Study Guide -- Exam 1

What is systems software

Why is systems software dependent on underlying machine architecture?
  effect of various computer components on software

Why use a hypothetical computer?

SIC architecture
  memory, registers, instruction format, addressing modes
  (don't need to know the instruction set)

SIC/XE architecture
  differences from SIC
    effect of differences on architecture
  compatibility mode
  addressing modes (definitions, usage)
    direct, indexed, indirect, PC relative, base relative, immediate
    (don't have to know specifics about the four instruction formats)

Assemblers
  Basic tasks
  Tables and other variables required
  Hashing
    Basic logic flow for a two pass assembler

Programming in the Linux environment