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Mips2c: Programming from the Machine Up

By Philip Machanick

Rampage Research, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Programming in C is close to the machine and the language was originally designed to code an operating system. The approach I take is to start from the machine layer, though in less detail than in a computer organization or logic design book, using the MIPS instruction set to illustrate principles. The first part of the book uses C syntax as pseudocode while demonstrating how to convert high level language code to MIPS assembly language. The second part of the book introduces C in more detail, building on the MIPS part. While using C as pseudocode is not strictly in keeping with the spirit of pseudocode, which is meant to be sketchy and leave out a lot of detail, the idea is to introduce those not familiar with C-style languages to the notation ahead of the second part of the book where C is introduced properly. Why MIPS? The MIPS architecture is simple and relatively easy to understand, and in wide use in embedded systems. The SPIM simulator is a handy and free learning tool. Why C?...



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