



(a) Instruction format



(b) Integer format

Program Counter (PC) = Address of instruction
 Instruction Register (IR) = Instruction being executed
 Accumulator (AC) = Temporary storage

(c) Internal CPU registers

0001 = Load AC from Memory
 0010 = Store AC to Memory
 0101 = Add to AC from Memory

(d) Partial list of opcodes

Figure 1.3 Characteristics of a Hypothetical Machine