

Institut Natemal de Physique Nucléaire et de Physique des Particules



LCG-3D DATABASE READINESS WORSHOP

DATABASE SERVICE @ CC

RDBMS SOFTWARES:

- ORACLE
- MYSQL
- POSGRESQL
- ORACLE
 - 91R2 AS PRODUCTION (1 HOST)
 - TRANSITION TO 10GR2 HAS BEGUN IN JANUARY
 - 1 RAC
- MYSQL & POSTGRESQL
 - 1 SINGLE HOST EACH (RHEL 4)
- HUMAN RESOURCES
 - 2 DBAs
 - WHICH MEANS NO TIMES TO SPEND ON TESTS

DRACLE 10G RAC HARDWARE

- RAC CONFIGURATION:
 - Z MAINS NODES : SUN FIRE 480R
 - 4 PROCESSORS ULTRASPARC-III+ 1,2 GHZ
 - 16 GB RAM
 - SUNDS 5.9 64 BITS
 - INTERNAL SYSTEM DISK MIRRORED
 - 1 SAN STORAGE:
 - STOREEDGE: 1TB
 - 1 MONITORING NODE ALSO DEDICATED TO DATAGUARD
 - SUN V240
 - 2 PROCESSORS ULTRASPARC-III+ 1,2 GHZ
 - 8 GB RAM
 - SUNDS 5.9 64 BITS
 - INTERNAL SYSTEM DISK MIRRORED

DRACLE 10G SOFTWARE

• FULL ORACLE CONFIG:

- DRACLE CLUSTERWARE FOR CLUSTERING SOFTWARE BETWEEN NODES
- 10G RELEASE 2 RAC AS PRODUCTION RELEASE FOR DATABASE INSTANCES
- ENTREPRISE MANAGER GRID CONTROL 10GR2
 - DAILY ADMINISTRATION
 - TAPE BACKUPS WITH RMAN

PROBLEMS

- UNEXPECTED CRASHES OF INSTANCES: DUE TO BUG 4556989
- EMGRID: RATHER DIFFICULT TO INSTALL AND TO MAKE IT FUNCTIONNAL:
 - BUGS IN INSTALL SCRIPTS!
 - SIDE EFFECT OF SHELL ENVIRONMENT VARIABLES!

RAC USAGE

- THIS CONFIG IS BUILT TO HOST ALL OUR ORACLE PRODUCTION DATABASES
- IT WILL HOST:
 - INSTANCES DEDICATED TO DUR LOCAL NEEDS
 - INSTANCES DEDICATED TO NON-LHC EXPERIMENTS
 - AND INSTANCES DEDICATED TO LHC EXPIREMENTS
- O 3D TESTBED
 - ONE INSTANCE IS DEDICATED TO 3D TESTBED
 - DNE INSTANCE IS SET UP FOR ATLAS AMI DATABASE