

QosCosGrid Middleware - Tools and Services for Advanced Job Management, Advance Reservation and Co-allocation of Computing Resources

Monday, 16 September 2013 17:05 (25 minutes)

The QosCosGrid (QCG) middleware is an integrated system offering advanced job and resource management capabilities to deliver to end-users supercomputer-like performance and structure. By connecting many distributed computing resources together, QCG offers highly efficient mapping, execution and monitoring capabilities for variety of applications, such as parameter sweep, workflows, MPI or hybrid MPI-OpenMP. Thanks to QosCosGrid, largescale applications, multi-scale or complex computing models can be automatically distributed over a network of computing resources with guaranteed QoS. The middleware provides also a set of unique features, such as advance reservation, co-allocation of distributed computing resources, support for interactive tasks.

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Session Classification: Services and platforms for VREs