Code Composer Studio v4 Hello World Sample Application for OMAP35x SOMs
Application Note 465

Logic PD // Products
Published: April 2011

Abstract

This application note provides basic instructions on using Code Composer Studio v4 with the OMAP35x SOM-LV or OMAP35x Torpedo SOM.

Revision History

REV	EDITOR	DESCRIPTION	APPROVAL	DATE
1	BSB	Preliminary draft	—	01/20/11
A	SMC, JCA	Initial release	BSB	04/07/11

Table of Contents

1 Introduction

This application note provides basic instructions on accessing an OMAP35x SOM-LV or OMAP35x Torpedo SOM with Code Composer Studio v4. A Hello World sample application is included to assist with this process.

1.1 Requirements

This application note assumes you have the following items:

- Zoom™ OMAP35x Development Kit (SOM-LV) or Zoom OMAP35x Torpedo Development Kit (hereafter, OMAP35x Development Kit)
- Texas Instruments (TI) Code Composer Studio v4 (CCS4)
- [Blackhawk XDS100v2 model D USB JTAG controller](#)[1] (pictured below)

- Host PC with active Internet connection

2 Hello World Sample Application

2.1 Setup

1. Download the OMAP35x Hello World CCS4 sample application from Logic PD's [website](#)[2].

2. Locate the *101xxxx_OMAP35x_CCS4_Hello_World.zip* file and extract the files to *C:\CCS4.*

   C:\CCS4\LogicPD_CCS4_Hello_World_Workspace_rel_0.0.1
   C:\CCS4\OMAP3530_Hello_ARM
   C:\CCS4\LogicPD_Omap35xx_CortexA8.gel

3. If not already installed on your host PC, install CCS4 (information about CCS4 can be found on TI's [wiki](#)[3]).

2.2 Load Sample Application

1. Launch Code Composer Studio v4 by selecting **Start > All Programs > Texas Instruments > Code Composer Studio v4.x.x > Code Composer Studio v4**.

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[1] http://www.blackhawk-dsp.com/products/USB100.aspx
[2] http://support.logicpd.com/downloads/1379/
[3] http://processors.wiki.ti.com/index.php/Category:Code_Composer_Studio_v4

2. When asked to choose your workspace folder, point CCS4 to
   *C:\CCS4\LogicPD_CCS4_Hello_World_Workspace_rel_0.0.1*
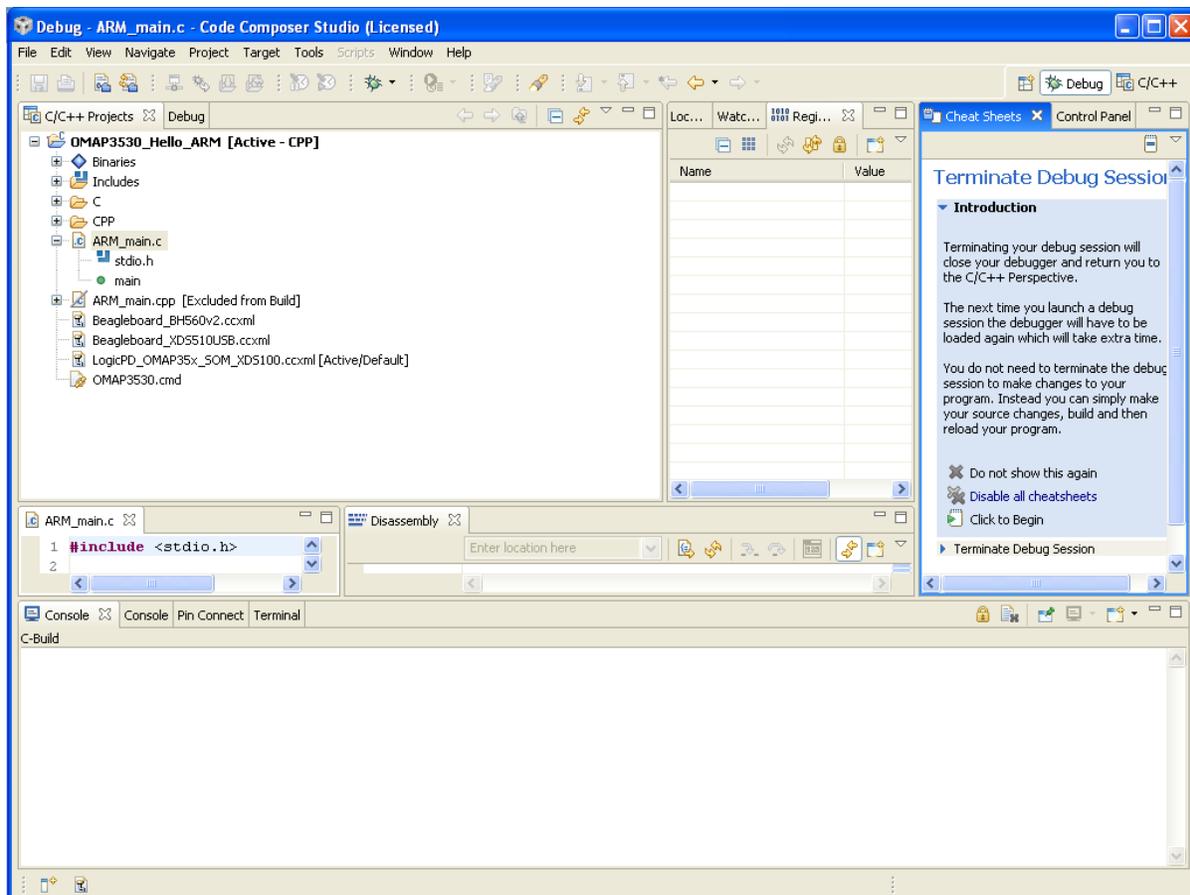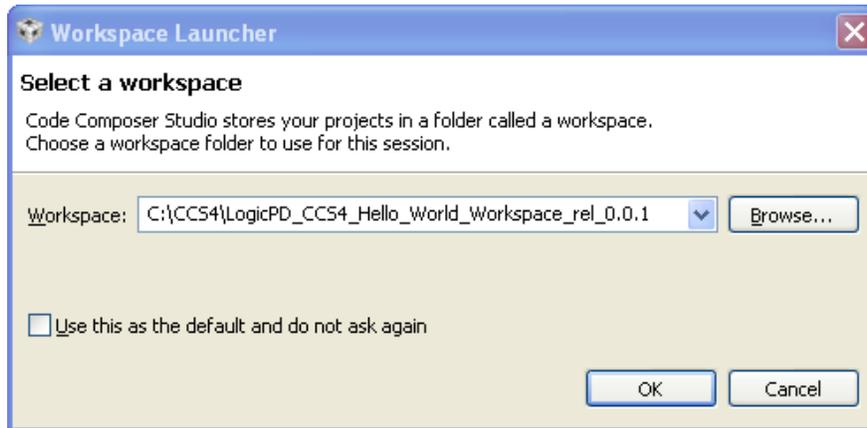
3. Connect the XDS100v2 USB JTAG controller to your host PC and OMAP35x Development Kit as seen in the figure below.
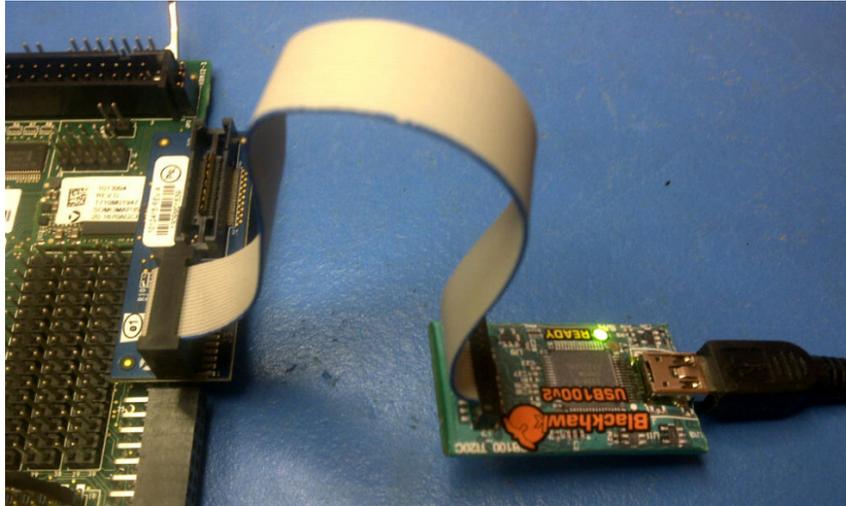
4. Power on your OMAP35x Development Kit.

5. C and C++ files are provided with the sample application; either file can be included or excluded (by default the C file is included and the C++ is excluded). To include a file, right-click on the file name and select **Exclude File(s) from Build**. This will remove the checkmark that previously appeared next to this option.
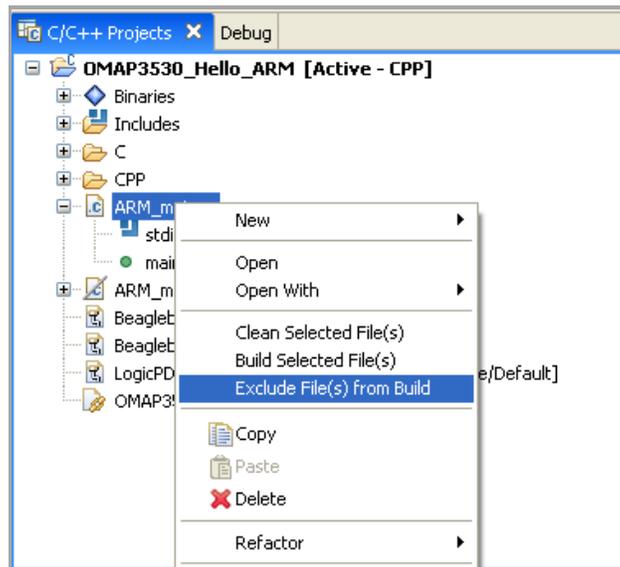
2.3 Debug Sample Application

1. To start debugging, select **Target > Debug Active Project**. CCS4 will begin to access your target (OMAP35x Development Kit) through the XDS100v2 JTAG controller.
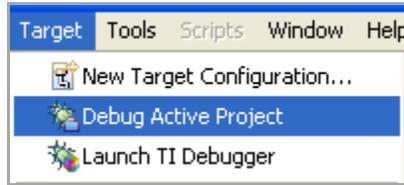
2. Your system is now available for debugging the Hello World application. Click on the Debug Tab to see the stepping options.
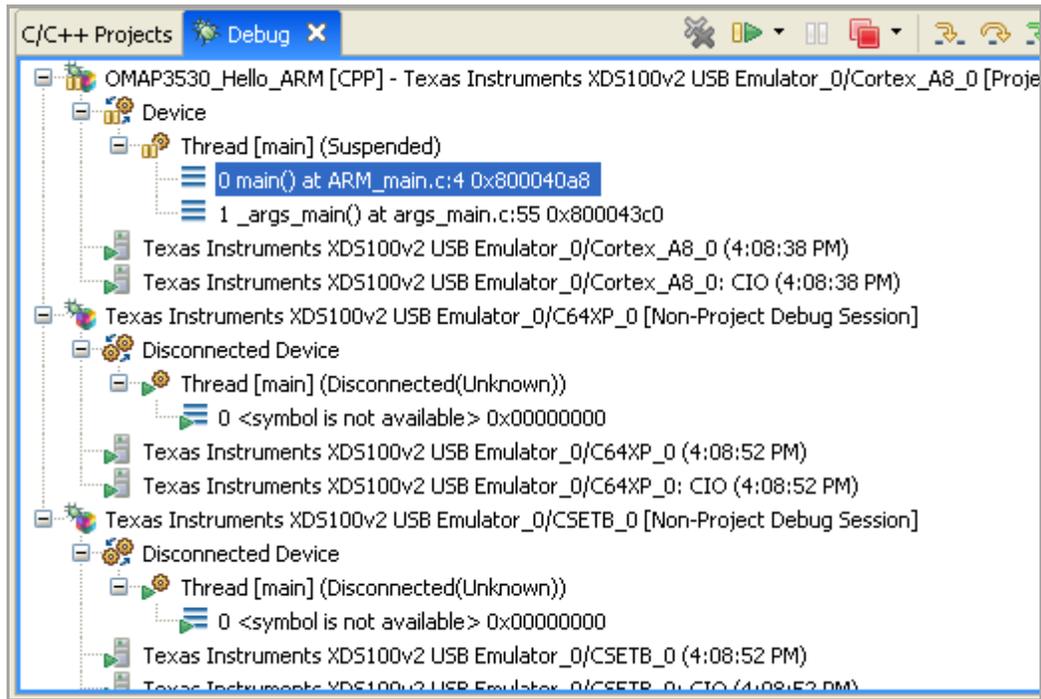
3 Change Emulation Debugger within Hello World Project

1. Open the *LogicPD_OMAP35x_SOM_XDS100.ccxml* file.

2. In the ccxml editor, change the connection option for the desired targeted emulator.

3. Click the **Save** button to save your updated ccxml file.
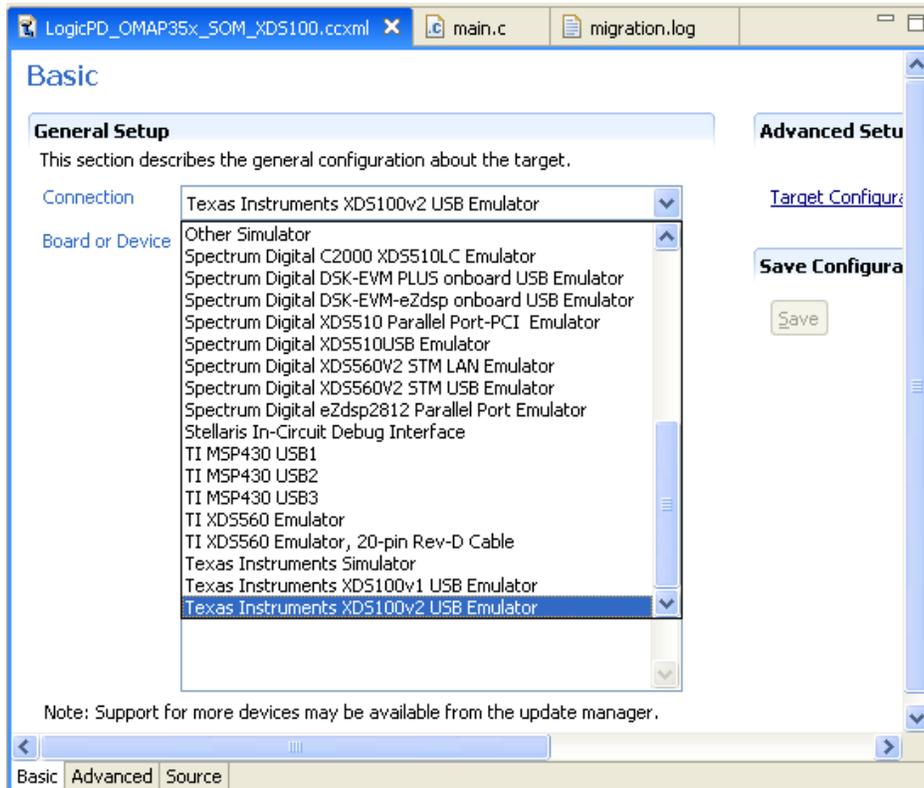
4 Summary

This application note provided basic instructions on communicating with an OMAP35x SOM-LV or OMAP35x Torpedo SOM using Code Composer Studio v4.

Appendix A: CCSv4 File Locations

Location of Sample Board GEL Files

.\Program Files\Texas Instruments\ccsv4\emulation\boards

Location of Emulation Configuration files

.\Program Files\Texas Instruments\ccsv4\common\targetdb\configurations