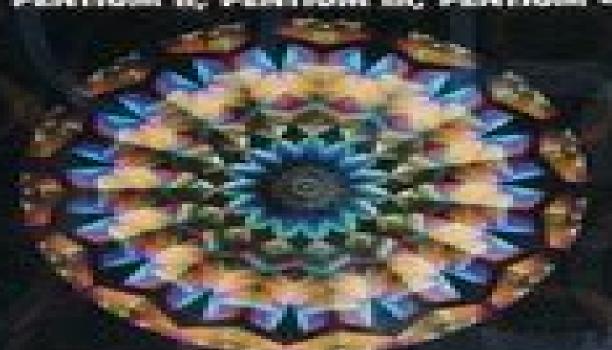
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THE INTEL MICROPROCESSORS

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ARCHITECTURE, PROGRAMMING, AND INTERFACING

BARRY B. BREY



The Intel Microprocessors Barry B. Brey, 1997 This fourth edition of The Intel Microprocessors 8086 8088 80186 80286 80386 80486 Pentium and Pentium Pro Processor Architecture Programming and Interfacing is a practical book for anyone interested in all programming and interfacing aspects of this important microprocessor family Microprocessors Barry B. Brev, 1997 The Intel Microprocessors Barry B. Brey, 2003 Intel microprocessors have gained wide application in many areas of electronic communications control systems and desktop computer systems This practical text is written for anyone who requires or desires a thorough knowledge of microprocessor programming and interfacing Now in its sixth edition The Intel Microprocessors is thoroughly updated to provide comprehensive coverage of the latest developments in the field of microprocessors It serves as a reference and instructional tool for the reader to Develop software to control an application interface microprocessor Program using DOS function calls to control the keyboard video display systems and disk memory in assembly language Use BIOS functions to control the keyboard display and various other components in the computer system Develop software that uses macro sequences procedures conditional assembly and flow control assembler directives Develop software that uses interrupt hooks and hot keys to gain access to terminate and stay resident software Program the numeric coprocessor to solve complex equations Explain the differences between family members and highlight the features of each member Describe and use the real and protected modes of the microprocessor Interface memory and I O systems to the microprocessor Provide detailed and comprehensive comparison of all family members their software and hardware interface Explain the function of the real time operating system in an embedded application Explain the operation of disk and video systems Interface small systems to the ISA VESA local PCI parallel port and USB bus in a personal computer system The Intel Microprocessors Barry B. Brey, 2009 For introductory level Microprocessor courses in the departments of Electronic Engineering Technology Computer Science or Electrical Engineering The INTEL Microprocessors 8086 8088 80186 80188 80286 80386 80486 Pentium Pentium Pro Processor Pentium II Pentium III Pentium 4 and Core2 with 64 bit Extensions 8e provides a comprehensive view of programming and interfacing of the Intel family of Microprocessors from the 8088 through the latest Pentium 4 and Core2 microprocessors The text is written for students who need to learn about the programming and interfacing of Intel microprocessors which have gained wide and at times exclusive application in many areas of electronics communications and control systems particularly in desktop computer systems A major new feature of this eighth edition is an explanation of how to interface C C using Visual C Express a free download from Microsoft with assembly language for both the older DOS and the Windows environments Many applications include Visual C as a basis for learning assembly language using the inline assembler Updated sections that detail new events in the fields of microprocessors and microprocessor interfacing have been added Organized in an

orderly and manageable format this text offers more than 200 programming examples using the Microsoft Macro Assembler program and provides a thorough description of each of the Intel family members memory systems and various I O systems

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The Intel Microprocessors 8086/8088, 80186/80188, 80286, 80386, 80486 Pentium, Pentium Pro Processor, Pentium Ii, Pentium Iii, And Pentium Iv,1/e Brey/sarma,2007

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Microprocessors and Multicore Systems Atul P. Godse, Dr. Deepali A. Godse, 2020-12-01 The book is written for an undergraduate course on the 16 bit 32 bit and 64 bit Intel Processors It provides comprehensive coverage of the hardware and software aspects of 8086 80286 80386 80486 and Pentium Processors The book uses plain and lucid language to explain each topic The book provides the logical method of describing the various complicated concepts and stepwise techniques for easy understanding making the subject more interesting The book begins with an overview of microcomputer structure and operation microprocessor evolution and types and the 8086 microprocessor family It explains the 8086 architecture

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