

# 8086 Instruction Set

## Data Movement — Abbreviations

**src** = source (מקור)

**dest** = destination (יעד)

**acc** = accumulator (**AL** or **AX**)

**PTR** = pointer (מצביע)

**DWORD** = double word (32 bits)

**.** = concatenation (**AX** = **AH.AL**)

## Data Movement — Conventions

**AX ← BX**

Copy **BX** to **AX**

**REGS[AX] ←**  $\xrightarrow{16\text{-bits}}$  **REGS[BX]**

**AL ← [1000]**

Copy memory byte at address 1000 to **AL**

**REGS[AL] ←**  $\xrightarrow{8\text{-bits}}$  **MEM[1000]**

**AL ← [BX]**

Copy memory byte at address stored in **BX** to **AL**

**REGS[AL] ←**  $\xrightarrow{8\text{-bits}}$  **MEM[ REGS[BX] ]**

## Data Movement — Scope

**BYTE PTR[1000]**

Memory byte at address 1000

**WORD PTR[1000]**

Memory word (2 bytes) at address 1000 and address 1001

**DWORD PTR[1000]**

Memory dword (4 bytes) at addresses  
1000, 1001, 1002, 1003

**AX ← [BX]**

**AX ← WORD PTR[BX]**

**AL ← [BX]** and **AH ← [BX+1]**

**REGS[AL] ←, MEM[ REGS[BX] ]**

**REGS[AH] ←, MEM[ REGS[BX] + 1 ]**

# Instructions Set Of 8086

**Emilie Sanchez**



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## **Table of Contents Instructions Set Of 8086**

1. Understanding the eBook Instructions Set Of 8086
  - The Rise of Digital Reading Instructions Set Of 8086
  - Advantages of eBooks Over Traditional Books
2. Identifying Instructions Set Of 8086
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Instructions Set Of 8086
  - User-Friendly Interface
4. Exploring eBook Recommendations from Instructions Set Of 8086
  - Personalized Recommendations
  - Instructions Set Of 8086 User Reviews and Ratings
  - Instructions Set Of 8086 and Bestseller Lists
5. Accessing Instructions Set Of 8086 Free and Paid eBooks
  - Instructions Set Of 8086 Public Domain eBooks
  - Instructions Set Of 8086 eBook Subscription Services
  - Instructions Set Of 8086 Budget-Friendly Options
6. Navigating Instructions Set Of 8086 eBook Formats

- ePub, PDF, MOBI, and More
- Instructions Set Of 8086 Compatibility with Devices
- Instructions Set Of 8086 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Instructions Set Of 8086
  - Highlighting and Note-Taking Instructions Set Of 8086
  - Interactive Elements Instructions Set Of 8086
- 8. Staying Engaged with Instructions Set Of 8086
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Instructions Set Of 8086
- 9. Balancing eBooks and Physical Books Instructions Set Of 8086
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Instructions Set Of 8086
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Instructions Set Of 8086
  - Setting Reading Goals Instructions Set Of 8086
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Instructions Set Of 8086
  - Fact-Checking eBook Content of Instructions Set Of 8086
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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