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UTAustinX: UT.6.01x Embedded Systems - Shape the World

KarenWest (/dashboard) ▼

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Things to think about but NOT implement in your lab:
1) How could you make the LED flash slower?
2) How could you make the LED flash blue-yellow instead of blue-red?

TROUBLESHOOTING

If Keil does not execute try these steps
- Uninstall Keil
- Download it again, it should be 563 MB (591,089,664 bytes)
- Install Keil again
If this doesn't work, log into the ARM University at **http://www.arm.com/university/** (http://www.arm.com/university) and ask for help installing Keil 4.73

If you can compile, but the **simulator doesn't work**
1) Make sure the simulator is selected in the Options->Debug tab.
2) Make sure the simulator parameter is **-pCM4 -dedXLab2**
3) If the simulator starts but you do not see the grading window, start the simulator and execute
Peripherals->TExaSPortF
4) If there is an error "The specified DLL was not found:", look in the **Keil\ARM\BIN** folder. Sort the files by date. You should see **edXLab2.dll edXLab5.dll edXLab6.dll edXLab7.dll TExaS.dll** and **LaunchPadDLL.dll.** If not, then you need to install TExaS, see step 2 of **http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html** (http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html)

If you can compile, but **cannot download** to the board
1) Make sure the USB cable is connected to the DEBUG and not the DEVICE
2) Make sure the green power light is on (slide power to DEBUG)
3) Make sure the **Options->Debug** shows the **Stellaris ICDI**,
4) Make sure the **Options->Utilities** also shows the **Stellaris ICDI**.
5) Open windows **Device Manager** and look for yellow exclamation points (for any yellow tags on Stellaris devices, right click and install driver again), see step 3 of **http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html** (http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html)
If you are have trouble installing drivers, then try the alternate method using the process described by Texas Instruments **http://www.ti.com/tool/stellaris_icdi_drivers** (http://www.ti.com/tool/stellaris_icdi_drivers).
If this doesn't work, log into the Texas Instruments E2E Community at **http://e2e.ti.com/** (http://e2e.ti.com/) and pose driver installation questions in this forum.

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If you can compile and download to the board, but **cannot run the real board grader**

1) Make sure the **Options->Target** selects **TExaS** as the **Operating System**

2) In the debugger, you can activate the Real board grader by executing **Debug->OSsupport** and selecting **TExaS Grader 2.0**. If the TExaS Grader2.0 window opens but shows a **Red error**, then you need to install/reinstall TExaS. When reinstalling TExaS, change the folder name of any Lab code that you have edited, so the reinstall will not replace your code. To install/reinstall see step 2 of **http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html** (http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html)3) In the Keil folder, there is a **TOOLS.INI** file. View it in NotePad and make sure there is a line

RTOS2=TExaS.DLL ("TExaS")

Show here as 2, but any number is OK**.**

4) Look in the Keil\ARM\BIN folder. Sort the files by date. You should see **TExaS.dll**. If not, then you need to install/reinstall TExaS. When reinstalling TExaS, change the folder name of any Lab code that you have edited, so the reinstall will not replace your code. To install/reinstall see step 2 of **http://edx-org-utaustinx.s3.amazonaws.com/UT601x /download.html** (http://edx-org-utaustinx.s3.amazonaws.com/UT601x/download.html)

REFERENCE

Portions of this chapter were reprinted with approval from Embedded Systems: Introduction to ARM Cortex-M Microcontrollers, 2013, ISBN: 978-1477508992. For more information on this book, see **http://users.ece.utexas.edu /~valvano/arm/outline1.htm** (http://users.ece.utexas.edu/~valvano/arm/outline1.htm)

Specific reading relevant to Chapter 2:
    Book Volume 1 Sections 1.2, 1.5, 1.6, 1.7, 2.1, 2.2, 3.1, 3.2. 3.3, 3.5

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