

Computer Organization and Design: The Hardware Software Interface: ARM Edition (The Morgan Kaufmann Series in Computer Architecture and Design)

David A. Patterson, John L. Hennessy



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The new ARM Edition of *Computer Organization and Design* features a subset of the ARMv8-A architecture, which is used to present the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies, and I/O.

With the post-PC era now upon us, *Computer Organization and Design* moves forward to explore this generational change with examples, exercises, and material highlighting the emergence of mobile computing and the Cloud. Updated content featuring tablet computers, Cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud computing) architectures is included.

An online companion Web site provides links to a free version of the ARMv8 Foundation Platform (a virtual platform incorporating an AArch64 architecture simulation model), as well as additional advanced content for further study, appendices, glossary, references, and recommended reading.

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