ALCHEMY WORKSHOP
ARCHITECTURE, LANGUAGES, COMPILATION AND HARDWARE SUPPORT FOR EMERGING MANYCORE SYSTEMS

ICCS
REYKJAVIK, ICELAND, 1st JUNE 2015
Alchemy Workshop Keynote: Programming heterogeneous, manycore machines: a runtime system's perspective

On the Use of a Many-core Processor for Computational Fluid Dynamics Simulations

A short overview of executing Chemical Reactions over the $\Sigma C$ and $\tau C$ Dataflow Programming Models

Threaded MPI Programming Model for the Epiphany RISC Array Processor

10:35 - 12:15 on 1st June 2015
14:30 - 16:10 on 1st June 2015

- An Empirical Evaluation of a Programming Model for Context-Dependent Real-time Streaming Applications
- A Case Study on Using a Proto-Application as a Proxy for Code Modernization
- A Methodology for Profiling and Partitioning Stream Programs on Many-core Architectures
- Execution Trace Graph Based Multi-Criteria Partitioning of Stream Programs
- A First Step to Performance Prediction for Heterogeneous Processing on Manycores
Towards an automatic co-generator for manycores’ architecture and runtime: STHORM case-study

Retargeting of the Open Community Runtime to Intel Xeon Phi

Prefetching Challenges in Distributed Memories for CMPs