

THE x86 MICROPROCESSORS

8086 TO PENTIUM, MULTICORES, ATOM AND THE 8051 MICROCONTROLLER
ARCHITECTURE, PROGRAMMING AND INTERFACING

LYLA B. DAS

SECOND EDITION

This second edition of *The x86 Microprocessors* has been revised to present the hardware and software aspects of the subject in a logical and concise manner. Designed for an undergraduate course on the 16-bit 8086 microprocessor and Pentium processor, the book provides a detailed analysis of the x86 family architecture before and after Pentium while laying equal emphasis on its programming and interfacing attributes. The book also has a complete discussion on the 8051 Microcontroller and its applications.

Salient Features

- Comprehensive analysis of programming and interfacing of the 8086 processor, with practical examples.
- Inclusive discussion on the features and enhancements of the 80386, 80486 and Pentium processors

New to the second edition

- Architecture of Intel's advanced Atom SoC processor explained in detail
- Exclusive chapter on Multicore processors
- Critical evaluation of Intel processors launched after Pentium
- Three chapters devoted to the essential features of the 8051 Microcontroller
- A chapter dealing with advanced computer architecture
- Two Online chapters
 - ✓ 80186 – The embedded microprocessors
 - ✓ The x86 base personal computer

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Online Student Resources

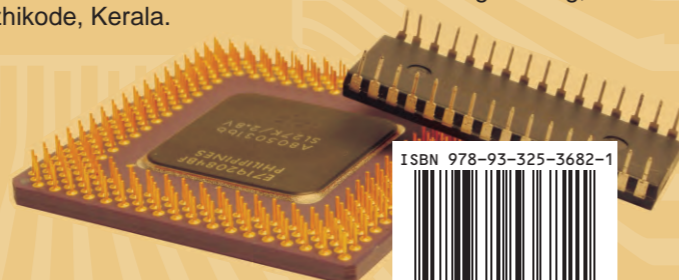
wps.pearsoned.co.in/das_microprocessor_2

*see inside front cover for details

Online Instructor resources available at
www.pearsoned.co.in/lylabdas

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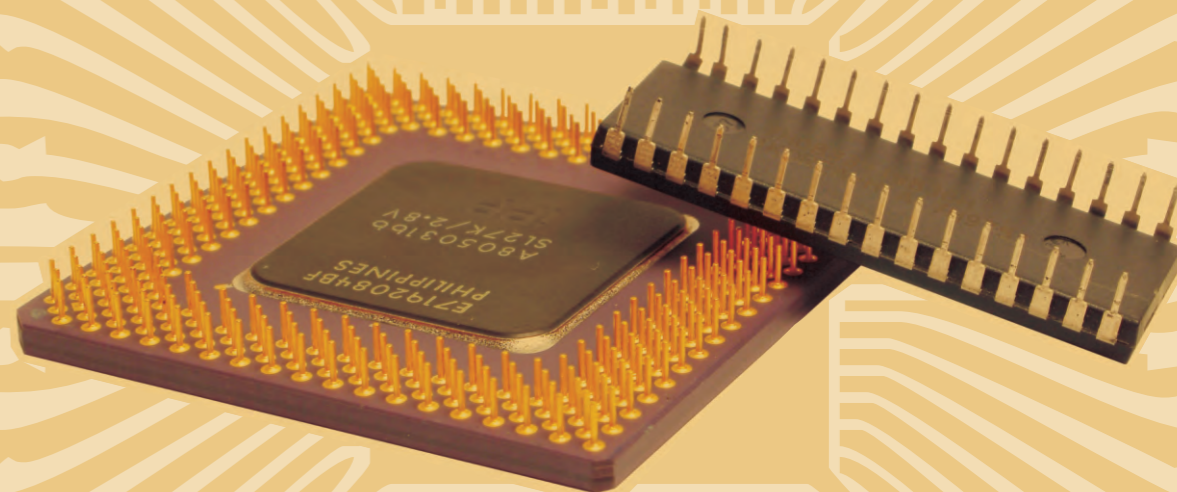
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ALWAYS LEARNING

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