Project Specifications

This program decompiles any code given between the addresses labeled START\_INPUT and END\_INPUT inside the INPUT.X68 file. The core of the program which controls the input and testing loops is inside Decompile.X68. General print functions are labeled PRINT\_XXXX and are listed in the PRITN\_FUNCTIONS.X68 file. The code that controls the test is located inside OP\_CHECK.X68 and is labeled XXX\_OP\_CHECK. The code that is responsible for printing each operation is located in OP\_PRINT.X68 and is labeled PRINTING\_XXX. The code that is responsible for printing any EA modes is located in DECODE\_EA.X8. General OP variables which are needed for testing is located in OP\_CHECK.X68 and are labeled XXX\_VALUE. Output variables are located in OUTPUT\_VARIABLES.X68 and are labeled XXX\_TEXT.

All functions observe callee saved practice. Most functions also do not save D7, a flag variable to verify success, and/or A5, the current address. D7 is needed to verify the success of a function successfully decoding an operation or EA mode. A5 is not saved because every time the address is accessed for a variable it needs to advance accordingly in the function that called it.

In order to decompile a set of code load it into INPUT.X68 between START\_INPUT and END\_INPUT and verify that the inputted code does not include definitions used in the decompiler.