J. P. Banâtre   D. Le Métayer (Eds.)

Research Directions in High-Level Parallel Programming Languages

Mont Saint-Michel, France, June 1991
Proceedings

Research Directions In High Level Parallel Programming Languages

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Research Directions In High Level Parallel Programming Languages:

Research Directions in High-Level Parallel Programming Languages Jean Pierre Banatre,Daniel Le Metayer,2014-01-15 *Research Directions in High-Level Parallel Programming Languages* Jean Pierre Banatre,Daniel Le Metayer,1992-02-12 This volume contains most of the papers presented at the workshop on research directions in high level parallel programming languages held at Mont Saint Michel France in June 1991 The motivation for organizing this workshop came from the emergence of a new class of formalisms for describing parallel computations in the last few years Linda Unity Gamma and the Cham are the most significant representatives of this new class Formalisms of this family promote simple but powerful language features for describing data and programs These proposals appeared in different contexts and were applied in different domains and the goal of the workshop was to review the status of this new field and compare experiences The workshop was organized into four main sessions Unity Linda Gamma and Parallel Program Design The corresponding parts ofthe volume are introduced respectively by J Misra D Gelernter D Le M tayer and J P Ban tre   Research Directions in High-level Parallel Programming Languages Jean-Pierre Banâtre,Daniel Le Métayer,1992   **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 lOO 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 be cause 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 won derful laboratory for rich type systems automatic garbage collection object models and other stuff that has made the jump into the mainstream   ,   *Research Directions in Parallel Functional Programming* Kevin Hammond,1999-11 This volume provides a state of the art survey of research trends in parallel functional programming The text is divided into two sections the first section gives comprehensive introductions to key issues such as foundations programming constructs proof architectures and implementations the second comprises shorter summaries of research areas which are either of particular interest at the moment or which promise to provide key developments in the near future Topics covered here include coordination languages performance monitoring data flow programming explicit parallelism BSP and cost modelling Contributions have

been commissioned by key researchers and practitioners in the area including several from the US and Canada where this is an area of increasing interest Research Directions in Parallel Functional Programming will be of interest to researchers post graduate students and practitioners in all relevant areas **Communicating Process Architectures 2000** World Occam and Transputer User Group. Technical Meeting,2000 Modern computing systems are built in terms of components and those components communicating Communication systems imply concurrency which is a theme of the WoTUG series Traditionally concurrency has been taught considered and experienced as an advanced and difficult topic The thesis underlying this conference is that that idea is wrong The natural world operates through continuous interaction of massive numbers of autonomous agents at all levels sub atomic human astronomic It seems it is time to mature concurrency into a core engineering discipline that can be used on an everyday basis to simplify problem solutions as well as to enable them The goal of Communicating Process Architectures 2000 was to stimulate discussion and ideas as to the role concurrency should play in future generations of scalable computer infrastructure and applications where scaling means the ability to ramp up functionality stay in control as complexitiy increases as well as physical metrics such as performance *Attributed Algebraic Specifications* Bernhard Bauer,1996 *Multiset Processing* Cristian Calude,2001-12-14 The multiset as a set with multiplicities associated with its elements in the form of natural numbers is a notation which has appeared again and again in various areas of mathematics and computer science As a data structure multisets stand in between strings lists where a linear ordering of symbols items is present and sets where no ordering and no multiplicity is considered This book presents a selection of thoroughly reviewed revised full papers contributed to a workshop on multisets held in Curtea de Arges Romania in August 2000 together with especially commissioned papers All in all the book assesses the state of the art of the notion of multisets the mathematical background and the computer science and molecular computing relevance Parallel Computing Technologies Viktor Ėmmanuilovich Malyshkin,2003-08-21 This book constitutes the refereed proceedings of the 7th International Conference on Parallel Computing Technologies PaCT 2003 held in Novosibirsk Russia in September 2003 The 38 revised full papers presented together with 4 invited papers and 10 poster papers were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on theory software applications and tools A broad variety of parallel processing issues and distributed computing in general are addressed *Programming Languages for Parallel Processing* David B. Skillicorn,Domenico Talia,1995 Mathematics of Computing Parallelism **FPCA '93, Conference on Functional Programming Languages and Computer Architecture** ,1993 **Encyclopedia of Parallel Computing** David Padua,2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization

programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing *Implementation of Functional Languages* Markus Mohnen,Pieter Koopman,2003-06-29 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Implementing Functional Languages IFL 2000 held in Aachen Germany in September 2000 The 15 revised full papers presented have gone through a thorough round of post workshop reviewing and were selected from 33 workshop presentations Among the topics covered are language concepts type checking compilation techniques abstract interpretation automatic program generation abstract machine architectures array processing concurrent and parallel processing heap management runtime profiling performance measurement debugging and tracing and tools and programming techniques Languages and Compilers for Parallel Computing ,1992 Abstract Machine Models for Highly Parallel Computers John R. Davy,P. M. Dew,1995 The papers collected in this volume cover a wide range of issues relevant to abstract models including terminology and concepts for abstract models of computation models for general purpose parallel computing declarative models performance modelling and special purpose parallel models The papers originated from the Second Workshop on Abstract Machine Models for Highly Parallel Computers sponsored by the BCS Parallel Processing Specialist Group Overall themes of the workshop were the specification implementation and application of such models and the identification of keyissues for future research **Object Orientation with Parallelism and Persistence** Burkhard Freitag,1996-09-30 Papers from an April 1995 seminar integrate research in programming languages and databases focusing on object orientation with parallelism Subjects include an object based language correct transformational design of concurrent search structures specification and properties of concurrent objects co algebraic specification a unified theory for classical and advanced transaction models and

design and implementation of process oriented environments with brokers and services Of interest to researchers and professionals working in software engineering programming and database systems Annotation copyrighted by Book News Inc Portland OR   **High Performance Computing** ,2000   Proceedings of 1994 IEEE Region 10's Ninth Annual International Conference Tony K. Y. Chan,1994   **Hybrid Systems** ,1996 Vols for 1996 consist of papers presented at the 4th International Conference on Hybrid Systems

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