



Reading Questions: §1.1.3



- ▶ 3. What is the *one-to-many relationship* between high-level languages and machine language?
- ▶ 4. Explain the concept of *portability* as it applies to programming languages.
- ▶ 5. Is the assembly language for x86 processors the same as for the Vax or Motorola 68x00?
- ▶ 7. What is a device driver?
- ▶ 11. Why is assembly language not usually used when writing large application programs?

Topics Covered in Whiteboard Notes:



- ▶ Radix/base, notated via subscripts; place values
- ▶ Unsigned integers
 - ▶ Binary representation: bits, LSB, MSB, addition
 - ▶ Hexadecimal representation; notation with h suffix
- ▶ Signed integers
 - ▶ Two's complement representation
- ▶ Storage sizes: byte, word, doubleword, quadword
- ▶ Maximum and minimum representable values