

Advanced Computer Organization and Architecture

Concepts and Designs

Dr. Ikvinderpal Singh

2ND
EDITION

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Product Description

Describes the introduction of advanced computer architecture and parallel processing. Covers the paradigms of computing like synchronous and asynchronous. Detailed explanation of the Flynn's classification, Kung's taxonomy and reduction paradigm. provides a detailed treatment of abstract parallel computational models like combination circuits, sorting network, PRAM models, interconnection RAMs. Covers the parallelism in uniprocessor systems. Provides an extensive treatment of parallel computer structures like pipeline computers, array computers and multiprocessor systems. Covers the concepts of pipeline and classification of pipeline processors. Give description of super scalar, super pipeline design and VLIW processors. Explains the design structures and algorithms for array processors.

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