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Subsystem -- MPI/CTP: A Reconfigurable MPI for HPC Applications --Debugging and Verification -- Correctness Checking of MPI One-Sided Communication Using Marmot -- An Interface to Support the Identification of Dynamic MPI 2 Processes for Scalable Parallel Debugging -- Modeling and Verification of MPI Based Distributed Software -- Fault Tolerance -- FT-MPI, Fault-Tolerant Metacomputing and Generic Name Services: A Case Study -- Scalable Fault Tolerant Protocol for Parallel Runtime Environments -- An Intelligent Management of Fault Tolerance in Cluster Using RADICMPI -- Extended mpiJava for Distributed Checkpointing and Recovery -- Metacomputing and Grid -- Running PVM Applications on Multidomain Clusters --Reliable Orchestration of Distributed MPI-Applications in a UNICORE-Based Grid with MetaMPICH and MetaScheduling -- The New Multidevice Architecture of MetaMPICH in the Context of Other Approaches to Grid-Enabled MPI -- Using an Enterprise Grid for Execution of MPI Parallel Applications – A Case Study -- Parallel I/O --Self-adaptive Hints for Collective I/O -- Exploiting Shared Memory to Improve Parallel I/O Performance -- High-Bandwidth Remote Parallel I/O with the Distributed Memory Filesystem MEMFS -- Effective Seamless Remote MPI-I/O Operations with Derived Data Types Using PVFS2 -- Implementation Issues -- Automatic Memory Optimizations for Improving MPI Derived Datatype Performance -- Improving the Dynamic Creation of Processes in MPI-2 -- Object-Oriented Message Passing -- Non-blocking Java Communications Support on Clusters --Modernizing the C++ Interface to MPI -- Limitations and Extensions --Can MPI Be Used for Persistent Parallel Services? -- Observations on MPI-2 Support for Hybrid Master/Slave Applications in Dynamic and Heterogeneous Environments -- What MPI Could (and Cannot) Do for Mesh-Partitioning on Non-homogeneous Networks -- Performance --Scalable Parallel Trace-Based Performance Analysis -- TAUg: Runtime Global Performance Data Access Using MPI -- Tracing the MPI-IO Calls' Disk Accesses -- Measuring MPI Send and Receive Overhead and Application Availability in High Performance Network Interfaces --Challenges and Issues in Benchmarking MPI -- Implementation and Usage of the PERUSE-Interface in Open MPI -- ParSim -- 5th International Special Session on Current Trends in Numerical Simulation for Parallel Engineering Environments -- MPJ Express Meets Gadget: Towards a Java Code for Cosmological Simulations -- An Approach for Parallel Fluid-Structure Interaction on Unstructured Meshes --Optimizing a Conjugate Gradient Solver with Non-Blocking Collective **Operations -- Parallel DSMC Gasflow Simulation of an In-Line Coater** for Reactive Sputtering -- Parallel Simulation of T-M Processes in Underground Repository of Spent Nuclear Fuel -- Poster Abstracts --On the Usability of High-Level Parallel IO in Unstructured Grid Simulations -- Automated Performance Comparison -- Improved GROMACS Scaling on Ethernet Switched Clusters -- Asynchronity in Collective Operation Implementation -- PARUS: A Parallel Programming Framework for Heterogeneous Multiprocessor Systems -- Application of PVM to Protein Homology Search.