

CURRICULUM VITAE

Loris MARCHAL

Laboratoire de l'Informatique du Parallelisme

Ecole Normale Supérieure de Lyon

46 allée d'Italie

69364 Lyon – FRANCE

Loris.Marchal@ens-lyon.fr ♦ <http://graal.ens-lyon.fr/~lmarchal>

EDUCATION

Ph.D, Computer Science, October 2006

University: Ecole Normale Supérieure de Lyon, France

Thesis: *Collective Communications and Steady-State Scheduling for Heterogeneous Platforms*

Advisors: Prof. Yves ROBERT & Dr. Olivier BEAUMONT

M.S., Computer Science, June 2003

University: Ecole Normale Supérieure de Lyon, France

Thesis: *Pipelined Collective Communications on Heterogeneous Platforms*

Advisor: Prof. Yves ROBERT

GRANTS

Government Scholarship at “Ecole Normale Supérieure de Lyon”

September 2000 – August 2004

French Department of Education and Research Ph.D Grant

September 2004 – present

ACADEMIC EXPERIENCE

University of Florida, ACIS laboratory, Gainesville, FL, USA

- Visitor Assistant (September 2007 – January 2007)

Ecole Normale Supérieure de Lyon, Lyon, France

- Ph.D Student (September 2003 – present)
- M.S. intern (February 2003 – July 2003)
- Teaching Assistant (September 2004 – present)

University of California, San Diego, San Diego, CA, USA

- Summer internship (June 2002 – August 2002)

Laboratoire d'Informatique de Marseille, Marseille, France.

- Summer internship (June 2001 – July 2001)

SELECTED PUBLICATIONS

Journals

- [1] O. Beaumont, A. Legrand, L. Marchal, and Y. Robert. Scheduling strategies for mixed data and task parallelism on heterogeneous clusters. *Parallel Processing Letters*, 13(2), 2003.
- [2] Olivier Beaumont, Arnaud Legrand, Loris Marchal, and Yves Robert. Pipelining broadcasts on heterogeneous platforms. *IEEE Trans. Parallel Distributed Systems*, 16(4), 2005.
- [3] Olivier Beaumont, Arnaud Legrand, Loris Marchal, and Yves Robert. Steady-state scheduling on heterogeneous clusters. *Int. J. of Foundations of Computer Science*, 16(2), april 2005.
- [4] Arnaud Legrand, Loris Marchal, and Yves Robert. Optimizing the steady-state throughput of scatter and reduce operations on heterogeneous platforms. *Journal of Parallel and Distributed Computing*, 65(12):1497–1514, 2005.
- [5] Loris Marchal, Yang Yang, Henri Casanova, and Yves Robert. Steady-state scheduling of multiple divisible load applications on wide-area distributed computing platforms. *Int. Journal of High Performance Computing Applications*, 2006, to be published.

Other refereed proceedings

- [1] O. Beaumont, A. Legrand, L. Marchal, and Y. Robert. Complexity results and heuristics for pipelined multicast operations on heterogeneous platforms. In *Proceedings of the 33rd International Conference on Parallel Processing (ICPP'04)*. IEEE Computer Society Press, 2004.
- [2] O. Beaumont, A. Legrand, L. Marchal, and Y. Robert. Pipelining broadcasts on heterogeneous platforms. In *International Parallel and Distributed Processing Symposium IPDPS'2004*. IEEE Computer Society Press, 2004.
- [3] Olivier Beaumont, Larry Carter, Jeanne Ferrante, Arnaud Legrand, Loris Marchal, and Yves Robert. Centralized versus distributed schedulers for multiple bag-of-task applications. In *International Parallel and Distributed Processing Symposium IPDPS'2006*. IEEE Computer Society Press, 2006.
- [4] Olivier Beaumont, Arnaud Legrand, Loris Marchal, and Yves Robert. Assessing the impact and limits of steady-state scheduling for mixed task and data parallelism on heterogeneous platforms. In *HeteroPar'2004: International Conference on Heterogeneous Computing, jointly published with ISPDC'2004: International Symposium on Parallel and Distributed Computing*. IEEE Computer Society Press, 2004.
- [5] Olivier Beaumont, Loris Marchal, and Yves Robert. Scheduling divisible loads with return messages on heterogeneous master-worker platforms. In *International Conference on High Performance Computing HiPC'2005*, LNCS. Springer Verlag, 2005, to appear.
- [6] H. Casanova, A. Legrand, and L. Marchal. Scheduling distributed applications: the simgrid simulation framework. In *Proceedings of the third IEEE International Symposium on Cluster Computing and the Grid (CCGrid'03)*, may 2003.
- [7] L. Marchal, P. Vicat-Blanc Primet, Y. Robert, and J. Zeng. Optimizing network resource sharing in grids. In *IEEE Global Telecommunications Conference (Gloebcom'2005)*. IEEE Computer Society Press, 2005, to appear.
- [8] L. Marchal, Y. Yang, H. Casanova, and Y. Robert. A realistic network/application model for scheduling divisible loads on large-scale platforms. In *International Parallel and Distributed Processing Symposium IPDPS'2005*. IEEE Computer Society Press, 2005.