Dr. Eric M Schwartz

Homework 3 Revision 0

Instructions

Note: Late HW is **not** accepted! Put your "last name, first name," the course number (3744), and the HW number in the top right hand corner of the first page of all HW assignments. Also for all homework, use file name HWx.pdf, where x is replaced by the homework number, e.g., HW3.pdf for homework 3. Do NOT put your social security number or your UF ID number on your HW. Include all program listings (if any), i.e., list files. When possible, verify your program solutions with the simulator.

M & M Problems: 6.1, 6.2, 6.11, 6.12, 6.15, 6.16, 6.23 (for problem 6.23, also write the main routine to test this subroutine; print out a screenshot of the program with the result shown in a memory window; also include the asm file in your pdf submission).

Stack: Assume that the stack pointer is appropriately initialized. Push a 0x37, 0xAB, 0xEF12 onto the stack, call a subroutine. In the subroutine, push 0x1C onto the stack, and then return from subroutine. Show the stack growing and shrinking with each described step. What address do you return to with the described scenario? Predict the outcome (i.e., make a table) and then **TRY IT**, i.e., run this code by single stepping through it. Include a screen shot of your code that also shows the stack (in a memory window) after the return from subroutine. Also include the complete asm file in your pdf submission.