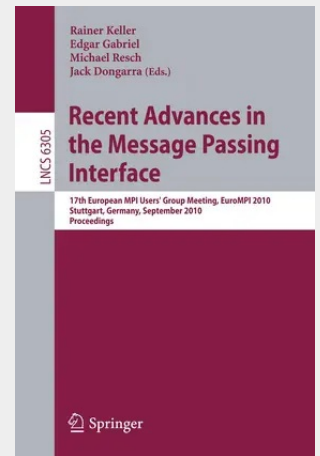


Recent Advances in the Message Passing Interface

17th European MPI User's Group Meeting, EuroMPI 2010, Stuttgart, Germany, September 12-15, 2010, Proceedings

Parallel Computing is at the verge of a new era. Multi-core processors make parallel computing a fundamental skill required by all computer scientists. At the same time, high-end systems have surpassed the PetaFlop barrier, and significant efforts are devoted to the development of hardware and software technologies for the next-generation Exascale systems. To reach this next stage, processor architectures, high-speed interconnects and programming models will go through dramatic changes. The Message Passing Interface (MPI) has been the most widespread programming model for parallel systems of today. A key question of upcoming Exascale systems is whether and how MPI has to evolve in order to meet the performance and productivity demands of Exascale systems. EuroMPI is the successor of the EuroPVM/MPI series, a flagship conference for this community, established as the premier international forum for researchers, users and vendors to present their latest advances in MPI and message passing system in general. The 17th European MPI users group meeting was held in Stuttgart during September 12-15, 2010. The conference was organized by the High Performance Computing Center Stuttgart at the University of Stuttgart. The previous conferences were held in Espoo (2009), Dublin (2008), Paris (2007), Bonn (2006), Sorrento (2005), Budapest (2004), Venice (2003), Linz (2002), Sestri Torinese (2001), Balatonfüred (2000), Barcelona (1999), Liverpool (1998), Krakow (1997), Munich (1996), Lyon (1995) and Rome (1994). The main topics of the conference were message-passing systems – especially MPI, performance, scalability and reliability issues on very large scale systems.

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