• CC-IN2P3 status
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CC-In2p3 status

- **Role**
  - TIER 1 for LHC, DZERO, BABAR experiments,
  - Providing services for about 60 non-LHC experiments
  - Providing services for all IN2P3 laboratories & DAPNIA
  - ROC (EGEE Regional Operations Center)
  - CIC (EGEE Core Infrastructure Center)

- **Staff**
  - Overall: 62 technical staff
  - Grid team: 12 persons
  - Working on both: 5 persons
About Resources

• Workers
  – Scientific Linux 305
  – kernel 2.4.21
  – 747 Workers BiPros ; 2.8 & 3 GHz
  – Some workers Solaris & AIX

• Storage (Used)
  – AFS : 5 TB
  – NFS : 25 TB
  – HPSS 5.1 : 1.2 PB
  – XROOTD : 70 TB
  – D-Cache : 30 TB

• Data Access & Transfers
  – SRB
  – BBFTP
  – GridFTP (directly or via SRM)
  – XROOTD
  – DCap

• Network (WAN)
  – CC-IN2P3 -> Ext : 1Gb/s
  – CC-IN2P3 ->Cern : 10Gb/s (end October)
Grid Cluster / Classical Cluster

- **Computing**
  - LCG Middleware installed on each WN
  - One Batch System (BQS) to rule them all
  - Single heterogeneous cluster

- **Storage**
  - Shared access to HPSS resource
  - Specific disk storage for LCG jobs
  - Dcache server (SRM)
New Features

- Using AFS for Worker Nodes middleware installation
  - No migration delay
  - Coexistence of various middleware (LCG / GLITE)
  - Workers stay in production during middleware upgrade
- D-Cache for Service Challenge 3
- Epimetheus installation server
- Parallel Farm (Pistoo) in production
  - 46 WN
  - Used by SIREN
  - Tested by ASTRO, BIOMED, HEP
Future Plans

- After NFS
  - Lustre
  - GPFS
  - StoreNext
- gLite installation
- Securing the LCG jobs working space
  - Certificate authentication for use of scratch space
  - No permission collision with shared login
  - Disk I/O managed through FUSE
- Kerberos migration (4 to 5)
- Migration from AFS to OpenAFS in progress