PERFORMANCE MODELING FOR COMPUTER ARCHITECTS
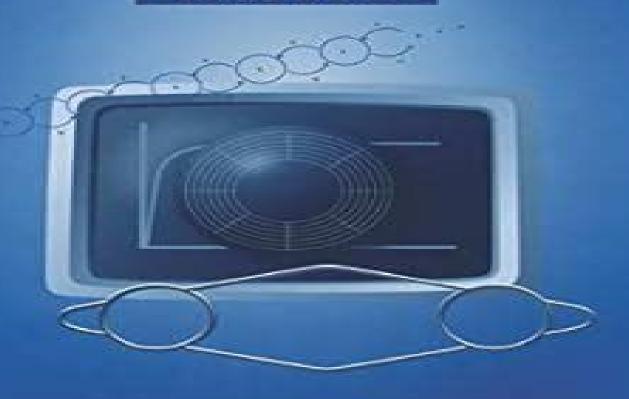
C. M. Krishna

Performance Modeling For Computer Architects

Harvey G. Cragon

Performance Modeling For Computer Architects:

Performance Modeling for Computer Architects C. M. Krishna,1995-10-14 As computers become more complex the number and complexity of the tasks facing the computer architect have increased Computer performance often depends in complex way on the design parameters and intuition that must be supplemented by performance studies to enhance design productivity This book introduces computer architects to computer system performance models and shows how they are relatively simple inexpensive to implement and sufficiently accurate for most purposes It discusses the development of performance models based on queuing theory and probability The text also shows how they are used to provide quick approximate calculations to indicate basic performance tradeoffs and narrow the range of parameters to consider when determining system configurations It illustrates how performance models can demonstrate how a memory system is to be configured what the cache structure should be and what incremental changes in cache size can have on the miss rate A particularly deep knowledge of probability theory or any other mathematical field to understand the papers in this volume is not required **Performance modeling for computer architects** C. M. Krishna,1995 **Computer Architecture Performance Evaluation Methods** Lieven Eeckhout,2022-05-31 Performance evaluation is at the foundation of computer architecture research and development Contemporary microprocessors are so complex that architects cannot design systems based on intuition and simple models only Adequate performance evaluation methods are absolutely crucial to steer the research and development process in the right direction However rigorous performance evaluation is non trivial as there are multiple aspects to performance evaluation such as picking workloads selecting an appropriate modeling or simulation approach running the model and interpreting the results using meaningful metrics Each of these aspects is equally important and a performance evaluation method that lacks rigor in any of these crucial aspects may lead to inaccurate performance data and may drive research and development in a wrong direction The goal of this book is to present an overview of the current state of the art in computer architecture performance evaluation with a special emphasis on methods for exploring processor architectures The book focuses on fundamental concepts and ideas for obtaining accurate performance data The book covers various topics in performance evaluation ranging from performance metrics to workload selection to various modeling approaches including mechanistic and empirical modeling And because simulation is by far the most prevalent modeling technique more than half the book s content is devoted to simulation The book provides an overview of the simulation techniques in the computer designer s toolbox followed by various simulation acceleration techniques including sampled simulation statistical simulation parallel simulation and hardware accelerated simulation Table of Contents Introduction Performance Metrics Workload Design Analytical Performance Modeling Simulation Sampled Simulation Statistical Simulation Parallel Simulation and Hardware Acceleration Concluding Remarks **Performance modeling in parallel computer architecture design** ,1997 **Computer Architecture for Scientists** Andrew A. Chien,2022-03-10 A

principled high level view of computer performance and how to exploit it Ideal for software architects and data scientists

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1983   **Computer Architecture and Implementation** Harvey G. Cragon,2000-02-13 This textbook provides a clear and concise introduction to computer architecture and implementation Two important themes are interwoven throughout the book The first is an overview of the major concepts and design philosophies of computer architecture and organization The second is the early introduction and use of analytic modeling of computer performance A unique feature of the book is that memory systems are discussed before processor implementations The book contains many worked examples and over 130 homework exercises It is an ideal textbook for a one semester undergraduate course in computer architecture and implementation   **Publications of the National Bureau of Standards** United States. National Bureau of Standards,1982   **NBS Special Publication** ,1968   **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1980   **Publications** United States. National Bureau of Standards,1981   Computer Architecture Robert J. Baron,Lee Higbie,1992   *Instrumentation System Design, Modeling, and Evaluation* Abdul Waheed,1997   VLSI and Computer Architecture Ravi Shankar,Eduardo B. Fernandez,1989   *ISPASS* ,2003   CODES 2002 ,2002   **Transactions of the Society for Computer Simulation** ,2001   ACM Transactions on Modeling and Computer Simulation ,1991   Computer Architecture '98 John Morris,1998-06-01 The third in the series of the Australasian Computer Architecture Conferences ACAC98 was held in Perth Australia on the 2nd 3rd of February 1998 This years submissions saw papers coming from Australia Austria China Germany Japan New Zealand Portugal Singapore Taiwan and the United States all presenting both novel as well as conventional architectural ideas The 20 papers presented in this volume also cover the vital area of connection between processors from geographically separated to closely coupled systems   *Proceedings of the 1996 Engineering Systems Design and Analysis Conference* ESDA (3, 1996, Montpellier),1996

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