PERSPECTIVES IN COMPUTING

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Y.C. Tay

Locking Performance in Centralized Databases

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Locking Performance in Centralized Databases Y.C. Tay,2014-05-10 Perspectives in Computing Locking Performance in Centralized Databases reports some results from a project whose aim was the development of a performance model for concurrency control algorithms This book proposes a model that is powerful enough to help users understand compare and control the performance of the algorithms Organized into four chapters this book begins with an overview of the model in its simplest form This text then explains locking which uses a combination of blocking and restarts to achieve correctness Other chapters test the model and the method of analysis by comparing the model s predictions to simulation results wherein the prediction and simulations indicate that restarts can cause thrashing This book discusses as well the formula for throughput and for the restart rate The final chapter deals with the adaptation of the model to timestamping and distributed algorithms This book is a valuable resource for mathematicians and research workers **Performance Evaluation: Origins and Directions** Günter Haring,Christoph Lindemann,Martin Reiser,2003-06-29 This monograph like state of the art survey presents the history the key ideas the success stories and future challenges of performance evaluation and demonstrates the impact of performance evaluation on a variety of different areas through case studies in a coherent and comprehensive way Leading researchers in the field have contributed 19 cross reviewed topical chapters competently covering the whole range of performance evaluation from theoretical and methodological issues to applications in numerous other fields Additionally the book contains one contribution on the role of performance evaluation in industry and personal accounts of four pioneering researchers describing the genesis of breakthrough results The book will become a valuable source of reference and indispensable reading for anybody active or interested in performance evaluation **Database Concurrency Control** Alexander Thomasian,2013-03-09 Database Concurrency Control Methods Performance and Analysis is a review of developments in concurrency control methods for centralized database systems with a quick digression into distributed databases and multicomputers the emphasis being on performance The main goals of Database Concurrency Control Methods Performance and Analysis are to succinctly specify various concurrency control methods to describe models for evaluating the relative performance of concurrency control methods to point out problem areas in earlier performance analyses to introduce queuing network models to evaluate the baseline performance of transaction processing systems to provide insights into the relative performance of transaction processing systems to illustrate the application of basic analytic methods to the performance analysis of various concurrency control methods to review transaction models which are intended to relieve the effect of lock contention to provide guidelines for improving the performance of transaction processing systems due to concurrency control and to point out areas for further investigation This monograph should be of direct interest to computer scientists doing research on concurrency control methods for high performance transaction processing systems designers of such systems and professionals concerned with improving tuning the performance of

transaction processing systems   **Performance Evaluation of Computer and Communication Systems** Lorenzo Donatiello,Randolph Nelson,1993-09-15 This volume contains the complete set of tutorial papers presented at the 16th IFIP International Federation for Information Processing Working Group 7 3 International Symposium on Computer Performance Modelling Measurement and Evaluation and a number of tutorial papers presented at the 1993 ACM Association for Computing Machinery Special Interest Group METRICS Conference on Measurement and Modeling of Computer Systems The principal goal of the volume is to present an overview of recent results in the field of modeling and performance evaluation of computer and communication systems The wide diversity of applications and methodologies included in the tutorials attests to the breadth and richness of current research in the area of performance modeling The tutorials may serve to introduce a reader to an unfamiliar research area to unify material already known or simply to illustrate the diversity of research in the field The extensive bibliographies guide readers to additional sources for further reading   **Analytical Performance Modeling for Computer Systems, Second Edition** Y.C. Tay,2022-11-10 This book is an introduction to analytical performance modeling for computer systems i e writing equations to describe their performance behavior It is accessible to readers who have taken college level courses in calculus and probability networking and operating systems This is not a training manual for becoming an expert performance analyst Rather the objective is to help the reader construct simple models for analyzing and understanding the systems that they are interested in   *Analytical Performance Modeling for Computer Systems, Third Edition* Y.C. Tay,2022-06-01 This book is an introduction to analytical performance modeling for computer systems i e writing equations to describe their performance behavior It is accessible to readers who have taken college level courses in calculus and probability networking and operating systems This is not a training manual for becoming an expert performance analyst Rather the objective is to help the reader construct simple models for analyzing and understanding the systems that they are interested in Describing a complicated system abstractly with mathematical equations requires a careful choice of assumptions and approximations They make the model tractable but they must not remove essential characteristics of the system nor introduce spurious properties To help the reader understand the choices and their implications this book discusses the analytical models for 40 research papers These papers cover a broad range of topics GPUs and disks routers and crawling databases and multimedia worms and wireless multicore and cloud security and energy etc An appendix provides many questions for readers to exercise their understanding of the models in these papers

   Database and Expert Systems Applications Vladimir Marik,Werner Retschitzegger,2003-08-21 This book constitutes the refereed proceedings of the 14th International Conference on Database and Expert Systems Applcations DEXA 2003 held in Prague Czech Republic in September 2003 The 91 revised full papers presented together with an invited paper and a position paper were carefully reviewed and selected from 236 submissions The papers are organized in topical sections on XML data modeling spatial database systems mobile computing transactions bioinformatics information retrieval multimedia

databases Web applications ontologies object oriented databases query optimization workflow systems knowledge engineering and security **Analytical Performance Modeling for Computer Systems** Y.C. Tay,2022-11-10 This book is an introduction to analytical performance modeling for computer systems i e writing equations to describe their performance behavior It is accessible to readers who have taken college level courses in calculus and probability networking and operating systems This is not a training manual for becoming an expert performance analyst Rather the objective is to help the reader construct simple models for analyzing and understanding the systems in which they are interested Describing a complicated system abstractly with mathematical equations requires a careful choice of assumptions and approximations These assumptions and approximations make the model tractable but they must not remove essential characteristics of the system nor introduce spurious properties To help the reader understand the choices and their implications this book discusses the analytical models in 20 research papers These papers cover a broad range of topics processors and disks databasesand multimedia worms and wireless etc An Appendix provides some questions for readers to exercise their understanding of the models in these papers Table of Contents Preliminaries Concepts and Little s Law Single Queues Open Systems Markov Chains Closed Systems Bottlenecks and Flow Equivalence Deterministic Approximations Transient Analysis Experimental Validation and Analysis Analysis with an Analytical Model *Performance and Management of Complex Communication Networks* Toshiharu Hasegawa,Hideaki Takagi,Yukata Takahashi,2013-03-20 With the proliferation of ISDN and mobile communication systems modern commu nication networks are becoming larger scale higher speed and more complex than ever before Therefore besides hardware development extensive research on system technolo gies with respect to the performance evaluation and management is indispensable for the proper design development and operation of future complex communication networks The International Conference on the Performance and Management of Complex Com munication Systems PMCCN 97 was held from November 17 to 21 1997 at Tsukuba Science City Japan This was the fifth international conference on the performance as pects of communication networks held every three years in Japan 1985 in Tokyo 1988 1991 and 1994 in Kyoto The conference was sponsored by the International Federa tion of Information Processing IFIP Working Group WG 6 3 Performance of Com munication Systems and 7 3 Computer System Modelling University of Tsukuba Kyoto University and The Telecommunication Advancement Foundation TAF **Computer Science Handbook** Allen B. Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap **Parallel Computing Technologies** Victor Malyshkin,2003-07-31 This book constitutes the refereed proceedings of the 5th International Congress on Parallel Computing Technologies PaCT 99 held in St Petersburg Russia in September 1999 The 47 revised papers presented were carefully reviewed and selected from more than 100 submissions The

papers address all current issues in parallel processing ranging from theory algorithms programming and software to implementation architectures hardware and applications   Database and Expert Systems Applications Dimitris Karagiannis,2013-11-11 The Database and Expert Systems Applications DEXA conferences are dedi cated to providing an international forum for the presentation of applications in the database and expert systems field for the exchange of ideas and experiences and for defining requirements for the future systems in these fields After the very promising DEXA 90 in Vienna Austria we hope to have successfully established wjth this year s DEXA 91 a stage where scientists from diverse fields interested in application oriented research can present and discuss their work This year there was a total of more than 250 submitted papers from 28 different countries in all continents Only 98 of the papers could be accepted The collection of papers in these proceedings offers a cross section of the issues facing the area of databases and expert systems i e topics of basic research interest on one hand and questions occurring when developing applications on the other Major credit for the success of the conference goes to all of our colleagues who submitted papers for consideration and to those who have organized and chaired the panel sessions Many persons contributed numerous hours to organize this conference The names of most of them will appear on the following pages In particular we wish to thank the Organization Committee Chairmen Johann Gordesch A Min Tjoa and Roland Wag ner who also helped establishing the program Special thanks also go to Gabriella Wagner and Anke Ruckert Dimitris Karagiannis General Conference Chairman Contents Conference Committee

Advances in Computing and Information - ICCI '91 Frank Dehne,F. Fiala,1991-05-07 This volume contains papers presented at the Third International Conference on Computing and Information ICCI 91 held at Carleton University in Ottawa Canada May 27 29 1991 The conference was organized by the School of Computer Science at Carleton University and was sponsored by the Natural Sciences and Engineering Research Council of Canada NSERC and Carleton University ICCI 91 was an international forum for the presentation of original results in research development and applications in computing and information processing The conference was aimed at both practitioners and theoreticians and was organized into five streams Algorithms and complexity Databases and information systems Parallel processing and systems Distributed computing and systems Expert systems artificial intelligence This volume contains three invited papers by E C R Hehner R L Probert and S J Smith and 71 selected papers   Distributed and Parallel Database Object Management Elisa Bertino,Tamer Özsu,2012-12-06 Distributed and Parallel Database Object Management brings together in one place important contributions and state of the art research results in this rapidly advancing area of computer science Distributed and Parallel Database Object Management serves as an excellent reference providing insights into some of the most important issues in the field

Performance of Concurrency Control Mechanisms in Centralized Database Systems Vijay Kumar,1996 For graduate level courses This text gathers into one volume the important and significant research works past and present on the performance and development aspects of database concurrency control mechanisms   **Advances in Computing and Information -**

ICCI '90 Selim G. Akl,F. Fiala,1990 This volume contains selected and invited papers presented at the International Conference on Computing and Information ICCI 90 Niagara Falls Ontario Canada May 23 26 1990 ICCI conferences provide an international forum for presenting new results in research development and applications in computing and information Their primary goal is to promote an interchange of ideas and cooperation between practitioners and theorists in the interdisciplinary fields of computing communication and information theory The four main topic areas of ICCI 90 are Information and coding theory statistics and probability Foundations of computer science theory of algorithms and programming Concurrency parallelism communications networking computer architecture and VLSI Data and software engineering databases expert systems information systems decision making and AI methodologies   Discrete Algorithms and Complexity David S. Johnson,Takao Nishizeki,Akihiro Nozaki,2014-05-10 Perspectives in Computing Volume 15 Discrete Algorithms and Complexity provides an understanding of discrete algorithms and complexity This book covers a variety of topics including discrete logarithm algorithms parallel bubbling electronic prototyping number theoretic complexity and linear programming Organized into 27 chapters this volume begins with an overview of the basic solutions of the primal and dual that can be characterized in graph theoretic terms This text then explores the principal partition of vertex weighted graphs which is utilized to solve certain assignment problems or flow problems that are formulated using such graphs Other chapters consider a polynomial time algorithm for finding the geodesic center of a simple polygon This book discusses as well the three efficient algorithms for the routing problems around a rectangle The final chapter deals with a snoopy cache multiprocessor system wherein each processor has a cache in which it stores blocks of data This book is a valuable resource for mathematicians and researchers   **Machine Vision for Inspection and Measurement** Herbert Freeman,2012-12-02 Machine Vision for Inspection and Measurement contains the proceedings of the Second Annual Workshop on Machine Vision sponsored by the Center for Computer Aids for Industrial Productivity CAIP at Rutgers University and held on April 25 26 1988 in New Brunswick New Jersey The papers explore the application of machine vision to inspection and measurement and cover topics such as the problem of object pose estimation and depth recovery through inverse optics The use of machine vision techniques in inspection of integrated circuits and semiconductor wafers is also discussed Comprised of 11 chapters this book opens with the problem of using fine grained parallel machines for VLSI inspection The discussion then turns to a variety of real life applications of machine vision including inspection of integrated circuits semiconductor wafers TV tube glass and mechanical parts The use of machine vision to measure the curvature of the human cornea for vision correction and contact lens fitting purposes is also considered The remaining chapters focus on motion estimation from stereo sequences using orthographic view algorithms photometric sampling for determining surface shape and reflectance and efficient depth recovery by means of inverse optics A chapter addresses the question of whether the industry is ready for machine vision and comes up with some optimistic predictions This monograph will be of interest to practitioners in the fields

of computer science and applied mathematics **Transaction Processing** Jim Gray,Andreas Reuter,1992-09-30 The key to client server computing Transaction processing techniques are deeply ingrained in the fields ofdatabases and operating systems and are used to monitor control and updateinformation in modern computer systems This book will show you how large distributed heterogeneous computer systems can be made to work reliably Using transactions as a unifying conceptual framework the authors show howto build high performance distributed systems and high availabilityapplications with finite budgets and risk The authors provide detailed explanations of why various problems occur aswell as practical usable techniques for their solution Throughout the book examples and techniques are drawn from the most successful commercial andresearch systems Extensive use of compilable C code fragments demonstratesthe many transaction processing algorithms presented in the book The bookwill be valuable to anyone interested in implementing distributed systemsor client server architectures *Machine Vision* Herbert Freeman,2012-12-02 Machine Vision Algorithms Architectures and Systems contains the proceedings of the workshop Machine Vision Where Are We and Where Are We Going sponsored by the Center for Computer Aids for Industrial Productivity CAIP at Rutgers University and held in April 1987 in New Brunswick New Jersey The papers review the state of the art of machine vision and sets directions for future research Topics covered include smart sensing in machine vision computer architectures for machine vision and range image segmentation Comprised of 14 chapters this book opens with an overview of smart sensing strategies in machine vision and illustrates how smart sensing may fit into a general purpose vision system by implementing a flexible modular system called Pipeline Pyramid Machine The discussion then turns to a hierarchy of local autonomy for processor arrays focusing on the progression from pure SIMD to complete MIMD as well as the hardware penalties that arise when autonomy is increased The following chapters explore schemes for integrating vision modules on fine grained machines computer architectures for real time machine vision systems the application of machine vision to industrial inspection and characteristics of technologies and social processes that are inhibiting the development and or evolution of machine vision Machine vision research at General Motors is also considered The final chapter assesses future prospects for machine vision and highlights directions for research This monograph will be a useful resource for practitioners in the fields of computer science and applied mathematics

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