Assignment #2 Moneeth Wijewalhna (1125828)
Using all register, there are

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2021/04/24

1. Using all register, there are 8 32 bit registers which is 256 bits. In bytes this is 32 bytes, for word, 16 bits so 512 bits in total which is 64 bytes.

2. These suffixes are called size indicators and are used

2. These suffixes are called size indicators and are used to perform different operations of different word sizes. For example, MOVE. B would perform the MOVE operand for a byte in a given register. W would use a word and . L would copy all 4 bytes.

3. -128 (byte, word, largeword) (8 bits)
3.47689 (largeword) (14 bits)

347689 (longword) (195its)

4. \$ signifies the immediate value in heradecimal. Therefore,
\$123 and 123 are two different things where \$123 is in
hexadecimal but 123 is in decimal.

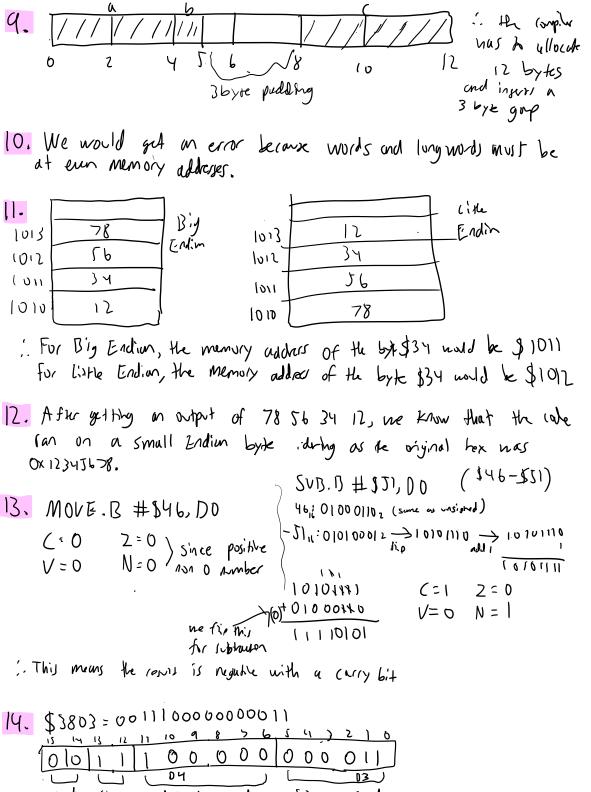
5. MOVE. B 123, D4 copies the deimal value 123 into the register D4. However, MOVE, B #123, D4 says that the deamal value 123 is CONSTANT and in memory and yets copied to register D4.

is out of ruge for a word. To fix this using MOVE. I would reffice.

6. MOVE.W #-32769, DI is wrong because the with -32769

SUB DI,#\$15 is also wrong because since the nex value 15 is constant, we construct the register DI from it. Also, the source cannot be memory address if its a constant. To fix this, removing the it or switching the source a destination would suffice.

The processor can generate 2²² memory addresses which is 4,194,304 addresses. If each cell in the memory has a size of IL bill the it would hold 16 x 4144304 bill which is



1. MOVE. 3 #\$9, DO