Highlights

Vladimir.Bahyl@cern.ch



- * Electronic Logbook for the HEP Control Room (Philippe Canal/FNAL)
 - multimedia, remotely-viewable, configurable, platform independent
- * GDML (Radovan Chytrácek/CERN)
 - Geometry description of detectors
 - Geant4 prototype in C++
- * To Compress or Not to Compress

(Andrew Hanushevsky/SLAC)

- Objectivity compression database support
- Compared ootidy, zlib, zz-comp
- 2x capacity vs. 9x servers

The Linux Farm at the RCF

(Antonio Chan/BNL)

- CRS Reconstruction 187 CPUs
 - * Batch only, own batch software written in Perl
- CAS Analysis 151 CPUs

* Batch and interactive access, LSF

- VACM, web based monitoring, NFS, AFS
- * Linux @ DESY (Knut Woller/DESY)
 - 750 in Hamburg, 160 in Zeuthen
 - SuSE (YaST) 200 pkgs locally rest in AFS
 - server/personal workstation configurations
 - www.netsaint.org

- * D0 Reconstruction Farm (Lee Lueking/FNAL)
 - 40 dual-CPU PC's testing, 50 in production
 - 4 CPU SGI Origin 2000 for \$HOME
 - SAM/Enstore data delivery, FBS job control
- * The CDF Run 2 Offline Computer Farms (Pasha Murat/FNAL)
 - 2 I/O SGI nodes (staging, NFS, control)
 - 154 dual-CPU PCs, 1 GB I/O files, 20 MB/sec
- Experiences Constructing and Running Large Shared Clusters at CERN (Vladimír Bahyl/CERN)

- * Security for Grid (Robert Cowles/SLAC)
 - Authorization and authentication based on PKI
 - Possible authentication solutions:
 - Accounts everywhere, Central DB of userid/passwords, Central DB combined with distributed DB, Decentralize
 - Variations: Proxy/Delegation, Community Authorization
 Service, MyProxy
- * Object features of Oracle 9*i* (Marcin Nowak/CERN)
 - Object modeling (SQL 1999), OTT, C++ binding via OCCI
 - VLDB features for HEP (tablespaces, partitioning)

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