
PARALLEL ALGORITHM DERIVATION AND PROGRAM TRANSFORMATION

edited by

Robert Paige
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Parallel Algorithm Derivation And Program Transformation

JG Myers



Parallel Algorithm Derivation And Program Transformation:

Parallel Algorithm Derivation and Program Transformation Robert Paige, J.H. Reif, Ralph Wachter, 2007-08-28 This book contains selected papers from the ONR Workshop on Parallel Algorithm Design and Program Transformation that took place at New York University Courant Institute from Aug 30 to Sept 1 1991 The aim of the workshop was to bring together computer scientists in transformational programming and parallel algorithm design in order to encourage a sharing of ideas that might benefit both communities It was hoped that exposure to algorithm design methods developed within the algorithm community would stimulate progress in software development for parallel architectures within the transformational community It was also hoped that exposure to syntax directed methods and pragmatic programming concerns developed within the transformational community would encourage more realistic theoretical models of parallel architectures and more systematic and algebraic approaches to parallel algorithm design within the algorithm community The workshop Organizers were Robert Paige John Reif and Ralph Wachter The workshop was sponsored by the Office of Naval Research under grant number N00014 90 J 1421 There were 44 attendees 28 presentations and 5 system demonstrations All attendees were invited to submit a paper for publication in the book Each submitted paper was refereed by participants from the Workshop The final decision on publication was made by the editors There were several motivations for holding the workshop and for publishing papers contributed by its participants Transformational programming and parallel computation are two emerging fields that may ultimately depend on each other for success

Research Directions in Parallel Functional Programming Kevin Hammond, Greg Michaelson, 2012-12-06 Programming is hard Building a large program is like constructing a steam locomotive through a hole the size of a postage stamp An artefact that is the fruit of hundreds of person years is only ever seen by anyone through a 100 line window In some ways it is astonishing that such large systems work at all But parallel programming is much much harder There are so many more things to go wrong Debugging is a nightmare A bug that shows up on one run may never happen when you are looking for it but unfailingly returns as soon as your attention moves elsewhere A large fraction of the program's code can be made up of marshalling and coordination algorithms The core application can easily be obscured by a maze of plumbing Functional programming is a radical elegant high level attack on the programming problem Radical because it dramatically eschews side effects elegant because of its close connection with mathematics high level because you can say a lot in one line But functional programming is definitely not yet mainstream That's the trouble with radical approaches it's hard for them to break through and become mainstream But that doesn't make functional programming any less fun and it has turned out to be a wonderful laboratory for rich type systems automatic garbage collection object models and other stuff that has made the jump into the mainstream

Workshop on the Derivation of Parallel Programs and Architectures - Closing Report, 1991 This workshop took place at New York University Courant Institute from Aug 30 to Sept 2 1992 The aim of the workshop was to bring together computer scientists in transformational

programming and parallel algorithm design in order to share ideas that might benefit both communities Papers coming out of the workshop will be published in a book entitled *Parallel Algorithm Derivation and Program Transformation* with Kluwer Academic Publishers

Mathematics of Program Construction Bernhard Möller,1995-07-10 This volume constitutes the proceedings of the Third International Conference on the Mathematics of Program Construction held at Kloster Irsee Germany in July 1995 Besides five invited lectures by distinguished researchers there are presented 19 full revised papers selected from a total of 58 submissions The general theme is the use of crisp clear mathematics in the discovery and design of algorithms and in the development of corresponding software and hardware among the topics addressed are program transformation program analysis program verification as well as convincing case studies

Euro-Par'96 - Parallel Processing Luc Bougé,1996 This two volume set presents the proceedings of the Second International European Conference on Parallel Processing EuroPar 96 held in Lyon France in August 1996 EuroPar 96 was organized in 14 workshops covering the whole spectrum of parallel processing The comprehensive proceedings constitute a unique record of the state of the art in parallel processing research and development the 224 papers included together with four invited papers were selected from a total of 383 submissions by authors from 40 countries 554 referees were involved in the selection process and the index lists 521 contributing authors PUBLISHER S WEBSITE

Parallel Processing Bruno Buchberger,Jens Volkert,1994-08-30 Proceedings Parallel Computing *Algorithms and Computation* Ding-Zhu Du,Xiang-Sun Zhang,1994-07-27 This volume is the proceedings of the fifth International Symposium on Algorithms and Computation ISAAC 94 held in Beijing China in August 1994 The 79 papers accepted for inclusion in the volume after a careful reviewing process were selected from a total of almost 200 submissions Besides many internationally renowned experts a number of excellent Chinese researchers present their results to the international scientific community for the first time here The volume covers all relevant theoretical and many applicational aspects of algorithms and computation

Algorithmic Languages and Calculi Richard Bird,Lambert Meerkens,2016-01-09 The general theme of this conference is notations methods and tool support for the calculation of programs from specifications The purpose of this working conference is to present the results of ongoing research descriptions of existing and proposed systems and applications to the production of practical software

Encyclopedia of Computer Science and Technology Allen Kent,James G. Williams,1999-05-14 An Approach to Complexity from a Human Centered Artificial Intelligence Perspective to The Virtual Workplace

Programming Language Implementation and Logic Programming Jaan Penjam,1994-08-24 This volume constitutes the proceedings of the 6th International Symposium on Programming Language Implementation and Logic Programming PLILP 94 held in Madrid Spain in September 1994 The volume contains 27 full research papers selected from 67 submissions as well as abstracts of full versions of 3 invited talks by renowned researchers and abstracts of 11 system demonstrations and poster presentations Among the topics covered are parallelism and concurrency implementation techniques partial

evaluation synthesis and language issues constraint programming meta programming and program transformation functional
logic programming and program analysis and abstract interpretation *Programming Concepts, Methods and Calculi* E.-R.
Olderog,1994 **Mathematics of Program Construction** ,1992 **Algorithms and Computation** ,1994 **The**
Second Aizu International Symposium on Parallel Algorithms/Architecture Synthesis N. N. Mirenkov,1997
Proceedings Parallel Computing ACM SIGPLAN Notices ,1997 EURO-PAR '... ,2003 **Algebraic Methodology and**
Software Technology ,1996 **Proceedings of the 1996 International Conference on Parallel Processing, August**
12-16, 1996 A. Reeves,Adam Bojanczyk,Keshav Pingali,1996 *Abstract Machine Models for Parallel and Distributed*
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