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Lab 3 Report

Computer Organization

For lab 3 I again used the macros I have been implementing since lab1.

A screenshot of a computer program

Description automatically generated

Next, I declare the data to be used in the program. It was just three different strings and one integer value to be used as the number of inputs to use.

A screenshot of a computer program

Description automatically generated

In the main section I first prompt the user for the number of floats they would like to enter and then have them enter those values. As the values are entered there are added together into a single register. Once the total numbers are input it jumps to the next section where the value for the total input numbers is converted into a float. The total of the floats is then divided by the converted number to get the average. The program then exits.

A screenshot of a computer

Description automatically generated

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Overall, I did not experience any major difficulties. The main thing I learned was how mips differentiates between single point and double point floats and how they are stored in the co-processors.