

Preface

Parallel Virtual Machine (PVM) and Message Passing Interface (MPI) are the most frequently used tools for programming according to the message passing paradigm, which is considered one of the best ways to develop parallel applications.

This volume comprises 50 revised contributions presented at the Eighth European PVM/MPI Users' Group Meeting, which was held on Santorini (Thera), Greece, 23–26 September 2001. The conference was organized by the Department of Informatics and Telecommunications, University of Athens, Greece.

This conference has been previously held in Balatofüred, Hungary (2000), Barcelona, Spain (1999), Liverpool, UK (1998), and Krakow, Poland (1997). The first three conferences were devoted to PVM and were held at the TU Munich, Germany (1996), the ENS Lyon, France (1995), and the University of Rome (1994).

This conference has become a forum for users and developers of PVM, MPI, and other message passing environments. Interaction between these groups has proved to be very useful for developing new ideas in parallel computing and for applying some of those already existent to new practical fields. The main topics of the meeting were evaluation and performance of PVM and MPI, extensions and improvements to PVM and MPI, algorithms using the message passing paradigm, and applications in science and engineering based on message passing. The conference included one tutorial on MPI and 9 invited talks on advances in MPI, cluster computing, network computing, Grid computing, and parallel programming and programming systems. These proceedings contain papers on the 46 oral presentations together with 4 poster presentations.

Invited speakers of Euro PVM/MPI were Frederica Darema, Al Geist, Bill Gropp, Domenico Laforenza, Phil Papadopoulos, Alexander Reinefeld, Thomas Sterling, and Vaidy Sunderam.

We would like to express our gratitude for the kind support of Compaq, HP-Germany, IBM, Microsoft, MPI Software Technology, M-Data, Silicon Computers Ltd, SUN Microsystems, TurboLinux, the Ministry of Education and Religious Affairs of Greece, and the University of Athens. Also, we would like to thank the members of the Program Committee and the other reviewers for their work in refereeing the submitted papers and ensuring the high quality of Euro PVM/MPI.

September 2001

Yiannis Cotronis
Jack Dongarra

Program Committee

Vassil Alexandrov	University of Reading, UK
Ranieri Baraglia	CNUCE, Pisa, Italy
Arndt Bode	LRR – Technische Universität München, Germany
Marian Bubak	Institute of Computer Science and ACC CYFRONET, AGH, Krakow, Poland
Jacques Chassin- de-Kergommeaux	ID IMAG – Grenoble, France
Yiannis Cotronis	University of Athens, Greece
José Cunha	Universidade Nova de Lisboa, Portugal
Erik D’Hollander	University of Gent, Belgium
Frederic Desprez	LIP – ENS Lyon and INRIA France
Jack Dongarra	University of Tennessee and ORNL, USA
Graham Fagg	University of Tennessee, USA
Al Geist	Oak Ridge National Labs, USA
Michael Gerndt	LRR – Technische Universität München, Germany
Andrzej Goscinski	Deakin University, Australia
Rolf Hempel	C&C Research Labs, NEC Europe Ltd., Germany
Ladislav Hluchý	Slovak Academy of Science – Bratislava, Slovakia
Peter Kacsuk	SZTAKI, Hungary
Jan Kwiatkowski	Wroclaw University of Technology, Poland
Domenico Laforeza	CNUCE-Inst. of the Italian National Res. Council, Italy
Miron Livny	University of Wisconsin – Madison, USA
Thomas Ludwig	LRR – Technische Universität München, Germany
Emilio Luque	Universitat Autònoma de Barcelona, Spain
Tomàs Margalef	Universitat Autònoma de Barcelona, Spain
Hermann Mierendorff	GMD, Germany
Shirley Moore	University of Tennessee, USA
Benno Overeinder	University of Amsterdam, The Netherlands
Andrew Rau-Chaplin	Dalhousie University – Halifax, Canada
Jeff Reeve	University of Southampton, UK
Yves Robert	LIP – Ecole Normale Supérieure de Lyon, France
Casiano Rodríguez	Universidad de La Laguna, SPAIN
Wolfgang Schreiner	RISC-Linz, – Johannes Kepler University, Linz, Austria
Miquel A. Senar	Universitat Autònoma de Barcelona, Spain
João Gabriel Silva	Universidade de Coimbra, Portugal
Vaidy Sunderam	Emory University – Atlanta, USA
Francisco Tirado	Universidad Computense de Madrid, Spain
Bernard Tourancheau	RESAM, UCB-Lyon and INRIA, France
Pavel Tvrdík	Czech Technical University, Czech Republic
Jerzy Wásniewski	The Danish Computing Centre for Research and Education, Lyngby, Denmark
Roland Wismüller	LRR – Technische Universität München, Germany

Additional Reviewers

Astaloš Jan	Slovak Academy of Science – Bratislava, Slovakia
Balis Bartosz	Institute of Computer Science AGH, Cracow, Poland
Balogh Zoltan	Slovak Academy of Science – Bratislava, Slovakia
Birra Fernando	Universidade Nova de Lisboa, Portugal
Buhmann Martin	Universität Giessen, Germany
Caron Eddy	LIP ENS Lyon, France
Dobrucky Miroslav	Slovak Academy of Science – Bratislava, Slovakia
Eavis Todd	Dalhousie University, Canada
Ferrini Renato	CNUCE, Pisa, Italy
Funika Wlodzimierz	Institute of Computer Science AGH, Cracow, Poland
Hernandez Mario	Universidad de las Palmas de Gran Canaria, Spain
Leon Coromoto	Universidad de La Laguna, Spain
Lindermeier Markus	LRR – Technische Universität München, Germany
Luksch Peter	LRR – Technische Universität München, Germany
Martakos Drakoulis	University of Athens, Greece
Miranda Javier	Universidad de las Palmas de Gran Canaria, Spain
Namyst Raymond	LIP ENS Lyon, France
Palmerini Paolo	CNUCE, Pisa, Italy
Perego Raffaele	CNUCE, Pisa, Italy
Perez Juan C.	Universidad de La Laguna, Spain
Quinson Martin	LIP ENS Lyon, France
Rackl Gunther	LRR – Technische Universität München, Germany
Sayas Francisco-Javier	Universidad de Zaragoza, Spain
Suter Frederic	LIP ENS Lyon, France
Tran D.V.	Slovak Academy of Science – Bratislava, Slovakia
Zajac Katarzyna	Institute of Computer Science AGH, Cracow, Poland



<http://www.springer.com/978-3-540-42609-7>

Recent Advances in Parallel Virtual Machine and
Message Passing Interface
8th European PVM/MPI Users' Group Meeting,
Santorini/Thera, Greece, September 23-26, 2001.
Proceedings
Cotronis, Y.; Dongarra, J. (Eds.)
2001, XVI, 444 p., Softcover
ISBN: 978-3-540-42609-7