



Contribution ID: 346

Type: oral presentation

Developments in BaBar simulation - life without a database

Wednesday, September 5, 2007 3:00 PM (20 minutes)

There is a need for a large dataset of simulated events for use in analysis of the data from the BaBar high energy physics experiment. The largest cycle of this production in the history of the experiment was just completed in the past year, simulating events against all detector conditions in the history of the experiment, resulting in over eleven billion events in eighteen months. This computing effort was distributed to almost twenty different computing centers in North America and Europe. The history of this production will be discussed in the talk. This was the second cycle of production for BaBar to produce data as a set of root files, where at the start of the experiment data produced into Objectivity databases. But even though Objectivity was removed from use in data storage, it was still in use for detector conditions. For the next cycle of production, which has recently begun in the experiment, the use of an Objectivity database for the detector conditions was removed, and condition data was distributed with the jobs as a set of root files. The results of this latest stage in the development of simulation production in BaBar will be discussed, and its effect on the computing effort.

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

The BaBar Computing Group

Primary author: Dr SMITH, Douglas (Stanford Linear Accelerator Center)

Co-authors: Dr KIM, Peter (Stanford Linear Accelerator Center); Dr KROEGER, Wilko (Stanford Linear Accelerator Center)

Presenter: Dr SMITH, Douglas (Stanford Linear Accelerator Center)

Session Classification: Distributed data analysis and information management

Track Classification: Distributed data analysis and information management