

Recent Advances in Parallel Virtual Machine and Message Passing Interface

12th European PVM/MPI User's Group Meeting, Sorrento, Italy, September 18-21, 2005, Proceedings

The message passing paradigm is the most frequently used approach to developing high performance computing applications on parallel and distributed computing architectures. The Parallel Virtual Machine (PVM) and Message Passing Interface (MPI) are the two main representatives in this domain. This volume comprises 61 selected contributions presented at the 12th European PVM/MPI Users' Group Meeting, which was held in Sorrento, Italy, September 18–21, 2005. The conference was organized by the Dipartimento di Ingegneria dell'Informazione of the Second University of Naples, Italy in collaboration with CREATE and the Institute of Graphics and Parallel Processing (GUP) of the Johannes Kepler University Linz, Austria. The conference was previously held in Budapest, Hungary (2004), Venice, Italy (2003), Linz, Austria (2002), Santorini, Greece (2001), Balatonfüred, Hungary (2000), Barcelona, Spain (1999), Liverpool, UK (1998), and Krakow, Poland (1997). The first three conferences were devoted to PVM and were held in Munich, Germany (1996), Lyon, France (1995), and Rome, Italy (1994). In its twelfth year, this conference is well established as the forum for users and developers of PVM, MPI, and other message passing environments. Interactions between these groups have 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, implementations and improvements of PVM and MPI, parallel algorithms using the message passing paradigm, parallel applications in science and engineering, and cluster and grid computing.

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