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Fundamentals of computer organization and architecture / Mostafa Abd-El-Barr, Hesham El-Rewini p. cm. (Wiley series on parallel and distributed computing) Includes bibliographical references and index. ISBN 0-471-46741-3 (cloth volume 1) ISBN 0-471-46740-5 (cloth volume 2) 1. Computer architecture. 2.

# Fundamentals of computer organization and architecture

In computer engineering, computer architecture is a set of rules and methods that describe the functionality, organization, and implementation of computer systems. Some definitions of architecture define it as describing the capabilities and programming model of a computer but not a particular implementation. In other definitions computer architecture involves instruction set architecture ...

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Organization of Computer Systems: § 1: Introductory Material, Computer Abstractions, and Technology ... is a very detailed language that helps the systems programmer or software designer move information around in a computer architecture in a highly specific way. For example, many compilers (programs that translate programming language into an ...

#### Organization of Computer Systems: Introduction ...

In computer engineering, microarchitecture, also called computer organization and sometimes abbreviated as µarch or uarch, is the way a given instruction set architecture (ISA) is implemented in a particular processor. A given ISA may be implemented with different microarchitectures; implementations may vary due to different goals of a given design or due to shifts in technology.

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