



Statistical Computer Performance Evaluation

edited by **Walter Freiberger**

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Statistical Computer Performance Evaluation

**National Institute of Standards and
Technology (U.S.)**



Statistical Computer Performance Evaluation:

Statistical Computer Performance Evaluation Walter Freiberger, 2014-05-10 Statistical Computer Performance Evaluation contains the proceedings of a Conference on Statistical Computer Performance Evaluation held at Brown University in Providence Rhode Island on November 22 23 1971 under the auspices of the Division of Applied Mathematics and the Center for Computer and Information Sciences The papers review the application of quantitative and particularly statistical methods to the study of computer performance Comprised of 19 chapters this book begins with an overview of the state of the art of computer system evaluation and some quantitative methods analytical simulation and empirical methods that are applicable to the problem A utility theoretic approach to evaluation of a time sharing system is then described followed by a discussion on the results of a multi factor paging experiment Subsequent chapters focus on statistical quantification of instruction and operand traces measurement and improvement of program behavior under paging systems free storage algorithms and probabilistic models for predicting software reliability This monograph will be of interest to practitioners in the fields of computer science and applied mathematics

Statistical Computer Performance Evaluation Walter Freiberger, BROWN UNIV PROVIDENCE R I DIV OF APPLIED MATHEMATICS., 1977 An annotated bibliography of all reports published under these contracts with supplementary remarks Author

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Application of Statistical Analysis Techniques to Computer Performance Evaluation Margaret A. Stover, AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING., 1982 Multivariate statistical analysis techniques were examined to determine their applicability to computer performance evaluation Specific techniques were multilinear regression automatic interaction detection AID and ridge regression A simulated data base created through a computer performance evaluation simulation developed at the Air force Institute of Technology was modeled using each technique Multilinear regression derived the most accurate modeling equations though no method adequately explained the variation in turnaround time Ridge regression designed to circumvent multicollinearity also created modeling equations but was less accurate because no multicollinearity was present in the system AID however clustered the data into groups which explained high levels of the variability of the criterion variable within each group and little between the groups Data records which met the selection criteria for each group should also have values of the criterion variable within the range specified by that group Although difficult to use AID provided initial information about systems which could

not be modeled through regression or other techniques The applicability of each technique to selected types of computer systems was also documented Author **Computer Performance Evaluation and Capacity Management** David J. Schumacher, 1981 A Study of Multivariate Statistical Analysis Techniques for Computer Performance Evaluation Gregory Magavero (CIVILIAN.), 1982 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 **Computer Performance Evaluation** Computer Performance Evaluation Users Group, 1975

Introductory Readings In Geographic Information Systems D J Peuquet, D F Marble, 1990-09-19 Even though Geographic Information Systems GIS have been available for over 20 years they have only recently become accessible to geographers and others as a useful tool in spacial analysis This book assembles a balanced sample of written works covering important aspects of the basic principles of GIS and selected examples of applications **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1979 Journal of Research of the National Bureau of Standards , 1979 Computer Performance Evaluation Modelling Techniques and Tools Raymond Marie, Brigitte Plateau, Maria Calzarossa, Gerardo Rubino, 1997-05-21 This book constitutes the refereed proceedings of the 9th International Conference on Modeling Techniques and Tools for Computer Performance Evaluation held in St Malo France in June 1997 The volume presents 17 revised full papers carefully selected by the program committee for the proceedings also included is

an extended abstract of an invited talk The collection of papers presented represents state of the art work in computer performance evaluation Among the issues addressed are fully distributed systems statistical multiplexing for high speed networks and implications of the concept of dependability Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1979 **Applications of Multivariate Statistical Techniques for Computer Performance Evaluation** Gregory L. Brundidge (CAPT, USAF.),1983 **A Statistical Methodology as an Aid in Computer Performance Evaluation and Management** G. C. Pentzaropoulos,Control Systems Centre,1982 Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1978

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