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External Resources: Clouds and HPCs for the expansion of the ATLAS production system at the Tokyo regional analysis center

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The Tokyo regional analysis center at the International Center for Elementary Particle Physics, the University of Tokyo, is one of the Tier 2 sites for the ATLAS experiment in the Worldwide LHC Computing Grid (WLCG). The current system provides 7,680 CPU cores and 10.56 PB disk storage for WLCG. CERN plans the high-luminosity LHC starting from 2026, which increases the peak luminosity to 5 times compared to the present value in LHC. For the high-luminosity LHC, a requirement of computing resources for each site will be increased. To expand the ATLAS production system at the Tokyo regional analysis center, R&D using external resources has been launched. One kind of external resources is a commercial cloud resource, such as Google Cloud Platform and Amazon AWS. Another resource is the High-Performance Computer (HPC) at the University of Tokyo. In this presentation, the current status of the R&D, the systems for these resources and comparisons of the cost will be reported.

Consider for promotion

No

Primary author: KANEDA, Michiru (ICEPP, the University of Tokyo)

Presenter: KANEDA, Michiru (ICEPP, the University of Tokyo)

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