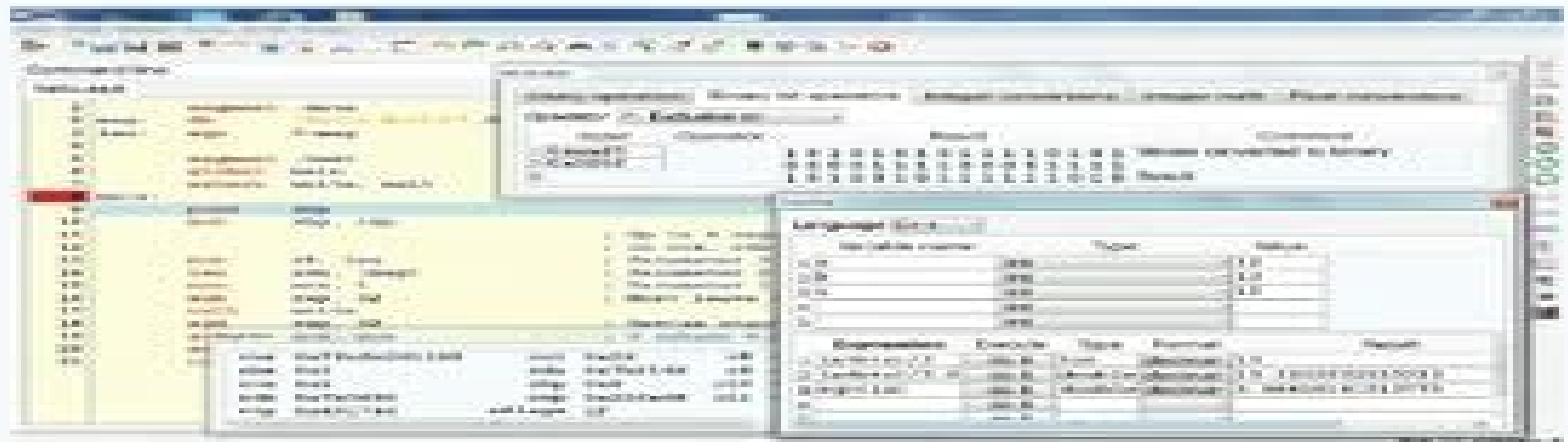# Introduction to 64 Bit Windows Assembly Programming

# Ray Seyfarth

# Introduction To 64 Bit Windows Assembly Programming By Ray

**Jo Van Hoey**

**Introduction To 64 Bit Windows Assembly Programming By Ray:**

**Introduction to 64 Bit Windows Assembly Programming** Ray Seyfarth,2014-10-06 This book introduces programmers to 64 bit Intel assembly language using the Microsoft Windows operating system The book also discusses how to use the free integrated development environment ebe designed by the author specifically to meet the needs of assembly language programmers Ebe is a C program which uses the Qt library to implement a GUI environment consisting of a source window a data window a register window a floating point register window a backtrace window a console window a terminal window a project window and a pair of teaching tools called the Toy Box and the Bit Bucket The source window includes a full featured text editor with convenient controls for assembling linking and debugging a program The project facility allows a program to be built from C source code files and assembly source files Assembly is performed automatically using the yasm assembler and linking is performed with ld or gcc Debugging operates by transparently sending commands into the gdb debugger while automatically displaying registers and variables after each debugging step The Toy Box allows the use to enter variable definitions and expressions in either C or Fortran and it builds a program to evaluate the expressions Then the user can inspect the format of each expression The Bit Bucket allows the user to explore how the computer stores and manipulates integers and floating point numbers Additional information about ebe can be found at http www rayseyfarth com The book is intended as a first assembly language book for programmers experienced in high level programming in a language like C or C The assembly programming is performed using the yasm assembler automatically from the ebe IDE under the Linux operating system The book primarily teaches how to write assembly code compatible with C programs The reader will learn to call C functions from assembly language and to call assembly functions from C in addition to writing complete programs in assembly language The gcc compiler is used internally to compile C programs The book starts early emphasizing using ebe to debug programs Being able to single step assembly programs is critical in learning assembly programming Ebe makes this far easier than using gdb directly Highlights of the book include doing input output programming using Windows API functions and the C library implementing data structures in assembly language and high performance assembly language programming Early chapters of the book rely on using the debugger to observe program behavior After a chapter on functions the user is prepared to use printf and scanf from the C library to perform I O The chapter on data structures covers singly linked lists doubly linked circular lists hash tables and binary trees Test programs are presented for all these data structures There is a chapter on optimization techniques and 3 chapters on specific optimizations One chapter covers how to efficiently count the 1 bits in an array with the most efficient version using the recently introduced popcnt instruction Another chapter covers using SSE instructions to create an efficient implementation of the Sobel filtering algorithm The final high performance programming chapter discusses computing correlation between data in 2 arrays There is an AVX implementation which achieves 20 5 GFLOPs on a single core of a Core i7 CPU A companion

web site http www rayseyfarth com has a collection of PDF slides which instructors can use for in class presentations and source code for sample programs     Introduction to 64 Bit Windows Assembly Language Programming Ray Seyfarth,2017-02-14 This book introduces programmers to 64 bit Intel assembly language using the Microsoft Windows operating system The book also discusses how to use the free integrated development environment ebe designed by the author specifically to meet the needs of assembly language programmers Ebe is a C program which uses the Qt library to implement a GUI environment consisting of a source window a data window a register window a floating point register window a backtrace window a console window a terminal window a project window and a pair of teaching tools called the Toy Box and the Bit Bucket The source window includes a full featured text editor with convenient controls for assembling linking and debugging a program The project facility allows a program to be built from C source code files and assembly source files Assembly is performed automatically using the yasm assembler and linking is performed with ld or gcc Debugging operates by transparently sending commands into the gdb debugger while automatically displaying registers and variables after each debugging step The Toy Box allows the use to enter variable definitions and expressions in either C or Fortran and it builds a program to evaluate the expressions Then the user can inspect the format of each expression The Bit Bucket allows the user to explore how the computer stores and manipulates integers and floating point numbers Additional information about ebe can be found at http www rayseyfarth com The book is intended as a first assembly language book for programmers experienced in high level programming in a language like C or C The assembly programming is performed using the yasm assembler automatically from the ebe IDE under the Linux operating system The book primarily teaches how to write assembly code compatible with C programs The reader will learn to call C functions from assembly language and to call assembly functions from C in addition to writing complete programs in assembly language The gcc compiler is used internally to compile C programs The book starts early emphasizing using ebe to debug programs Being able to single step assembly programs is critical in learning assembly programming Ebe makes this far easier than using gdb directly Highlights of the book include doing input output programming using Windows API functions and the C library implementing data structures in assembly language and high performance assembly language programming Early chapters of the book rely on using the debugger to observe program behavior After a chapter on functions the user is prepared to use printf and scanf from the C library to perform I O The chapter on data structures covers singly linked lists doubly linked circular lists hash tables and binary trees Test programs are presented for all these data structures There is a chapter on optimization techniques and 3 chapters on specific optimizations One chapter covers how to efficiently count the 1 bits in an array with the most efficient version using the recently introduced popcnt instruction Another chapter covers using SSE instructions to create an efficient implementation of the Sobel filtering algorithm The final high performance programming chapter discusses computing correlation between data in 2 arrays There is an AVX implementation which achieves 20 5 GFLOPs on a

single core of a Core i7 CPU A companion web site http www rayseyfarth com has a collection of PDF slides which instructors can use for in class presentations and source code for sample programs **Learning Malware Analysis** Monnappa K A,2018-06-29 Understand malware analysis and its practical implementation Key Features Explore the key concepts of malware analysis and memory forensics using real world examples Learn the art of detecting analyzing and investigating malware threats Understand adversary tactics and techniques Book Description Malware analysis and memory forensics are powerful analysis and investigation techniques used in reverse engineering digital forensics and incident response With adversaries becoming sophisticated and carrying out advanced malware attacks on critical infrastructures data centers and private and public organizations detecting responding to and investigating such intrusions is critical to information security professionals Malware analysis and memory forensics have become must have skills to fight advanced malware targeted attacks and security breaches This book teaches you the concepts techniques and tools to understand the behavior and characteristics of malware through malware analysis It also teaches you techniques to investigate and hunt malware using memory forensics This book introduces you to the basics of malware analysis and then gradually progresses into the more advanced concepts of code analysis and memory forensics It uses real world malware samples infected memory images and visual diagrams to help you gain a better understanding of the subject and to equip you with the skills required to analyze investigate and respond to malware related incidents What you will learn Create a safe and isolated lab environment for malware analysis Extract the metadata associated with malware Determine malware s interaction with the system Perform code analysis using IDA Pro and x64dbg Reverse engineer various malware functionalities Reverse engineer and decode common encoding encryption algorithms Reverse engineer malware code injection and hooking techniques Investigate and hunt malware using memory forensics Who this book is for This book is for incident responders cyber security investigators system administrators malware analyst forensic practitioners student or curious security professionals interested in learning malware analysis and memory forensics Knowledge of programming languages such as C and Python is helpful but is not mandatory If you have written few lines of code and have a basic understanding of programming concepts you ll be able to get most out of this book **Hacker Disassembling Uncovered, 2nd ed** Kris Kaspersky,2007 Going beyond the issues of analyzing and optimizing programs as well as creating the means of protecting information this guide takes on the programming problem of how to go about disassembling a program with holes without its source code Detailing hacking methods used to analyze programs using a debugger and disassembler such as virtual functions local and global variables branching loops objects and their hierarchy and mathematical operators this guide covers methods of fighting disassemblers self modifying code in operating systems and executing code in the stack Advanced disassembler topics such as optimizing compilers and movable code are discussed as well and a CD ROM that contains illustrations and the source codes for the programs is also included *Introduction to 64 Bit Intel Assembly Language Programming for Linux* Ray Seyfarth,2012 This

is the second edition of this assembly language programming textbook introducing programmers to 64 bit Intel assembly language The primary addition to the second edition is the discussion of the free integrated development environment ebe designed by the author specifically to meet the needs of assembly language programmers Ebe is a Python program which uses the Tkinter and Pwm widget sets to implement a GUI environment consisting of a source window a data window a registers window a console window a terminal window and a project window The source window includes a full featured text editor with convenient controls for assembling linking and debugging a program The project facility allows a program to be built from C source code files and assembly source files Assembly is performed automatically using the yasm assembler and linking is performed with ld or gcc Debugging operates by transparently sending commands into the gdb debugger while automatically displaying registers and variables after each debugging step Additional information about ebe can be found at http www rayseyfarth com The book is intended as a first assembly language book for programmers experienced in high level programming in a language like C or C The assembly programming is performed using the yasm assembler automatically from the ebe IDE under the Linux operating system The book primarily teaches how to write assembly code compatible with C programs The reader will learn to call C functions from assembly language and to call assembly functions from C in addition to writing complete programs in assembly language The gcc compiler is used internally to compile C programs The book starts early emphasizing using ebe to debug programs along with teaching equivalent commands using gdb Being able to single step assembly programs is critical in learning assembly programming Ebe makes this far easier than using gdb directly Highlights of the book include doing input output programming using the Linux system calls and the C library implementing data structures in assembly language and high performance assembly language programming Early chapters of the book rely on using the debugger to observe program behavior After a chapter on functions the user is prepared to use printf and scanf from the C library to perform I O The chapter on data structures covers singly linked lists doubly linked circular lists hash tables and binary trees Test programs are presented for all these data structures There is a chapter on optimization techniques and 3 chapters on specific optimizations One chapter covers how to efficiently count the 1 bits in an array with the most efficient version using the recently introduced popcnt instruction Another chapter covers using SSE instructions to create an efficient implementation of the Sobel filtering algorithm The final high performance programming chapter discusses computing correlation between data in 2 arrays There is an AVX implementation which achieves 20 5 GFLOPs on a single core of a Core i7 CPU A companion web site http www rayseyfarth com has a collection of PDF slides which instructors can use for in class presentations and source code for sample programs **Introduction to 64 Bit Assembly Programming for Linux and OS X** Ray Seyfarth,2014-06-30 This is the third edition of this assembly language programming textbook introducing programmers to 64 bit Intel assembly language The primary addition to the third edition is the discussion of the new version of the free integrated development environment ebe designed by the author specifically

to meet the needs of assembly language programmers The new ebe is a C program using the Qt library to implement a GUI environment consisting of a source window a data window a register a floating point register window a backtrace window a console window a terminal window and a project window along with 2 educational tools called the toy box and the bit bucket The source window includes a full featured text editor with convenient controls for assembling linking and debugging a program The project facility allows a program to be built from C source code files and assembly source files Assembly is performed automatically using the yasm assembler and linking is performed with ld or gcc Debugging operates by transparently sending commands into the gdb debugger while automatically displaying registers and variables after each debugging step Additional information about ebe can be found at http www rayseyfarth com The second important addition is support for the OS X operating system Assembly language is similar enough between the two systems to cover in a single book The book discusses the differences between the systems The book is intended as a first assembly language book for programmers experienced in high level programming in a language like C or C The assembly programming is performed using the yasm assembler automatically from the ebe IDE under the Linux operating system The book primarily teaches how to write assembly code compatible with C programs The reader will learn to call C functions from assembly language and to call assembly functions from C in addition to writing complete programs in assembly language The gcc compiler is used internally to compile C programs The book starts early emphasizing using ebe to debug programs along with teaching equivalent commands using gdb Being able to single step assembly programs is critical in learning assembly programming Ebe makes this far easier than using gdb directly Highlights of the book include doing input output programming using the Linux system calls and the C library implementing data structures in assembly language and high performance assembly language programming Early chapters of the book rely on using the debugger to observe program behavior After a chapter on functions the user is prepared to use printf and scanf from the C library to perform I O The chapter on data structures covers singly linked lists doubly linked circular lists hash tables and binary trees Test programs are presented for all these data structures There is a chapter on optimization techniques and 3 chapters on specific optimizations One chapter covers how to efficiently count the 1 bits in an array with the most efficient version using the recently introduced popcnt instruction Another chapter covers using SSE instructions to create an efficient implementation of the Sobel filtering algorithm The final high performance programming chapter discusses computing correlation between data in 2 arrays There is an AVX implementation which achieves 20 5 GFLOPs on a single core of a Core i7 CPU A companion web site http www rayseyfarth com has a collection of PDF slides which instructors can use for in class presentations and source code for sample programs

*The Art of 64-Bit Assembly, Volume 1* Randall Hyde,2021-11-30 A new assembly language programming book from a well loved master Art of 64 bit Assembly Language capitalizes on the long lived success of Hyde s seminal The Art of Assembly Language Randall Hyde s The Art of Assembly Language has been the go to book for learning assembly language for decades

Hyde s latest work Art of 64 bit Assembly Language is the 64 bit version of this popular text This book guides you through the maze of assembly language programming by showing how to write assembly code that mimics operations in High Level Languages This leverages your HLL knowledge to rapidly understand x86 64 assembly language This new work uses the Microsoft Macro Assembler MASM the most popular x86 64 assembler today Hyde covers the standard integer set as well as the x87 FPU SIMD parallel instructions SIMD scalar instructions including high performance floating point instructions and MASM s very powerful macro facilities You ll learn in detail how to implement high level language data and control structures in assembly language how to write parallel algorithms using the SIMD single instruction multiple data instructions on the x86 64 and how to write stand alone assembly programs and assembly code to link with HLL code You ll also learn how to optimize certain algorithms in assembly to produce faster code      Beginning x64 Assembly Programming Jo Van Hoey,2019-10-31 Program in assembly starting with simple and basic programs all the way up to AVX programming By the end of this book you will be able to write and read assembly code mix assembly with higher level languages know what AVX is and a lot more than that The code used in Beginning x64 Assembly Programming is kept as simple as possible which means no graphical user interfaces or whistles and bells or error checking Adding all these nice features would distract your attention from the purpose learning assembly language The theory is limited to a strict minimum a little bit on binary numbers a short presentation of logical operators and some limited linear algebra And we stay far away from doing floating point conversions The assembly code is presented in complete programs so that you can test them on your computer play with them change them break them This book will also show you what tools can beused how to use them and the potential problems in those tools It is not the intention to give you a comprehensive course on all of the assembly instructions which is impossible in one book look at the size of the Intel Manuals Instead the author will give you a taste of the main items so that you will have an idea about what is going on If you work through this book you will acquire the knowledge to investigate certain domains more in detail on your own The majority of the book is dedicated to assembly on Linux because it is the easiest platform to learn assembly language At the end the author provides a number of chapters to get you on your way with assembly on Windows You will see that once you have Linux assembly under your belt it is much easier to take on Windows assembly This book should not be the first book you read on programming if you have never programmed before put this book aside for a while and learn some basics of programming with a higher level language such as C What You Will Learn Discover how a CPU and memory works Appreciate how a computer and operating system work together See how high level language compilers generate machine language and use that knowledge to write more efficient code Be better equipped to analyze bugs in your programs Get your program working which is the fun part Investigate malware and take the necessary actions and precautions Who This Book Is For Programmers in high level languages It is also for systems engineers and security engineers working for malware investigators Required knowledge Linux Windows virtualization and higher level

programming languages preferably C or C     Introduction to 64 Bit Intel Assembly Language Programming Ray Seyfarth,2011-07-01 This is a textbook for teaching introductory assembly language using the 64 bit instruction set for modern Intel and AMD CPUs It assumes that users are familiar with C or C programming The software tools used are the yasm assembler the gcc compiler the gdb debugger and the Linux operating system The code targets Linux though there are only minor differences in function call protocol between Linux and WIndows These are discussed in the book though there is no attempt to make the book apply equally well to both systems Mac OS X users might have an easier time since the function call semantics are the same as for Linux It starts with basic concepts and builds up to cover integer instructions logical instructions floating point instructions using the XMM registers arrays functions data structures and high performance programming It also covers SSE and AVX programming with one example AVX function achieving 20 5 GFLOPS on 1 core of a Core i7 2600 CPU The author supplies additional information including downloadable presentation slides in PDF format and source code at http asm seyfarth tv     **x64 Assembly Language Step-by-Step** Jeff Duntemann,2023-09-21 The long awaited x64 edition of the bestselling introduction to Intel assembly language In the newly revised fourth edition of x64 Assembly Language Step by Step Programming with Linux author Jeff Duntemann delivers an extensively rewritten introduction to assembly language with a strong focus on 64 bit long mode Linux assembler The book offers a lighthearted robust and accessible approach to a challenging technical discipline giving you a step by step path to learning assembly code that s engaging and easy to read x64 Assembly Language Step by Step makes quick work of programmable computing basics the concepts of binary and hexadecimal number systems the Intel x86 x64 computer architecture and the process of Linux software development to dive deep into the x64 instruction set memory addressing procedures macros and interface to the C language code libraries on which Linux is built You ll also find A set of free and open source development and debugging tools you can download and put to use immediately Numerous examples woven throughout the book to illustrate the practical implementation of the ideas discussed within Practical tips on software design coding testing and debugging A one stop resource for aspiring and practicing Intel assembly programmers the latest edition of this celebrated text provides readers with an authoritative tutorial approach to x64 technology that s ideal for self paced instruction Please note the author s listings that accompany this book are available from the author website at www contrapositivediary com under his heading My Assembly Language Books     **ARM 64-Bit Assembly Language** Larry D Pyeatt,William Ughetta,2019-11-14 ARM 64 Bit Assembly Language carefully explains the concepts of assembly language programming slowly building from simple examples towards complex programming on bare metal embedded systems Considerable emphasis is put on showing how to develop good structured assembly code More advanced topics such as fixed and floating point mathematics optimization and the ARM VFP and NEON extensions are also covered This book will help readers understand representations of and arithmetic operations on integral and real numbers in any base giving them a basic understanding of processor architectures

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features are covered in depth The book requires only some basic experience with a structured high level language Topics and Features Introduces assembly language so that readers can benefit from learning its utility with both CISC and RISC processors NEW Employs the freely available NASM assembler which works with both Microsoft Windows and Linux operating systems NEW Contains a revised chapter on Basic Computer Organization NEW Uses numerous examples hands on exercises programming code analyses and challenges and chapter summaries Incorporates full new chapters on recursion protected mode interrupt processing and floating point instructions NEW Assembly language programming is part of several undergraduate curricula in computer science computer engineering and electrical engineering In addition this newly revised text reference can be used as an ideal companion resource in a computer organization course or as a resource for professional courses      Whitaker's Cumulative Book List ,1983      *Popular Mechanics* ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      *Bulletin of the Atomic Scientists* ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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