

This program is written in Java with the main method in Two\_Pass.java. To compile the script, execute Two\_Pass.java.

This script mimics the function of a two\_pass linker, the first pass goes through the modules, calculates the base address for each module and then goes through a list that stores all the usages in order to determine the absolute address for external addresses. Pass two utilizes the base address to generate the actual outputs.

The script has an arbitrary limit of 8 characters for its symbols. In addition to that, if an address is entered but it is either less than or more than 5 digits long, If the position for definition/usage is not a number, the program will output an error and terminate.