Contribution ID: **191**   Type: **not specified**

Analysis of Scientific Cloud Computing requirements

Wednesday, 18 September 2013 11:40 (20 minutes)

While the requirements of enterprise and web applications have driven the development of Cloud computing, some of its key features, such as customized environments and rapid elasticity, could also benet scientic applications. However, neither virtualization techniques nor Cloud-like access to resources is common in scientic computing centers due to the negative perception of the impact that virtualization techniques introduce. In this presentation we discuss the feasibility of the cloud model to satisfy the computational science requirements and the main drawbacks that need to be addressed by cloud resource providers so that the maximum benefit can be obtained from a given cloud infrastructure.

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Session Classification: Using clouds - experiences and requirements from the community