Introduction

Code Composer Studio (CCS) is a Texas Instruments supported software package for assembling and linking code to program and use any of the digital signal processors (DSPs) and MSP430 microcontrollers in the TI product line. i.e. MSP430XXX, TMS320C2X, TMS320C3X, TMS320C5X, etc. This tool also contains a C/C++ compiler, debugger and programming software to be used in conjunction with an XDS100 programmer (used for DSPs) and MSP-FET programmer (used on MSP430 micro-controllers).

Procedure

1. Go to www.ti.com and obtain a personal account and password. Next, search for “Code Composer” and open this page. Do not go to or install Code Composer v3.3! Scroll down to the “Features” and select the free “Core Edition” download that supports C28X and MSP430 devices.

2. Windows XP users can skip this step and proceed on to #4 below. Windows Vista users must turn off user account control before installing CCS. This is performed by:

   Start > control panel > user accounts > turn user account control off.

   After the CCS installation has completed, you may turn user account control back on.

3. Click on the executable and install the software. Use the default TI directory for the software.

   a. When asked to select the Product Configuration, select “Microcontroller Edition” and continue.

   b. Next uncheck the following categories: “XDS560”, “Spectrum Digital” and “Blackhawk”. Make sure “XDS100” and “MSP430 USB FET” are checked since we will use the XDS100 for programming DSPs and the MSP430-FET to program MSP430 devices.

4. Run CCS for the first time.

   Use the default workspace or make your own directory for this. If you make your own directory, press the “Use this as default and don’t ask again” check box. The workspace is the top level organization that holds all your projects. It allows you to quickly switch between projects (lab code) and re-use code if necessary.


   Check out www.ti.com/MSP430 for documentation & code examples. Search for the MSP430 that they plan to use or see a selection guide to pick out a part. i.e. MSP430F2012 Download the data sheet for this part and user guides to help you understand the internal peripherals. The best place to start is to look for the code examples online!