The Beijing Tier-2 Site: Current Status and Plan

Lu WANG

IHEP, CN

In the past year, the Beijing Tier-2 site has ramped up to 1100 CPU cores, and 400 TB disk storage capacities. This site has achieved a high availability from 98%-100%. The ATLAS analysis efficiency has increased by factor of 16 by introducing FroNTier/Squid system. More than 85 thousand jobs of CMS for LHC 2009 first collision have finished on Beijing Tier-2 site, with a success rate of 95%. To enhance the efficiency of software deployment, the Quattor System was improved. A customized monitoring system was developed to monitor the status of local resources. We have implemented a multi-grid job management system to facilitate job submission, query and management over different grid systems.

Several features of the local computing cluster will be introduced in the work. These features include a 600 TB Lustre distributed file system, a graphic monitoring system and a web file reservation system of Castor 1.7, a job split and submission tool and so on. In the end, the 2010 plan of Beijing Tier-2 Site will be discussed.