1. Record Nr. UNINA9910813047203321 Autore Hyde Randall Titolo The art of Assembly language / / by Randall Hyde Pubbl/distr/stampa San Francisco,: No Starch Press, 2010 **ISBN** 1-59327-301-0 Edizione [2nd ed.] Descrizione fisica 1 online resource (764 p.) 005.13/6 Disciplina Soggetti Assembler language (Computer program language) Programming languages (Electronic computers) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. Nota di contenuto Contents in Detail; Acknowledgements; Chapter 1: Hello, World of Assembly Language; 1.1: The Anatomy of an HLA Program; 1.2: Running Your First HLA Program; 1.3: Some Basic HLA Data Declarations; 1.4: Boolean Values; 1.5: Character Values; 1.6: An Introduction to the Intel 80x86 CPU Family; 1.7: The Memory Subsystem; 1.8: Some Basic Machine Instructions; 1.9: Some Basic HLA Control Structures; 1.10: Introduction to the HLA Standard Library; 1.11: Additional Details About try..endtry; 1.12: High-Level Assembly Language vs. Low-Level Assembly Language: 1.13: For More Information Chapter 2: Data Representation 2.1: Numbering Systems; 2.2: The Hexadecimal Numbering System; 2.3: Data Organization; 2.4: Arithmetic Operations on Binary and Hexadecimal Numbers; 2.5: A Note About Numbers vs. Representation; 2.6: Logical Operations on Bits; 2.7: Logical Operations on Binary Numbers and Bit Strings; 2.8: Signed and Unsigned Numbers: 2.9: Sign Extension, Zero Extension, Contraction, and Saturation; 2.10: Shifts and Rotates; 2.11: Bit Fields and Packed Data; 2.12: An Introduction to Floating-Point Arithmetic; 2.13: Binary-Coded Decminal Representation: 2.14: Characters 2.15: The Unicode Character Set2.16: For More Information; Chapter 3: Memory Access and Organization; 3.1: The 80x86 Addressing Modes;

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Sommario/riassunto

Widely respected by hackers of all kinds, The Art of Assembly Language teaches programmers how to understand assembly language and how to use it to write powerful, efficient code. Using the proven High Level Assembler (HLA) as its primary teaching tool, The Art of Assembly Language leverages your knowledge of high level programming languages to make it easier for you to quickly grasp basic assembly concepts. Among the most comprehensive references to assembly language ever published, The Art of Assembly Language, 2nd Edition has been thoroughly updated to reflect recent changes to the HLA lang