



ASCC Database Services

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Oracle Database Services in ASCC

- Oracle databases in Bioinformatics
 - Currently available databases services
 - Applications on Bio
- Oracle on Grid
 - Applications on Grid
- ASCC and 3D



Available Services

- ASCC Oracle budget currently comes from NRPGM (National Research Program for Genomic Medicine)
- Currently available (till the end of 2004)
 - Oracle 9.2.1 on Tru64
 - Oracle 9.2.1 on Linux
 - Oracle 9.2.1 on Solaris
 - Oracle 9.2.1 on AIX
- Our project intends to buy an Oracle 10g RAC on Linux (early 2005)



ASCC Oracle Enable Application in Bio

- SMD
 - (Standard Micro Array Databases)
 - Oracle 9.2.1 on RH7.3
 - Perl with Oracle backend
- Array Express (from EBI)
 - Oracle 9.2.1 on RH7.3
 - Servlet with JSP front end
 - Mage ML integrated
- NGC (National Genomic Center)
 - Oracle 9.2.1 on Tru64
 - App/DB are designed by ASCC
 - PHP, javascript



ASCC Oracle Enable Application in Bio (cont'd)

- MMP Mouse Tracking System
 - **M**utant **M**ouse **P**roject
 - Oracle 9.2.1 on RHEL 2.1 (IBM xServer)
 - Java Swing, Java Webstart
 - App/DB are designed by ASCC
- ASCC Bio-portal
 - Oracle 9.2.1 on RHEL 2.1
 - DBEST, DBSNP and Swiss-Protein databases
- Meta Center (upcoming project)
 - Oracle 10G RAC on Scientific Linux (??)



Oracle on Grid

- RLS
 - Oracle DB 9.2.1 on RHEL 2.1
- SRB (Storage Resource Broker) on Oracle 10G
 - SRB Mcat (Metadata Catalog) on Oracle 10G
 - Build application for Digital Archive, Biodiversity and Atmosphere Science
- ARDA participation
 - LHCb metadata catalog
 - AMI from ATLAS



ASCC and 3D

- Develop 3D middleware
 - Help to test Oracle Streaming feature on Oracle 10g (ChiWei Wang)
 - J. H. Wu will join 3D development work next February(2005)
- Share existence experience
 - Porting Bio-informatics database/application on 3D
- Participate 3D production site
 - Deploy necessary Oracle technology