

Grid Deployment Experiences: The Evolution of the LCG information system.

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Since CHEP2005, the LHC Computing Grid (LCG) has grown from 30 sites to over 160 sites and this has increased the load on the information system. This paper describes the recent changes to information system that were necessary to keep pace with the expanding grid. The performance of the a key component, the Berkley Database Information Index (BDII), is given special attention. During deployment it was found that the idea of Virtual Organization (VO) BDII was not sufficient and how this lead to the development of the Freedom of Choice for Resources (FCR) mechanism to enable VOs to have more control over their production. Other improvements are also mentioned including the work to upgrade the Glue to version 1.2 and plan for Glue version 2.

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