Efficient Software

Adam Freeman

<u>Building Better Applications</u> Michael R. Dunlavey,1994 As computer software has grown more capable and sophisticated, the underlying operating code has expanded. Now an experienced software developer proposes a new set of theoretical ideas and practical techniques for writing simpler, more efficient programs. Dunlavey analyzes programmers and the work they produce, offering a strategy for making both perform better.

Guide to Efficient Software Design David P. Voorhees,2020-01-01 This classroom-tested textbook presents an active-learning approach to the foundational concepts of software design. These concepts are then applied to a case study, and reinforced through practice exercises, with the option to follow either a structured design or object-oriented design paradigm. The text applies an incremental and iterative software development approach, emphasizing the use of design characteristics and modeling techniques as a way to represent higher levels of design abstraction, and promoting the model-view-controller (MVC) architecture. Topics and features: provides a case study to illustrate the various concepts discussed throughout the book, offering an in-depth look at the pros and cons of different software designs; includes discussion questions and hands-on exercises that extend the case study and apply the concepts to other problem domains; presents a review of program design fundamentals to reinforce understanding of the basic concepts; focuses on a bottom-up approach to describing software design concepts; introduces the characteristics of a good software design, emphasizing the model-view-controller as an underlying architectural principle; describes software design from both object-oriented and structured perspectives; examines additional topics on human-computer interaction design, quality assurance, secure design, design patterns, and persistent data storage design; discusses design concepts that may be applied to many types of software development projects; suggests a template for a

software design document, and offers ideas for further learning. Students of computer science and software engineering will find this textbook to be indispensable for advanced undergraduate courses on programming and software design. Prior background knowledge and experience of programming is required, but familiarity in software design is not assumed.

Value Realization from Efficient Software Deployment Alex Louwe Kooijmans,Anshu Kak,Shaun A. Crain,Andrej Crepinsek,Venkata Gadepalli,Ian Hall,IBM Redbooks,2011-10-25 Many companies have a complex process for purchasing software that is required by IT projects, or better, by the business. Usually software is purchased by a centralized procurement function, and is either purchased on a project-by-project basis or as a large periodic software contract. Unfortunately purchasing software products does not automatically mean that these products are exploited throughout the organization providing the maximum possible value to the business units. Several issues call for a structured approach that gets the most business value out of software already purchased. The objectives of this approach are to: Create maximum awareness throughout the organization of the software purchased. Track software use in IT projects and act if products are not used at all, used improperly, or insufficiently used. Facilitate use of software products in projects, especially when software products are complex and require a lot of integration. We can summarize the overall objective of this approach as ensuring that the business units in an organization obtain the maximum possible value of software products purchased, which is also the scope of this IBM® Redbooks® publication.

Developing Sustainable and Energy-Efficient Software Systems Artem Kruglov,Giancarlo Succi,2023-02-06 This open access book provides information how to choose and collect the appropriate metrics for a software project in an organization. There are several kinds of metrics, based on the analysis of

source code and developed for different programming paradigms such as structured programming and object-oriented programming (OOP). This way, the book follows three main objectives: (i) to identify existing and easily-collectible measures, if possible in the early phases of software development, for predicting and modeling both the traditional attributes of software systems and attributes specifically related to their efficient use of resources, and to create new metrics for such purposes; (ii) to describe ways to collect these measures during the entire lifecycle of a system, using minimally-invasive monitoring of design-time processes, and consolidate them into conceptual frameworks able to support model building by using a variety of approaches, including statistics, data mining and computational intelligence; and (iii) to present models and tools to support design time evolution of systems based on design-time measures and to empirically validate them. The book provides researchers and advanced professionals with methods for understanding the full implications of alternative choices and their relative attractiveness in terms of enhancing system resilience. It also explores the simultaneous use of multiple models that reflect different system interpretations or stakeholder perspectives.

Designing, Engineering, and Analyzing Reliable and Efficient Software Singh, Hardeep,2013-02-28 Due to the role of software systems in safety-critical applications and in the satisfaction of customers and organizations, the development of efficient software engineering is essential. Designing, Engineering, and Analyzing Reliable and Efficient Software discusses and analyzes various designs, systems, and advancements in software engineering. With its coverage on the integration of mathematics, computer science, and practices in engineering, this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners, professors and students in these fields of study.

Efficient Software Development with DB2 for OS/390

Jürgen Glag,1999-10-28 Jürgen Glag's book points out how to
ensure professional and efficient database software development
in DB2 mainframe and client/server environments. The asset of
this book is that technical aspects (performance, tuning) and
organizational measures (economical performance) are covered.
Consequently, this book is suitable particularly for organizations
that want to use DB2 in an economical and safe way. Work in
various large production systems with DB2 revealed that most
performance problems arise either from a certain critical
transaction load onwards or for particularly large tables. Many
measures can be taken in order to identify and to solve these
problems during software development and not, as is often the
case, only in production environment. Beyond explaining the
causes for performance problems, this book also describes and
explains well-proven measures to avoid such problems. The book
particularly addresses those persons who are responsible for data
processing and quality assurance; project leaders and project
managers in the data processing area; and software and
application developers. Das Buch von Glag zeigt, wie
professionelle und effiziente DB-Anwendungsentwicklung im DB2-
Großrechnerbereich und Client/Server-Umfeld sichergestellt
werden können. Der Vorzug des Buches ist es, daß sowohl die
technischen Aspekte (Performance, Tuning) als auch
organisatorische Maßnahmen zur Optimierung (wirtschaftliche
Performance) dargestellt werden. Damit eignet sich das Buch
insbesondere für den Einsatz in Unternehmen, die DB2
kostengünstig und sicher einsetzen wollen. Bei der Arbeit in
mehreren großen produktiven DB2-Umgebungen hat sich gezeigt,
daß die meisten Performance-Probleme entweder erst ab einer
bestimmten kritischen Transaktionslast oder bei besonders
umfangreichen Tabellengrößen auftreten. Um diese Probleme
nicht erst in der Produktionsumgebung, sondern bereits während
der Softwareentwicklung erkennen und lösen zu können, sind

eine Reihe von Maßnahmen

Building Software Teams Joost Visser,Sylvan Rigal,Gijs Wijnholds,Zeeger Lubsen,2016-12-12 Why does poor software quality continue to plague enterprises of all sizes in all industries? Part of the problem lies with the process, rather than individual developers. This practical guide provides ten best practices to help team leaders create an effective working environment through key adjustments to their process. As a follow-up to their popular book, Building Maintainable Software, consultants with the Software Improvement Group (SIG) offer critical lessons based on their assessment of development processes used by hundreds of software teams. Each practice includes examples of goalsetting to help you choose the right metrics for your team. Achieve development goals by determining meaningful metrics with the Goal-Question-Metric approach Translate those goals to a verifiable Definition of Done Manage code versions for consistent and predictable modification Control separate environments for each stage in the development pipeline Automate tests as much as possible and steer their guidelines and expectations Let the Continuous Integration server do much of the hard work for you Automate the process of pushing code through the pipeline Define development process standards to improve consistency and simplicity Manage dependencies on third party code to keep your software consistent and up to date Document only the most necessary and current knowledge

Pro Go Adam Freeman,2022-01-28 Best-selling author Adam Freeman explains how to get the most from Go, starting from the basics and building up to the most advanced and sophisticated features. You will learn how Go builds on a simple and consistent type system to create a comprehensive and productive development experience that produces fast and robust applications that run across platforms. Go, also known as Golang, is the concise and efficient programming language designed by Google for creating high-performance, cross-platform

applications. Go combines strong static types with simple syntax and a comprehensive standard library to increase programmer productivity, while still supporting features such as concurrent/parallel programming. Each topic is covered in a clear, concise, no-nonsense approach that is packed with the details you need to learn to be truly effective. Chapters include common problems and how to avoid them. What You Will Learn Gain a solid understanding of the Go language and tools Gain in-depth knowledge of the Go standard library Use Go for concurrent/parallel tasks Use Go for client- and server-side development Who This Book Is For Experienced developers who want to use Go to create applications

Experimental Algorithmics Rudolf Fleischer,Bernhard Moret,Erik Meineche Schmidt,2003-07-01 Experimental algorithmics, as its name indicates, combines algorithmic work and experimentation: algorithms are not just designed, but also implemented and tested on a variety of instances. Perhaps the most important lesson in this process is that designing an algorithm is but the first step in the process of developing robust and efficient software for applications. Based on a seminar held at Dagstuhl Castle, Germany in September 2000, this state-of-the-art survey presents a coherent survey of the work done in the area so far. The 11 carefully reviewed chapters provide complete coverage of all current topics in experimental algorithmics.

Effective Methods for Software and Systems Integration Boyd L. Summers,2012-06-01 Before software engineering builds and installations can be implemented into software and/or systems integrations in military and aerospace programs, a comprehensive understanding of the software development life cycle is required. Covering all the development life cycle disciplines, Effective Methods for Software and Systems Integration explains how to select and apply a life cycle that promotes effective and efficient software and systems integration. The book defines time-tested methods for systems engineering,

software design, software engineering informal/formal builds, software engineering installations, software and systems integration, delivery activities, and product evaluations. Explaining how to deal with scheduling issues, the text considers the use of IBM Rational ClearCase and ClearQuest tools for software and systems integration. It also: Presents methods for planning, coordination, software loading, and testing Addresses scheduling issues and explains how to plan to coordinate with customers Covers all development life cycle disciplines Explains how to select and apply a life cycle that promotes effective and efficient software and systems integration The text includes helpful forms—such as an audit checklist, a software/systems integration plan, and a software checklist PCA. Providing you with the understanding to achieve continuous improvements in quality throughout the software life cycle, it will help you deliver projects that are on time and within budget constraints in developmental military and aerospace programs as well as the software industry.

Hands-On Concurrency with Rust Brian L. Troutwine,2018-05-31 Get to grips with modern software demands by learning the effective uses of Rust's powerful memory safety. Key Features Learn and improve the sequential performance characteristics of your software Understand the use of operating system processes in a high-scale concurrent system Learn of the various coordination methods available in the Standard library Book Description Most programming languages can really complicate things, especially with regard to unsafe memory access. The burden on you, the programmer, lies across two domains: understanding the modern machine and your language's pain-points. This book will teach you to how to manage program performance on modern machines and build fast, memory-safe, and concurrent software in Rust. It starts with the fundamentals of Rust and discusses machine architecture concepts. You will be taken through ways to measure and improve

the performance of Rust code systematically and how to write collections with confidence. You will learn about the Sync and Send traits applied to threads, and coordinate thread execution with locks, atomic primitives, data-parallelism, and more. The book will show you how to efficiently embed Rust in C++ code and explore the functionalities of various crates for multithreaded applications. It explores implementations in depth. You will know how a mutex works and build several yourself. You will master radically different approaches that exist in the ecosystem for structuring and managing high-scale systems. By the end of the book, you will feel comfortable with designing safe, consistent, parallel, and high-performance applications in Rust. What you will learn Probe your programs for performance and accuracy issues Create your own threading and multi-processing environment in Rust Use coarse locks from Rust's Standard library Solve common synchronization problems or avoid synchronization using atomic programming Build lock-free/wait-free structures in Rust and understand their implementations in the crates ecosystem Leverage Rust's memory model and type system to build safety properties into your parallel programs Understand the new features of the Rust programming language to ease the writing of parallel programs Who this book is for This book is aimed at software engineers with a basic understanding of Rust who want to exploit the parallel and concurrent nature of modern computing environments, safely.

Software Sustainability Coral Calero,Ma Ángeles Moraga,Mario Piattini,2021-10-05 This book focuses on software sustainability, regarded in terms of how software is or can be developed while taking into consideration environmental, social, and economic dimensions. The sixteen chapters cover various related issues ranging from technical aspects like energy-efficient programming techniques, formal proposals related to energy efficiency measurement, patterns to build energy-efficient software, the role of developers on energy efficient software

systems and tools for detecting and refactoring code smells/energy bugs; to human aspects like its impact on software sustainability or the adaptation of ACM/IEEE guidelines for student and professional education and; and an economics-driven architectural evaluation for sustainability. Also aspects as the elements of governance and management that organizations should consider when implementing, assessing and improving Green IT or the relationship between software sustainability and the Corporate Social Responsibility of software companies are included. The chapters are complemented by usage scenarios and experience reports on several domains as cloud applications, agile development or e-Health, among others. As a whole, the chapters provide a complete overview of the various issues related to sustainable software development. The target readership for this book includes CxOs, (e.g. Chief Information Officers, Chief Executive Officers, Chief Technology Officers, etc.) software developers, software managers, auditors, business owners, and quality professionals. It is also intended for students of software engineering and information systems, and software researchers who want to know the state of the art regarding software sustainability.

Effective Software Engineering John Svart,2012-12-11 Answers the questions to attaining effective software engineering, including what are the major features, traits and processes that must be accounted for in order to create successful software products; how can software engineering teams create a sustainable and effective codebase; what should be done to ensure that a product is easy to deploy to a production environment; and what must be delivered to allow operation teams to properly use, configure, manage and troubleshoot the production system once it is up and running.

The Art of Writing Efficient Programs Fedor G. Pikus,2021-10-22 Become a better programmer with performance improvement techniques such as concurrency, lock-free

programming, atomic operations, parallelism, and memory management Key FeaturesLearn proven techniques from a heavyweight and recognized expert in C++ and high-performance computingUnderstand the limitations of modern CPUs and their performance impactFind out how you can avoid writing inefficient code and get the best optimizations from the compilerLearn the tradeoffs and costs of writing high-performance programsBook Description The great free lunch of performance taking care of itself is over. Until recently, programs got faster by themselves as CPUs were upgraded, but that doesn't happen anymore. The clock frequency of new processors has almost peaked, and while new architectures provide small improvements to existing programs, this only helps slightly. To write efficient software, you now have to know how to program by making good use of the available computing resources, and this book will teach you how to do that. The Art of Efficient Programming covers all the major aspects of writing efficient programs, such as using CPU resources and memory efficiently, avoiding unnecessary computations, measuring performance, and how to put concurrency and multithreading to good use. You'll also learn about compiler optimizations and how to use the programming language (C++) more efficiently. Finally, you'll understand how design decisions impact performance. By the end of this book, you'll not only have enough knowledge of processors and compilers to write efficient programs, but you'll also be able to understand which techniques to use and what to measure while improving performance. At its core, this book is about learning how to learn. What you will learnDiscover how to use the hardware computing resources in your programs effectivelyUnderstand the relationship between memory order and memory barriersFamiliarize yourself with the performance implications of different data structures and organizationsAssess the performance impact of concurrent memory accessed and how to minimize itDiscover when to use and when not to use lock-free

programming techniquesExplore different ways to improve the effectiveness of compiler optimizationsDesign APIs for concurrent data structures and high-performance data structures to avoid inefficienciesWho this book is for This book is for experienced developers and programmers who work on performance-critical projects and want to learn new techniques to improve the performance of their code. Programmers in algorithmic trading, gaming, bioinformatics, computational genomics, or computational fluid dynamics communities will get the most out of the examples in this book, but the techniques are fairly universal. Although this book uses the C++ language, the concepts demonstrated in the book can be easily transferred or applied to other compiled languages such as C, Java, Rust, Go, and more.

Value Realization from Efficient Software Deployment
Anshu Kak,Alex Kooijmans,Shaun Crain,Andrej Crepinsek,Venkata Gadepalli,Ian Hall,2011 Many companies have a complex process for purchasing software that is required by IT projects, or better, by the business. Usually software is purchased by a centralized procurement function, and is either purchased on a project-by-project basis or as a large periodic software contract. Unfortunately purchasing software products does not automatically mean that these products are exploited throughout the organization providing the maximum possible value to the business units. Several issues call for a structured approach that gets the most business value out of software already purchased. The objectives of this approach are to: * Create maximum awareness throughout the organization of the software purchased. * Track software use in IT projects and act if products are not used at all, used improperly, or insufficiently used. * Facilitate use of software products in projects, especially when software products are complex and require a lot of integration. We can summarize the overall objective of this approach as ensuring that the business units in an organization obtain the

maximum possible value of software products purchased, which is also the scope of this IBM Redbooks publication.

Writing Efficient Programs Jon Louis Bentley,1982 Classic on practical methods of optimizing programs: This book gives practical advice on improving the efficiency (optimizing) programs and the limits there of. While showing how to trade off speed for space or vice-versa, the author points out the limits that can be expected to gain. His list of techniques is a collection of practical approaches rather than theoretical possibilities. At 158 pages (not counting index) this book is eminently readable, accessable and useful. Clearly written and well organized this is a book to keep on your shelf for when a program needs improving. It is also a book to read before a program as a reminder not to make things complicated with optimization that aren't needed.

Efficient Software Development with DB2 for OS/390 Jürgen Glag,2013-03-13 Jürgen Glag's book points out how to ensure professional and efficient database software development in DB2 mainframe and client/server environments. The asset of this book is that technical aspects (performance, tuning) and organizational measures (economical performance) are covered. Consequently, this book is suitable particularly for organizations that want to use DB2 in an economical and safe way. Work in various large production systems with DB2 revealed that most performance problems arise either from a certain critical transaction load onwards or for particularly large tables. Many measures can be taken in order to identify and to solve these problems during software development and not, as is often the case, only in production environment. Beyond explaining the causes for performance problems, this book also describes and explains well-proven measures to avoid such problems. The book particularly addresses those persons who are responsible for data processing and quality assurance; project leaders and project managers in the data processing area; and software and application developers. Das Buch von Glag zeigt, wie professionelle und

effiziente DB-Anwendungsentwicklung im DB2-Großrechnerbereich und Client/Server-Umfeld sichergestellt werden können. Der Vorzug des Buches ist es, daß sowohl die technischen Aspekte (Performance, Tuning) als auch organisatorische Maßnahmen zur Optimierung (wirtschaftliche Performance) dargestellt werden. Damit eignet sich das Buch insbesondere für den Einsatz in Unternehmen, die DB2 kostengünstig und sicher einsetzen wollen. Bei der Arbeit in mehreren großen produktiven DB2-Umgebungen hat sich gezeigt, daß die meisten Performance-Probleme entweder erst ab einer bestimmten kritischen Transaktionslast oder bei besonders umfangreichen Tabellengrößen auftreten. Um diese Probleme nicht erst in der Produktionsumgebung, sondern bereits während der Softwareentwicklung erkennen und lösen zu können, sind eine Reihe von Maßnahmen

  Efficient Go Bartlomiej Plotka,2022-11-09 With technological advancements, fast markets, and higher complexity of systems, software engineers tend to skip the uncomfortable topic of software efficiency. However, tactical, observability-driven performance optimizations are vital for every product to save money and ensure business success. With this book, any engineer can learn how to approach software efficiency effectively, professionally, and without stress. Author Bartłomiej Płotka provides the tools and knowledge required to make your systems faster and less resource-hungry. Efficient Go guides you in achieving better day-to-day efficiency using Go. In addition, most content is language-agnostic, allowing you to bring small but effective habits to your programming or product management cycles. This book shows you how to: Clarify and negotiate efficiency goals Optimize efficiency on various levels Use common resources like CPU and memory effectively Assess efficiency using observability signals like metrics, logging, tracing, and (continuous) profiling via open source projects like Prometheus, Jaeger, and Parca Apply tools like go test, pprof, benchstat, and

k6 to create reliable micro and macro benchmarks Efficiently use Go and its features like slices, generics, goroutines, allocation semantics, garbage collection, and more!

Hands-On Software Engineering with Python Brian Allbee,2018-10-26 Explore various verticals in software engineering through high-end systems using Python Key FeaturesMaster the tools and techniques used in software engineeringEvaluates available database options and selects one for the final Central Office system-componentsExperience the iterations software go through and craft enterprise-grade systemsBook Description Software Engineering is about more than just writing code—it includes a host of soft skills that apply to almost any development effort, no matter what the language, development methodology, or scope of the project. Being a senior developer all but requires awareness of how those skills, along with their expected technical counterparts, mesh together through a project's life cycle. This book walks you through that discovery by going over the entire life cycle of a multi-tier system and its related software projects. You'll see what happens before any development takes place, and what impact the decisions and designs made at each step have on the development process. The development of the entire project, over the course of several iterations based on real-world Agile iterations, will be executed, sometimes starting from nothing, in one of the fastest growing languages in the world—Python. Application of practices in Python will be laid out, along with a number of Python-specific capabilities that are often overlooked. Finally, the book will implement a high-performance computing solution, from first principles through complete foundation. What you will learnUnderstand what happens over the course of a system's life (SDLC)Establish what to expect from the pre-development life cycle stepsFind out how the development-specific phases of the SDLC affect developmentUncover what a real-world development process might be like, in an Agile wayFind out how to do more

than just write the codeIdentify the existence of project-independent best practices and how to use themFind out how to design and implement a high-performance computing processWho this book is for Hands-On Software Engineering with Python is for you if you are a developer having basic understanding of programming and its paradigms and want to skill up as a senior programmer. It is assumed that you have basic Python knowledge.

Planning Smarter Tyson Gill,2002 Annotation This book provides simple techniques that anyone can follow, without having to learn specialized planning theory and tools. It de-mystifies the planning process and cuts out the fluff. If you are a project planner or manager, this book will shift your project planning mindsets. If you are a developer, it will help you understand how to influence the planning process to deliver specifications you can truly use. If you are on the customer side of the planning process, this book is essential reading to understand what you can do and what you should expect to maximize your planning and development investment. Tech Talk: The planning stage of software development entails obtaining all the relevant data and materials to create effective and efficient software. The process of designing software is complex enough in the implementation and design phase, it needs not be further complicated by poor planning stage techniques.

Embracing the Melody of Expression: An Psychological Symphony within **Efficient Software**

In a global used by displays and the ceaseless chatter of instant conversation, the melodic splendor and emotional symphony created by the prepared term often fade in to the background, eclipsed by the persistent noise and interruptions that permeate our lives. But, set within the pages of **Efficient Software** a

charming fictional treasure filled with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this charming masterpiece conducts readers on a mental trip, skillfully unraveling the concealed tunes and profound influence resonating within each cautiously crafted phrase. Within the depths with this moving analysis, we shall discover the book is main harmonies, analyze its enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

Table of Contents Efficient Software

Efficient Software Introduction

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