



DATABASE APPLICATIONS GROUP UPDATE

Igor Mandrichenko
NuComp Meeting
3/14/2012

Logbook with Shift Scheduling

- ECL since v3.3 has shift scheduling functionality
 - Developed based on NOvA requirements
 - Requirements discussed with DES
 - Goal is to have Shift Scheduler used by many groups/experiments
 - (loosely for now) integrated with the Logbook as part of ECL application
 - Deeper integration possibilities
 - Who was on shift ?
 - Shift calendar -> shift related entries ?
 - If you do not need it, continue using Logbook without using Shift Scheduling functionality

IF Beams Data

- The database is at ~200GB on minervadbprod server
 - Including indexes, ~25%
 - Estimated growth 0.5-1TB/year
- We have data since September 2011
 - every A9 (beam extraction to into NuMI line) event
 - ~6M events, ~50 variables per event, some are vectors
- Home page
 - <http://dbweb0.fnal.gov/ifbeam/app/index>
- REST data interface at
 - <http://dbweb0.fnal.gov:8088/ifbeam/data/index>
- Working on A9 event rate monitor for IF Control Room

IFBeam Data

- Schema modification complete
 - Split data into 2 tables – short and long term data
- New servers – 2 identical DB servers purchased for JDEM development, 1.5 years old
 - 8 TB disk on each (8x1TB), 24 GB memory, 8 cores
- Migration to new servers is in progress
 - Configure RAID (done)
 - 6TB -> 3TB striped+mirrored for long-term data (3-6 years of growth)
 - 1TB for short term data
 - 1TB – DB logs, maintenance, etc.
 - Establish replication in hot standby mode (done)
 - Transfer to FEF, DBAs
 - Physically move servers from LCC to FCC