

C:\Users\alarpj\OneDrive - hawk.ut.edu\Documents\Education\Illinois Tech\Electrical\ECED 242\Program 4\Palay1.p04_368

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Registers

D0	00000000	D4	00000000	A0	00000000	A4	00000015	T S INT XNVEC Cycles	
SR								00100000000000000000 0	
D1	00000010	D5	00000000	A1	00000000	A5	00000000		
D2	00000000	D6	00000000	A2	00000000	A6	00000000	US	00FF0000 Clear Cycles
D3	00000000	D7	00000000	A3	00000000	A7	01000000	SS	01000000 PC=00001500

Address

Code

Line

Source

```

00001500 Starting Address
Assembler used: EASy68K Editor/Assembler v5.12.29
Created On: 3/23/2021 10:14:43 PM

00000000      1  *-----
00000000      2  * Title       : ECE 242 Programming Assignment #4
00000000      3  * Written by : Alan Palay1
00000000      4  * Date       : 03/23/2021
00000000      5  * Description: Addition of three values
00000000      6  *-----
00001500      7  ORG    $1500
00001500      8  START:      ;First instruction of program
00001500      9
00001500     10  MOVE.L A4, D0 //Move the value of A4 to D0
00001502     11  ADD.L D1,D0 //Add the value of D1 to D0
00001504     12  ADDI #5,D0 //Add the immediate value of 55 to D0
00001508     13  MOVE.L D0,A3 // Move the value in D0 to A3
0000150A     14
0000150A     15  SIMHALT //halt simulator
0000150E     16
0000150E     17  END    START      ; last line of source

```

No errors detected
No warnings generated

SYMBOL TABLE INFORMATION

Symbol-name	Value
START	1500

41

SO = 68KPROG 20CREATED BY EASY68K
.s68 file read successful

The screenshot displays the ECE 242 Program 4 IDE interface, showing the assembly code, registers, and memory dump.

Registers:

Register	Value
D0	0000000C
D1	00000010
D2	00000000
D3	00000000
D4	00000000
D5	00000000
D6	00000000
D7	00000000
A0	00000000
A1	00000000
A2	00000000
A3	00000000
A4	00000015
A5	00000000
A6	00000000
A7	01000000
SR	0010000000000000
US	00FF0000
PC	0000150E

Assembly Code:

```

00001500 Starting Address
Assembler used: EASy68K Editor/Assembler v5.12.29
Created On: 3/23/2021 10:14:43 PM

00000000 1 *-----
00000000 2 * Title      : ECE 242 Programming Assignment #4
00000000 3 * Written by : Alan Palayil
00000000 4 * Date       : 03/23/2021
00000000 5 * Description: Addition of three values
00000000 6 -----
00001500 7 ORG $1500
00001500 8 START:      ;First instruction of program
00001500 9
00001500 10 MOVEM.L A4, D0 //Move the value of A4 to D0
00001502 D0B1    11 ADD.L D1, D0 //Add the value of D1 to D0
00001504 0640 0037 12 ADDI #55, D0 //Add the immediate value of 55 to D0
00001506 2640    13 MOVEM.L D0, A3 // Move the value in D0 to A3
0000150A      14
0000150A FFFF FFFF 15 HALT //halt simulator
0000150E      16
0000150E 17 END START ; last line of source
  
```

Memory Dump:

Address	From	To	Bytes	Copy	Fill
00001500	00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F	0123456789ABCDEF			
00001501	20 0C D0 81 06 40 00 37 26 40 FF FF FF FF FF FF	-----0-748-----			
00001502	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001503	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001504	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001505	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001506	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001507	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001508	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001509	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150A	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150B	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150C	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150D	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150E	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
0000150F	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001600	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001601	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001602	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001603	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001604	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001605	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			
00001606	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	-----			

Symbol Table Information:

Symbol-name	Value
START	1500

Assembly Output:

```

S0 = 68KPROG 20CREATED BY EASy68K
.s68 file read successful
  
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