

Germany, Belgium, France, and Back Again: Job Migration using Globus*

Axel Keller, Kerstin Voss
Paderborn Center for Parallel Computing
University of Paderborn
Germany
{kel,kerstin}@upb.de

Dominic Batre, Matthias Hovestadt, Odej Kao
Technical University of Berlin
Germany
{batre,maho,okao}@cs.tu-berlin.de

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Abstract

During the EC funded project HPC4U, we developed a software stack which uses transparent checkpointing of applications and migration of checkpoint data sets for ensuring SLA-compliance in case of resource outages. Transparent means that there is no need to modify the application in any way or to execute it in a special manner. We are able to migrate jobs to other cluster systems and to resume the execution. This paper describes the mechanisms to migrate jobs over the Grid using Globus and an implementation of the WS-Agreement specification.

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