1. Record Nr. UNINA9910783516903321 Autore Blum Richard <1962-> Titolo Professional assembly language [[electronic resource] /] / Richard Blum Pubbl/distr/stampa Indianapolis, IN, : Wiley, c2005 **ISBN** 1-280-25262-6 9786610252626 0-7645-9561-X [1st edition] Edizione Descrizione fisica 1 online resource (576 p.) Disciplina 005.13/6 Soggetti Assembler language (Computer program language) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Includes index. Note generali Nota di contenuto Professional Assembly Language; About the Author; Acknowledgments; Contents; Introduction; Who This Book Is For; What This Book Covers; How This Book Is Structured; What You Need to Use This Book; Conventions: Source Code: Errata: p2p, wrox, com: Chapter 1: What Is Assembly Language?; Processor Instructions; High-Level Languages; Assembly Language; Summary; Chapter 2: The IA-32 Platform; Core Parts of an IA-32 Processor; Advanced IA-32 Features; The IA-32 Processor Family; Summary; Chapter 3: The Tools of the Trade; The Development Tools: The GNU Assembler: The GNU Linker: The GNU Compiler The GNU Debugger ProgramThe KDE Debugger: The GNU Objdump Program; The GNU Profiler Program; A Complete Assembly Development System; Summary; Chapter 4: A Sample Assembly Language Program: The Parts of a Program: Creating a Simple Program: Debugging the Program: Using C Library Functions in Assembly: Summary; Chapter 5: Moving Data; Defining Data Elements; Moving Data Elements: Conditional Move Instructions: Exchanging Data: The Stack; Optimizing Memory Access; Summary; Chapter 6: Controlling Execution Flow; The Instruction Pointer; Unconditional Branches; Conditional Branches: Loops Duplicating High-Level Conditional BranchesOptimizing Branch Instructions; Summary; Chapter 7: Using Numbers; Numeric Data

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Sommario/riassunto

Unlike high-level languages such as Java and C++, assembly language is much closer to the machine code that actually runs computers; it's used to create programs or modules that are very fast and efficient, as well as in hacking exploits and reverse engineeringCovering assembly language in the Pentium microprocessor environment, this code-intensive guide shows programmers how to create stand-alone assembly language programs as well as how to incorporate assembly language libraries or routines into existing high-level applicationsDemonstrates how to manipulate data, incorporate