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For freshman/sophomore-level courses in Assembly Language Programming, Introduction to Computer Organization, and Introduction to Computer Architecture. Students using this text will gain an understanding of how the functional components of modern computers are put together and how a computer works at the machine language level.

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information on assembling and linking an assembly language program, see the MIPS RISCompiler and C Programmer's Guide. The assembler converts assembly language statements into machine code. In most assembly languages, each instruction corresponds to a single machine instruction; however, some assembly language instructions can generate

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