

Job Migration and Fault Tolerance in SLA-aware Resource Management Systems*

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Abstract

Contractually fixed service quality levels are mandatory prerequisites for attracting the commercial user to Grid environments. Service Level Agreements (SLAs) are powerful instruments for describing obligations and expectations in such a business relationship. At the level of local resource management systems, checkpointing and restart is an important instrument for realizing fault tolerance and SLA-awareness. This paper highlights the concepts of migrating such checkpoint datasets to achieve the goal of SLA-compliant job execution.

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