Proposition de recherche doctorale

Optimization of checkpoints and execution model for an implementation of OpenMP on distributed memory architectures

Mots clés :
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- Unité de recherche : Services répartis Architectures MOdélisation Validation Administration des Réseaux
- Ecole doctorale : École Doctorale Informatique, Télécommunications, Électronique de Paris
- Domaine scientifique principal: Divers

Résumé du projet de recherche (Langue 1)

This thesis focus on the optimization of 1) the management of checkpoints to minimize the size and cost treatment, 2) the UHLRC execution model, for example by allowing the execution of multiple threads on a single node in the case of an execution on multi-core processors, 3) the overall execution time by providing a light and portable pseudo-virtualization to simulate a centralized and homogeneous execution environment on a distributed and to some extent heterogeneous platforms.