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BaBar Bookkeeping - experience and use.

Wednesday 15 February 2006 16:40 (20 minutes)

For the BaBar Computing Group:
Two years ago, the BaBar experiment changed its event store from an object oriented database system, to one based on ROOT files. A new bookkeeping system was developed to manage the meta-data of these files. This system has been in constant use since that time, and has successfully provided the needed meta-data information for users' analysis jobs, data management, and data distribution. This meta-data is stored in distributed databases, which can be hosted at any BaBar computing site, using either Oracle or MySQL. The system has performed well with the increasing data volume from all production efforts, and ever-growing number of analysis and production sites that host their own mirrors of the databases. Meta-data driven data export to computing sites throughout our distributed collaboration will also be discussed. Code developed for this system has also been shown to work well for other tasks within BaBar, and common-use tools will be described. The system still performs well after years of use, and should work fine and scale for the life of the experiment. The use and experience of this system within BaBar will be discussed, along with recent developments to make things better.

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