Lab Exercise Number 01

Introduction to the Assembly Program Development Procedure

Lab Partners:

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**Academic Honor Code:**

*"I have neither given nor received unauthorized aid in completing this work, nor have I presented someone else’s work as my own"*

Lab Dates: 1/21/16 – 1/28/16

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# Introduction:

The purpose of this lab was to get introduced to the 68000 Assembly Language, the complier (simulator) easy68k. The main purpose of this lab is to teach us the basics of the 68000 Assembly Language by letting us debug a written program with some mistakes in the code, and determine the final value that the program returns.

# Required Resources:

|  |  |
| --- | --- |
| Lab Resource Identification: | |
| Easy68k Assembler | v5.15.04 |

# Lab Description & Pre-Lab:

There was a typo in the program. We corrected the issue and ran the program. It complied successfully in EASy68K. We started the logging feature and ran program. It gave us the correct result.

# Set-up and Procedure:

We typed the program in the manual in easy68k. We went through the code line by line understood what the program does, and we literally went through the code line by line through the easy 68k simulator and got the final value that the program returns at the end

# Results:

The 8 byte number stored in MyResult was 5044FFFF.

# Conclusion:

This lab help us understand how to debug issues and run our programs. It also shows us how to create a log to collect data as we run the software. Later on we can review this data to see how data registers and values stored in memory change as we progress through the program.