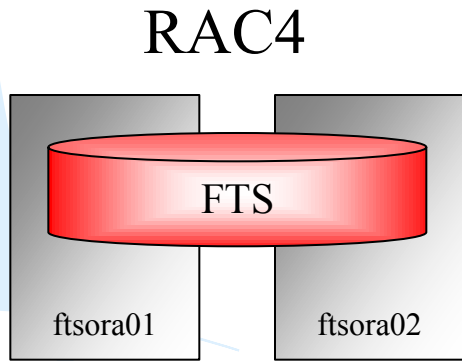
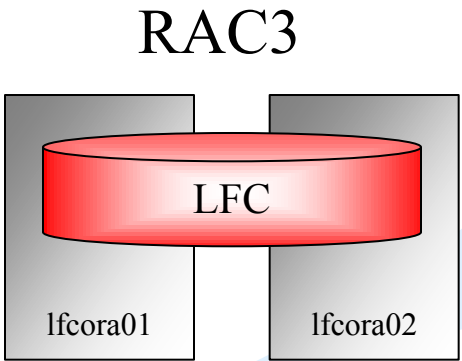
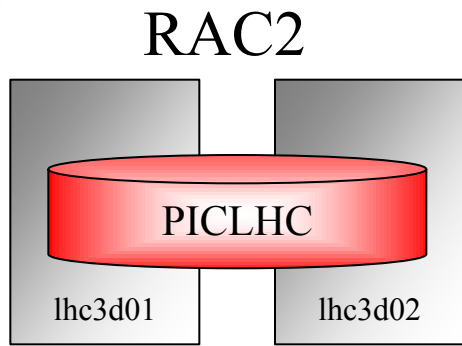
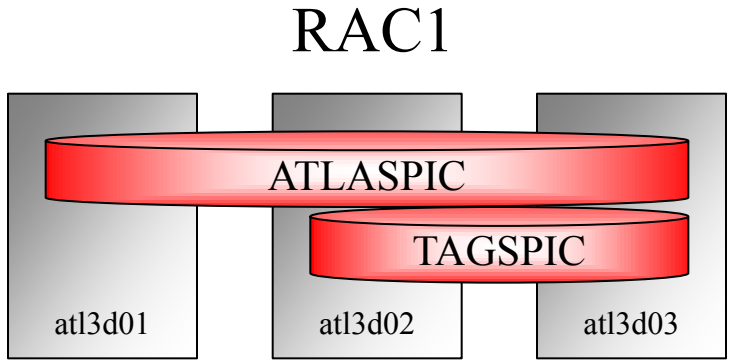


**PIC**  
port d'informació  
científica

# PIC Site review

*November 2010*  
*(Elena Planas)*

# Database distribution

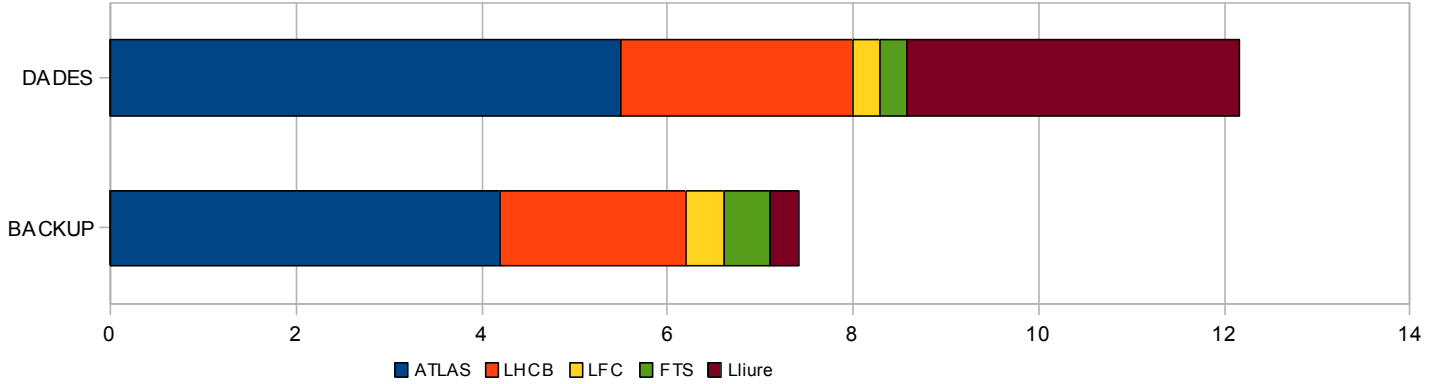


- **Servers** (All nodes hosting oracle databases are identical )
  - Linux RedHat 5.5 64 bits
  - Fujitsu siemens: Primergy Advanced Blade Ecosystem BX600-S2
  - 16G RAM
  - QuadeCore intel CPU 1,6GHz
- **Storage** (Two separated cabinets for DATA and BACKUP)
  - 20TB on NetApp fas3040 for **data** LUNs
    - Redundant FC connections
    - Failover between two controllers
    - 70 disks of 280GB
    - 6 spare disks + 4 parity disks + 4 double parity disks
    - Effective space → **12,4TB**
  - 13TB on fas270 for **backup** LUNs
    - 21 disks of 621GB
    - 2 spare disks + 2 parity disks + 2 double parity disks
    - Effective space → **7,7TB**

# 3D databases - Space distribution

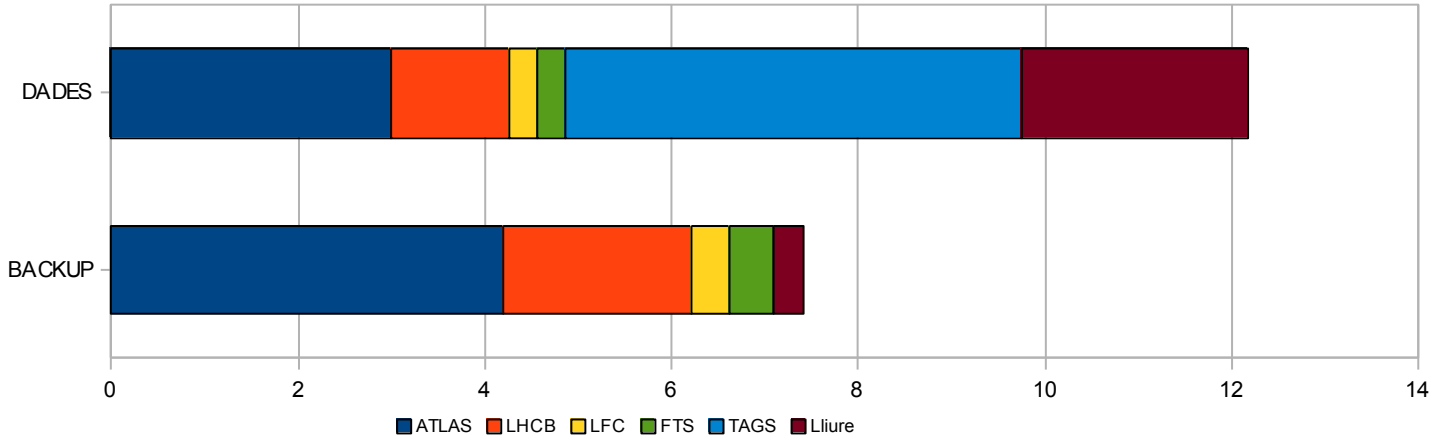
2009

Space Distribution (TB) Nov-09



2010

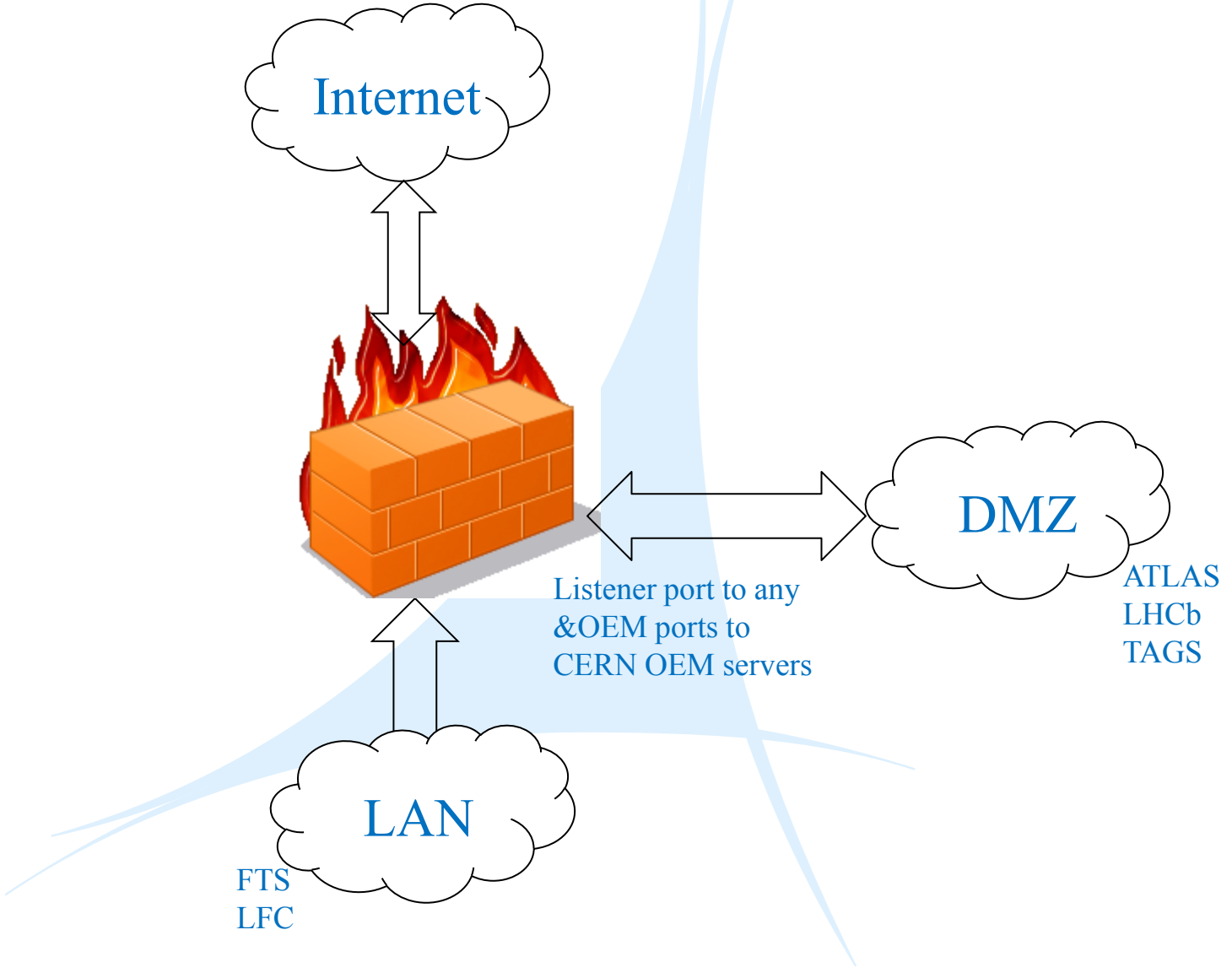
Space Distribution (TB) Nov-2010



# Space Distribution in numbers

<b>DB</b>	<b>Oracle Version</b>	<b>Space assigned</b>	<b>ASM DATA diskgroup</b>	<b>Used</b>	<b>Space assigned</b>	<b>ASM Backup diskgroup</b>	<b>Used</b>
<b>ATLAS</b>	10.2.0.4	3,0TB	2,0TB	32%	4,2TB	2,0TB	38%
<b>LHCb</b>	10.2.0.4	1,3TB	0,8TB	5%	2,0TB	2,0TB	6%
<b>LFC</b>	10.2.0.4	0,3TB	0,2TB	20%	0,4TB	0,4TB	50%
<b>FTS</b>	10.2.0.4	0,3TB	0,2TB	77%	0,5TB	0,4TB	36%
<b>TAGS</b>	10.2.0.4	4,8TB	4,8TB	60%	---		

# Network map



- **Changes since last WorkShop**
  - Increase of RAM on all the nodes from 8G to 16G.
  - Adjust Oracle init parameters to recommended values.
  - Create a TAGS DB.
- **Future plans**
  - Review system's performance, to evaluate migration to new platform.
  - Change ATLAS listener port from 1521 to another.