Data type of operands and assembler instructions

- Does assembler programming use data types ???
 - Notice that:
 - A register or memory cell contains a bit pattern
 There is no information about the data type (= encoding scheme) used !!!
 - How is the data type "used" in assembler programming:
 - The computer (CPU) has different instructions that operate using different encoding methods !!!

Example:

■ mulu: perform a multiplication operation assuming that the the representation used is for unsigned numbers

Example:

| 1111111 11111110 = 65534 (10) (unsigned) (

111..11111111 111111100 = $-4_{(10)}$ <--- result of an signed multiplication

Demo: data-type.s in the demo directory.

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