

---

# CC-IN2P3 Databases Service

Pierre-Etienne Macchi  
macchi@in2p3.fr  
2004-12-13

---

# Databases at CC-IN2P3

---

- Various RDBMS are available :
  - Oracle
  - MySQL
  - PostgreSQL
  - DB2
- MySQL & PostgreSQL are mainly used for dynamic web sites but also as data experiment repository (AtlasPoolCatalog, .....)
- DB2 is only used as a part of the HPSS storage system

# Oracle service

---

- 5 servers :
  - 2 Oracle 7 production servers under Aix
    - CC-IN2P3 apps : users database, computers databases, etc...
  - 1 Oracle 8i production server under Aix
    - hosting EDMS databases
  - 1 Oracle 9i server for development under Solaris8
    - Any experiment may use it for the tests and development before going to production
  - 1 Oracle 9i server for production under Solaris8 (4 procs)
    - All production databases of experiment, hosted services, and internal apps
- Oracle 7 and 8i servers planned to be dropped by mid 2005

# Oracle service

---

- By mid 2005 : availability of an Oracle cluster
  - 2 Sun V480
  - 1 To of SAN/NAS Storage
  - Oracle 10g + RAC options
- Goals :
  - 24/7 service
  - Will host all Oracle production database
  - Face the increasing demand in performance, space and permanent availability

# Oracle service

---

- The service is the same for all :
  - Databases administration
  - Databases backup
  - Technical Support
- But there is also implementation of specific options as long as they uses standard Oracle tools :
  - i.e : replication for OPERA experiment, import/export scripts, etc