Low-Level Programming

C, Assembly, and Program Execution on
Intel® 64 Architecture

Igor Zhirkov

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Léo Pomar

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  Low-Level Programming Igor Zhirkov,2017-06-04 This book teaches programmers and programming students how to use x64 assembly to write low level code in C for performance critical programs and how to compile and execute it inside the Intel 64 hardware and OS framework Low Level Programming presents Intel 64 architecture as a development of von Neumann architecture featuring protection mechanisms and performance amplifiers such as caches and branch predicting It proceeds to investigate the compilation cycle and ELF object files Elucidating a structured approach to C with code examples exercises and a companion annex of source code the book models best coding practices for implementing language abstractions on top of assembly The author examines the optimization capabilities and limits of modern compilers and he demonstrates the use of various performance gain techniques such as specialized instructions and prefetching What Readers Will LearnLow Level Programming teaches programmers how to use assembly language and C to write code for Intel 64 platforms and to look under the hood for various purposes including the following Making code more performant on the assembly level Debugging compiler and optimizer errors in native code Fixing executables by disassembly in the absence of source code Diagnosing malware Who This Book Is ForIntermediate to advanced programmers and programming students

  Low-Level Programming Igor Zhirkov,2017-06-27 Learn Intel 64 assembly language and architecture become proficient in C and understand how the programs are compiled and executed down to machine instructions enabling you to write robust high performance code Low Level Programming explains Intel 64 architecture as the result of von Neumann architecture evolution The book teaches the latest version of the C language C11 and assembly language from scratch It covers the entire path from source code to program execution including generation of ELF object files and static and dynamic linking Code examples and exercises are included along with the best code practices Optimization capabilities and limits of modern compilers are examined enabling you to balance between program readability and performance The use of various performance gain techniques is demonstrated such as SSE instructions and pre fetching Relevant Computer Science topics such as models of computation andformal grammars are addressed and their practical value explained What You ll Learn Low Level Programming teaches programmers to Freely write in assembly language Understand the programming model of Intel 64 Write maintainable and robust code in C11 Follow the compilation process and decipher assembly listings Debug errors in compiled assembly code Use appropriate models of computation to greatly reduce program complexity Write performance critical code Comprehend the impact of a weak memory model in multi threaded applications Who This Book Is For Intermediate to advanced programmers and programming students   Beginning Java 8 Fundamentals Kishori Sharan,2014-06-24 Beginning Java 8 Fundamentals provides a comprehensive approach to learning the Java programming language especially the object oriented fundamentals necessary at all levels of Java development Author Kishori Sharan provides over 90 diagrams and 240 complete programs to help beginners and intermediate level programmers learn the

topics faster Starting with basic programming concepts the author walks you through writing your first Java program step by step Armed with that practical experience you ll be ready to learn the core of the Java language The book continues with a series of foundation topics including using data types working with operators and writing statements in Java These basics lead onto the heart of the Java language object oriented programming By learning topics such as classes objects interfaces and inheritance you ll have a good understanding of Java s object oriented model The final collection of topics takes what you ve learned and turns you into a real Java programmer You ll see how to take the power of object oriented programming and write programs that can handle errors and exceptions process strings and dates format data and work with arrays to manipulate data   **Gale Encyclopedia of E-commerce** Jane A. Malonis,2002 Provides access to the world of Internet commerce and addresses the concerns of those who want to join the ranks of the Internet business community Presents answers to common questions about website development financing advertising and more Features 470 essays covering topics and terms profiles of the top e commerce companies biographies of e commerce innovators and coverage of events and legislation related to e commerce   **Learn to Program with C** Noel Kalicharan,2015-12-16 This book teaches computer programming to the complete beginner using the native C language As such it assumes you have no knowledge whatsoever about programming The main goal of this book is to teach fundamental programming principles using C one of the most widely used programming languages in the world today We discuss only those features and statements in C that are necessary to achieve our goal Once you learn the principles well they can be applied to any language If you are worried that you are not good at high school mathematics don t be It is a myth that you must be good at mathematics to learn programming C is considered a modern language even though its roots date back to the 1970s Originally C was designed for writing systems programs things like operating systems editors compilers assemblers and input output utility programs But today C is used for writing all kinds of applications programs as well word processing programs spreadsheet programs database management programs accounting programs games robots embedded systems electronics i e Arduino educational software the list is endless Note Appendices A D are available as part of the free source code download at the Apress website What You Will Learn How to get started with programming using the C language How to use the basics of C How to program with sequence selection and repetition logic How to work with characters How to work with functions How to use arrays Who This Book Is For This book is intended for anyone who is learning programming for the first time   **Beginning Java 9 Fundamentals** Kishori Sharan,2017-11-01 Learn the basics of Java 9 including basic programming concepts and the object oriented fundamentals necessary at all levels of Java development Author Kishori Sharan walks you through writing your first Java program step by step Armed with that practical experience you ll be ready to learn the core of the Java language Beginning Java 9 Fundamentals provides over 90 diagrams and 240 complete programs to help you learn the topics faster The book continues with a series of foundation topics including using data types working with operators and writing

statements in Java These basics lead onto the heart of the Java language object oriented programming By learning topics such as classes objects interfaces and inheritance you ll have a good understanding ofJava s object oriented model The final collection of topics takes what you ve learned and turns you into a real Java programmer You ll see how to take the power of object oriented programming and write programs that can handle errors and exceptions process strings and dates format data and work with arrays to manipulate data This book is a companion to two other books also by Sharan focusing on APIs and advanced Java topics What You ll Learn Write your first Java programs with an emphasis on learning object oriented programming in Java Work with data types operators statements classes and objects Handle exceptions assertions strings and dates and object formatting Use regular expressions Work with arrays interfaces enums and inheritance Take advantage of the new JShell REPL tool Who This Book Is For Those who are new to Java programming who may have some or even no prior programming experience *Ivor Horton's Beginning ANSI C++* Ivor Horton,2008-01-01 Written in the same style that has made Ivor Horton a best selling author this third edition of his popular title is a comprehensive ground up tutorial The third edition has been completely revised and updated and is ideal for self taught students and scholars enrolled in structured courses The text and examples are progressive each topic builds and expands upon the previous topic Further the book provides in depth coverage of class templates including an introduction to the Standard Template Library No prior knowledge of any particular programming language is assumed the only requirement is a basic appreciation of elementary programming concepts If you understand the basic notions of how programs worklike branching and loopingthis book is for you Horton demonstrates all language elements with complete working code examples and includes practice exercises at the end of each chapter **Sensor Technologies** Michael J. McGrath,Cliodhna Ni Scanaill,Dawn Nafus,2014-01-23 Sensor Technologies Healthcare Wellness and Environmental Applications explores the key aspects of sensor technologies covering wired wireless and discrete sensors for the specific application domains of healthcare wellness and environmental sensing It discusses the social regulatory and design considerations specific to these domains The book provides an application based approach using real world examples to illustrate the application of sensor technologies in a practical and experiential manner The book guides the reader from the formulation of the research question through the design and validation process to the deployment and management phase of sensor applications The processes and examples used in the book are primarily based on research carried out by Intel or joint academic research programs Sensor Technologies Healthcare Wellness and Environmental Applications provides an extensive overview of sensing technologies and their applications in healthcare wellness and environmental monitoring From sensor hardware to system applications and case studies this book gives readers an in depth understanding of the technologies and how they can be applied I would highly recommend it to students or researchers who are interested in wireless sensing technologies and the associated applications Dr Benny Lo Lecturer The Hamlyn Centre Imperial College of London This timely addition to the literature on sensors covers the broad complexity of

sensing sensor types and the vast range of existing and emerging applications in a very clearly written and accessible manner It is particularly good at capturing the exciting possibilities that will occur as sensor networks merge with cloud based big data analytics to provide a host of new applications that will impact directly on the individual in ways we cannot fully predict at present It really brings this home through the use of carefully chosen case studies that bring the overwhelming concept of big data down to the personal level of individual life and health Dermot Diamond Director National Centre for Sensor Research Principal Investigator CLARITY Centre for Sensor Web Technologies Dublin City University Sensor Technologies Healthcare Wellness and Environmental Applications takes the reader on an end to end journey of sensor technologies covering the fundamentals from an engineering perspective introducing how the data gleaned can be both processed and visualized in addition to offering exemplar case studies in a number of application domains It is a must read for those studying any undergraduate course that involves sensor technologies It also provides a thorough foundation for those involved in the research and development of applied sensor systems I highly recommend it to any engineer who wishes to broaden their knowledge in this area Chris Nugent Professor of Biomedical Engineering University of Ulster

Dr. Dobb's Journal ,2000 **C# Deconstructed** Mohammad Rahman,2014-09-30 C Deconstructed answers a seemingly simply question Just what is going on exactly when you run C code on the NET Framework To answer this question we will dig ever deeper into the structure of the C language and the onion skin abstraction layers of the NET Framework that underpins it We ll follow the execution thread downwards first to MSIL Microsoft Intermediate Language then down through just in time compilation into Machine Code before finally seeing the results executed at the hardware level The aim of this deep dive is to provide you with a much more rounded knowledge of the environment within which you code exists As a managed language it s best practice to let the Framework deal with device interaction but you ll find the experience of taking the cover off once in a while a very rewarding one that will greatly enrich your appreciate of the C language and the way in which in functions EDN, Electrical Design News ,1983 **EDN** ,1983 **Robot Science & Technology** ,1998

Technical Digest ,1970 **Assembly Language Reimagined** John Schwartzman,2025-10-29 Learning assembly language won t make you a faster programmer It won t enable you to create portable write once run anywhere programs So why learn it The answer is that it will make you a better programmer Author John Schwartzman takes a fresh look at low level programming and explores how to write programs using the BIOS and glibc This laboratory based book aids the writing of high level structured programs by showing what the processor can and can t do and how it does it You ll take apart high level structured C C and show what the CPU is doing at every stage of the program The book introduces programs and activities throughout the development process providing sample code makefiles and shell scripts for each example program With the help of Assembly Language Reimagined you ll become a more capable and versatile computer engineer What You will Learn Explore a new perspective on the Intel x64 microprocessor for low level programming Understand what a

processor is doing while a high level structured computer language program is being run endif Solve problems with the help of software endif See why assembly language programming is essential for every serious student of computer science Who This Book Is For Embedded Linux and Assembly developers engineers and programmers hobbyists from the Maker community as well as college and graduate level students who have some prior knowledge of a structured high level language like C or C   *MSDN Magazine* ,2000   **Mastering Assembly Programming** Alexey Lyashko,2017-09-27 Incorporate the assembly language routines in your high level language applications Key Features Understand the Assembly programming concepts and the benefits of examining the AL codes generated from high level languages Learn to incorporate the assembly language routines in your high level language applications Understand how a CPU works when programming in high level languages Book DescriptionThe Assembly language is the lowest level human readable programming language on any platform Knowing the way things are on the Assembly level will help developers design their code in a much more elegant and efficient way It may be produced by compiling source code from a high level programming language such as C C but can also be written from scratch Assembly code can be converted to machine code using an assembler The first section of the book starts with setting up the development environment on Windows and Linux mentioning most common toolchains The reader is led through the basic structure of CPU and memory and is presented the most important Assembly instructions through examples for both Windows and Linux 32 and 64 bits Then the reader would understand how high level languages are translated into Assembly and then compiled into object code Finally we will cover patching existing code either legacy code without sources or a running code in same or remote process What you will learn Obtain deeper understanding of the underlying platform Understand binary arithmetic and logic operations Create elegant and efficient code in Assembly language Understand how to link Assembly code to outer world Obtain in depth understanding of relevant internal mechanisms of Intel CPU Write stable efficient and elegant patches for running processes Who this book is for This book is for developers who would like to learn about Assembly language Prior programming knowledge of C and C is assumed

ASTME Technical Digest American Society of Tool and Manufacturing Engineers,1990   *Congressional Quarterly Weekly Report* ,1960   The Software Encyclopedia ,1986

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