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Grid and Cloud Computing at IHEP in China

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The Institute of High Energy Physics (IHEP) is the biggest and comprehensive fundamental research center in China. Particle physics is one of the most important research fields at IHEP. This presentation will give a brief introduction to the currently running experiments as well as the experiments being constructed. With accumulation of experimental data, growing needs of computing resources put great pressure on the limited local resources. To meet the challenge, the BESIII Grid computing system was developed based on the Dirac middleware. After years' successful running, it proved to be an effective solution for integrating computing resources dispersed in the collaboration members. Further work has been done to extend its support for multiple experiments with a single system setup. This presentation will also cover the development of cloud computing platform for both scientific computing and information services at IHEP. The feature of dynamic allocation of computing resources makes it possible to improve the overall efficiency of resource usage. Recently, a proposal of setting up a dedicated HPC facility has been raised by a couple of experiments to speed up the CPU-intensive simulation and analysis work. This presentation will discuss the possibility of integrating the future HPC facility with the current system.

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