Preface

Sponsors, Exhibitors / Participants in the industrial track

Committees

Invited papers

Parallel Machines and the Digital Brain

An Intricate Extrapolation on Occasion of JvNs 100-th Birthday

So Much Data, So Little Time...

Software Technology

On Compiler Support for Mixed Task and Data Parallelism

Distributed Process Networks - Using Half FIFO Queues in CORBA

An efficient data race detector backend for DIOTA

Pipelined parallelism for multi-join queries on shared nothing machines

Towards the Hierarchical Group Consistency for DSM systems: an efficient way to share data objects

An operational semantics for skeletons

A Programming Model for Tree Structured Parallel and Distributed Algorithms and its Implementation in a Java Environment

A Rewriting Semantics for an Event-Oriented Functional Parallel Language

RMI-like communication for migratable software components in HARNESS

Semantics of a Functional BSP Language with Imperative Features

The Use of Parallel Genetic Algorithms for Optimization in the Early Design Phases

An Integrated Annotation and Compilation Framework for Task and Data Parallel Programming in Java

On The Use of Java Arrays for Sparse Matrix Computations

A Calculus of Functional BSP Programs with Explicit Substitution

JToe: a Java API for Object Exchange

A Modular Debugging Infrastructure for Parallel Programs

Toward a Distributed Computational Steering Environment based on CORBA

Parallel Decimation of 3D Meshes for Efficient Web-Based Isosurface Extraction

Parallel Programming

MPI on a Virtual Shared Memory

OpenMP vs. MPI on a Shared Memory Multiprocessor

MPI and OpenMP implementations of Branch-and-Bound Skeletons

Parallel Overlapped Block-Matching Motion Compensation Using MPI and OpenMP

A comparison of OpenMP and MPI for neural network simulations on a SunFire 6800

Comparison of Parallel Implementations of Runge-Kutta Solvers: Message Passing vs. Threads

Scheduling

Extending the Divisible Task Model for Workload Balancing in Clusters

The generalized diffusion method for the load balancing problem
Delivering High Performance to Parallel Applications Using Advanced Scheduling

Multilevel Extended Algorithms in Structural Dynamics on Parallel Computers

Parallel Model Reduction of Large-Scale Unstable Systems

Parallel Decomposition Approaches for Training Support Vector Machines

Fast parallel solvers for fourth-order boundary value problems

Parallel Solution of Sparse Eigenproblems by Simultaneous Rayleigh Quotient Optimization with FSAI preconditioning

An Accurate and Efficient Selfverifying Solver for Systems with Banded Coefficient Matrix

3D parallel calculations of dendritic growth with the lattice Boltzmann method

Distributed Negative Cycle Detection Algorithms

A Framework for Seamlesly Making Object Oriented Applications Distributed

Performance Evaluation of Parallel Genetic Algorithms for Opti

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