Performance by Design: Computer Capacity Planning By Example

Daniel A. Menasce, Lawrence W. Dowdy, Virgilio A.F. Almeida

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Computing systems must meet increasingly strict Quality of Service (QoS) requirements for performance, availability, security, and maintainability. To achieve these goals, designers, analysts, and capacity planners need a far more thorough understanding of QoS issues, and the implications of their decisions. Now, three leading experts present a complete, application-driven framework for understanding and estimating performance. You'll learn exactly how to map real-life systems to accurate performance models, and use those models to make better decisions--both up front and throughout the entire system lifecycle. supported by extensive numerical examples and exercises; QoS issues in requirements analysis, specification, design, development, testing, deployment, operation, and system evolution; specific scenarios, including e-Business and database services, servers, clusters, and data centers; techniques for identifying potential congestion at both software and hardware levels; performance engineering concepts and tools; detailed solution techniques including exact and approximate MVA and Markov Chains; modeling of software contention, fork-and-join, service rate variability, and priority.

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