

Lab Report 2.C – Addressing Modes

Description:

In this lab, we were asked to experiment with memory partitions and addressing modes by initializing memory with certain values and tracing a premade program. This program modified certain parts of memory and used several addressing modes discussed in previous labs/lectures. We were also asked to determine how the program changed the registers and memory values.

Equipment Used:

- EASy 68K simulator

Procedure:

I started by initializing parts of memory using MOVE.L to copy up to four bytes of data into memory at a time. The values I copied are listed in a table below:

Table 1 A list of memory addresses and values.

Address Location	Contents
2518	4433
	4241
	0000
	0000
	2553
	0000
	01EF
	ABCD
	5476
	CC22
	FF34
	12FF
	.
	.
	.
2544	A267
	1FEE
	FFFF
	FFFF
	0100
	0000
	ABCD
	FFFF
	0000
	0000

Next, I initialized the address and data registers with the contents of the following table:

Table 2 A list of registers and values.

Register	Contents
A3	002468FA
A4	00002544
A6	00002518
D3	00000000
D5	FFFFFFFF
D6	00000000

Then I copied the code from the project document and pasted it into the simulator. Finally, assembled the source code, enabled log mode, traced my output, and ran the program.

Program Description:

This program starts by storing a list of bytes starting at address \$2518 (seen in table 1). Then it stores values in address registers A3, A4, and A6 and data registers D3, D5, and D6 (seen in table 2). Finally, the program modifies the registers and memory locations using several addressing modes, including displacement, address indirect, postincrement, and predecrement.

Results:

The results of initialization can be seen in figure 2. As you can see, the data near addresses \$2518 and \$2544 were modified with the values from table 1. After the program ran, I observed several changes in registers and memory, which are described below:

- Register D3 holds \$00000041 (from copying a byte from address \$251B into D3)
- Memory address \$0000251E (from copying a word from address \$2548 into address \$251E)
- Register D5 holds \$44334241 (from copying a longword from address \$2518)
- Memory address \$2522 holds \$0000A267 (from copying a word from address \$2544 to address \$2522)
- Memory address \$252E holds \$00000012 (from copying a byte from address \$2545 to address \$252E)
- Register A3 holds \$0000252A (from loading address \$00252A into A3)
- Register D6 holds \$0000CC22 (from copying a word from address \$252A into D6)
- Register A4 holds \$00002545 (from being incremented as a word and decremented as a byte)
- Register A6 holds \$0000251C (from being incremented as a longword)

Before and after photos of memory are also provided below.

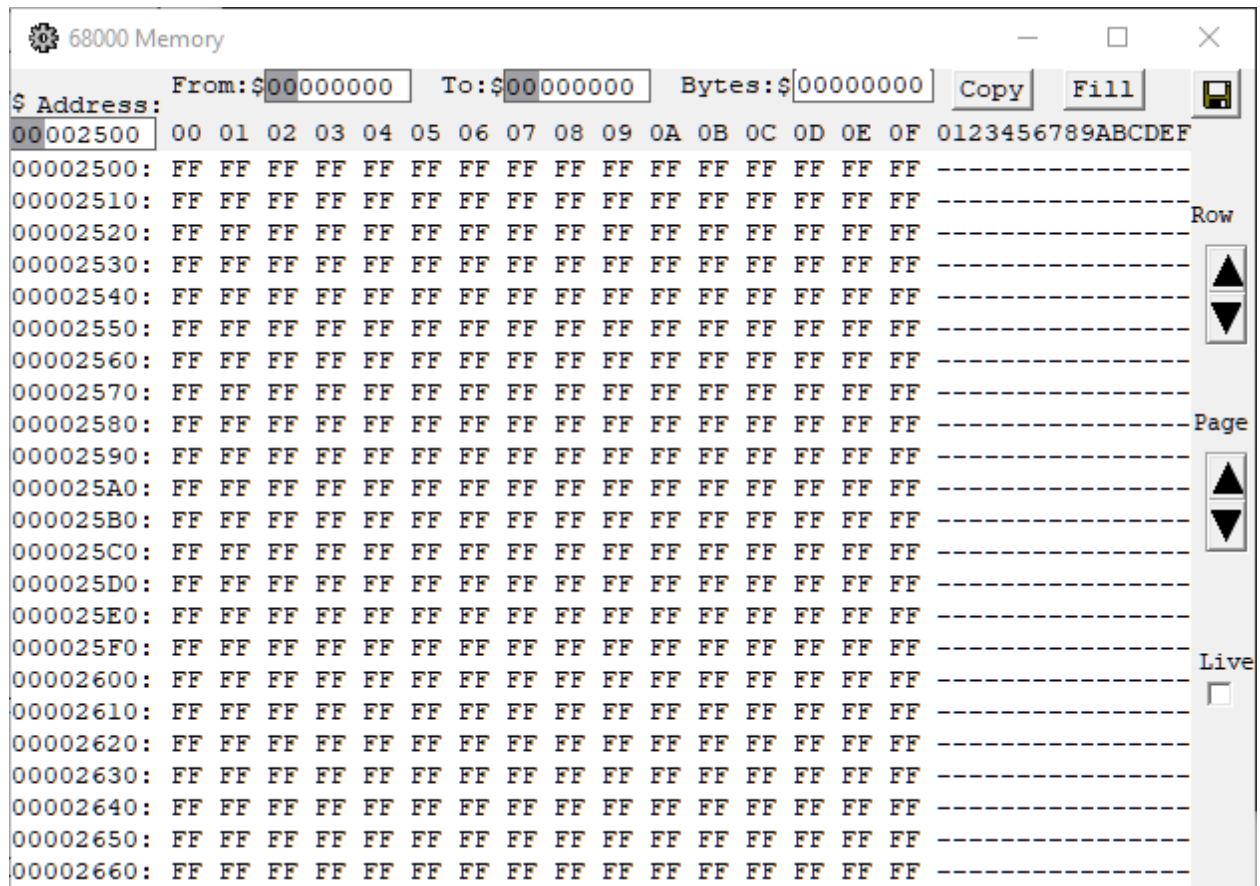


Figure 1 The memory window before running the program.

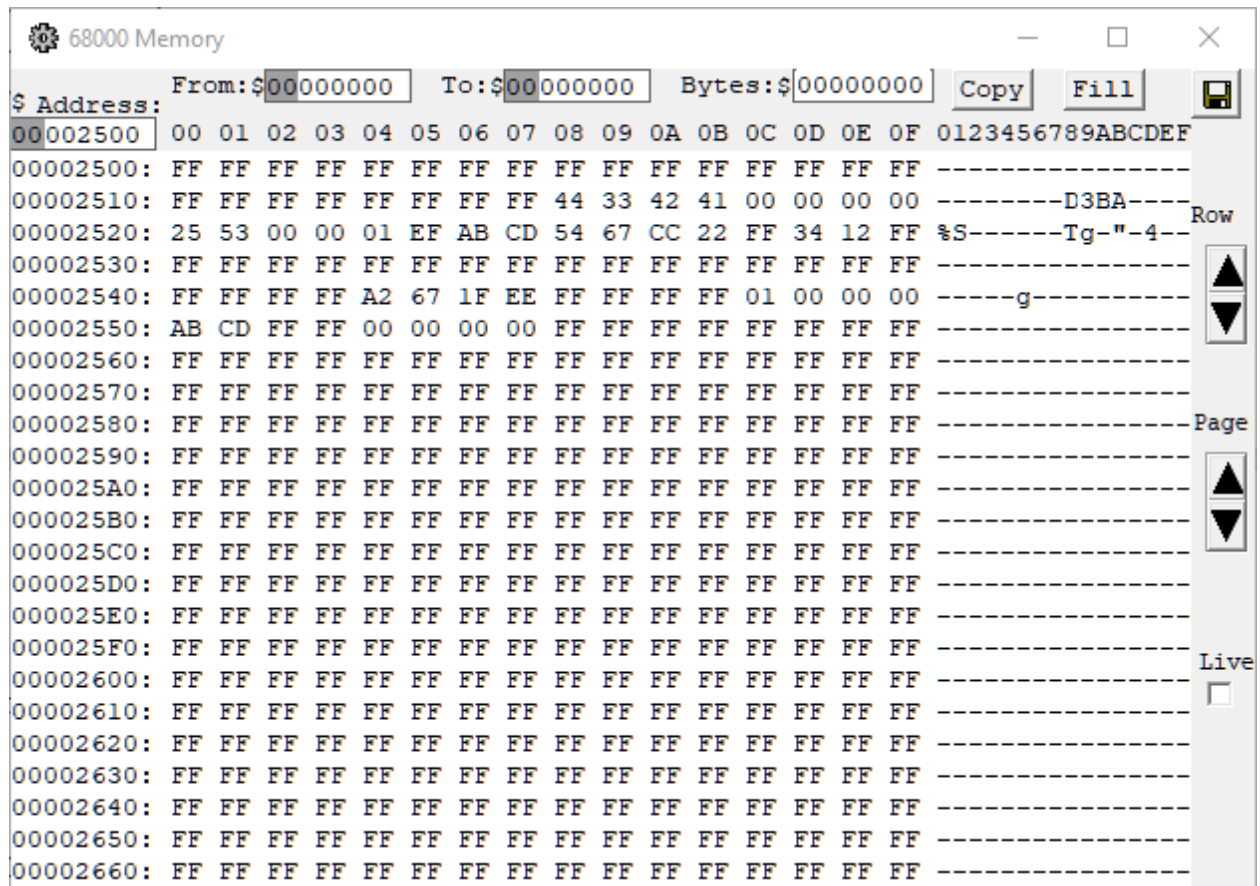


Figure 2 The memory window after initializing the registers and memory.

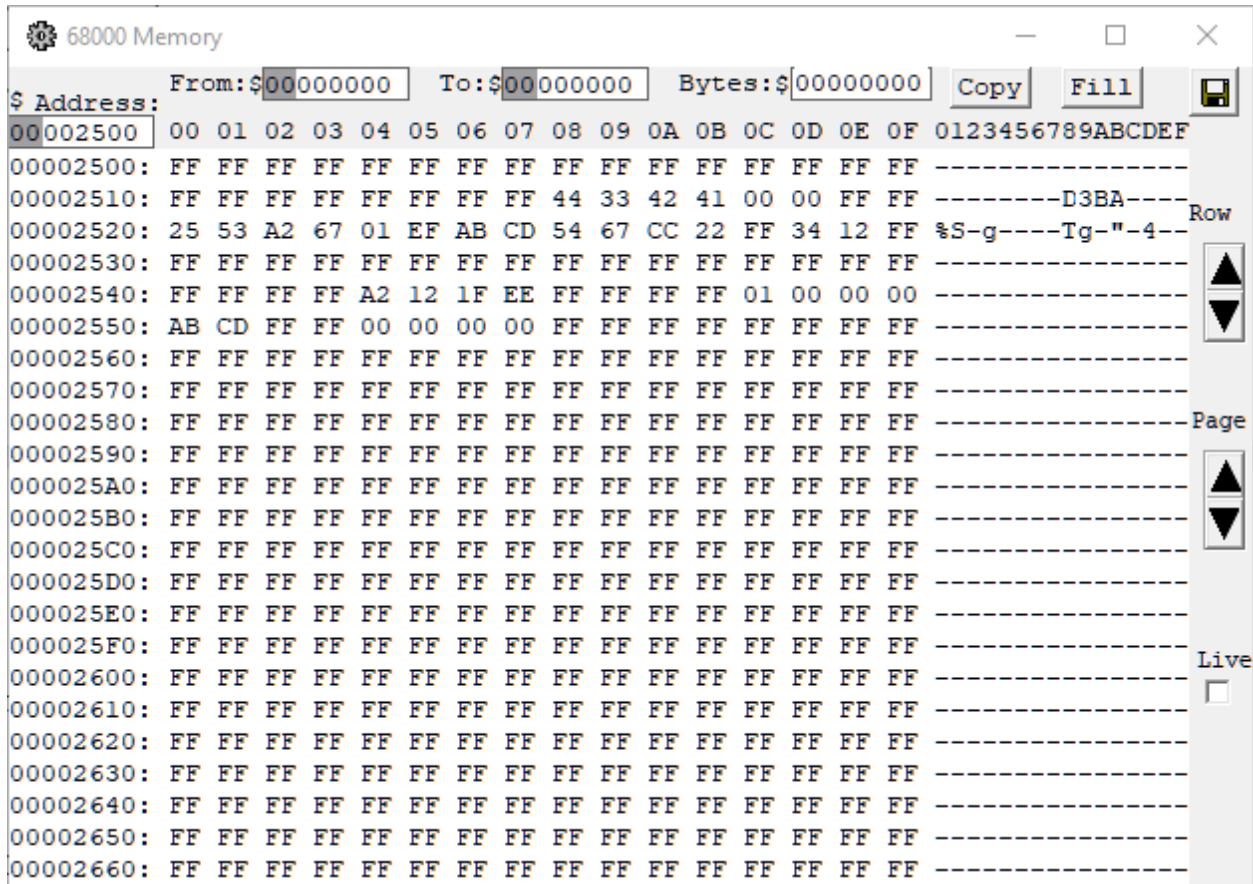


Figure 3 The memory window after executing the full program.

Conclusions:

This lab helped me learn more about addressing modes in 68K Assembly and some novel ways of initializing parts of memory. It also helped me better understand how bytes, words, and longwords word in 68k assembly, especially in regards to incrementing and decrementing. I also learned how to trace a program, which will help me understand my code better and finds bugs more easily.

Code Listing:

```
START:                                ; first instruction of program
MOVE.L  #$44334241,$00002518
MOVE.L  #$00000000,$0000251C
MOVE.L  #$25530000,$00002520
MOVE.L  #$01EFABCD,$00002524
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MOVE.L    #$5467CC22,$00002528
MOVE.L    #$FF3412FF,$0000252C
MOVE.L    #$A2671FEE,$00002544
MOVE.L    #$FFFFFFFF,$00002548
MOVE.L    #$01000000,$0000254C
MOVE.L    #$ABCDFFFF,$00002550
MOVE.L    #$00000000,$00002554

LEA.L     $002468FA,A3
LEA.L     $00002544,A4
LEA.L     $00002518,A6

MOVE.L    #$00000000,D3
MOVE.L    #$FFFFFFFF,D5
MOVE.L    #$00000000,D6

MOVE.B    3(A6),D3
MOVE.W    4(A4),6(A6)
MOVE.L    (A6)+,D5
MOVE.W    (A4)+,$002522
MOVE.B    $00252E,-(A4)
LEA.L     $00252A,A3
MOVE.W    (A3),D6

SIMHALT                                ; halt simulator
END      START                        ; last line of source

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RunLog:

EASy68K execution log file: 2/9/2023 9:37:49 AM

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