

SPRACE Status

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- **Implementation of a PC cluster in 3 phases**

- **In 4 years = 80 CPU's (16 + 32 + 32).**
- **Dual Xeon 2.4 GHz and 1 GB RAM.**
- **Gigabit Switches and external interface.**

- **1st Phase:**

- **16 Nodes.**
 - **1 Server.**
 - **278 GB SCSI.**

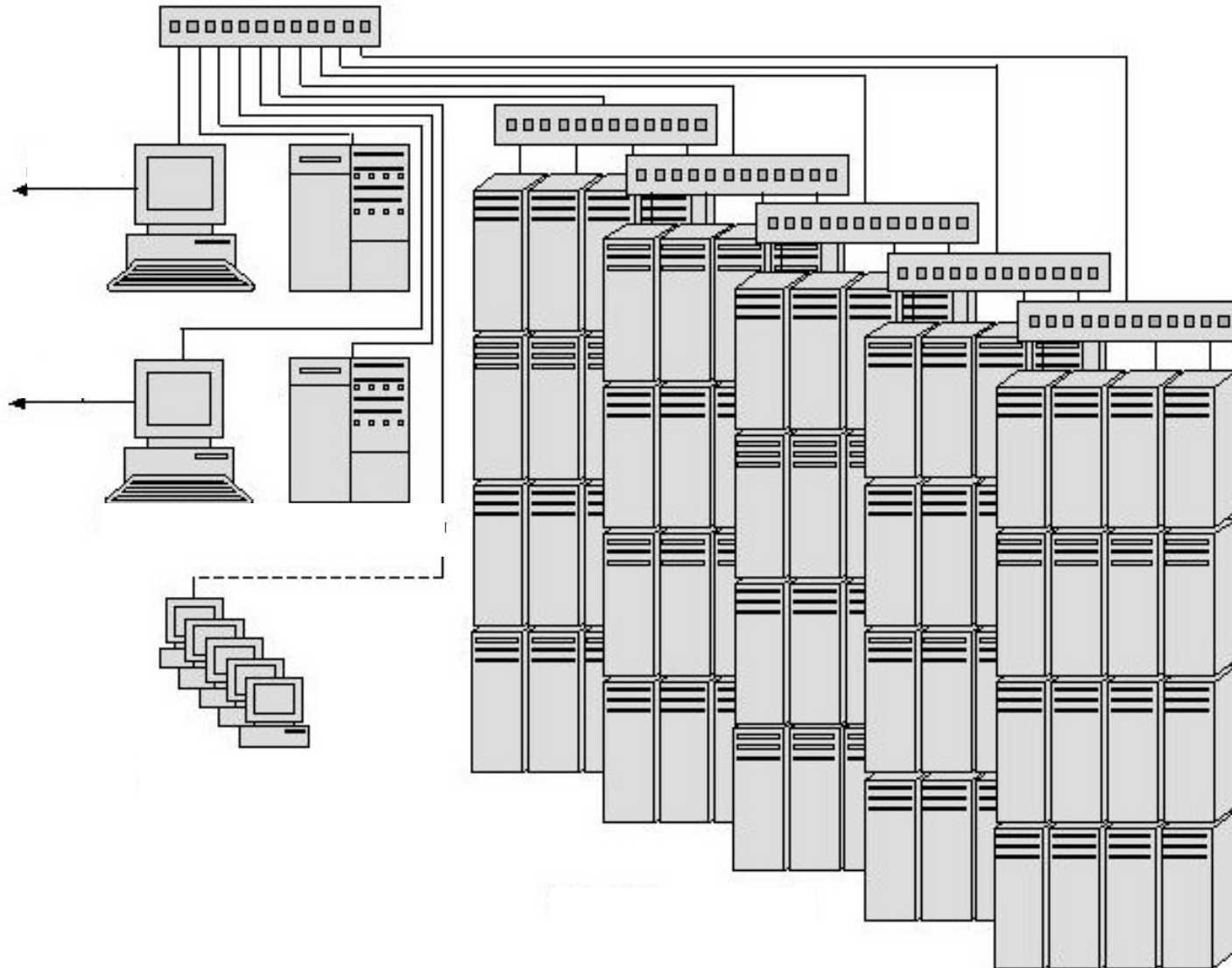
- **2nd Phase:**

- **+ 32 Nodes.**
 - **1 TB RAID.**

- **3rd Phase:**

- **+ 32 Nodes.**
 - **+ 1 Server.**
 - **+ 1 TB RAID adicional.**

The Cluster



Infrastructure



Tentative Goals

- **2004 (1st Phase)**
 - *Implementation of the initial cluster.*
 - *Installation of DØ software.*
 - *Start Monte-Carlo production for DØ.*
- **2005 (2nd Phase)**
 - *Integration of the cluster into DØRACE's.*
 - *Start Physics analysis for DØ.*
- **2006 (3rd Phase)**
 - *DØ physics analysis and other tasks.*
 - *Installation of CMS software.*
 - *Start Monte Carlo production for CMS.*
- **2007**
 - *DØ physics analysis and other tasks.*
 - *Integration of cluster in the CMS Grid.*
 - *Prepare for CMS analysis.*

First Steps: Test Cluster Setup

- ❑ *Setting up a testing cluster to be prepared for the cluster*
- ❑ *One Master node (Dual PIII, 1Ghz, 90 Gb disk) plus a couple of workers still to be gathered.*
- ❑ *Steps already done:*
 - *D0RunII releases installed (P14.03.02 + 2 t's).*
 - *Sam related software installed and configured according to instructions on Sam's page.*
 - *Sam station registered as d0ift.*
 - *GSI certificate received and put in place.*

Next Steps

- ❑ *Every thing looks fine, but still not working,
– But it will, and then ...*
- ❑ *Install McFarm, Ganglia and include in SAR GRID.*
- ❑ *Add some workers.*
- ❑ *Repeat every thing for the real cluster*
- ❑ *Celebrate the installation of the First Grid Node on South America.*