length

15

Speaker release

Yes

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Session Classification: Computing and batch services

Track Classification: Computing & Batch Services