

Accepted Paper List

Architecture

A Data Transformations Based Approach for Optimizing Memory and Cache Locality on Distributed Memory Multiprocessors

Jun Xia, Xuejun Yang

A Frech Policy Maximizing Throughput and Fairness for Two-Context SMT Processors

Caixia Sun, Hongwei Tang, Minxuan Zhang

A Loop Transformation Using Two Parallel Region Partitioning Method

Sam Jin Jeong, Jung Soo Han

Criticality Based Speculation Control for Speculative Multithreaded Architectures

Rahul Nagpal, Anasua Bhowmik

Design and Implementation of Semantic Caching Coherency Control Scheme toward Distributed Environment

Hai Wan, Lei Li

Energy Efficient United L2 Cache Design With Instruction/Data Filter Scheme

Zhiqiang Ma, Zhenzhou Ji, Mingzeng Hu, Yi Ji

Improving Latency Tolerance of Network Processors through Simultaneous Multithreading

Bo Liang, Hong An, Fang Lu, Rui Guo

RIMP: Runtime Implicit Predication

YuXing Tang, Kun Deng, Xiaodong Wang, Yong Dou, Xingming Zhou

Static Partitioning vs Dynamic Sharing of Resources in Simultaneous MultiThreading Microarchitectures

Liu Chen, Jean-Luc Gaudiot

Algorithm and Theory

Autonomous-Centered Problem Allocation Oriented to Cooperation

Xiping Liu, Wanchun Dou, Guihai Chen, Shijie Cai, Jiashan Tang

Contention-Free Communication Scheduling for Irregular Data Redistribution in Parallelizing Compilers

Kun-Ming Yu, Chi-Hsiu Chen, Ching-Hsien Hsu, Chang-Wu Yu, Chiu-Kuo Liang

Experiments on Asynchronous Partial Gauss-Seidel Method

Hiroshi Nishida, Hairong Kuang

Improved Program Dependence Graph and Algorithm for Static Slicing Concurrent Programs

Jianyu Xiao, Deyun Zhang, Haiquan Chen, Hao Dong

Parallelisation of Sequential Programs by Invasive Composition and Aspect Weaving

Mikhail Chalabine, Christoph Kessler

Revisiting the Election Problem in Asynchronous Distributed Systems

SungUoon Bauk

Scheduling Scheme with Fairness and Adaptation in the Joint Allocation of Heterogeneous Resources

Yu Hua, Chanle Wu, Mengxiao Wu

Solving the Symmetric Tridiagonal Eigenproblem Using MPI/OpenMP Hybrid Parallelization

Yonghua Zhao, Jiang Chen, Xuebin Chi

Trust Management with Safe Privilege Propagation

Gang Yin, Huaimin Wang, Tao Liu, Mingfeng Chen, Dianxi Shi

Vector Space Based On Hierarchical Weighting: A Component Ranking Approach to Component Retrieval

Gui Gui, Paul Scott

System and Software

A High Availability Mechanism for Parallel File System

Hu Zhang, Weiguo Wu, Xiaoshe Dong, Depei Qian

A User-guided Semi-automatic Parallelization Method and Its Implementation

Chuliang Weng, Zhongguo Chen, Xinda Lu, Minglu Li, Yong Yin

CAPU: Enhancing P2P File Sharing System with Capacity Aware Topology

Hongliang Yu, Weimin Zheng, Dongsheng Wang, Haitao Dong, Lu Li

Implementing Component Persistence in CCM based on StarPSS

Jingbin An, Yan Jia, Zhiying Wang

Load Balancing Design Issues on Prefetch-Based DSM Systems

Hsiao-Hsi Wang, Kuan-Ching Li, Kuo-Jen Wang, Ssu-Hsuan Lu, Chun-Chieh Yang

Task Assignment for Network Processor Pipelines Using GA

Shoumeng Yan, Xingshe Zhou, Lingmin Wang, Fan Zhang, Haipeng Wang

Test-Suite Reduction Using Genetic Algorithm

Xueying Ma, Binkui Sheng, Chengqing Ye

Grid Computing

A Constellation Model for Grid Resource Management

Yinfeng Wang, Xiaoshe Dong, Xiuqiang He, Hua Guo, Fang Zheng, Zhongsheng Qin

An Effective Information Service Architecture in Grid Environment

Huashan Yu, Yin Luo, Xingguo Zhu, Xiaoming Li

An Efficient Data Management System with High Scalability for ChinaGrid Support Platform

Hai Jin, Wenjun Gong, Song Wu, Muzhou Xiong, Li Qi, Chengwei Wa

CGSP: An Extensible and Reconfigurable Grid Framework

Yongwei Wu, Song Wu, Huashan Yu, Chunming Hu

Early Experience of Remote and Hot Service Deployment with Trustworthiness in CROWN Grid

Hailong Sun, Yanmin Zhu, Chunming Hu, Jinpeng Huai, Yunhao Liu, Jianxin Li

Grid Developing Environment in CGSP System

Weimin Zheng, Lisen Mu, Qing Wang, Yongwei Wu

Grid Job Support System in CGSP

Jinpeng Huai, Yu Wan, Yong Wang, Haifeng Ou

JFreeSim: A Grid Simulation Tool Based on MTMSMR Model

Hai Jin, Jin Huang, Xia Xie, Qin Zhang

OOML-Based Ontologies and Its Services for Information Retrieval in UDMGrid

Xixi Luo, Xiaowu Chen

Networking

A Hybrid Integrated QoS Multicast Routing Algorithm in IP/DWDM Optical Internet

Xingwei Wang, Jia Li, Min Huang

An Efficient Distributed Broadcasting Algorithm for Ad Hoc Networks

Qiang Sun, Layuan Li

Chaos-based Dynamic QoS Scheme and Simulating Analysis

Qigang Zhao, Qunzhan Li

Dynamic Delaunay Triangulation for Wireless Ad Hoc Network

Ming Li, Xicheng Lu, Wei Peng

Energy Efficient Multipath Routing in Large Scale Sensor Networks with Multiple Sink Nodes

Yuequan Chen, Edward Chan, Song Han

FLC: A Novel Dynamic Buffer Tuner for Shortening Service Roundtrip Time over the Internet by Eliminating User-Level Buffer Overflow on the Fly

Wilfred W.K. Lin, Allan K.Y. Wong, Tharam S. Dillon

Intelligent Congestion Avoidance in Differentiated Service Networks

Farzad Habibipour, Mehdi Glily, Ali Yazdian, Masoum Fardis

Rule-based Anomaly Detection of Inter-domain Routing System

Peidong Zhu, Xin Liu, Mingjun Yang, Ming Xu

Transaction of Web Services Based on Struts

Gongxuan Zhang, Pingli Wang, Wen Chen

Applied Technologies

A Method of Aggregate Query Matching in Semantic Cache for Massive Database Applications

Jianyu Cai, Yan Jia, Shuqiang Yang, Peng Zou

A Parallel Modular Exponentiation Scheme For Transformed Exponents

Chin-Chen Chang, Yeu-Pong Lai

Content Selection Model for Adaptive Content Delivery

Chen Ding, Shutao Zhang, Chi-Hung Chi

Dynamic Service Provisioning for Multiplayer Online Games

Jens Muller, Rafael Schwerdt, Sergei Gorlatch

Principal Component Analysis for Distributed Data Sets with Updating

Zhengjian Bai, Raymond H. Chan, Franklin T. Luk

Priority Conscious Transaction Routing in a Real-Time Shared Disks Cluster

Kyungoh Ohn, Sangho Lee, Haengrae Cho

Probabilistic Continuous Update Scheme in Location Dependent Continuous Queries

Song Han, Edward Chan

SIP-based Adaptive Multimedia Transmissions for Wired and Wireless Networks

Weijia Jia, Man-Ching Yuen

WM+ : An Optimal Multi-Pattern String Matching Algorithm Based On the WM Algorithm

Xunxun Chen, Binxing Fang, Lei Li, Yu Jiang