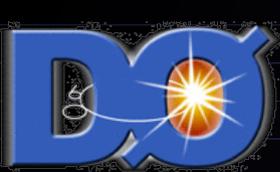


Luminosity



Outlook:

- LmDb description
- People and Institutions
- Current status
- Final remarks



LmDb Description



➤ History:

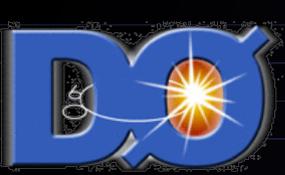
- Begun in November 2003 with the current personnel
- Earlier efforts gave us a starting point for the schema

➤ Purpose:

- Calculate and deliver a Luminosity Normalization
- Verify and certify data integrity for normalization purposes
- Improve error tracking and characterization
- Produce Operations Reports and Graphs
- Produce LBN Quality Reports

➤ Application consists of:

- 37 Oracle Tables, 2 Views on d0oflum1 (temporarily on fcdfora3 until new machine arrives)
- Web based Operations Report interface
- CORBA based database server for use by lmAccess
 - **Get Luminosity normalization for a particular data set**
- Interfaces for Data Quality Entry
 - **Replacing “Quality by Run” with “Quality by LBN”**

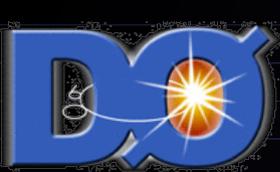


People and Institutions



➤ Many people contributed to design, these implemented:

- Universidade do Estado do Rio de Janeiro, Brazil
 - Luiz Mundim – ImAccess
 - Ana Carolina Assis Jesus – Operations Reports
 - Helena Malbouisson – Data loading
- Fermilab:
 - Elizabeth Gallas - Database Schema/Instance Definition, Documentation
 - Taka Yasuda – db server and C++ client side help
 - Steve White – db server and C++ client side help
 - Margherita Vittone – storage definitions and space report
 - DBA's: Nelly, Richard, Anil, Julie Trumbo
- Northwestern/Indiana (Heidi)
 - Dan Krop – Conversion of all Data Quality Interfaces



Current Status



➤ DataBase Loading

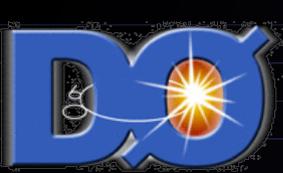
- old data (offline):
 - 3 x 6 month (Mar/04 - Aug/04, Sept/03 – Feb/04, Mar/03 – Sept/03): Done!
 - 4th period of data (Sept/02 – Feb/03) is about to finish loading
- online loading tool: To be done.

➤ Im_access:

- version with the current functionalities: Done (needs testing in realistic situation).
- New tools (ORing): studies has started.

➤ Luminosity reports (web based application that should use the production web server)

- run, multiples runs, store, multiple stores, triggers, daily, weekly, monthly
- working on exceptions to make the code more robust
- will be implemented an operations report caching using Squid as suggested by Lee.



Final remarks



- The data are being loaded smoothly, should be done very soon
- We have now about half of the people we had at the beginning of the project. We have informed the D0 management and hope they will come up with more collaborators, mainly for the online part
- Waiting for the new Luminosity machines