

Lab 6 grading sheet

Students name 1) Last _____ First _____ EID _____
Use same spelling as listed on Blackboard

Students name 2) Last _____ First _____ EID _____

Circle instructor: Valvano TTh5
Telang MWF2
Yerraballi TTh3:30 or MW3
Gerstlauer TTh2

1. Deliverables 20%:

0) This sheet

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Combine the following components in this order into one doc docx or pdf file and upload it to Blackboard before your checkout time. Have this file open on the computer during demonstration.

- 1) Two screenshots showing the system running in simulation mode
(e.g., Welcome and 342)
- 2) Circuit diagram, using PCB Artist,
- 3) Assembly source code of your final program
(device driver plus main program that tests the system)

2. Performance 40%:

Does it handle correctly all situations as specified?
How pretty is the software?

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1) 2)

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3. Demonstration 40% (TAs will ask similar, but not exactly identical questions):

You will also be required to demonstrate the proper operation on the actual 9S12. During demonstration to the TA, you will run your system on the simulator and show the binding, allocation/initialization, access and deallocation of the local variables. Each time a function is called, an **activation record** is created on the stack, which includes parameters passed on the stack (none in this lab), the return address, and the local variables. You will be asked to create a stack window and identify the activation records created during the execution of `LCD_OutDec`. TAs may ask you questions on LCD interfacing, and programming. What is the difference between post and pre-increment modes of addressing? What do the E, RS and RW signal lines on the LCD signify? What does blind cycle synchronization mean in the context of communication with the LCD? Explain the voltage divider principle as it applies to the potentiometer used to adjust LCD contrast. The TA will ask to see your implementation local variables and ask you to explain the four step process (binding, allocation/initialization, access and deallocation). You should be able to draw stack pictures.

1) 2)

Total:

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