

Chapter 10

Markov Models

Performance by Design: Computer Capacity Planning by Example

Daniel A. Menascé, Virgilio A.F. Almeida, Lawrence W. Dowdy
Prentice Hall, 2004

Performance By Design Computer Capacity Planning By Example

Zhe Xu



Performance By Design Computer Capacity Planning By Example:

Performance by Design Daniel A. Menascé, Virgilio A. F. Almeida, Larry Dowdy, 2004 Practical real world solutions are given to potential problems covering the entire system life cycle This book describes how to map real life systems databases data centers and e commerce applications into analytic performance models The authors elaborate upon these models and use them to help the reader better understand performance issues **Capacity Management - A Practitioner Guide** Annelies van der Veen, Jan van Bon, 2020-06-11 Capacity Management is described in most key ITSM frameworks ITIL ISO 20000 Microsoft Operations Framework MOF and the Application Service Library ASL all note the importance of Capacity Management This major title meets the need for an in depth practical guide to this critical process Written and reviewed by some of the world s most respected experts in this field it shows how Capacity Management best practice can support provision of a consistent acceptable service level at a known and controlled cost Practical advice covers the essential control of two balances Supply versus demand and resources versus cost In times of mean frugal economic measures it is essential to focus on those practices that are effective and yield practical results In enlightened times of sustainability it is also a requirement to find solutions that satisfy the criteria for greenness This excellent title shows how Capacity Management works not only within an IT environment but also why it is pivotal in meeting high profile business demands Aligns with ISO IEC 20000 and ITIL ISO IEC lists a set of required capacity management deliverables ITIL outlines what should be done in capacity management this book starts to describe how to do it Covers details of what capacity management is all about what is capacity management why do it benefits and cost benefit analysis how to do it data flows and activities who does it roles and perspectives implementation maintenance improvement tools Provides comprehensive templates and checklists objectives interfaces and data flows sub practices and activities metrics application sizing parameters data for modelling deliverables reports CMMI levels KPIs risk matrix sample capacity plan Systems Benchmarking Samuel Kounev, Klaus-Dieter Lange, Jóakim von Kistowski, 2025-03-21 This book serves as both a textbook and handbook on the benchmarking of systems and components used as building blocks of modern information and communication technology applications It provides theoretical and practical foundations as well as an in depth exploration of modern benchmarks and benchmark development The book is divided into two parts foundations and applications The first part introduces the foundations of benchmarking as a discipline covering the three fundamental elements of each benchmarking approach metrics workloads and measurement methodology The second part focuses on different application areas presenting contributions in specific fields of benchmark development These contributions address the unique challenges that arise in the conception and development of benchmarks for specific systems or subsystems and they demonstrate how the foundations and concepts in the first part of the book are being used in existing benchmarks Further the book presents a number of concrete applications and case studies based on input from leading benchmark developers from consortia such as the

Standard Performance Evaluation Corporation SPEC and the Transaction Processing Performance Council TPC Besides a number of updates in almost all chapters for this new edition three chapters are added in Part II of the book 1 Machine Learning and Artificial Intelligence to cater the growing need to evaluate and benchmark ML and AI systems 2 Scalability of Networks and Systems focusing on novel metrics and techniques to evaluate scalability and 3 PC Workstation Graphics and Network Benchmarks covering popular benchmarks like SYSmark PCMark Phoronix Test Suite 3DMark the Blender benchmark and end to end network performance tools Providing both practical and theoretical foundations as well as a detailed discussion of modern benchmarks and their development the book is intended as a handbook for professionals and researchers working in areas related to benchmarking It offers an up to date point of reference for existing work as well as latest results research challenges and future research directions It also can be used as a textbook for graduate and postgraduate students studying any of the many subjects related to benchmarking While readers are assumed to be familiar with the principles and practices of computer science as well as software and systems engineering no specific expertise in any subfield of these disciplines is required

Multikonferenz Wirtschaftsinformatik 2006 Franz Lehner, Holger Nösekabel, Peter Kleinschmidt, 2006

Principles of Computer Systems and Network Management Dinesh Chandra Verma, 2010-01-23 As computer systems and networks have evolved and grown more complex the role of the IT department in most companies has transformed primarily to ensuring that they continue to operate without disruption IT spending as reported by a variety of studies shows the trend that most of the expenses associated with IT are related to the task of operating and managing installed computer systems and applications Furthermore the growth in that expense category is outstripping the expense associated with developing new applications As a consequence there is a pressing need in the companies and organizations to find qualified people who can manage the installed base of computer systems and networks This marks a significant shift from the previous trend in companies where the bulk of the IT department expenses were targeted on development of new computer applications The shift from developing new applications to managing existing systems is a natural consequence of the maturity of IT industry Computers are now ubiquitous in every walk of life and the number of installed successful applications grows steadily over the time Each installed successful application in a company lasts for a long duration Consequently the number of installed applications is much larger than the number of projects focused on developing new applications While there always will be new applications and systems being developed within companies the predominance of managing and operating existing applications is likely to continue

Software Modeling and Design Hassan Gomaa, 2011-02-21 This book covers all you need to know to model and design software applications from use cases to software architectures in UML and shows how to apply the COMET UML based modeling and design method to real world problems The author describes architectural patterns for various architectures such as broker discovery and transaction patterns for service oriented architectures and addresses software quality attributes including

maintainability modifiability testability traceability scalability reusability performance availability and security Complete case studies illustrate design issues for different software architectures a banking system for client server architecture an online shopping system for service oriented architecture an emergency monitoring system for component based software architecture and an automated guided vehicle for real time software architecture Organized as an introduction followed by several short self contained chapters the book is perfect for senior undergraduate or graduate courses in software engineering and design and for experienced software engineers wanting a quick reference at each stage of the analysis design and development of large scale software systems

Load Modelling and Generation in IP-based Networks Andrey Kolesnikov, 2017-08-19 Andrey Kolesnikov proposes an interesting unified approach and corresponding tools for modelling and effective generation of realistic workloads and traffic in networks As a result of the general applicability in IP based networks the outcome of his research can be used for different service interfaces in combination with various workload models and modelling techniques His work is both broad and deep in focus in order to demonstrate the application of the proposed approach in different realistic scenarios

Software Applications: Concepts, Methodologies, Tools, and Applications Tiako, Pierre F., 2009-03-31 Includes articles in topic areas such as autonomic computing operating system architectures and open source software technologies and applications

Model-Driven Software Development: Integrating Quality Assurance Rech, Jörg, Bunse, Christian, 2008-08-31 Covers important concepts issues trends methodologies and technologies in quality assurance for model driven software development

Architectures for Adaptive Software Systems Raffaella Mirandola, Ian Gorton, Christine Hofmeister, 2009-06-08 Much of a software architect's life is spent designing software systems to meet a set of quality requirements General software quality attributes include scalability security performance or reliability Quality attribute requirements are part of an application's non functional requirements which capture the many facets of how the functional requirements of an application are achieved Understanding modeling and continually evaluating quality attributes throughout a project lifecycle are all complex engineering tasks which continue to challenge the software engineering scientific community While we search for improved approaches methods formalisms and tools that are usable in practice and can scale to large systems the complexity of the applications that the software industry is challenged to build is ever increasing Thus as a research community there is little opportunity for us to rest on our laurels as our innovations that address new aspects of system complexity must be deployed and validated To this end the 5th International Conference on the Quality of Software Architectures QoSA 2009 focused on architectures for adaptive software systems Modern software systems must often reconfigure their structure and behavior to respond to continuous changes in requirements and in their execution environment In these settings quality models are helpful at an architectural level to guide systematic model driven software development strategies by evaluating the impact of competing architectural choices

Building Scalable Web Sites Cal Henderson, 2006-05-16 Building scaling and optimizing the next generation of

Web applications *Encyclopedia of Cloud Computing* San Murugesan,Irena Bojanova,2016-05-09 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing s impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information *Modeling and Simulating Software Architectures* Ralf H. Reussner,Steffen Becker,Jens Happe,Robert Heinrich,Anne Koziolk,2016-10-28 A new quantitative architecture simulation approach to software design that circumvents costly testing cycles by modeling quality of service in early design states Too often software designers lack an understanding of the effect of design decisions on such quality attributes as performance and reliability This necessitates costly trial and error testing cycles delaying or complicating rollout This book presents a new quantitative architecture simulation approach to software design which allows software engineers to model quality of service in early design stages It presents the first simulator for software architectures Palladio and shows students and professionals how to model reusable parametrized components and configured deployed systems in order to analyze service attributes The text details the key concepts of Palladio s domain specific modeling language for software architecture quality and presents the corresponding development stage It describes how quality information can be used to calibrate architecture models from which detailed simulation models are automatically derived for quality predictions Readers will learn how to approach systematically questions about scalability hardware resources and efficiency The text features a running example to illustrate tasks and methods as well as three case studies from industry Each chapter ends with exercises suggestions for further reading and takeaways that summarize the key points of the chapter The simulator can be downloaded from a companion website which offers additional material The book can be used in graduate courses on software architecture quality engineering or performance engineering It will also be an essential resource for software architects and software engineers and for practitioners who want to apply Palladio in industrial settings Model-Driven Online Capacity Management for Component-Based Software Systems André van Hoorn,2014-10-15 Capacity management is a core activity when designing and operating distributed software systems Particularly enterprise application systems are exposed to highly varying workloads Employing static capacity management this leads to unnecessarily high total cost of ownership due to poor resource usage efficiency This thesis introduces a model driven online capacity management approach for distributed

component based software systems called SLAStic The core contributions of this approach are a modeling languages to capture relevant architectural information about a controlled software system b an architecture based online capacity management framework based on the common MAPE K control loop architecture c model driven techniques supporting the automation of the approach d architectural runtime reconfiguration operations for controlling a system s capacity as well as e an integration of the Palladio Component Model A qualitative and quantitative evaluation of the approach is performed by case studies lab experiments and simulation Software Engineering Research, Management and Applications Roger Lee,2009-01-29 The 6th ACIS International Conference on Software Engineering Research Management and Applications SERA 2008 was held in Prague in the Czech Republic on August 20 22 SERA 08 featured excellent theoretical and practical contributions in the areas of formal methods and tools requirements engineering software process models communication systems and networks software quality and evaluation software engineering networks and mobile computing parallel distributed computing software testing reuse and metrics database retrieval computer security software architectures and modeling Our conference officers selected the best 17 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members or the program committee and underwent further rounds of rigorous review *Computer Networks* Andrzej Kwiecien,Piotr Gaj,Piotr Stera,2010-06-09 This book constitutes the refereed proceedings of the 17th Conference on Computer Networks CN 2009 held in Ustro n Poland in June 2010 The 37 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in the following groups new technologies applied in computer networks particularly those related to nano molecular and quantum technology new standard technologies related to computer network structure the fundamentals of computer networks their architecture and programming articles concerning the Internet in its broad meaning papers related to data security in distributed systems and a group of articles describing industrial computer networks and papers on applications *Measurement, Modelling and Evaluation of Computing Systems* Reinhard German,Kai-Steffen Hielscher,Udo R. Krieger,2018-02-16 This book constitutes the proceedings of the 19th International GI ITG Conference on Measurement Modelling and Evaluation of Computing Systems MMB 2018 held in Erlangen Germany in February 2018 The 16 full papers 4 PhD track papers and 9 tool papers presented in this volume were carefully reviewed and selected from 42 submissions They are dealing with performance and dependability evaluation techniques for computer and communication systems and its related fields *Data Engineering* Yupo Chan,John Talburt,Terry M. Talley,2009-10-15 DATA ENGINEERING Mining Information and Intelligence describes applied research aimed at the task of collecting data and distilling useful information from that data Most of the work presented emanates from research completed through collaborations between Acxiom Corporation and its academic research partners under the aegis of the Acxiom Laboratory for Applied Research ALAR Chapters are roughly ordered to follow the logical sequence of

the transformation of data from raw input data streams to refined information Four discrete sections cover Data Integration and Information Quality Grid Computing Data Mining and Visualization Additionally there are exercises at the end of each chapter The primary audience for this book is the broad base of anyone interested in data engineering whether from academia market research firms or business intelligence companies The volume is ideally suited for researchers practitioners and postgraduate students alike With its focus on problems arising from industry rather than a basic research perspective combined with its intelligent organization extensive references and subject and author indices it can serve the academic research and industrial audiences

Cost Accounting for Shared IT Infrastructures Reinhard Brandl, 2008-08-21 During the past few years determining the value of IT has ranked high on the agenda of IT managers and Chief Information Officers CIOs The rather broad and abstract topic has been intensively discussed in the Information Systems literature for many years It turns into a very tangible problem in the field of IT cost accounting Nowadays corporate information systems are distributed systems A detailed measurement of resource demands of IT services on a distributed IT infrastructure and respective accounting and cost allocation turns out to be very expensive and impractical in most cases The large proportion of indirect costs and the difficulty of finding adequate allocation rates are a significant problem in practice regularly leading to free rider problems This problem has largely been ignored in the academic literature so far Dr Brandl proposes a method to derive estimators for the resource demand of service requests in a distributed IT infrastructure This estimator is based on a set of load tests and respective measurements as they are often performed during the deployment phase of new information systems Cost allocation keys can now be determined based on the number of service invocations per user or per department and the respective estimators While these measurements provide a lean method for the determination of usage based cost allocation keys it is not obvious that the estimators have sufficient accuracy in particular concerning different types of services and volatile workloads

Web Engineering David Lowe, Martin Gaedke, 2011-04-06 Over the last few years Web Engineering has begun to gain mainstream acceptance within the software engineering IT and related disciplines In particular both researchers and practitioners are increasingly recognizing the unique characteristics of Web systems and what these characteristics simply in terms of the approaches we take to Web systems development and deployment in practice A scan of the publications in related conference proceedings and journals highlights the diversity of the discipline areas which contribute to both the richness and the complexity of Web Engineering The 5th International Conference on Web Engineering ICWE2005 held in Sydney Australia extends the traditions established by the earlier conferences in the series ICWE2004 in Munich Germany ICWE2003 in Oviedo Spain ICWE2002 in Santa Fe Argentina and ICWE2001 in Cáceres Spain Not only have these conferences helped disseminate cutting edge research within the field of Web Engineering but they have also helped define and shape the discipline itself The program we have put together for ICWE2005 continues this evolution Indeed we can now begin to see the maturing of the field For possibly the first time there was very little debate within the Program

Committee about which papers were in and out of scope and much more debate as to the each papers contributions to the eld

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