

Computing Resources at CIEMAT

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Computing Resources for AMS-02 MC Production

- CIEMAT participation in previous AMS-02 MC productions was mainly based on the computing resources of our Department
- Participation in future AMS-02 MC production will make use of resources available at CIEMAT Computer Center
- The most convenient option is a linux cluster already used for private AMS-02 MC productions
- The current configuration of the Linux cluster consists of 240 processors Dual Xeon quad-core 3.0GHz, 2GB RAM per core, 140GB local storage per node
- The system, 1920 cores, fully devoted to the execution of jobs
- A minimum of 5% of the available resources (100 cores) may be committed to AMS-02 MC production

Computing Resources for AMS-02 Data Analysis

- In addition to the use of the Physics Analysis Facility at SOC, an infrastructure is being set up to support CIEMAT Data Analysis activities
- A disk server with two 6C Intel Xeon X5650 2.66GHz processors, 24GB RAM and equipped with 24x2TBytes HDD, mounted on an 4U chassis with 36 HDD bays
- This system is intended to provide enough storage capability and computing power to support CIEMAT analysis activities during the first year of operation of AMS-02
- The disk server has already been ordered and will be installed before the end of the year