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Hardware; Memory Operands; Constant or Immediate Operands; 2.4 Representing Instructions in the Computer; MIPS Fields; 2.5 Logical Operations; 2.6 Instructions for Making Decisions; Loops Case/Switch Statement2.7 Supporting Procedures in Computer Hardware; Using More Registers; Nested Procedures; Allocating Space for New Data on the Stack; Allocating Space for New Data on the Heap; 2.8 Communicating with People; Characters and Strings in Java; 32-Bit Immediate Operands; 2.9 MIPS Addressing for 32-Bit Immediates and Addresses; Addressing in Branches and Jumps; MIPS Addressing Mode Summary; Decoding Machine Language; 2.10 Translating and Starting a Program; Compiler; Assembler; Linker; Loader; Dynamically Linked Libraries; Starting a Java Program; High-Level Optimizations 2.11 How Compilers OptimizeLocal and Global Optimizations; 2.12 How Compilers Work: An Introduction; 2.13 A C Sort Example to Put It All Together; The Procedure; Array Version of Clear; 2.14 Implementing an Object-Oriented Language; 2.15 Arrays versus Pointers; Pointer Version of Clear; Comparing the Two Versions of Clear; 2.16 Real Stuff: IA-32 Instructions; The Intel IA-32; IA-32 Integer Operations; IA-32 Instruction Encoding; IA-32 Conclusion; 2.17 Fallacies and Pitfalls; 2.18 Concluding Remarks; 2.19 Historical Perspective and Further Reading; 2.20 Exercises; Computers in the Real World 3 Arithmetic for Computers3.1 Introduction; 3.2 Signed and Unsigned Numbers; Summary; 3.3 Addition and Subtraction; Summary; 3.4 Multiplication; Sequential Version of the Multiplication Algorithm and Hardware; Signed Multiplication; Faster Multiplication; Multiply in MIPS; Summary; 3.5 Division; A Division Algorithm and Hardware; Signed Division; Faster Division; Divide in MIPS; Summary; 3.6 Floating Point; Floating-Point Representation; Floating-Point Addition; Floating-Point Multiplication; Floating-Point Instructions in MIPS; Accurate Arithmetic; Summary 3.7 Real Stuff: Floating Point in the IA-32

Sommario/riassunto

What's New in the Third Edition, Revised Printing The same great book gets better! This revised printing features all of the original content along with these additional features: Appendix A (Assemblers, Linkers, and the SPIM Simulator) has been moved from the CD-ROM into the printed book Corrections and bug fixesThird Edition featuresNew pedagogical featuresUnderstanding Program Performance -Analyzes key performance issues from the programmer's perspective Check Yourself Questions -Helps students assess their

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