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The BABAR Analysis Task Manager

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The new BaBar bookkeeping system comes with tools to directly support data analysis tasks. This Task Manager system acts as an interface between datasets defined in the bookkeeping system, which are used as input to analyzes, and the offline analysis framework. The Task Manager organizes the processing of the data by creating specific jobs to be either submitted to a batch system, or run in the background on a local desktop, or laptop. The current system has been designed to support pbs and lsf batch systems. Changes to defined datasets due production is directly supported by the Task Manager, where new collections that add to a dataset or replace other collections are automatically detected, allowing an analysis at any time to be up-to-date with the latest available data. The output of tasks, whether new data collections, ntuple/hbook files, or text files, can be put back into a collections bookkeeping system or stored in the private Task Manager database. Currently MySQL and Oracle relational databases are supported. The BABAR Task Manager has been in use for data production since January this year, and the schema of the working system will be presented.

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