

## Mips2c: Programming from the Machine Up



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*(Frederic Lang)*

## MIPS2C: PROGRAMMING FROM THE MACHINE UP



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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? It is in wide use, and closer to the machine than other popular languages with similar syntax. Learning the hardware-software interface in C is a lot easier than in a language with a managed memory system and complications like classes and objects. Topics covered in the MIPS part include memory organization, alternative approaches to stack frames, local and global variables, the heap and dynamic allocation, function calls including parameter passing and recursion, how C relates to machine code (e.g., arrays as pointers) and - a brief segue out of C space - how objects and methods are implemented. I cover...



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