Foundations of Software and System Performance Engineering

Process, Performance Modeling, Requirements, Testing, Scalability, and Practice

André B. Bondi

Foundations Of Software And System Performance Engineering Process Performance Modeling Requirements Testing Scalability And Practice

SB Merriam

Foundations Of Software And System Performance Engineering Process Performance Modeling Requirements Testing Scalability And Practice:

Foundations of Software and System Performance Engineering André B. Bondi,2014 **Foundations of Software and System Performance Engineering** André B. Bondi,2014-08-08 If this book had been available to Healthcare gov s contractors and they read and followed its life cycle performance processes there would not have been the enormous problems apparent in that application In my 40 years of experience in building leading edge products poor performance is the single most frequent cause of the failure or cancellation of software intensive projects This book provides techniques and skills necessary to implement performance engineering at the beginning of a project and manage it throughout the product s life cycle I cannot recommend it highly enough Don Shafer CSDP Technical Fellow Athens Group LLC Poor performance is a frequent cause of software project failure Performance engineering can be extremely challenging In Foundations of Software and System Performance Engineering leading software performance expert Dr Andr Bondi helps you create effective performance requirements up front and then architect develop test and deliver systems that meet them Drawing on many years of experience at Siemens AT plan for diverse workloads evaluate scalability capacity and responsiveness and test both individual components and entire systems Throughout Bondi helps you link performance engineering with everything else you do in the software life cycle so you can achieve the right performance now and in the future at lower cost and with less pain This guide will help you Mitigate the business and engineering risk associated with poor system performance Specify system performance requirements in business and engineering terms Identify metrics for comparing performance requirements with actual performance Verify the accuracy of measurements Use simple mathematical models to make predictions plan performance tests and anticipate the impact of changes to the system or the load placed upon it Avoid common performance and scalability mistakes Clarify business and engineering needs to be satisfied by given levels of throughput and response time Incorporate performance engineering into agile processes Help stakeholders of a system make better performance related decisions Manage stakeholders expectations about system performance throughout the software life cycle and deliver a software product with quality performance Andr B Bondi is a senior staff engineer at Siemens Corp Corporate Technologies in Princeton New Jersey His specialties include performance requirements performance analysis modeling simulation and testing Bondi has applied his industrial and academic experience to the solution of performance issues in many problem domains In addition to holding a doctorate in computer science and a master s in statistics he is a Certified Scrum Master *The The Complete Edition – Software Engineering for Real-Time Systems* Jim Cooling,2019-12-26 Adopt a diagrammatic approach to creating robust real time embedded systems Key FeaturesExplore the impact of real time systems on software designUnderstand the role of diagramming in the software development processLearn why software performance is a key element in real time systemsBook Description From air traffic control systems to network multimedia

systems real time systems are everywhere The correctness of the real time system depends on the physical instant and the logical results of the computations This book provides an elaborate introduction to software engineering for real time systems including a range of activities and methods required to produce a great real time system The book kicks off by describing real time systems their applications and their impact on software design You will learn the concepts of software and program design as well as the different types of programming software errors and software life cycles and how a multitasking structure benefits a system design Moving ahead you will learn why diagrams and diagramming plays a critical role in the software development process You will practice documenting code related work using Unified Modeling Language UML and analyze and test source code in both host and target systems to understand why performance is a key design driver in applications Next you will develop a design strategy to overcome critical and fault tolerant systems and learn the importance of documentation in system design By the end of this book you will have sound knowledge and skills for developing real time embedded systems What you will learnDifferentiate between correct reliable and safe softwareDiscover modern design methodologies for designing a real time systemUse interrupts to implement concurrency in the systemTest integrate and debug the codeDemonstrate test issues for OOP constructsOvercome software faults with hardware based techniquesWho this book is for If you are interested in developing a real time embedded system this is the ideal book for you With a basic understanding of programming microprocessor systems and elementary digital logic you will achieve the maximum with this book Knowledge of assembly language would be an added advantage **Modeling and Simulating Software Architectures** Ralf H. Reussner,Steffen Becker,Jens Happe,Robert Heinrich,Anne Koziolek,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 Continuous Architecture in Practice Eoin Woods,Murat Erder,Pierre Pureur,2021-05-26 Update Your Architectural Practices for New Challenges Environments and Stakeholder Expectations I am continuously delighted and inspired by the work of these authors Their first book laid the groundwork for understanding how to evolve the architecture of a software intensive system and this latest one builds on it in some wonderfully actionable ways Grady Booch Chief Scientist for Software Engineering IBM Research Authors Murat Erder Pierre Pureur and Eoin Woods have taken their extensive software architecture experience and applied it to the practical aspects of software architecture in real world environments Continuous Architecture in Practice provides hands on advice for leveraging the continuous architecture approach in real world environments and illuminates architecture s changing role in the age of Agile DevOps and cloud platforms This guide will help technologists update their architecture practice for new software challenges As part of the Vaughn Vernon Signature Series this title was hand selected for the practical delivery oriented knowledge that architects and software engineers can quickly apply It includes in depth guidance for addressing today s key quality attributes and cross cutting concerns such as security performance scalability resilience data and emerging technologies Each key technique is demonstrated through a start to finish case study reflecting the authors deep experience with complex software environments Key topics include Creating sustainable coherent systems that meet functional requirements and the quality attributes stakeholders care about Understanding team based software architecture and architecture as a flow of decisions Understanding crucial issues of data management integration and change and the impact of varied data technologies on architecture Architecting for security including continuous threat modeling and mitigation Architecting for scalability and resilience including scaling microservices and serverless environments Using architecture to improve performance in continuous delivery environments Using architecture to apply emerging technologies successfully Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

Software Architecture in Practice Len Bass,Paul Clements,Rick Kazman,2021-06-30 The Definitive Practical Proven Guide to Architecting Modern Software Fully Updated with New Content on Mobility the Cloud Energy Management DevOps Quantum Computing and More Updated with eleven new chapters Software Architecture in Practice Fourth Edition thoroughly explains what software architecture is why it s important and how to design instantiate analyze evolve and manage it in disciplined and effective ways Three renowned software architects cover the entire lifecycle presenting practical guidance expert methods and tested models for use in any project no matter how complex You ll learn how to use architecture to address accelerating growth in requirements system size and abstraction and to manage emergent quality attributes as systems are dynamically combined in new ways With insights for utilizing architecture to optimize key quality

attributes including performance modifiability security availability interoperability testability usability deployability and more this guide explains how to manage and refine existing architectures transform them to solve new problems and build reusable architectures that become strategic business assets Discover how architecture influences and is influenced by technical environments project lifecycles business profiles and your own practices Leverage proven patterns interfaces and practices for optimizing quality through architecture Architect for mobility the cloud machine learning and quantum computing Design for increasingly crucial attributes such as energy efficiency and safety Scale systems by discovering architecturally significant influences using DevOps and deployment pipelines and managing architecture debt Understand architecture s role in the organization so you can deliver more value Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details Web Engineering Maria Bielikova,Tommi Mikkonen,Cesare Pautasso,2020-06-09 This book constitutes the proceedings of the 20th International Conference on Web Engineering ICWE 2020 which was planned to take place in Helsinki Finland during June 9 12 2020 Due to the corona pandemic the conference changed to a virtual format The total of 24 full and 10 short contributions presented in this volume were carefully reviewed and selected from 78 submissions The book also contains 4 PhD and 7 demo papers The papers were organized in topical sections named User interface technologies performance of Web technologies machine learning testing of Web applications emotion detection location aware applications sentiment analysis open data liquid Web applications Web based learning PhD symposium demos and posters Mastering The Faster Web with PHP, MySQL, and JavaScript Andrew Caya,2018-06-11 The Faster Web is quickly changing the way we think about Web development The Web has changed considerably in recent years and is now built upon many new technologies the HTTP 2 protocol asynchronous programming PHP tools like Blackfire io and server monitoring tools like the TICK stack This book will help you take a deep dive into these

Cloud Native Architecture Fernando Harris,2024-05-30 How to plan design manage build and run monoliths and microservices in an agnostic scalable and highly available cloud native architecture with Kubernetes KEY FEATURES Learn about cloud computing s origins and business motivations exploring various interpretations emphasizing flexibility integration and efficiency Establish a plan for cloud success focusing on culture teamwork skill development and adapting organizational processes like Agile and DevOps Utilize this plan to develop and manage cloud based applications securely and efficiently on Kubernetes for optimal performance DESCRIPTION The book Cloud Native Architecture explains how to plan manage build and run monoliths and microservices in an agnostic scalable and highly available cloud native runtime such as Kubernetes This is done by effectively applying DevOps principles through the tactical use of CNCF tools You will start by learning about cloud native technology s history and business reasons This will help you understand its five key pillars open source containers distributed architectures operational benefits and DevOps integration We will introduce a framework for adopting cloud native best practices focusing on technical and cultural changes You will learn how to adapt

processes like DevOps Chaos Engineering Automation and API First We will cover automating infrastructure with tools like Prometheus and Grafana using Kubernetes for container management and designing applications with microservices Practical exercises will include setting up CI CD pipelines with Jenkins and ensuring Kubernetes security By the end of this book you will be empowered to navigate the Cloud Native landscape confidently equipped with the knowledge and practical skills to design develop deploy and migrate applications for the modern cloud era WHAT YOU WILL LEARN Learn about cloud native s background and its impact on culture and processes Understand Kubernetes concepts components and best practices with an agnostic framework Design and build monoliths incrementally on Kubernetes following twelve factor app principles Transition from monoliths to microservices using specific tools for lifecycle management Address Kubernetes security during application development and deployment WHO THIS BOOK IS FOR This book is for developers architects and solution consultants who are now exploring cloud native architecture principles for design and development with Agile and DevOps to modernize existing applications or create brand new cloud native products TABLE OF CONTENTS 1 History and Business Drivers 2 Five Different Cloud Native Perspectives 3 The Cultural Shift Introducing a Framework to Succeed 4 People Who is Doing What 5 Processes How Should We Do It 6 Technology Where Are We Running It 7 Technology What Are We Building 8 Technology Transition from Monolith to Microservices 9 Technology Addressing Kubernetes Security

Reference Architectures for Critical Domains Elisa Yumi Nakagawa,Pablo Oliveira Antonino,2023-03-14 This book presents reference architecture as a key blueprint to develop and evolve critical software intensive systems emphasizing both the state of the art in research and successful industrial cases After outlining the theoretical foundations of reference architecture and presenting an overview of a number of reference architectures proposed over the recent years this book dives into a set of critical application domains including defense health automotive avionics and Industry 4 0 highlighting the respective most relevant reference architectures that have impacted these domains the experience and lessons learned insights gained benefits and drawbacks and factors that make these architectures sustainable The book finishes with the most relevant directions for future advances in reference architectures The content of this book is useful for researchers and advanced professionals in industry in the areas of computing and engineering as well as in critical application domains that increasingly require interconnected large and complex software intensive systems **Software Architecture in Practice□ □□ □□□(□□□)** Len Bass, Paul Clements, Rick Kazman,2022-04-25 Software Architecture in Practice DevOps DevOps GOTOP

Testing Object-oriented Systems Robert Binder,2000 More than ever mission critical and business critical applications depend on object oriented OO software Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality Testing Object Oriented Systems Models Patterns and Tools is an authoritative guide to designing and automating test suites for OO applications This comprehensive book explains why testing must be model based and provides in depth coverage of techniques to develop testable models from state machines combinational logic and the

Unified Modeling Language UML It introduces the test design pattern and presents 37 patterns that explain how to design responsibility based test suites how to tailor integration and regression testing for OO code how to test reusable components and frameworks and how to develop highly effective test suites from use cases Effective testing must be automated and must leverage object technology The author describes how to design and code specification based assertions to offset testability losses due to inheritance and polymorphism Fifteen micro patterns present oracle strategies practical solutions for one of the hardest problems in test design Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework The author provides thorough coverage of testing issues such as The bug hazards of OO programming and differences from testing procedural code How to design responsibility based tests for classes clusters and subsystems using class invariants interface data flow models hierarchic state machines class associations and scenario analysis How to support reuse by effective testing of abstract classes generic classes components and frameworks How to choose an integration strategy that supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post test state of an object How to automate testing with assertions OO test drivers stubs and test frameworks Real world experience world class best practices and the latest research in object oriented testing are included Practical examples illustrate test design and test automation for Ada 95 C Eiffel Java Objective C and Smalltalk The UML is used throughout but the test design patterns apply to systems developed with any OO language or methodology 0201809389B04062001

Computerworld ,2001-04-23 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

Scientific and Technical Aerospace Reports ,1995 *Programs and Services* National Library of Medicine (U.S.),

National Library of Medicine Programs and Services National Library of Medicine (U.S.), Decadal Survey of Civil Aeronautics National Research Council,Division on Engineering and Physical Sciences,Aeronautics and Space Engineering Board,Steering Committee for the Decadal Survey of Civil Aeronautics,2006-10-27 The U S air transportation system is very important for our economic well being and national security The nation is also the global leader in civil and military aeronautics a position that needs to be maintained to help assure a strong future for the domestic and international air transportation system Strong action is needed however to ensure that leadership role continues To that end the Congress and NASA requested the NRC to undertake a decadal survey of civil aeronautics research and technology R T priorities that would help NASA fulfill its responsibility to preserve U S leadership in aeronautics technology This report presents a set of strategic objectives for the next decade of R T It provides a set of high priority R T challenges characterized by five common themes for both NASA and non NASA researchers and an analysis of key barriers that must be overcome to reach the

strategic objectives The report also notes the importance of synergies between civil aeronautics R T objectives and those of national security Introduction to Programming Exam Guide Cybellium,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com **Computer Performance Engineering** András Horváth,Katinka Wolter,2014-09-01 This book constitutes the proceedings of the 11th European Workshop on Performance Engineering EPEW 2014 held in Florence Italy in September 2014 The 18 full papers presented in this volume were carefully reviewed and selected from 30 submissions The papers are organized in topical sections named cloud performance modelling queueing and fluid models performance of computation and programming fitting urban traffic modelling decision making and Markovian models above and beyond **MDA Distilled** Stephen J. Mellor,2004 A readable and much needed introduction to MDA Dr Jim Arlow coauthor of UML and the Unified Process Addison Wesley 2002 and Enterprise Patterns and MDA Addison Wesley 2004 This book provides an excellent introduction to the ideas and technologies that will form the foundation of the model driven architecture over the coming years I recommend it wholeheartedly Dr Andy Evans Managing Director Xactium Limited UK Excellent job of distilling MDA down to its core concepts Krzysztof Czarnecki Univeristy of Waterloo coauthor of Generative Programming Addison Wesley 2000 As systems have grown more crucial to the operations of organizations worldwide so too have the costs associated with building and maintaining them Enter model driven architecture MDA a standard framework from the Object Management Group OMG that allows developers to link object models together to build complete systems MDA prevents design decisions from being intertwined with the application and keeps it independent of its implementation The result is an application that can be combined with other technologies as well as other applications and models that become highly reusable assets MDA Distilled is an accessible introduction to the MDA standard and its tools and technologies The book describes the fundamental features of MDA how they fit together and how you can use them in your organization today You will also learn how to define a model driven process for a project involving multiple platforms implement that process and then test the resulting system MDA Distilled will help you understand The MDA framework including the platform independent model PIM and the platform specific model PSM The Meta Object Facility MOF the OMG s adopted standard for metamodeling Horizontal vertical and merging mappings between models Building marks and marking models Elaborating models including viewing generated models and managing manual changes Building executable

models with Executable UML Agile MDA development Developers and architects can dramatically improve productivity portability interoperability and maintenance with MDA Find out how with this essential reference and quickly learn how to harness the significant power of this new framework

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