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Computer

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Computer Systems Performance Evaluation And Prediction

United States. National Bureau of Standards

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Computer Systems Performance, Evaluation And Prediction Fortier,2009-01-01 *Performance Evaluation and Prediction of Computer Systems Using Computer Simulation*

Saied Bozorgui-Nesbat,1978 **Computer Systems: Overview, Performance Evaluation and Performance Prediction**

Purdue University. Department of Computer Sciences,H. D. Schwetman,1977 *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards,1978 *Computer Systems Performance Evaluation*

Israel Borovits,Seev Neumann,1979 **Publications of the National Bureau of Standards 1978 Catalog** United States.

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National Bureau of Standards,1979 **Performance Evaluation, Prediction and Visualization of Parallel Systems**

Xingfu Wu,2012-12-06 Performance Evaluation Prediction and Visualization in Parallel Systems presents a comprehensive and systematic discussion of theoretics methods techniques and tools for performance evaluation prediction and visualization of parallel systems Chapter 1 gives a short overview of performance degradation of parallel systems and presents a general discussion on the importance of performance evaluation prediction and visualization of parallel systems Chapter 2 analyzes and defines several kinds of serial and parallel runtime points out some of the weaknesses of parallel speedup metrics and discusses how to improve and generalize them Chapter 3 describes formal definitions of scalability addresses the basic metrics affecting the scalability of parallel systems discusses scalability of parallel systems from three aspects parallel architecture parallel algorithm and parallel algorithm architecture combinations and analyzes the relations of scalability and speedup Chapter 4 discusses the methodology of performance measurement describes the benchmark oriented performance test and analysis and how to measure speedup and scalability in practice Chapter 5 analyzes the difficulties in performance

prediction discusses application oriented and architecture oriented performance prediction and how to predict speedup and scalability in practice Chapter 6 discusses performance visualization techniques and tools for parallel systems from three stages performance data collection performance data filtering and performance data visualization and classifies the existing performance visualization tools Chapter 7 describes parallel compiling based search based and knowledge based performance debugging which assists programmers to optimize the strategy or algorithm in their parallel programs and presents visual programming based performance debugging to help programmers identify the location and cause of the performance problem It also provides concrete suggestions on how to modify their parallel program to improve the performance Chapter 8 gives an overview of current interconnection networks for parallel systems analyzes the scalability of interconnection networks and discusses how to measure and improve network performances Performance Evaluation Prediction and Visualization in Parallel Systems serves as an excellent reference for researchers and may be used as a text for advanced courses on the topic **Design and Analysis of Distributed Real-time Systems** Paul J. Fortier,1985

The Art of Computer Systems Performance Analysis Raj Jain,1991-04-16 Based on the author's experience in industry this book focuses on simple techniques for solving everyday problems in systems design and analysis All techniques are covered in a non mathematical way so that no statistics expertise is necessary Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1966 *Proceedings of the Working Conference on Operating Systems Engineering, October 10-12, 1980, at IBM Amagi Homestead ,1980* **ACM Transactions on Computer Systems** ,1983 Presents research and development results on the design specification realization behavior and use of computer systems systems architectures operating systems distributed systems and computer networks *IBM Systems Journal* International Business Machines Corporation,1980 **Simulation in Research and Development** International Association for Mathematics and Computers in Simulation,1985

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