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Preface

The EURO-PAR'95 conference is organized in Stockholm by the Swedish Institute of Computer Science (SICS) and the Department of Teleinformatics at KTH. It is the first in a series of annual EURO-PAR conferences, formed by merging the PARLE and CONPAR-VAPP conference series on parallel processing, with the intent to create the main annual scientific event on parallel processing in Europe. The scope of the series covers the full spectrum of parallel processing, ranging from theory to design and applications. The objective is to provide a forum within which to promote the development of parallel computing, both as an industrial technique and as an academic discipline, extending the frontier of both the state of the art and the state of the practice.

The Call for Papers issued in August 1994 resulted in 180 submitted papers and 16 submitted posters by the February 1st deadline. All submissions were scanned by the Organizing Committee and dispatched to the most appropriate Programme Committee members. Most papers (152) were submitted in electronic form. Each paper was sent to at least four PC members and reviewed by at least three referees. All reviews (582) were submitted electronically by Programme Committee members. The Selection Meeting took place in Stockholm on March 30 and 31, 1995. Two days of intensive work resulted in 50 regular papers and 11 posters being accepted for presentation.

Another important but unpleasant result of the review process was the discovery of several cases of plagiarism. This led to an investigation of previous submissions of the authors involved, which revealed that some papers accepted at previous conferences were also cases of plagiarism. This matter is discussed further on page *vii*.

The rapidly improving information distribution mechanisms will undoubtedly affect the manner in which we assemble and publish research results, and we are excited to explore some of the possibilities. This proceedings is the first in the LNCS series to be published electronically. In cooperation with Springer-Verlag, EURO-PAR'95 will make the contents publicly available over the Internet, including a World Wide Web interface. Conference participants will have a chance to download papers of interest prior to travelling to the conference. The Programme Committee will have the ability to vote for best paper in good time before the conference.

In addition to the regular contributions, three invited talks will be given during the conference by Greg Papadopoulos (SUN Microsystems, USA), Björn Engquist (KTH, Sweden and UCLA, USA) and Gert Smolka (DFKI, Germany). The conference will end with a panel session on the topic Parallel Computing vs. Distributed Computing: Will They Merge in Future?

A specialized pre-conference workshop is organized by Anders Landin (SICS, Sweden) and Per Stenström (LTH, Sweden) on *Shared-Memory Multiprocessors*. Five basic and advanced pre-conference tutorials are organized by Chris Jesshope (Univ. of Surrey, UK) on *Scalable Parallel Computers*, Erland Fristedt and Per Öster (KTH, Sweden) on *Parallel Applications*, Per Stenström (Lund, Sweden) on *Multiprocessors and Multicomputers - Programming and Design*, Kam-Fai Wong (Chinese Univ., Hong

Kong) on *Parallel Database Systems Engineering*, and Richard Hofmann (Univ. Erlangen, Germany) on *ZM4/SIMPLE: a Universal Hardware Monitor and Trace Evaluation Package for Parallel and Distributed Systems*. EURO-PAR'95 also includes a vendor exhibition.

EURO-PAR'95 is endorsed by the European Commission, IEEE (TC on Computer Architecture and TC on Parallel Processing), Gesellschaft für Informatik/PARS, and European Research Consortium for Informatics and Mathematics (ERCIM). It is sponsored by the European Commission, the Swedish National Board for Technical and Industrial Development (NUTEK), TFR, Ericsson, Telia, and Wenner-Gren Scientific Foundation. This support is gratefully acknowledged.

We would also like to thank all members of the Organizing, Programme and Steering Committees, referees, invited speakers, panelists, tutorial presenters and workshop organizers for their efforts to make EURO-PAR'95 a successful event.

Finally, we would like to give our best wishes to the Organizing Committee of EURO-PAR'96, which will take place in France and be organized by ENS-Lyon (Ecole Normale Supérieure de Lyon).

Stockholm, June 1995

Seif Haridi Khayri Ali Peter Magnusson Lars-Erik Thorelli

Important Note

The Program Committee of EURO-PAR'95 detected during its work that some submitted papers were not original contributions from the alleged authors but were in fact copied without permission from earlier work by other persons. Further investigations uncovered several related cases of plagiarism affecting several conferences and journals. The affected conferences included PARLE'94, one of the forerunners of EURO-PAR'95, which included the following two papers:

(1) Papadopoulos, C.V.: "A dynamic algorithm for online scheduling of parallel processes", Proc. PARLE'94, Springer-Verlag LNCS 817, 601-610, 1994.

Copied from:

A. Feldmann, M.-Y. Kao, J. Sgall, S.-H. Teng: "Optimal Online Scheduling of Parallel Jobs with Dependencies", Report CMU-CS-92-189, Carnegie-Mellon University 1992. - Also in STOC'93 ("25th Annual ACM Symposium on Theory of Computing").

(2) Papadopoulos, C.V.: "On the parallelism of data", Proc. PARLE'94, Springer-Verlag LNCS 817, 414-424, 1994.

Copied from:

V. Austel, R. Bagrodia, M. Chandy, M. Dhagat: "Relations + Reductions = Data-Parallelism", Report CSD-930009, UCLA 1993. (Also to appear in J. of Parallel and Distributed Computing.)

We ask you, the reader, to take notice of these facts, and to recognize the danger of similar plagiarism in the future.

The Program Committee wants to thank the referees of EURO-PAR'95 and all other persons who have helped to detect and investigate the above and other cases of plagiarism.

On behalf of the Program Committee for EURO-PAR'95

Lars-Erik Thorelli

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Table of Contents

Keynotes

Mainstream Parallelism: Taking Sides on the SMP/MPP/Cluster Debate 3
Greg Papadopoulos, Sun Microsystems

The Oz Programming Model 5
Gert Smolka, DFKI

Parallelism in Computational Algorithms and the Physical World 9
Björn Engquist, KTH / UCLA

Language Implementation I

Execution of Distributed Reactive Systems 15
Paul Caspi and Alain Girault

Relating Data-Parallelism and (And-) Parallelism in Logic Programs 27
Manuel V. Hermenegildo and Manuel Carro

On the Duality Between Or-parallelism and And-parallelism in Logic Programming 43
Enrico Pontelli and Gopal Gupta

Functional Skeletons for Parallel Coordination 55
John Darlington, Yi-ke Guo, Hing Wing To and Jin Yang

Architecture Design

On the Scalability of Demand-Driven Parallel Systems 69
Ronald C. Unrau, Michael Stumm and Orran Krieger

Bounds on Memory Bandwidth in Streamed Computations 83
Sally A. McKee, Wm. A. Wulf and Trevor C. Landon

StarT-NG: Delivering Seamless Parallel Computing 101
Derek Chiou, Boon S. Ang, Robert Greiner, Arvind, James C. Hoe, Michael J. Beckerle, James E. Hicks and Andy Boughton

Costs and Benefits of Multithreading with Off-the-Shelf RISC Processors 117
Olivier C. Maquelin, Herbert H.J. Hum and Guang R. Gao

Semantics and Tools

Transformation Techniques in Pei 131
S. Genaud, E. Violard and G.-R. Perrin

On the Completeness of a Proof System for a Simple Data-parallel Programming Language 143
Luc Bougé and David Cachera

An Implementation of Race Detection and Deterministic Replay with MPI 155

C. Clémençon, J. Fritscher, M.J. Meehan and R. Rühl

Formal and Experimental Validation of a Low Overhead Execution Replay Mechanism 167

Alain Fagot and Jacques Chassin de Kergommeaux

Interconnection Networks I

On Efficient Embeddings of Grids into Grids in PARIX 181

Thomas Römke, Markus Röttger, Ulf-Peter Schroeder and Jens Simon

Optimal Emulation of Meshes on Meshes of Trees 193

Alf-Christian Achilles

Optimal Embeddings in the Hamming Cube Networks 205

Sajal K. Das and Aisheng Mao

Hierarchical Adaptive Routing Under Hybrid Traffic Load 217

Ziqiang Liu

Parallel Algorithms I

Tight Bounds on Parallel List Marking 231

Sandeep N. Bhatt, Gianfranco Bilardi, Kieran T. Herley, Geppino Pucci and Abhiram G. Ranade

Optimization of PRAM-Programs with Input-Dependent Memory Access 243

Welf Löwe

Optimal Circular Arc Representations 255

Lin Chen

Cache Systems

Exploiting Parallelism in Cache Coherency Protocol Engines 269

Andreas Nowatzyk, Gunes Aybay, Michael Browne, Edmund Kelly, Michael Parkin, Bill Radke and Sanjay Vishin

Verifying Distributed Directory-based Cache Coherence Protocols: S3.mp, a Case Study 287

Fong Pong, Andreas Nowatzyk, Gunes Aybay and Michel Dubois

Efficient Software Data Prefetching for a Loop with Large Arrays 301

Se-Jin Hwang and Myong-Soon Park

Loop Parallelization

Generation of Synchronous Code for Automatic Parallelization of `while` Loops 315
Martin Griebl and Jean-François Collard

Implementing Flexible Computation Rules with Subexpression-level Loop Transformations 327
Dattatraya Kulkarni, Michael Stumm and Ronald C. Unrau

Synchronization Migration for Performance Enhancement in a DOACROSS Loop 339
Rong-Yuh Hwang

An Array Partitioning Analysis for Parallel Loop Distribution 351
Marc Le Fur, Jean-Louis Pazat and Françoise André

Load Balancing and Parallel Algorithms II

A Model for Efficient Programming of Dynamic Applications on Distributed Memory Multiprocessors 367
A. Erzmann, M. Hadeler and C. Müller-Schloer

Efficient Solutions for Mapping Parallel Programs 379
P. Bouvry, J. Chassin de Kergommeaux and D. Trystram

Optimal Data Distributions for LU Decomposition 391
Thomas Rauber and Gudula Rünger

Detecting Quantified Global Predicates in Parallel Programs 403
Mark Minas

Compiling Techniques

Using Knowledge-Based Techniques for Parallelization on Parallelizing Compilers 417
Chao-Tung Yang, Shian-Shyong Tseng, Cheng-Der Chuang and Wen-Chung Shih

Automatic Vectorization of Communications for Data-Parallel Programs 429
Cécile Germain and Franck Delaplace

The Program Compaction Revisited: the Functional Framework 441
Marc Pouzet

Featherweight Threads and ANDF Compilation of Concurrency 457
Ben Sloman and Tom Lake

Applications

Parallel N-Body Simulation on a Large-Scale Homogeneous Distributed System 473
John W. Romein and Henri E. Bal

Analysis of Parallel Scan Processing in Shared Disk Database Systems 485
Erhard Rahm and Thomas Stöhr

Polynomial Time Scheduling of Low Level Computer Vision Algorithms on Networks of Heterogeneous Machines 501
Adam R. Nolan and Bryan Everding

Mapping Neural Network Back-Propagation onto Parallel Computers with Computation/Communication Overlapping 513
Bernard Girau

Language Implementation II

Super Monaco: Its Portable and Efficient Parallel Runtime System 527
J. S. Larson, B. C. Massey and E. Tick

Quiescence Detection in a Distributed KLIC Implementation 539
Kazuaki Rokusawa, Akihiko Nakase, Takashi Chikayama

Compiler Optimizations in Reform Prolog: Experiments on the KSR-1 multiprocessor 553
Thomas Lindgren, Johan Bevemyr and Håkan Millroth

Interconnection Networks II

Bidirectional Ring: An Alternative to the Hierarchy of Unidirectional Rings 567
Muhammad Jaseemuddin and Zvonko G. Vranesic

A Formal Study of the Mcube Interconnection Network 579
Nitin K. Singhvi and Kanad Ghose

Multiwave Interconnection Networks for MCM-Based Parallel Processing 593
Shinichi Shionoya, Takafumi Aoki and Tatsuo Higuchi

Scheduling

Scheduling Master-Slave Multiprocessor Systems 611
Sartaj Sahni

Time Space Sharing Scheduling: A Simulation Analysis 623
Atsushi Hori, Yutaka Ishikawa, Jörg Nolte, Hiroki Konaka, Munenori Maeda and Takashi Tomokiyo

"Agency Scheduling" - A Model for Dynamic Task Scheduling 635
Johann Rost, Franz-Josef Markus and Li Yan-Hua

Fault Tolerance and SIMD Arrays

FFTs on a Linear SIMD Array 649
Mattias Johannesson

Tolerating Faults in Faulty Hypercubes Using Maximal Fault-Free Subcube-Ring 661
Jang-Ping Sheu and Yuh-Shyan Chen

Communication in Multicomputers with Nonconvex Faults 673
Suresh Chalasani and Rajendra V. Boppana

Posters: Extended Abstracts

Parallelising Programs with Algebraic Programming Tools 687
Anatoly E. Doroshenko and Alexander B. Godlevsky

Parallel Prolog with Uncertainty Handling 691
Katalin Molnár

A Special-Purpose Coprocessor for Qualitative Simulation 695
Gerald Friedl, Marco Platzner and Bernhard Rinner

Portable Software Tools for Parallel Architectures 699
Catherine Barnes and Chris Wadsworth

Boosting the Performance of Workstations through WARPmemory 703
Christoph Siegelin, Ulrich Finger and Ciaran O'Donnell

A Monitoring System for Software-Heterogeneous Distributed Environments 707
Aleksander Laurentowski, Jakub Szymaszek, Andrzej Uszok and Krzysztof Zielinski

A Metacircular Data-Parallel Functional Language 711
Gaétan Hains and John Mullins

Efficient Run-Time Program Allocation on a Parallel Coprocessor 715
Jurij Silc and Borut Robic

A Program Manipulation System for Fine-Grained Architectures 719
Vladimir A. Evstigneev and Victor N. Kasyanov

Real-Time Image Compression Using Data-Parallelism 723
P. Moravie, H. Essafi, C. Lambert-Nebout and J.-L. Basille

Congestion Control in Wormhole Networks: First Results 727
Abdel-Halim Smai

Author Index 733