MODERN PROCESSOR DESIGN: Fundamentals of Superscalar Processors, Beta Edition

By John P. Shen, Mikko Lipasti, John Shen

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Modern Processor Design: Fundamentals of Superscalar Processors is an exciting new first edition from John Shen of Carnegie Mellon University & Intel and Mikko Lipasti of the University of Wisconsin-Madison. This book brings together the numerous microarchitectural techniques for harvesting more instruction-level parallelism (ILP) to achieve better processor performance that have been proposed and implemented in real machines. These techniques, as well as the foundational principles behind them, are organized and presented within a clear framework that allows for ease of comprehension.

This text is intended for an advanced computer architecture course or a course in superscalar processor design. It is written at a level appropriate for senior or first year graduate level students.

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