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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

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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

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he demonstrates the use of various performance-gain techniques, such as specialized instructions and prefetching. What Readers Will Learn Low-Level Programming teaches programmers how to use assembly language and C to write

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code for Intel 64 platforms and to look under the hood for various purposes, including the following:

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Learn Intel 64 assembly language and architecture, become

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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

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Programming teaches
programmers to: Freely write in
assembly language Understand
the programming model of Intel
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code in C11 Follow the
compilation process and decipher
assembly listings Debug errors in

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Assembly is a low-level programming language that's one

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Step above a computer's native machine language. Although assembly language is commonly used for writing device drivers, emulators, and video games, many programmers find its somewhat unfriendly syntax intimidating to learn and use.

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Since 1996, Randall Hyde's The Art of Assembly Language has provided a comprehensive, plain-English, and patient introduction to 32-bit x86 assembly for non-assembly programmers. Hyde's primary teaching tool, High Level Assembler (or HLA), incorporates

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many of the features found in high-level languages (like C, C++, and Java) to help you quickly grasp basic assembly concepts. HLA lets you write true low-level code while enjoying the benefits of high-level language programming. As you read The

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Art of Assembly Language, you'll learn the low-level theory fundamental to computer science and turn that understanding into real, functional code. You'll learn how to:

- Edit, compile, and run HLA programs
- Declare and use constants, scalar variables,

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pointers, arrays, structures,
unions, and namespaces

- Translate arithmetic expressions (integer and floating point)
 - Convert high-level control structures
- This much anticipated second edition of The Art of Assembly Language has been

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Updated to reflect recent changes to HLA and to support Linux, Mac OS X, and FreeBSD. Whether you're new to programming or you have experience with high-level languages, *The Art of Assembly Language, 2nd Edition* is your essential guide to learning

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this complex, low-level language.

Incorporate the assembly language routines in your high level language applications About This Book Understand the Assembly programming concepts and the benefits of examining the

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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 Who This Book Is For

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This book is for developers who would like to learn about Assembly language. Prior programming knowledge of C and C++ is assumed. What You Will Learn Obtain deeper understanding of the underlying platform Understand binary

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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

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patches for running processes In
Detail The 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

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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

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Program Access
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

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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

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Program Approach
legacy code without sources or a running code in same or remote process. Style and approach This book takes a step-by-step, detailed approach to Comprehensively learning Assembly Programming.

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This book shows how to build a "INFelecPHY GPS Unit" (IEP-GPS) tracking system for fleet management that is based on 3G and GPRS modules. This model should provide reliability since it

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deals with several protocols: 1) HTTP and HTTPS to navigate, download and upload in real time the information to a web server, 2) FTTP and FTTSP to handle in a non-real time the files to the web application, and 3) SMTP and POP3 to send and receive email

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Program Access directly from the unit in case of any alert. Similar to a mobile device, but without screen for display, it is multifunctional because it links to a GPRS module, a camera, a speaker, headphoned, a keypad and screen.

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The eagerly anticipated new edition of the bestselling introduction to x86 assembly language The long-awaited third edition of this bestselling introduction to assembly language has been completely rewritten to focus on 32-bit

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protected-mode Linux and the free NASM assembler. Assembly is the fundamental language bridging human ideas and the pure silicon hearts of computers, and popular author Jeff Dunteman retains his distinctive lighthearted style as he presents a step-by-

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step approach to this difficult technical discipline. He starts at the very beginning, explaining the basic ideas of programmable computing, the binary and hexadecimal number systems, the Intel x86 computer architecture, and the process of

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