Foundations of Parallel Programming: A Machine-Independent Approach

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Foundations Of Parallel Programming A Machine Indepedent Approach

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Foundations Of Parallel Programming A Machine Indepedent Approach:

Foundations of Parallel Programming D. B. Skillicorn,1994-12 The major reason for the lack of use of parallel computing is the mismatch between the complexity and variety of parallel hardware and the software development tools to program it The cost of the developing software needs to be amortised over decades but the platforms on which it executes change every few years requiring complete rewrites The evident cost effectiveness of parallel computation has not been realized because of this mismatch This book presents an integrated approach to parallel software development that addresses software issues and performance issues together It presents a methodology for software construction that produces software that is architecture independent and intellectually abstract The software can execute efficiently on a range of existing and potential hardware configurations The approach is based on the construction of categorical data types a generalisation of abstract data types and of objects Categorical data types abstract both from the representation of a data type and also from the detailed control flow necessary to perform operations on it They thus impose a strong separation between the semantics on which programs can depend and the implementation which is therefore free to hide the parallel machine properties that are used   Foundations of Parallel Programming Theodore Gyle Lewis,1993 Mathematics of Computing Parallelism   *New at the Energy Library* Energy Library,1991   **Euro-Par'97 Parallel Processing** Christian Lengauer,Martin Griebl,Sergei Gorlatch,2005-11-23 This book constitutes the refereed proceedings of the Third International Euro Par Conference held in Passau Germany in August 1997 The 178 revised papers presented were selected from more than 300 submissions on the basis of 1101 reviews The papers are organized in accordance with the conference workshop structure in tracks on support tools and environments routing and communication automatic parallelization parallel and distributed algorithms programming languages programming models and methods numerical algorithms parallel architectures HPC applications scheduling and load balancing performance evaluation instruction level parallelism database systems symbolic computation real time systems and an ESPRIT workshop   **Gamoqenebit'i Mat'ematika Da Inp'ormatika** ,1997   Foundations of Parallel Programming Theodore Gyle Lewis,1993 Mathematics of Computing Parallelism   **7th International Symposium on Software Reliability Engineering** IEEE Computer Society,1996 The proceedings of the Seventh International Symposium on Software Reliability Engineering held in White Plains New York in October November 1996 include a number of invited papers as well as panels and sessions treating the following topics promising software reliability engineering SRE technologies fault failure detection and tolerance business priorities distributed computing Java Web reliability and security issues and deploying SRE in an organization or company No subject index Annotation copyrighted by Book News Inc Portland OR   *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   Annual Review of Communications ,1992   *Proceedings of the Sixteenth ACM Symposium on Operating Systems Principles* ,1997   ACM SIGPLAN Notices ,1996   **High-Performance Computing** Laurence T. Yang,Minyi Guo,2006-01-24 The state of the art of high performance computing Prominent researchers from around the world have gathered to present the state of the art techniques and innovations in high performance computing HPC including Programming models for parallel computing graph oriented programming GOP OpenMP the stages and transformation SAT approach the bulk synchronous parallel BSP model Message Passing Interface MPI and Cilk Architectural and system support featuring the code tiling compiler technique the MigThread application level migration and checkpointing package the new prefetching scheme of atomicity a new receiver makes right data conversion method and lessons learned from applying reconfigurable computing to HPC Scheduling and resource management issues with heterogeneous systems bus saturation effects on SMPs genetic algorithms for distributed computing and novel task scheduling algorithms Clusters and grid computing design requirements grid middleware distributed virtual machines data grid services and performance boosting techniques security issues and open issues Peer to peer computing P2P including the proposed search mechanism of hybrid periodical flooding HPF and routing protocols for improved routing performance Wireless and mobile computing featuring discussions of implementing the Gateway Location Register GLR concept in 3G cellular networks maximizing network longevity and comparisons of QoS aware scatternet scheduling algorithms High performance applications including

partitioners running Bag of Tasks applications on grids using low cost clusters to meet high demand applications and advanced convergent architectures and protocols High Performance Computing Paradigm and Infrastructure is an invaluable compendium for engineers IT professionals and researchers and students of computer science and applied mathematics

   Foundations of Programming Languages Seyed H. Roosta,2002 This text presents topics relating to the design and implementation of programming languages as fundamental skills that all computer scientists should possess Rather than provide a feature by feature examination of programming languages the author discusses programming languages organized by concepts   *Books in Print Supplement* ,1994   **Subject Guide to Books in Print** ,1991   Proceedings V. K. Prasanna Kumar,Viktor K. Prasanna,Larry H. Canter,1992 Papers presented at the Beverly Hills Calif meeting of March 1992 on algorithms architectures mapping scheduling applications software systems and distributed systems No index Annotation copyrighted by Book News Inc Portland OR   Choice ,1995   **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1992   **Foundations of Molecular Modeling and Simulation** Peter T. Cummings,Phillip Ray Westmoreland,Brice Carnahan,2001   **EURO-PAR '...** ,2002

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