



# The Art of Computer Systems Performance Analysis: Techniques for Experimental Design, Measurement, Simulation, and Modeling

By Raj Jain

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## **The Art of Computer Systems Performance Analysis: Techniques for Experimental Design, Measurement, Simulation, and Modeling** By Raj Jain Bibliography

- Sales Rank: #232126 in Books
- Published on: 1991-04
- Original language: English
- Number of items: 1
- Dimensions: 9.58" h x 1.52" w x 6.30" l, 2.47 pounds
- Binding: Hardcover
- 685 pages

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### Editorial Review

#### Review

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#### From the Inside Flap

As a key step in the selection of processors, operating systems, database, systems networks, and languages, performance analysis plays an integral role in the design and procurement of new computer systems. Presenting a unique blend of measurement, simulation, and modeling methods in a straightforward, problem-oriented fashion, *The Art of Computer Systems Performance Analysis* is a computer professional's treasure trove for practical performance analysis techniques. Integrating essential queueing theory with simulation, measurement techniques, data analysis, and experimental design, the book is divided into the following comprehensive parts:

- \* Overview of Performance Evaluation-addresses common mistakes in the evaluation process, criteria for selecting evaluation techniques and performance metrics, and the establishment of performance requirements
- \* Measurement Techniques and Tools-examines workload selection and characterization, monitors, capacity planning and benchmarking, data presentation, and ratio games
- \* Probability and Statistics-discusses the summarization of measured data, the comparison of systems using sample data, and regression models
- \* Experimental Design and Analysis-provides the maximum amount of information with the minimum number of experiments
- \* Simulation-clarifies the analysis of results, model verification, validation, and random-number generation
- \* Queueing Models-models and techniques for the solution of a wide variety of common performance problems

Analysis techniques are supported by more than 150 examples and case studies-all from the computer science field-and many are summarized with results in handy reference boxes. In addition, common mistakes in the application of various techniques are discussed, and a host of special tricks to demonstrate system superiority are revealed. *The Art of Computer Systems Performance Analysis* is an essential tool for performance analysts, designers, purchasers, and users of computer systems.

#### From the Back Cover

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