

Mistakes to watch out for when compiling and running assembly code in CCS

Version 1.1

The following pitfalls have all been explained in the class lectures (Screencasts), but I am summarizing them here also. Every time I add something new to this document, I will increase the version number.

Reminder: *Whenever you communicate code either in submitting your assignments or in an email, make sure that it is not a picture or a pdf document. Code should always be sent in plain text format, preferably in MS Word format.*

1. **Never copy and paste code directly from a pdf document into CCS.** If you do then you will get a ton of errors at compile time. This is because of all the invisible control characters that are used in a pdf document. These invisible control characters will totally confuse CCS. The code will look right to the eye since the control characters are not visible. Type the code into CCS by hand.
2. When you start a new project, make sure that it is an **“Empty Assembly-only Project”** project. If your code files end with an **.asm** extension, then you are OK. If your code files end with a **.c** or some other extension, then you don't have the right project type.
3. All the **labels in your code should be flush to the left** with no space between the label and the left margin. Everything else, besides the labels, should be separated from the left margin by at least one space. The compiler will generate a lot of errors if you do not follow this rule.
4. When you are in the debugger and you are running a program, you must **suspend it first** before looking into the core registers and the memory browser. When you are single stepping a program then at each step the program gets suspended, so you can look into the core registers and memory browser after each step.
5. Your launchpad should be connected to your computer when you enter the debugger after pressing the bug button
6. Install CCS on your **main drive** (C Drive for Windows), that is where TI installs some important functionality by default. You may encounter problems if CCS is not installed on the main drive.
- 7 **Do not use spaces in the names of folders and files** for your projects. CCS does not play well with spaces in the names of folders and files. Make sure there are no spaces in the whole path of your project files

8 .text (FRAM, ROM) starts from the address 0x4400

9 .data (RAM) starts from the address 0x1C00