



Contribution ID: 338

Type: oral presentation

BaBar Bookkeeping - a distributed meta-data catalog of the BaBar event store.

Thursday 30 September 2004 17:10 (20 minutes)

The BaBar experiment has migrated its event store from an objectivity based system to a system using ROOT-files, and along with this has developed a new bookkeeping design. This bookkeeping now combines data production, quality control, event store inventory, distribution of BaBar data to sites and user analysis in one central place, and is based on collections of data stored as ROOT-files. These collections are grouped into pre-determined datasets, which define subsets of BaBar data to be used in analysis. Datasets are updated automatically to contain at any times the most up-to-date BaBar data. Local mirrors of the bookkeeping database can be used with the data distribution features to import collections and maintain local event stores containing subsets of the available BaBar data. The bookkeeping system is scalable and supports sites containing all available data and hundreds of users down to the single user with a laptop. Oracle and MySQL relational databases are supported in its use, and sites can choose which to support. Database mirrors in the bookkeeping system can be accessed over network, which allows to browse local inventories from remote sites. This book keeping system has been in active use in BaBar since early this year, and the scope of its use along with technologies developed to keep it working will be presented.

Authors: CESERACCIU, A. (INFN SEZIONE DI PADOVA); FORTI, A. (UNIVERSITY OF MANCHESTER); BUKIN, D. (BUDKER); HUTCHCROFT, D. (UNIVERSITY OF LIVERPOOL); KOVALSKYI, D. (UNIVERSITY OF MARYLAND); SMITH, D. (STANFORD LINEAR ACCELERATOR CENTER); DUBOIS-FELSMANN, G. (Caltech); JACKSON, P. (UNIVERSITY OF LONDON, ROYAL HOLLOWAY); ADYE, T. (RUTHERFORD APPLETON LABORATORY); ROETHEL, W. (UC, IRVINE)

Presenter: SMITH, D. (STANFORD LINEAR ACCELERATOR CENTER)

Session Classification: Distributed Computing Services

Track Classification: Track 4 - Distributed Computing Services