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## CDF experience with Monte Carlo production using LCG Grid

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The upgrades of the Tevatron collider and of the CDF detector have considerably increased the demand on computing resources in particular for Monte Carlo production for the CDF experiment. This has forced the collaboration to move beyond the usage of dedicated resources and start exploiting Grid resources.

The CDF Analysis Farm (CAF) model has been reimplemented into LcgCAF in order to access Grid resources by using the LCG/EGEE Middleware components. Many sites in Italy and in Europe are accessed via this portal in order to produce Monte Carlo data and in one year of operations we expect about 100,000 Grid jobs submitted by the CDF users.

We review here the setup used to submit jobs to Grid sites and retrieve the output, including the Grid components CDF-specific configuration. The batch and interactive monitor tools developed to allow users to verify the jobs status during their lifetimes in the Grid environment are described.

We analyze the efficiency and typical failure modes of the current Grid infrastructure reporting the performances of different parts of the used system.

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