LHCb Book-Keeping

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Objectives

- Create a bookkeeping for the LHCb collaboration to store information concerning Event, Data, Tape, …
- Bookkeeping filled by the production (Real data or Monte Carlo)
- Bookkeeping used by physicists to query information usefull for their analysis

Definition

- What means bookkeeping ?
  - It is a facility to access DATA (real or MonteCarlo) in order to do analysis.
- Main use
  - Query to know information about DATA
  - Prepare cards file to do analysis

How to proceed

- Make the user requirements to define what must be found in this bookkeeping
- Define a model for the bookkeeping
- Make prototypes with different system
  - based on database technology
- Create User Interface
- Move the actual information to the bookkeeping

Remarks

- Bookkeeping location ?
  - central, distributed, replicate
- Accessibility ?
  - Windows, Unix, Internet,..
- Support for the bookkeeping ?
  - Service, maintenance, support..

First step (1)

- User requirements for the bookkeeping
  - Physicists must provide their input
  - Collect by Agnieszka
  - Deadline End of May 1999

User requirements (1)

- What must be store in the bookkeeping ?
  - DATA type : Real / Monte Carlo
  - Physics channel : mbias, bincl, B_d -> μx,...
  - Generator : production, decay, kinematics cuts
  - simulation : version of the simulation program and <u>detector</u> database used
  - reconstruction : version of the simulation program and <u>detector</u> database used

User requirements (2)

- Statistics : run, number of events, seeds
- Data location : homelab, tape file

- How to use the bookkeeping ?
  - Graphical interface to interrogate
  - Generate cards file used by any analysis job

Planning

- End May 99 : User Requirement
- End June 99 : Database Model + Sytem requirements
- End August 99 : Prototypes of database + user interface
- End September 99 : Choice of the model
- 3rd January 00 : Production phase

Next Step

- Send a news to the all LHCb collaboration about the proposal for “User Requirements for bookkeeping”
- Collect comment(s) until the end of the LHCb week.
- Start to design a model following the User requirements