

<<并行虚拟计算机与信息传送界面最新进展>>

图书基本信息

书名：<<并行虚拟计算机与信息传送界面最新进展Recent advances in parallel virtual machine and message passing interface>>

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内容概要

This book constitutes the refereed proceedings of the 13th European PVM/MPI Users' Group Meeting held in Bonn, Germany in September 2006. The 38 revised full papers presented together with abstracts of 6 invited contributions, 4 tutorial papers and 6 poster papers were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on collective communication, communication protocols, debugging and verification, fault tolerance, metacomputing and grid, parallel I/O, implementation issues, object-oriented message passing, limitations and extensions, performance, and are completed with 6 contributions to the special ParSim session on current trends in numerical simulation for parallel engineering environments.

书籍目录

Invited Talks Too Big for MPI? Approaches for Parallel Applications Fault Tolerance Where Does MPI Need to Grow? Peta-Scale Supercomputer Project in Japan and Challenges to Life and Human Simulation in Japan Resource and Application Adaptivity in Message Passing Systems Performance Advantages of Partitioned Global Address Space LanguagesTutorials Using MPI-2: A Problem-Based Approach Performance Tools for Parallel Programming High-Performance Parallel I/O Hybrid MPI and OpenMP Parallel ProgrammingOutstanding Papers Issues in Developing a Thread-Safe MPI Implementation Scalable Parallel Suffix Array Construction Formal Verification of Programs That Use MPI One-Sided CommunicationCollective Communication MPI Collective Algorithm Selection and Quadtree Encoding Parallel Prefix (Scan) Algorithms for MPI Efficient Allgather for Regular SMP-Clusters Efficient Shared Memory and RDMA Based Design for MPI_Allgather over InfiniBandCommunication Protocols High Performance RDMA Protocols in HPC Implementation and Shared-Memory Evaluation of MPICH2 over the Nemesis Communication Subsystem MPI/CTP: A Reconfigurable MPI for HPC ApplicationsDebugging and Verification Correctness Checking of MPI One-Sided Communication Using MarmotFault ToleranceMetacomputing and GridParalles I/OImplementation IssuesObject-Oriented Message Passing Limitations and ExtensionsPerformanceParSimPoster AbstractsAuthor Index

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