

Assembly Language Programming and Machine Organization PDP- 11

This book is an introduction to assembly language programming and computer architecture done in the context of two computer architectures: SIMPLE and Digital PDP-11. Memory organization, registers, instruction sets, addressing modes, I/O system, interrupt structures, and bus communication are some of the major topics covered. In addition to these hardware concepts, software concepts such as subroutine linking, parameter passing, conditional branching, macros, floating point arithmetic, recursion, and modular program design are important topics in this book. In short, this is a text for CS-3, the third course of ACM's Curriculum '78. CS-1 and CS-2 are courses in programming and algorithms in the context of high level languages and should be considered prerequisites for a course based on this text.

