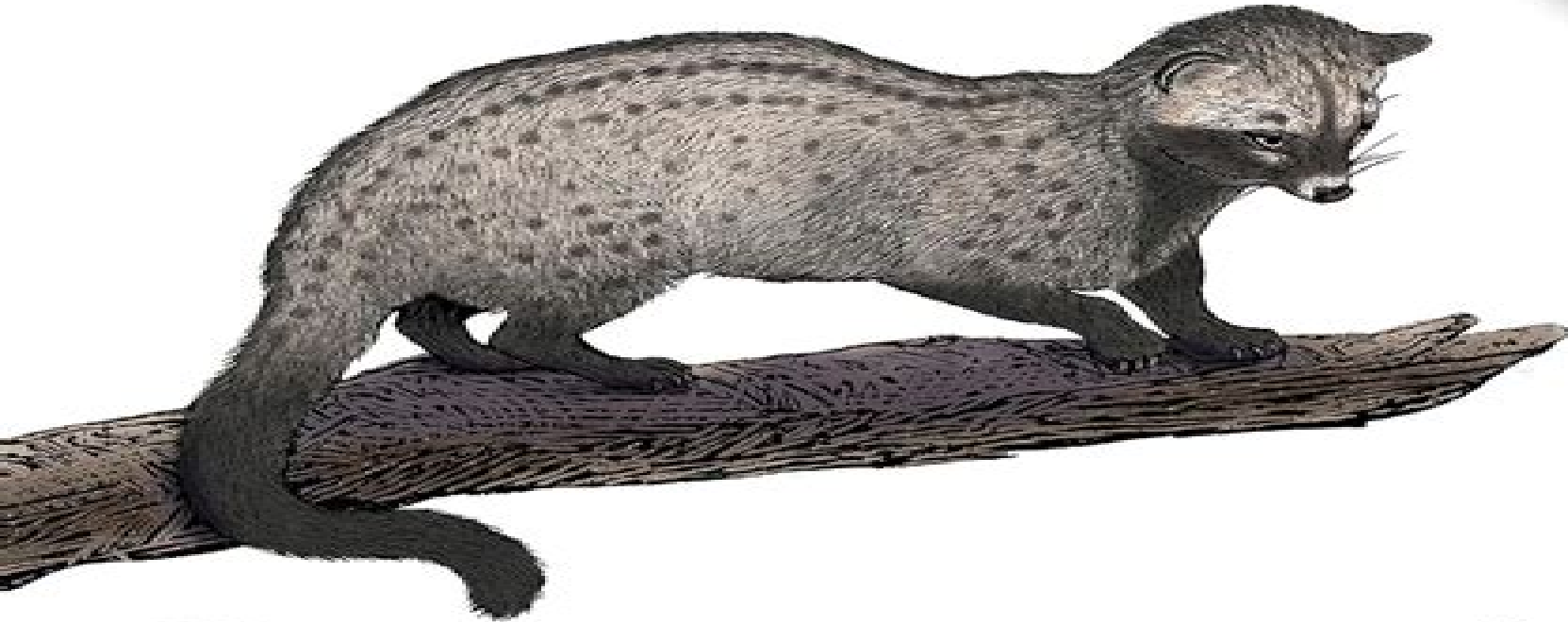


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Asynchronous, Parallel, and Multithreaded
Programming

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Concurrency In C Cookbook

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Concurrency in C# Cookbook Stephen Cleary (Web developer), 2014 **Head First C#** Andrew Stellman, Jennifer Greene, 2020-12-04 What will you learn from this book? Dive into C# and create apps, user interfaces, games, and more using this fun and highly visual introduction to C# .NET Core and Visual Studio. With this completely updated guide, which covers C# 8.0 and Visual Studio 2019, beginning programmers like you will build a fully functional game in the opening chapter. Then you'll learn how to use classes and object-oriented programming, create 3D games in Unity, and query data with LINQ. And you'll do it all by solving puzzles, doing hands-on exercises, and building real-world applications. By the time you're done, you'll be a solid C# programmer, and you'll have a great time along the way. What's so special about this book? Based on the latest research in cognitive science and learning theory, *Head First C#* uses a visually rich format to engage your mind rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works.

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Hands-On Design Patterns with C++

Fedor G. Pikus, 2023-07-21 A comprehensive guide with extensive coverage of concepts such as OOP functional programming generic programming concurrency and STL along with the latest features of C Purchase of the print or Kindle book includes a free PDF eBook Key Features Delve into the core patterns and components of C to master application design Learn tricks techniques and best practices to solve common design and architectural challenges Understand the limitation imposed by C and how to solve them using design patterns Book Description C is a general purpose programming language designed for efficiency performance and flexibility Design patterns are commonly accepted solutions to well recognized design problems In essence they are a library of reusable components only for software architecture and not for a concrete implementation This book helps you focus on the design patterns that naturally adapt to your needs and on the patterns that uniquely benefit from the features of C Armed with the knowledge of these patterns you ll spend less time searching for solutions to common problems and tackle challenges with the solutions developed from experience You ll also explore that design patterns are a concise and efficient way to communicate as patterns are a familiar and recognizable solution to a specific problem and can convey a considerable amount of information with a single line of code By the end of this book you ll have a deep understanding of how to use design patterns to write maintainable robust and reusable software What you will learn Recognize the most common design patterns used in C Understand how to use C generic programming to solve common design problems Explore the most powerful C idioms their strengths and their drawbacks Rediscover how to use popular C idioms with generic programming Discover new patterns and idioms made possible by language features of C 17 and C 20

Understand the impact of design patterns on the program's performance Who this book is for This book is for experienced C developers and programmers who wish to learn about software design patterns and principles and apply them to create robust reusable and easily maintainable programs and software systems Expert C++ Marcelo Guerra Hahn,Araks Tigranyan,John Asatryan,Vardan Grigoryan,Shunguang Wu,2023-08-25 Take your C skills to the next level with expert insights on advanced techniques design patterns and high performance programming Purchase of the print or Kindle book includes a free PDF eBook Key Features Master templates metaprogramming and advanced functional programming techniques to elevate your C skills Design scalable and efficient C applications with the latest features of C 17 and C 20 Explore real world examples and essential design patterns to optimize your code Book DescriptionAre you an experienced C developer eager to take your skills to the next level This updated edition of Expert C is tailored to propel you toward your goals This book takes you on a journey of building C applications while exploring advanced techniques beyond object oriented programming Along the way you'll get to grips with designing templates including template metaprogramming and delve into memory management and smart pointers Once you have a solid grasp of these foundational concepts you'll advance to more advanced topics such as data structures with STL containers and explore advanced data structures with C Additionally the book covers essential aspects like functional programming concurrency and multithreading and designing concurrent data structures It also offers insights into designing world ready applications incorporating design patterns and addressing networking and security concerns Finally it adds to your knowledge of debugging and testing and large scale application design With Expert C as your guide you'll be empowered to push the boundaries of your C expertise and unlock new possibilities in software development What you will learn Go beyond the basics to explore advanced C programming techniques Develop proficiency in advanced data structures and algorithm design with C 17 and C 20 Implement best practices and design patterns to build scalable C applications Master C for machine learning data science and data analysis framework design Design world ready applications incorporating networking and security considerations Strengthen your understanding of C concurrency multithreading and optimizing performance with concurrent data structures Who this book is forThis book will empower experienced C developers to achieve advanced proficiency enabling them to build professional grade applications with the latest features of C 17 and C 20 If you're an aspiring software engineer or computer science student you'll be able to master advanced C programming techniques through real world applications that will prepare you for complex projects and real world challenges *Template Metaprogramming with C++* Marius Bancila,2022-08-19 Understand how to use modern C templates for writing maintainable robust and fast software Key Features Grasp the fundamentals of and learn to write effective C templates Get up to speed with the latest C 20 template features such as constraints and concepts Explore different patterns and idioms to integrate templates in your program design Book Description Learn how the metaprogramming technique enables you to create data structures and functions that allow

computation to happen at compile time With this book you ll realize how templates help you avoid writing duplicate code and are key to creating generic libraries such as the standard library or Boost that can be used in a multitude of programs The introductory chapters of this book will give you insights into the fundamentals of templates and metaprogramming You ll then move on to practice writing complex templates and exploring advanced concepts such as template recursion template argument deduction forwarding references type traits and conditional compilation Along the way you ll learn how to write variadic templates and how to provide requirements to the template arguments with C 20 constraints and concepts Finally you ll apply your knowledge of C metaprogramming templates to implement various metaprogramming patterns and techniques By the end of this book you ll have learned how to write effective templates and implement metaprogramming in your everyday programming journey What you will learn Understand the syntax for all types of templates Discover how specialization and instantiation works Get to grips with template argument deduction and forwarding references Write variadic templates with ease Become familiar with type traits and conditional compilation Restrict template arguments in C 20 with constraints and concepts Implement patterns such as CRTP mixins and tag dispatching Who this book is for This book is for beginner to intermediate C developers who want to learn about template metaprogramming as well as advanced C developers looking to get up to speed with the new C 20 features related to templates and the the various idioms and patterns Basic C coding experience is necessary to get started with this book

The Software Optimization Cookbook

Richard Gerber,2002 Revealing the secrets of the software tuning process The Software Optimization Cookbook provides recipes for high performance applications on the Intel Pentium III and Pentium 4 processors Simple explanations and C language examples show you how to address performance issues with algorithms memory access branching SIMD instructions multiple threads and floating point calculations With this book you need not be a processor architect or assembly language expert to get the full power out of your software on the 32 bit Intel Architecture Learn how to Use performance tools and tested concepts to analyze and improve applications Determine which portions of an application should be given highest priority for optimizations Identify the reasons that certain portions of your application are slower than they should be Improve an application by working directly on the root cause of a software bottleneck Design an application from the ground up for maximum performance

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to achieve the goal of extending C programs at runtime You ll learn in sequence how to get and compile the Lua library the Lua programming language calling Lua code from C and calling C code from Lua In each topic you ll practice with code examples and learn the in depth mechanisms for smooth working Throughout the book the latter examples build on the earlier ones while also acting as a standalone You ll learn to implement Lua executor and Lua binding generator which you can use in your projects directly with further customizations By the end of this book you ll have mastered integrating Lua into C and using Lua in your C project efficiently gained the skills to extend your applications at runtime and achieved dynamic and adaptable C development What you will learn Explore how to access and compile Lua source code Call Lua code from C for enhanced functionality Integrate C code into Lua for powerful interactions Deepen your understanding of Lua stack for advanced usage Implement a project ready Lua executor and binding generator Extend C projects with customizable and extensible Lua scripting Who this book is for This book is for C developers seeking to seamlessly integrate Lua learn the Lua programming language by examples or enhance their understanding of Lua C interaction Basic knowledge of C is required to fully benefit from this book

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functions handling files and using a database Finally the book will take you through advanced concepts such as concurrency and interprocess communication By the end of this book you ll have a clear understanding and deeper knowledge of C programming which will help you become a better developer What you will learn Manipulate single and multi dimensional arrays Perform complex operations on strings Understand how to use pointers and memory optimally Discover how to use arrays functions and strings to make large applications Implement multitasking using threads and process synchronization Establish communication between two or more processes using different techniques Store simple text in files and store data in a database Who this book is for If you re a programmer with basic experience in C and want to leverage its features through modern programming practices then this book is for you [Java 7 Concurrency Cookbook](#) Javier Fernández González,Javier Fernandez,2012 Java 7 Concurrency Cookbook is a practical Cookbook packed with real world solutions Intermediate advanced level Java developers will learn from task based recipes to use Java s concurrent API to program thread safe solutions If you are a Java developer who wants to take your knowledge of concurrent programming and multithreading further as well as discover the new concurrency features of Java 7 then Java 7 Concurrency Cookbook is for you You should already be comfortable with general Java development practices and a basic grasp of threads would be an advantage [MSDN Magazine](#) ,2001 **Advanced C++ Programming Cookbook** Rian Quinn,2020-01-30 A recipe based guide to refining your C programming skills with the help of coding best practices advanced programming concepts and the latest features of C 17 and C 20 Key Features Learn how to develop and design your own libraries Find solutions to your app development problems and implement them in a highly reusable manner following library development best practices Explore advanced C features such as containers coroutines and modules Book Description If you think you ve mastered C and know everything it takes to write robust applications you ll be in for a surprise With this book you ll gain comprehensive insights into C covering exclusive tips and interesting techniques to enhance your app development process You ll kick off with the basic principles of library design and development which will help you understand how to write reusable and maintainable code You ll then discover the importance of exception safety and how you can avoid unexpected errors or bugs in your code The book will take you through the modern elements of C such as move semantics type deductions and coroutines As you advance you ll delve into template programming the standard tool for most library developers looking to achieve high code reusability You ll explore the STL and learn how to avoid common pitfalls while implementing templates Later you ll learn about the problems of multithreaded programming such as data races deadlocks and thread starvation You ll also learn high performance programming by using benchmarking tools and libraries Finally you ll discover advanced techniques for debugging and testing to ensure code reliability By the end of this book you ll have become an expert at C programming and will have gained the skills to solve complex development problems with ease What you will learn Solve common C development problems by implementing solutions in a more generic and reusable way Achieve different levels of

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Table of Contents Concurrency In C Cookbook

1. Understanding the eBook Concurrency In C Cookbook
 - The Rise of Digital Reading Concurrency In C Cookbook
 - Advantages of eBooks Over Traditional Books
2. Identifying Concurrency In C Cookbook
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Concurrency In C Cookbook
 - User-Friendly Interface
4. Exploring eBook Recommendations from Concurrency In C Cookbook
 - Personalized Recommendations
 - Concurrency In C Cookbook User Reviews and Ratings
 - Concurrency In C Cookbook and Bestseller Lists

5. Accessing Concurrency In C Cookbook Free and Paid eBooks
 - Concurrency In C Cookbook Public Domain eBooks
 - Concurrency In C Cookbook eBook Subscription Services
 - Concurrency In C Cookbook Budget-Friendly Options
6. Navigating Concurrency In C Cookbook eBook Formats
 - ePub, PDF, MOBI, and More
 - Concurrency In C Cookbook Compatibility with Devices
 - Concurrency In C Cookbook Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Concurrency In C Cookbook
 - Highlighting and Note-Taking Concurrency In C Cookbook
 - Interactive Elements Concurrency In C Cookbook
8. Staying Engaged with Concurrency In C Cookbook
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Concurrency In C Cookbook
9. Balancing eBooks and Physical Books Concurrency In C Cookbook
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Concurrency In C Cookbook
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Concurrency In C Cookbook
 - Setting Reading Goals Concurrency In C Cookbook
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Concurrency In C Cookbook
 - Fact-Checking eBook Content of Concurrency In C Cookbook
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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