

3. (5) Use your favorite Internet resources to determine what relevance the "Thumb" instruction set has to ARM processors such as the Cortex-M4. What makes Thumb instructions special?

Thumb instructions are only 16 bits, but decompress into full 32-bit ARM instructions without performance loss.

4. (5) What file in the "Lab Materials" module on Canvas contains an assembly language reference? How many pages is it?

Cortex-M4 ISA.pdf

169 pages

5. (5) What kind of information is contained in the Tiva Data Sheet (called the "Tiva Manual" on Canvas)?

info for the TM4C123CH6PM microcontroller, describing the functional blocks of the system-on-chip device around the ARM cortex-M4F core.

6. (3) From the Tiva Reference Manual, find the **Revision History** section and then indicate the most recent revision date, the revision number and at least one change that was made in this newest version.

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In times chapter, removed erroneous references to TCACT bit field

7. (16) Label what each arrow in Figure 1 points to on the Tiva C board. There are 14 arrows.

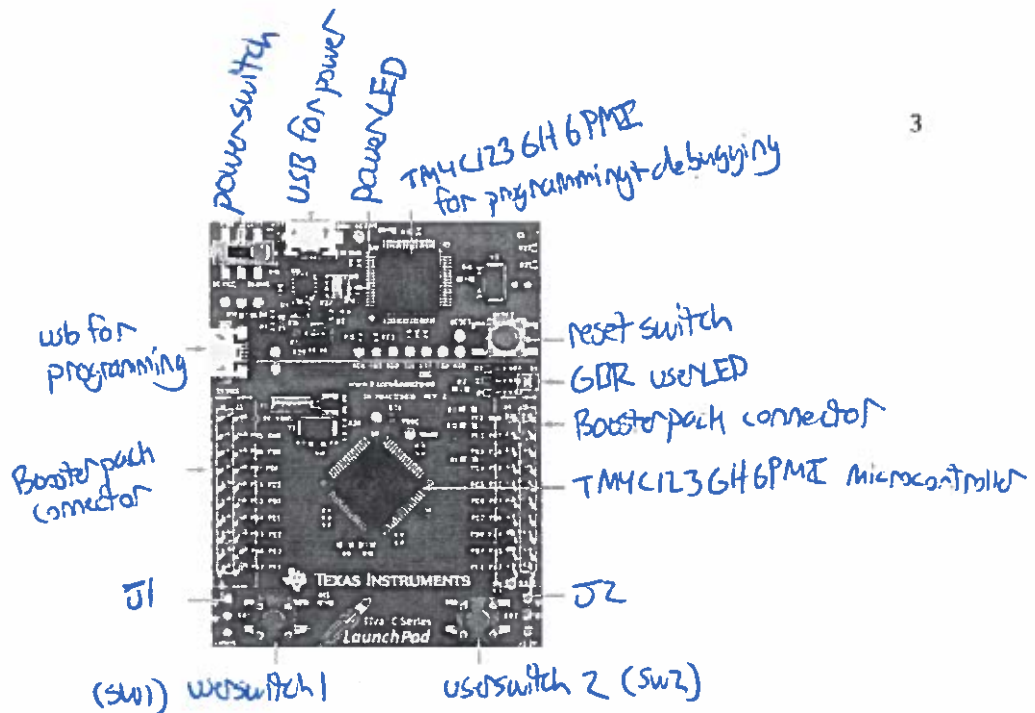


Figure 1: The Tiva C LaunchPad

4 Policies (70 points)

- (10) List what collaboration with fellow classmates is allowed.

- sharing small segments of code
- working together
- general conceptual understanding

- (5) What must be done if you utilize any materials not provided to you by the instructor or TA when working on the lab?

Anything that I didn't create, and was not provided to me, must have credit given to the source that created it. They must be properly cited.

- (5) What will happen if material is copied from a source to answer a question but does not have quotation marks surrounding the copied materials, even if it is properly cited?

point deduction

4. (10) If a lab is due on May 2nd at 8:00 AM, but the student submits the work at noon on May 7th, what percent late penalty will the lab receive?

-60%

2nd 3rd 4 5 6 7
8am 0
12pm -10 -10 -10 -10 -10

5. (10) What happens to the points earned from demonstrating the functionality of a task if the code is not submitted?

No points will be awarded.

6. (30) Write the following statement:

I have read the Michigan Technological University Academic and Community Conduct Policy, EE 3171 Lab Policies and Syllabus. I agree to follow all rules and guidelines provided. I understand that if I violate any of the policies or rules I may lose points or be referred to the Academic and Community Conduct Board to be reviewed for other sanctions, which may in some cases result in suspension or expulsion.

AND sign your name at the end.

I have read the Michigan Technological University Academic and Community Conduct policy, EE3171 Lab Policies and Syllabus. I agree to follow all rules and guidelines provided. I understand that if I violate any of the policies or rules I may lose points or be referred to the Academic and Community Conduct Board to be reviewed for other sanctions, which may in some cases result in suspension or expulsion.

Signature:

Julie CR

Date:

9/13/2017