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Chapter 1 - Introduction To Microprocessors

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2/20/2015 6 Microprocessors And Interfacing (A1423) INTEL 8085 1) Built In 1977 2) 5 In 8085 Means +5 Volt Supply 3) Initial Clock Speed Of About 3MHz 4) Approx. 6500 Transistors Were Used 5) 8 Bit $\mu\text{-Processor}$ Using NMOS Technology SPECIAL FEATURES 1) Extension To Support New Interrupts :- Maskable (RST 7.5,RST 6.5,RST 5.5) Non-Maskable (TRAP) And Externally Serviced 4th, 2024

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INTRODUCTION Fifteen Years Ago Th, E Manufacturers Of Digital Information Processing Systems, Such As Computers, Based Their Circuits Upon Diodes, Transistors, Resistors, And Capacitors Obtained From The Component

Manufacturers. These Components Were Assembled Onto Printed Circui As Logit Boardc S Modules. 3th, 2024

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MP, CSE, VCET 3 » The Intel 8086/8088 » 16-bit Pipelined Microprocessors » Addressed 1M Bytes (1M Byte = 1024K Bytes = 1024 * 1024 Bytes = 1,048,576

Bytes) Of Memory » Executed 2.5 MIPs (millions Of Instructions Per Second) » Its Instruction Set Contained Over 20,000 Instructions » A Small 6- Or 4-byte Instruction Cache Or 7th, 2024

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2 Advanced Microprocessors Figure 1.1 Block Digram Of Microcomputer (a) Central Processing Unit (CPU)It Performs The Necessary Arithmetic And Logic Operations And Controls The Timing And General Operation Of The Complete System. (b) Input/Output (I/O) DevicesInput Devices Are Used For Feeding Data Into The CPU, Examples Of These Devices Are Toggle 1th, 2024

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