Workshop on
Java for Parallel and Distributed Computing

Denis Caromel	Serge Chaumette	Geoffrey Fox	Peter Graham
INRIA	LaBRI	NPAC	PDSL and ADSL
Nice Univ.	Bordeaux 1 Univ.	Syracuse Univ.	Univ. of Manitoba

This series of workshops was initially created during the IPPS/SPDP conference that was held in Orlando, Florida, in April 1998. At that time Java was beginning to play a larger and more important role in the domain of parallel and distributed computing as was reflected by the significant number of papers that year that referred to this technology. It was thus decided to set up a forum for the community attending IPPS/SPDP (now merged as IPDPS for this Y2K Cancun edition) to discuss the topic. This workshop continues to provide an opportunity to share experience and views of current trends and activities in the domain.

The 2000 version of this workshop follows last year's workshop that was held in San Juan, Puerto Rico. Its focus is on Java for parallel and distributed computing, supporting environments, and related technologies. This year the organizers broadened the focus and added a new topic "Internet-based Parallel and Distributed Computing" to both cover new areas of interest and also to more fully recognize the impact of some of the subjects covered by papers presented last year in Puerto Rico.

The papers selected for presentation this year focus on efficiency and portability. They present effective solutions on how to cope with the most recent technologies in a transparent manner (papers on cluster computing and IPv6), without losing sight of efficiency (papers on native code integration and asynchronous parallel and distributed computing), portability and standards (paper on Java Message Passing API). The organizers again decided this year to reserve space for invited sessions and for open discussions in addition to the regular papers.

The quality and variety of the topics covered by the submitted papers reflect the vitality of this research area. The work of the referees and the program committee have led to the selection of a collection of papers reflecting current research efforts in the field. The organizers believe that the papers presented here advance the field significantly and that other researchers in the area will want to become familiar with their contents.

January 2000

Denis Caromel
Serge Chaumette
Geoffrey Fox
Peter Graham

Workshop Organization

Program Co-Chairs

Denis Caromel	INRIA, University of Nice Sophia Antipolis, Nice, FRANCE
Serge Chaumette	LaBRI, University Bordeaux 1, Bordeaux, FRANCE
Geoffrey Fox	NPAC, Syracuse University, Syracuse, NY, USA
Peter Graham	PDSL and ADSL, University of Manitoba, Winipeg, Manitoba, CANADA

Program Committee

Jack Dongarra	University of Tenessee, USA
Ian Foster	Argonne National Laboratory, USA
Doug Lea	State University of New York at Oswego, USA
Vladimir Getov	University of Westminster, London, UK
Dennis Gannon	Indiana University, USA
Siamak Zadeh	Sun Microsystems Computer Corp., USA
George K. Thiruvathukal	Loyola University, USA
Michael Philippsen	University of Karlsruhe, GERMANY
David Walker	Cardiff University, UK