

Status and Specifications

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- 1. BUE Grid Objectives and current status
- 2. BUE Grid Specifications
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#### 1. BUE Grid Objectives and current status

A- The system is intended for running parallel programmes. . Shared memory codes can be run on single blades or workstation. In some cases these can automatically parallelized in an efficient manner using the installed Sun Studio software . Distributed memory codes supporting Open-MPI can also be run (the system has been tested on several such applications, including the cosmological simulation code <a href="Gadget2">Gadget2</a>

- **B** Using Geant4 software which has a variety of biomedical applications.
- C- In order to gain more access to CMS Data and analysis

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### 2- BUE Grid Specifications

- 4 Sun Blade Servers each with 8 cores
- 8 Sun *ultra 24* workstations each with 4 cores
- 1 Sun Storage 7110 with Capacity: 11.5 TB
- 2 switches with 24 ports
- 100 Mb/s internet bandwidth

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#### 3- Problems

A- We are waiting for to the new budget – which is expected soon - to enhance our resources by increasing the storage capacity to 40 TB and 24 CPU servers with quad cores for a better use of CMS database.

B- The internet bandwidth is limited to 100 Mb/s.

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#### 4- Future Plan

- 1- Achieving 40 Tb Storage and 24 CPU servers with quad cores
- 2- We target enlarging BUE capacity to 100 TB and 32 CPU with the help from the BUE.
- 3- Increasing the internet bandwidth to 500 Mb/s

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# Thank You