

**Method of running the program:**

From the terminal go to the directory where the folder is located. Once inside the directory, enter the command 'make'. After make is completed, run the desired program by ./{program name} in the same directory. For the names of the program, you can use 'ls' command in the same directory.

**Program Runthrough:**

The a.c program is run through above method and it shows first callup from a.c, then msg from funcB which displays a 64 bit integer and then transfers to function in C.c which displays its message.

Transfer of control without returning to a.c is by pushing the function which was extern in the file to the stack and then calling the ret function, which allowed it to be possible. System calls were made to write out the message in funcB.

Extern: used to declare global variable without assigning any memory to it. The registers were used for reading and writing the messages.