

Status of IHEP Grid Data Management System (Remote Presentation)

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With the increase in the number of large-scale international collaborative experiments supported by the Institute of High Energy Physics (IHEP) of the Chinese Academy of Sciences, IHEP and collaborators face challenges in various application scenarios such as different data volumes, multiple data management needs, and various data authentication requirements. At the same time, new technologies and applications for international grid computing are developing rapidly. Grid services such as Rucio and IAM are gradually being widely used due to their high flexibility and reliability, while distributed computing systems like DIRAC are expanding their support for new grid components. In order to meet the needs of experiments such as JUNO, HERD, CEPC, IHEP Computing Center has established a grid data distribution and management system based on distributed computing systems like Rucio and DIRAC. This report will introduce recent research and progress made by IHEP in grid data management services, including research and application of new systems or components related to experimental software development grid data management interface and non-grid site data transmission system components. It will also present the planning and construction status of site-level operation statistics and monitoring systems at experimental centers.

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