

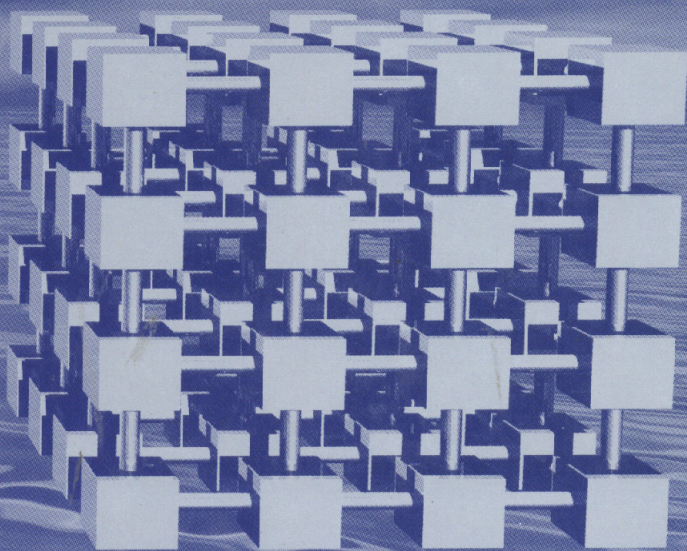
PROCEEDINGS OF THE 4TH WORKSHOP ON

PASA '96

PARALLEL SYSTEMS & ALGORITHMS

Editors

F Hoßfeld, E Maehle and EW Mayr



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185

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PREFACE

The Parallel Systems and Algorithms (PASA) workshop series is organized by the GI Special Interest Group 0.1.3 "Parallel and Distributed Algorithms" and the GI/ITG Special Interest Group 3.1.2 "Parallel Algorithms, Architectures and System Software." Because the first three workshops in this series, which had been held basically without foreign participation, had been so successful, a first attempt was made to extend the scope of the workshop, and thus this 4th PASA Workshop was the first international workshop in the series. It took place April 10–12, 1996 at the Research Center Jülich, near Aachen in Germany.

The PASA Workshops emphasize the goal to build a bridge between theory and practice in the area of parallel systems and algorithms. Practical problems which require theoretical investigations as well as the applicability of theoretical approaches and results to practice are discussed. A particularly important aspect is the communication and exchange of experiences between various groups working in various areas of parallel computing, e.g. in computer science, electrical engineering, physics, or mathematics.

The 20 contributions, including three invited lectures, that were presented at this workshop discussed many aspects of parallel computing from a theoretical as well as from a practice-oriented point of view. Although, as was to be expected, the majority of the participants were German, it is remarkable that the authors and the 41 participants at the workshop came from eight, respectively six, countries. The talks and the lively discussions clearly showed that there are a number of promising approaches for the application of formal methods to the solution of practical problems in the area of parallel systems and algorithms.

The Central Institute for Applied Mathematics of the Research Center Jülich (chaired by Prof. Hofffeld) hosted the workshop and provided the participants with great hospitality and surroundings conducive for a wonderful atmosphere and an excellent meeting. In particular, we would like to thank Dr. Burg of the Institute for setting up a smooth and flawless organization, at the conference center as well as when the participants were treated with a magnificent tour of the city of Aachen.

München, June 1996

Friedel Hofffeld
Erik Maehle
Ernst W. Mayr

CONTENTS

INVITED LECTURE

Run-Time Oriented Design Tools: A Contribution to the Standardization of Development Environments for Parallel and Distributed Programs

A. Bode 1

SESSION 1: SCHEDULING

Scheduling of Virtual Connections in Fast Networks

T. Erlebach, K. Jansen 13

Parallel and Distributed Algorithms of Dynamic Mapping and Scheduling

F. Seredynski 33

SESSION 2: ROUTING

Optimal Oblivious Permutation Routing in Small Hypercubes

Th. Seifert, E. Speckenmeyer 53

The Impact of Routing Decision Time on Network Latency

A. C. Döring, G. Lustig, W. Obelöer 67

A Static Wormhole Routing in Mesh-Connected Multicomputers, Exploiting Communication Characteristics of Applications

H. Song, H. Yoon, S. Eun 85

SESSION 3: DISTRIBUTED SYSTEMS

Quorum-Based Solutions to the h -out of- k Mutual Exclusion Problem in Distributed Systems

R. Baldoni, Y. Manabe, S. Aoyagi, M. Raynal 99

Duration of Asynchronous Operations in Distributed Systems

M. Makhaniok, R. Männer 109

INVITED LECTURE

Complexity and Correctness of Computer Architectures

S. M. Müller

125

SESSION 4: ARCHITECTURE

Evaluating a Multithreaded Superscalar Microprocessor Versus a Multiprocessor Chip

T. Ungerer, U. Sigmund

147

SESSION 5: SCHEDULING AND LOAD BALANCING

A Concept for a Multithreaded Scheduling Environment

M. Leberrecht

161

Precomputation Based Load Balancing

M. Böhm, E. Speckenmeyer

177

SESSION 6: INTERCONNECTION NETWORKS

Optimal Dynamic Edge-Disjoint Embeddings of Complete Binary Trees into Hypercubes

V. Heun, E. W. Mayr

195

Efficient Token Clustering on Hypercubes

V. Auletta, A. Negro, V. Scarano

211

Summation and Prefix Summation on LogP-Meshes

W. Zimmermann, W. Löwe

229

SESSION 7: DEPENDENCE GRAPHSA Branching Linear Programming Approach for the Mapping of Systems of n -dimensional Affine Recurrences onto k -dimensional Systolic Arrays*W. Achtziger, K.-H. Zimmermann*

247

A/D Graphs—A Data Structure for Data Dependence Analysis in Programs with Pointers

W. Amme, E. Zehendner

259

INVITED LECTURE

Are MPP Systems Mature for Production Environments ? <i>W. Oed</i>	279
---	-----

SESSION 8: TRAFFIC SYSTEMS

A Distributed Fault Tolerant Computer Architecture for the Traffic Control System IVMS <i>E. Duschnig, R. Weiß</i>	287
Real-Time Traffic Simulation of the German Autobahn Network <i>M. Rickert, P. Wagner, Ch. Gawron</i>	305

List of Participants	323
List of Authors	329

BIBLIOTHEQUE DU CERIST