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the INFN Tier-1

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INFN-CNAF is the central computing facility of INFN: it is the Italian Tier-1 for the experiments at LHC, but also one of the main Italian computing facilities of several other experiments such as BABAR, CDF, SuperB, Virgo, Argo, AMS, Pamela, MAGIC, Auger etc..

Currently there is an installed CPU capacity of 100,000 HS06, a net disk capacity of 9 PB and an equivalent amount of tape storage (these figures are going to be increased in the first half of 2012 respectively to 125,000 HS06, 12 PB and 18 PB).

More than 50,000 computing jobs are executed daily on the farm, managed by LSF, accessing the storage, managed by GPFS, with an aggregate bandwidth up to several GB/s. The access to the storage system from the farm is direct through the file protocol. The interconnection of the computing resources and the data storage

is based on 10 Gbps technology.

The disk-servers and the storage systems are connected through a Storage Area Network allowing a complete flexibility and easiness of management; dedicated disk-servers are connected, also via the SAN, to the tape library.

The INFN Tier-1 is connected to the other centers via 3x10 Gbps links (to be upgraded next year), including the LHCOPN and to the LHCONE.

In this paper we show the main results of our center after 2 full years of run of LHC.

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