RGE meeting about GPGPU

Supelec – Metz campus – June 9, 2011

Organization : Constantinos Makassikis & Stephane Vialle

Programme

9h00 – Coffee at reception centre

9h30 – Scientific talks

- 09h30-10h00: *Synchronous and asynchronous PDE solver on GPU clusters*. S. Vialle. Supélec – UMI 2958 GT-CNRS & AlGorille INRIA Project Team.
- 10h00-10h30: *Design and experiment of an American option pricer on GPU clusters.* L. Abbas-Turki, University of Paris-Est.
- 10h30-11h00: *Parallel MAX-MIN Ant System on GPU*. A. Delévacq, University of Reims Champagne-Ardenne

    11h00-11h30 : coffee break

- 11h30-12h15: Invited talk: *The OpenGPU project: Where can we set the GPU computing power in the computation chain?* E. Mahé, Scientific manager of the project, Minds Planet company.
- 12h15-12h45: *Impact of memory data storage about vectorisation strategy and performances on both CPUs and GPUs.* W. Kirschenmann, EDF company & AlGorille INRIA Project Team.
- 12h45-13h00: *Introduction to the focus group about « Computing and Energy Optimisation using CPUs and GPUs » in the European COST IC0804*. S. Vialle, Supelec – UMI 2958 GT-CNRS & AlGorille INRIA Project Team.

13h00 – 14h15 Lunch (Supelec restaurant)

- 14h15-14h45: *Solving Very Large Instances of the Mapping of Independent Tasks Problem on the GPU.* F. Pinel, Computer Science and Communications Research Unit, University of Luxembourg.
- 14h45-15h15: *Porting a multi-agents simulation on GPU*. Guillaume Laville, LIFC / University of Franche-Comté.
- 15h15-15h45: *Source-to-source code transformation : OpenMP C towards CUDA*. G. Noaje, University of Reims Champagne-Ardenne.

    15h45-16h00 : coffee break

- 16h00-16h15: *Introduction to a new research project*. T. Jost – LORIA/Alice-AlGorille
- 16h15-16h30: Round table

16h30 : Closing