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CMS CSA06 experience at INFN

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The CMS experiment operated a Computing, Software and Analysis Challenge in 2006 (CSA06). This activity is part of the constant work of CMS in computing challenges of increasing complexity to demonstrate the capability to deploy and operate a distributing computing system at the desired scale in 2008. The CSA06 challenge was a 25% exercise, and included several workflow elements: event reconstruction at the CERN Tier-0 center; data distribution to Tier-1's, for archiving and data serving purposes; data skimming, driven by CMS physics groups, and re-reconstruction at Tier-1's; serving of re-processed data to Tier-2's and Grid submission of physics analysis jobs. The INFN region joined this exercise. An overview of the software tools and the computing architecture deployed at INFN for the challenge is given in this report, as well as a summary of the operational experience at INFN-CNAF Tier-1 and INFN Tier-2 centers. A description of the operational experience at INFN during CSA07 challenge - a CMS exercise at a scale of 50% started in July 2007 - are also presented and discussed.

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