

1 b. Explain in detail with a neat figure the working of the internal architecture of the 8086 MP [08 marks]

Ans:

Internal Architecture of 8086

• The 8086 processor is divided into two functional units (Figure 1-2):

- 1) Bus Interface Unit (BIU)
- 2) Execution Unit (EU)

Bus Interface Unit

• The BIU

- > sends out addresses
- > fetches instructions from memory
- > reads data from memory and
- > writes data to memory

• The functional parts of the BIU are:

1) Instruction Queue

- The Instruction Queue is of 6 bytes in length.
- This is used to send up the execution of programs by pre-fetching 6 instruction bytes in advance from memory.
- The BIU and EU works parallel. The BIU fetches the instruction bytes while the EU is executing an instruction.
- The process of pre-fetching the instruction in advance while EU is executing the current instruction is known as pipelining.

2) Segment Register

- The BIU contains four 16-bit segment register: CS, DS, SS and ES
- These registers are used to store the 16 bit starting address of the four memory segment.

3) Instruction Pointer(IP) Register

- It is used by the microprocessor to find the next sequential instruction in a program located within the code segment.

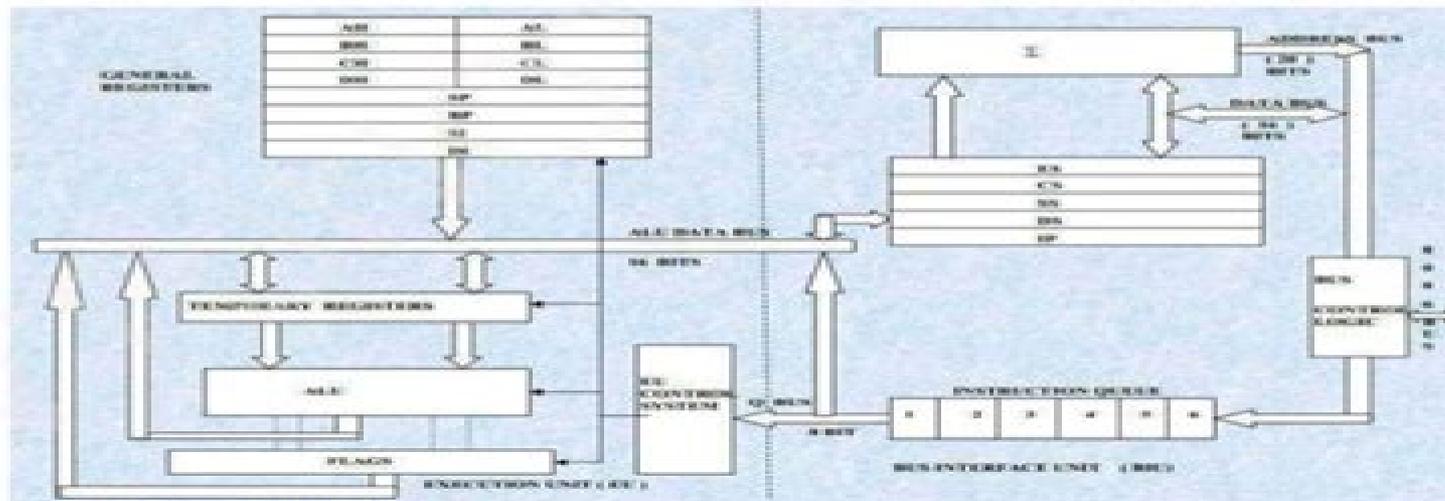


Figure 1-2: Internal Architecture of 8086

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1. Understanding the eBook Microprocessor Question Paper Vtu
 - The Rise of Digital Reading Microprocessor Question Paper Vtu
 - Advantages of eBooks Over Traditional Books
2. Identifying Microprocessor Question Paper Vtu
 - 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 Microprocessor Question Paper Vtu
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microprocessor Question Paper Vtu
 - Personalized Recommendations
 - Microprocessor Question Paper Vtu User Reviews and Ratings
 - Microprocessor Question Paper Vtu and Bestseller Lists
5. Accessing Microprocessor Question Paper Vtu Free and Paid eBooks
 - Microprocessor Question Paper Vtu Public Domain eBooks
 - Microprocessor Question Paper Vtu eBook Subscription Services
 - Microprocessor Question Paper Vtu Budget-Friendly Options

6. Navigating Microprocessor Question Paper Vtu eBook Formats
 - ePub, PDF, MOBI, and More
 - Microprocessor Question Paper Vtu Compatibility with Devices
 - Microprocessor Question Paper Vtu Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microprocessor Question Paper Vtu
 - Highlighting and Note-Taking Microprocessor Question Paper Vtu
 - Interactive Elements Microprocessor Question Paper Vtu
8. Staying Engaged with Microprocessor Question Paper Vtu
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microprocessor Question Paper Vtu
9. Balancing eBooks and Physical Books Microprocessor Question Paper Vtu
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microprocessor Question Paper Vtu
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microprocessor Question Paper Vtu
 - Setting Reading Goals Microprocessor Question Paper Vtu
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microprocessor Question Paper Vtu
 - Fact-Checking eBook Content of Microprocessor Question Paper Vtu
 - 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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