

# Increasing Fault Tolerance by introducing Virtual Execution Environments \*

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September 24, 2008

## Abstract

Commercial Grids demand for contractually fixed levels of quality of service, expressed by means of Service Level Agreements (SLAs). The EC-funded project HPC4U developed transparent fault tolerance mechanisms allowing to comply with negotiated SLAs also in case of resource failures, providing checkpointing of also parallel applications and the migration over the Grid. This paper describes the concept of virtual execution environments for increasing the number of potential migration targets.

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\*This work has been partially supported by the EU within the 6th Framework Programme under contract IST-031772 "Advanced Risk Assessment and Management for Trustable Grids" (AssessGrid).