

Scientific Computing: first quantitative methodologies for a production environment

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In Data Center the necessity for the accounting of resources used by different groups is growing.

In this talk (and the correspondent note) the context and the scientific computing activity will be defined. Taking as an example a medium size Data Center (Pisa INFN) an industrial production approach will be followed.

A first methodology for the quantitative evaluation of the following data will be proposed:

- production level
- resource utilization efficiency
- cost distribution.

The evaluation of the resource utilization and the cost accounting are based on the electric power consumption: it will be described that this value can be considered as an practical example. The same methodology can be extended to different kind of costs and resources.

As practical application the results of a survey regarding the INFN-Pisa are reported.

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