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Production of BaBar skimmed analysis datasets using the Grid

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The BaBar experiment currently uses approximately 4000 KSI2k on dedicated Tier 1 and Tier 2 compute farms to produce Monte Carlo events and to create analysis datasets from detector and Monte Carlo events. This need will double in the next two years requiring additional resources.

We describe enhancements to the BaBar experiment's distributed system for the creation of skimmed analysis datasets from detector and Monte Carlo-generated data using European LCG and US OSG Grid resources and present the results with regard to the latest production run over BaBar's accumulated data. The benefits of local and Grid-based systems, the ease with which the system is managed and the challenges of integrating the Grid with legacy software will be presented as well as the audit and monitoring software needed to control the system on the Grid. We compare job success rates and manageability issues between Grid and non-Grid production and present an investigation into the relative efficiency of the components of the Grid with particular reference to exporting and accessing input data in a distributed environment.

Submitted on behalf of Collaboration (ex, BaBar, ATLAS)

BaBar

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