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Distributed computing in IHEP

Thursday, 27 April 2017 11:40 (25 minutes)

IHEP distributed computing was built based on DIRAC in 2012 and started operations in 2014 to meet peek needs of the BESIII experiment. As more new experiments (JUNO, LHAASO, CEPC, etc) with challenging data volume are coming into operations or are planned in IHEP, the system has been progressively developed into a common platform to support multi experiments in one instance. In this platform, the DIRAC-based WMS was extended to support multi-VO scheduling based on VOMS, with the general task submission and management and site monitoring tools developed. The CVMFS and central SE also were reconfigured to support more than one experiment.
To fully use opportunistic resources, also the platform has integrated private cloud and explored commercial cloud in an elastic way. With the trend of parallel processing used in High Energy Physics experiment software, IHEP distributed computing has started to support of multi-core jobs. Also with more and more HPC resources available to fasten the speed of physics analysis, in the near future it is also interesting to share heterogeneous and distributed HPC resources through this platform.

Length of talk (minutes)

20

Scheduling constraints / preferences

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