Avery Peiffer

ECE 1195

Lab 4 Multiplication Program

Below is the multiplication program I used, both in assembly and as a TCL script.

Text

Description automatically generated

Below are screenshots of the results from my waveform. I looked at the signals from the special registers HI and LO to see what was being written into them after the multiplication program finished. It appears that nothing is being written into them, which means some aspect of the multiplication program is not working correctly. I believe that the actual multiplication is working, since I used the same multiplier from Lab 3, which worked in the Vivado simulation window. As a result, I think I made some error(s) with the control unit for the multiplier, because the signals are not being written back correctly.

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated with medium confidence