

ECE 423 Troubleshooting Guide

This page will be used to post common problems that students are having with their DSK's, and what solutions have solved these problems. If you have any reoccurring problems, please email them to the Instructor along with the solution (if known), and they will be posted here.

Warnings:

1. These DSK boards are sensitive to electrostatic discharge. So far, this has not been an issue with the boards, but you are encouraged **NOT** to touch various chips on the board whenever possible.
2. Please make sure to only use the supplied power supply for the board. Some laptop chargers will plug into the board but will likely damage the board.

First Things to Try:

1. Make sure the board is properly connected. You can run a quick test by selecting GEL -> Quick Test in CCS. There is a more thorough test if this test gives ambiguous results.
2. Make sure the program loaded correctly onto the board.
3. Rarely the board will go into a hung state which will require disconnecting from the PC, power-cycling, and re-connecting (see below).

Problem: The DSK will not run any of the programs loaded onto it.

Solution: Occasionally, these DSK boards will behave erratically. When this happens, stop any executing programs, close CCS, and un-plug the power from the DSK. Plug the power cable back into the DSK and let the DSK go through its warmup cycle (let the LED's count from 0 to 7 (in binary) and then blink a few times). Then, restart CCS and proceed from there.

Problem: When running the polling version of sine wave generating program, the output looks distorted.

Solution: If an interrupt-driven program was executed on the DSK before the polling program AND the DSK was not reset, then the DSK is still processing interrupts. The solution to this is to reset the DSK and re-load the program onto the DSK.

Problem: When compiling a program, you get an error regarding "unable to find c_int00".

Solution: A run-time support library is not associated with your project. Add this file to your project.