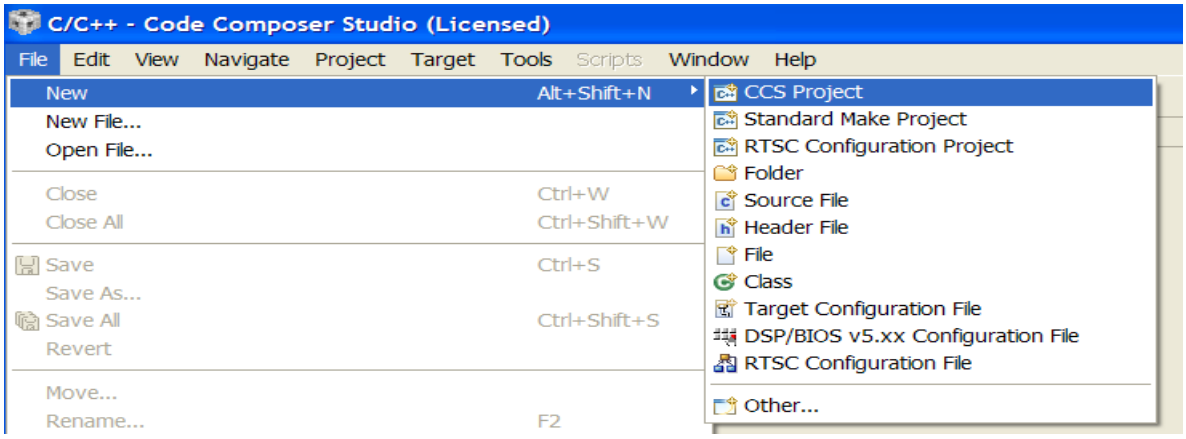
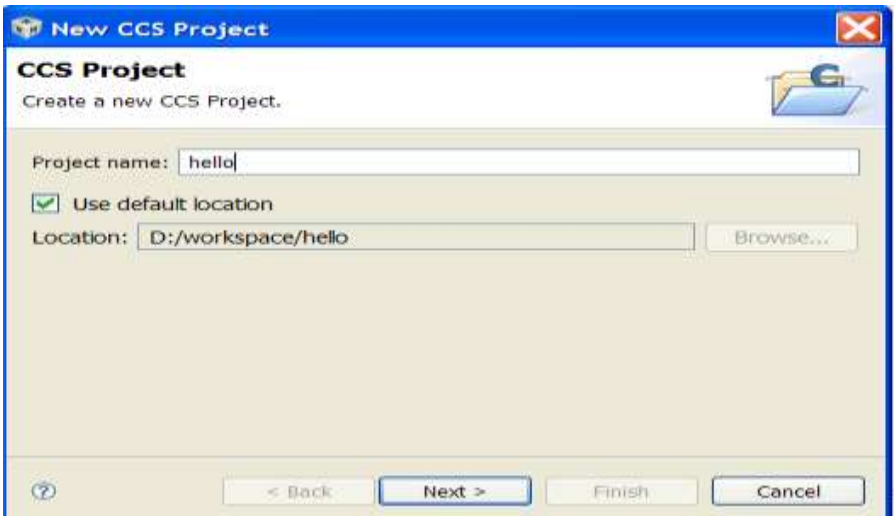
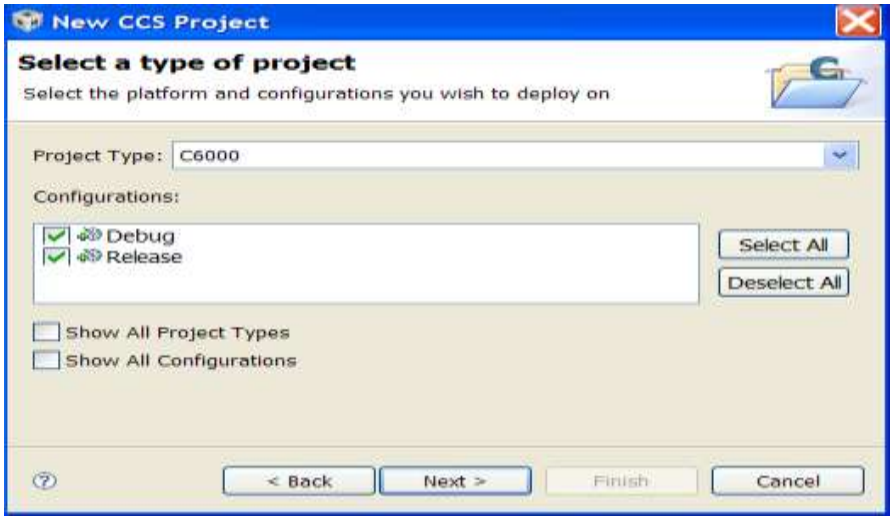
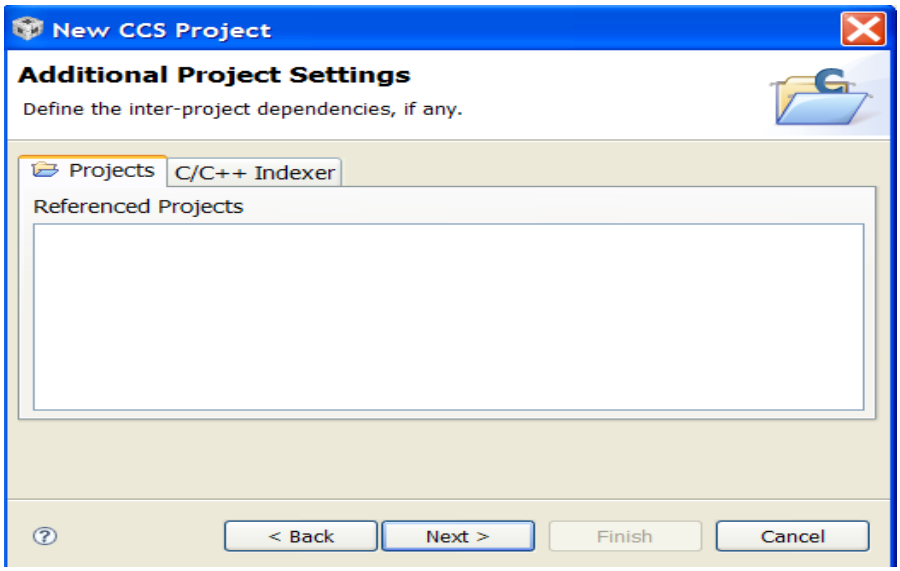
Steps that I followed to run a project on TMS320C6472-EVM using XDS100 USB emulator on CCS V4

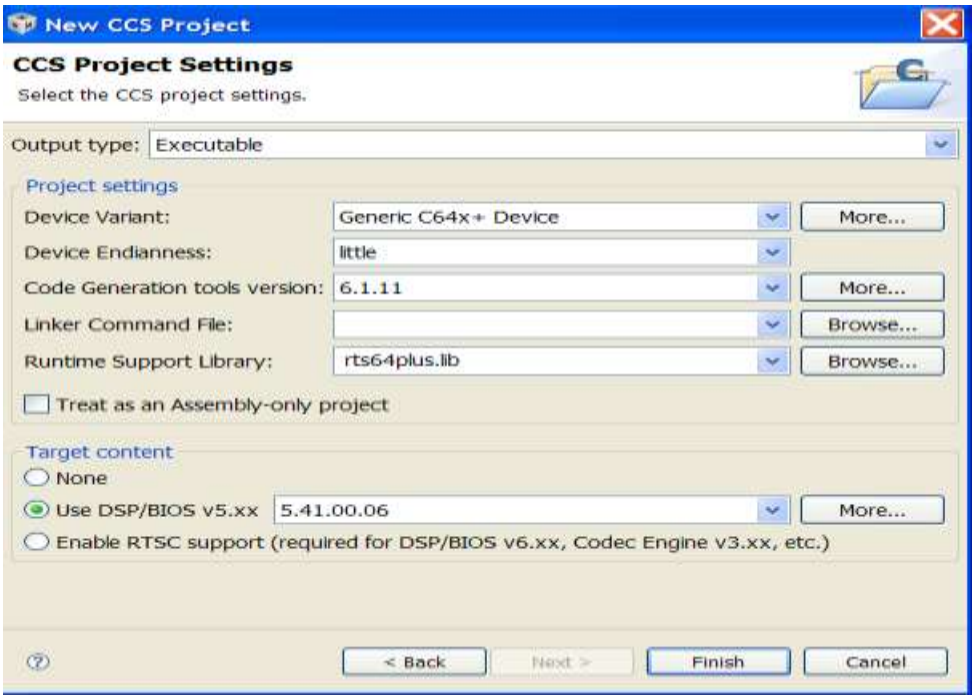
1-Create new project



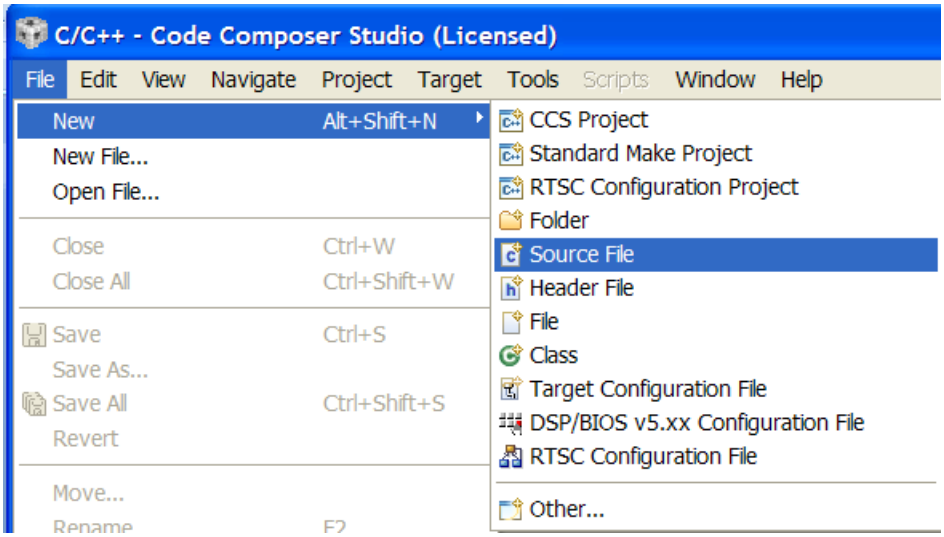


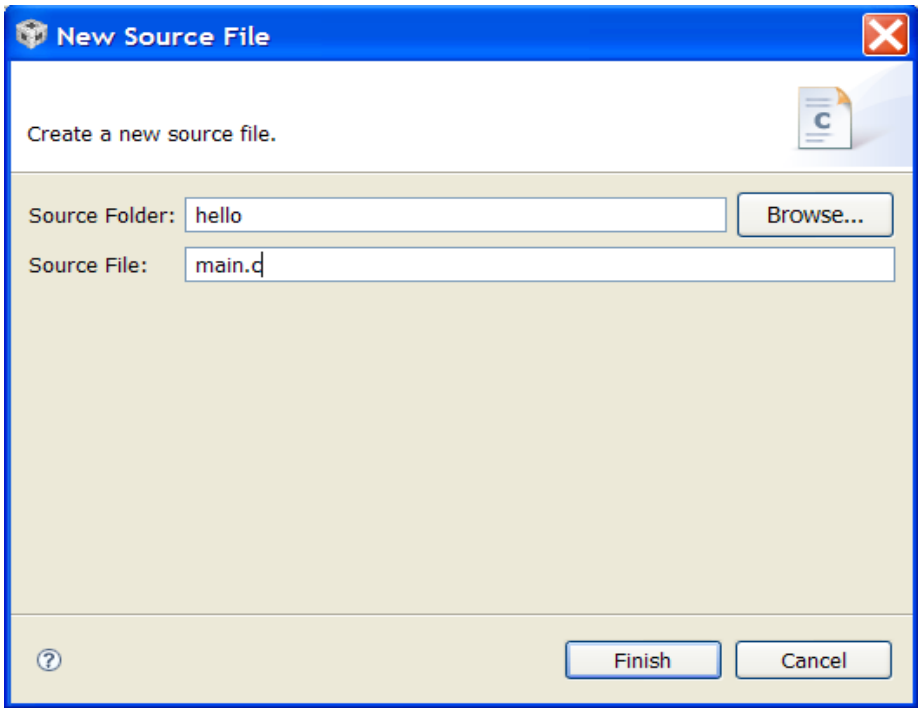

New CCS Project
Select a type of project
Select the platform and configurations you wish to deploy on
Project Type: C6000
Configurations:
Debug
Release
Select All
Deselect All
Show All Project Types
Show All Configurations
< Back
Next >
Finish
Cancel

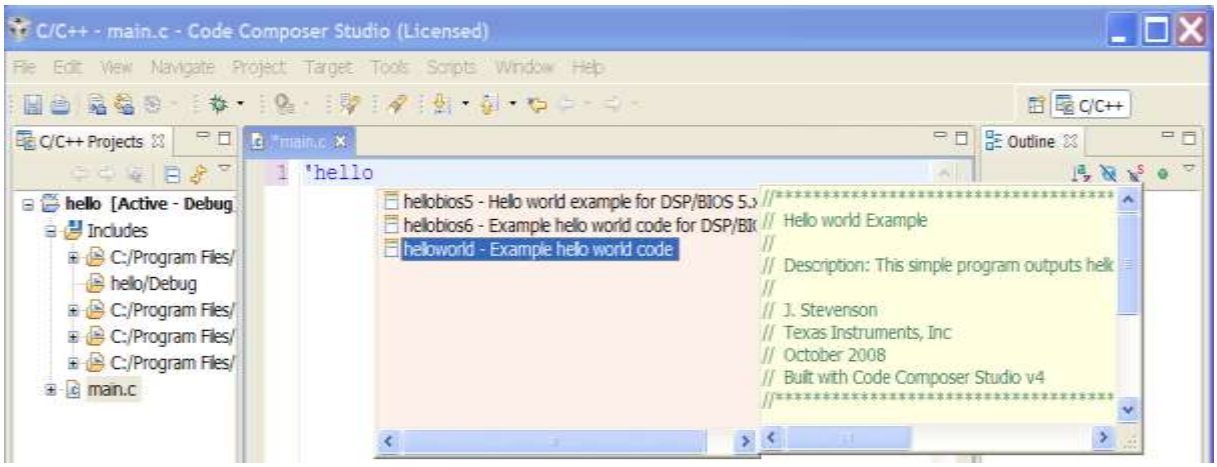

New CCS Project
Additional Project Settings
Define the inter-project dependencies, if any.
Projects
C/C++ Indexer
Referenced Projects
< Back
Next >
Finish
Cancel

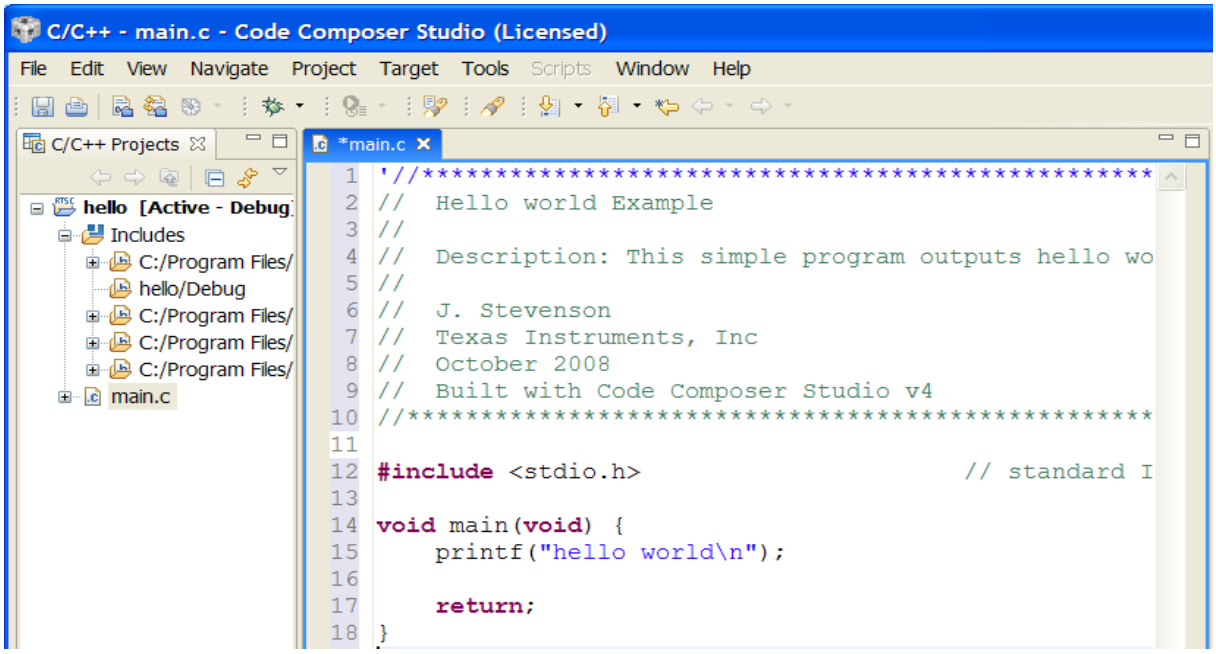

New CCS Project
CCS Project Settings
Select the CCS project settings.
Output type: Executable
Project settings
Device Variant: Generic C64x+ Device
More...
Device Endianness: little
Code Generation tools version: 6.1.11
More...
Linker Command File:
Browse...
Runtime Support Library: rts64plus.lib
Browse...
Treat as an Assembly-only project
Target content
None
Use DSP/BIOS v5.xx 5.41.00.06
More...
Enable RTSC support (required for DSP/BIOS v6.xx, Codec Engine v3.xx, etc.)
< Back
Next >
Finish
Cancel

2-Add source File

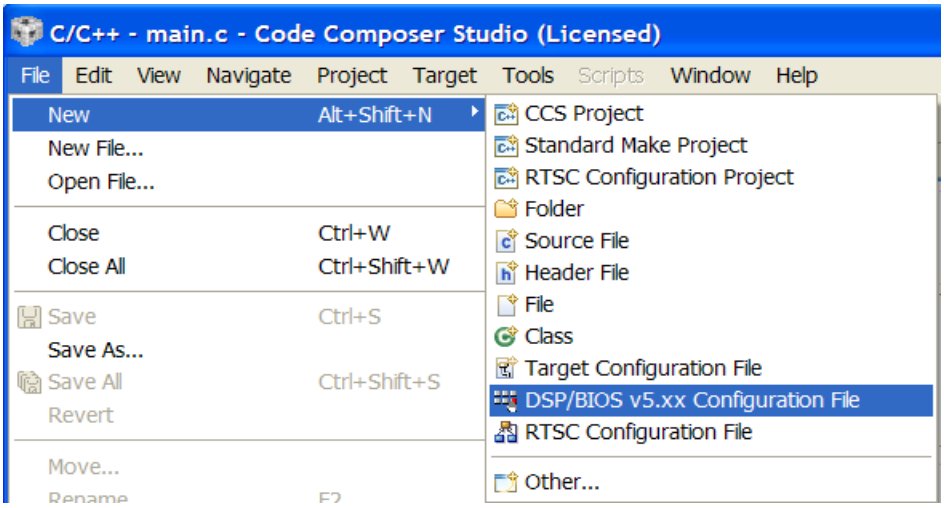


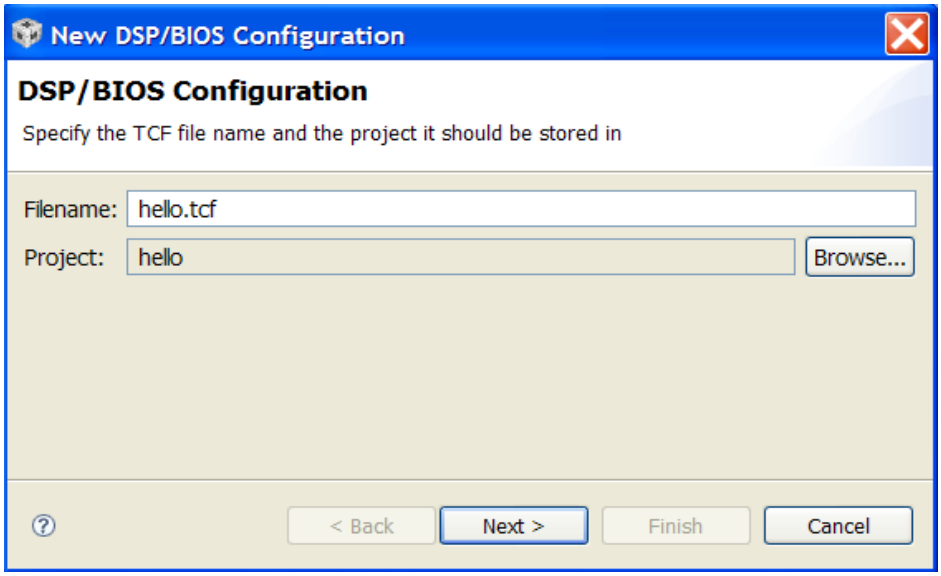


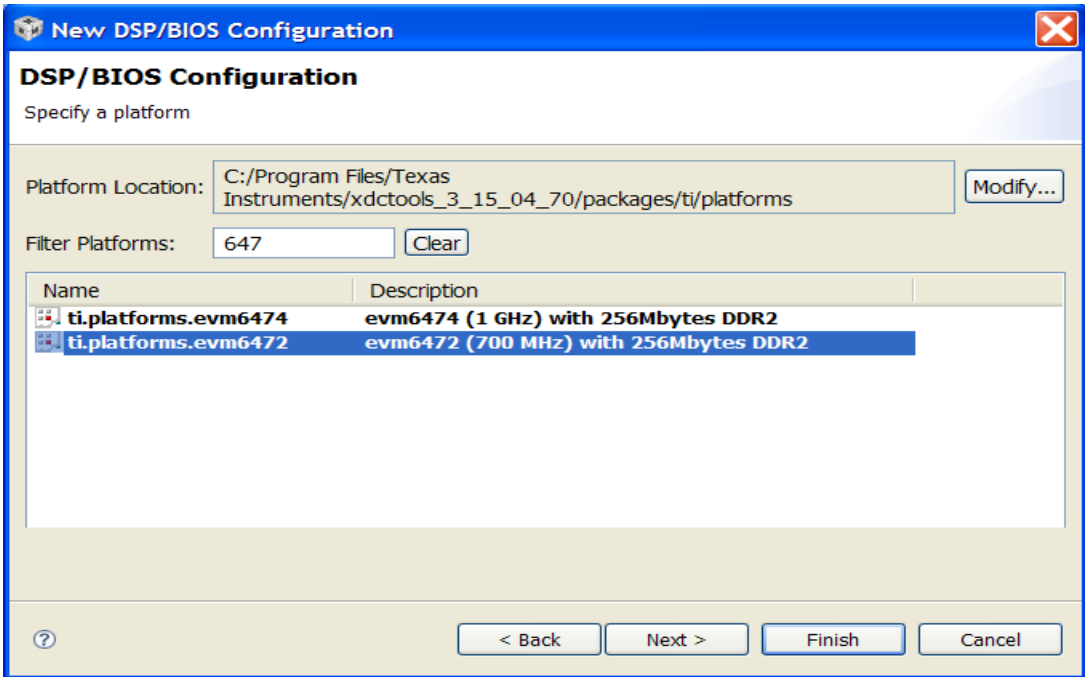


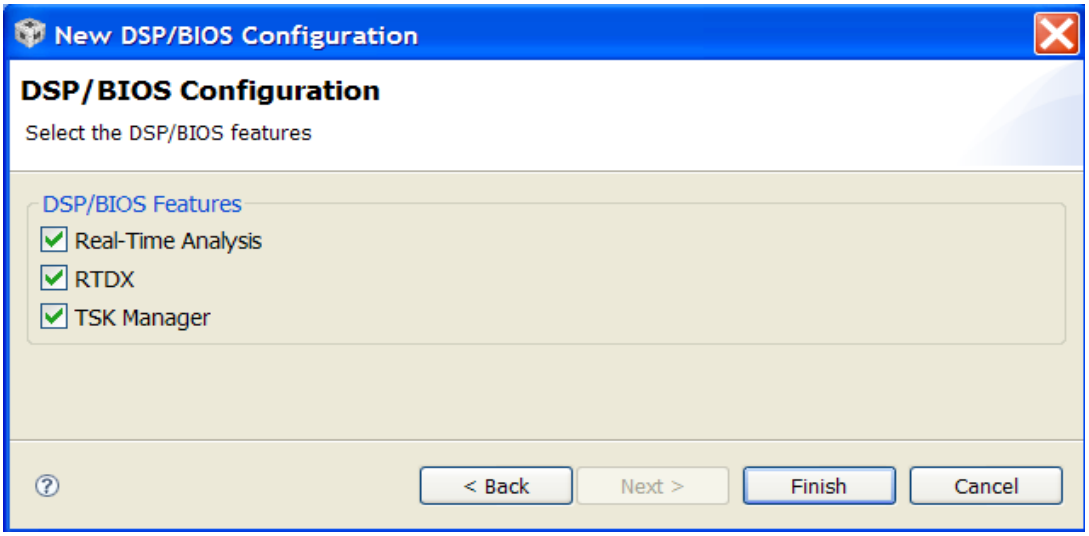


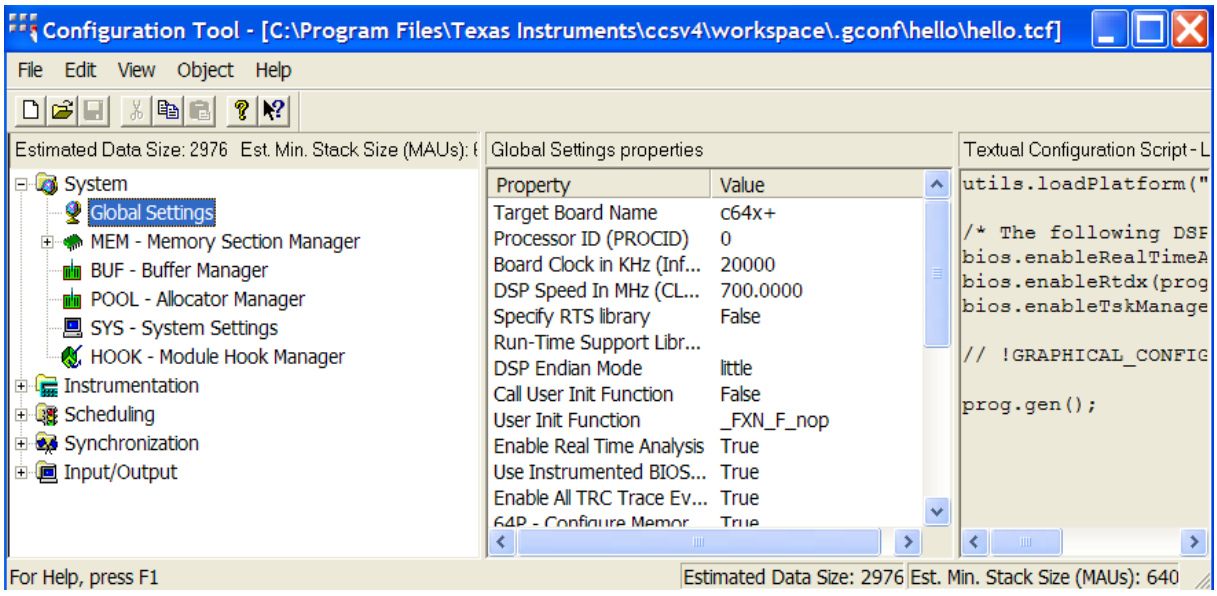
3- ADD DSP/BIOS Configuration



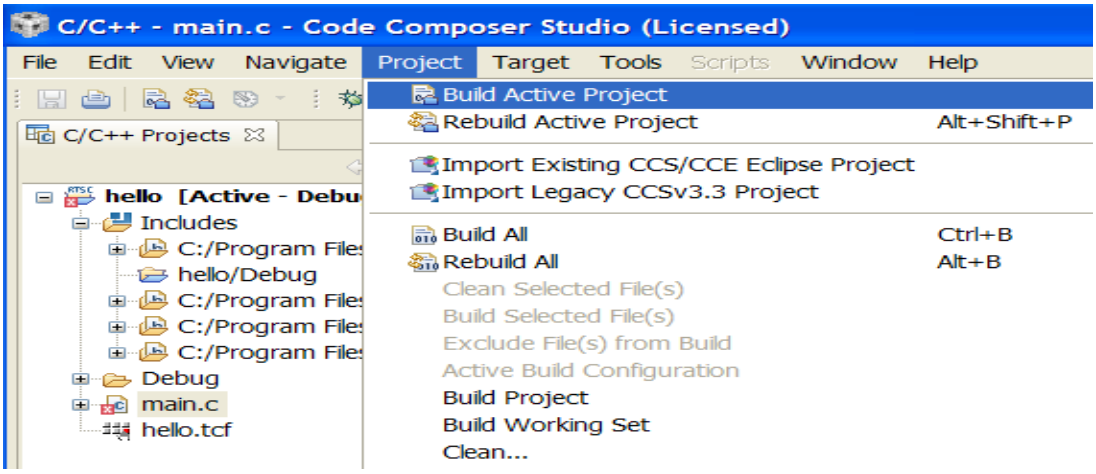


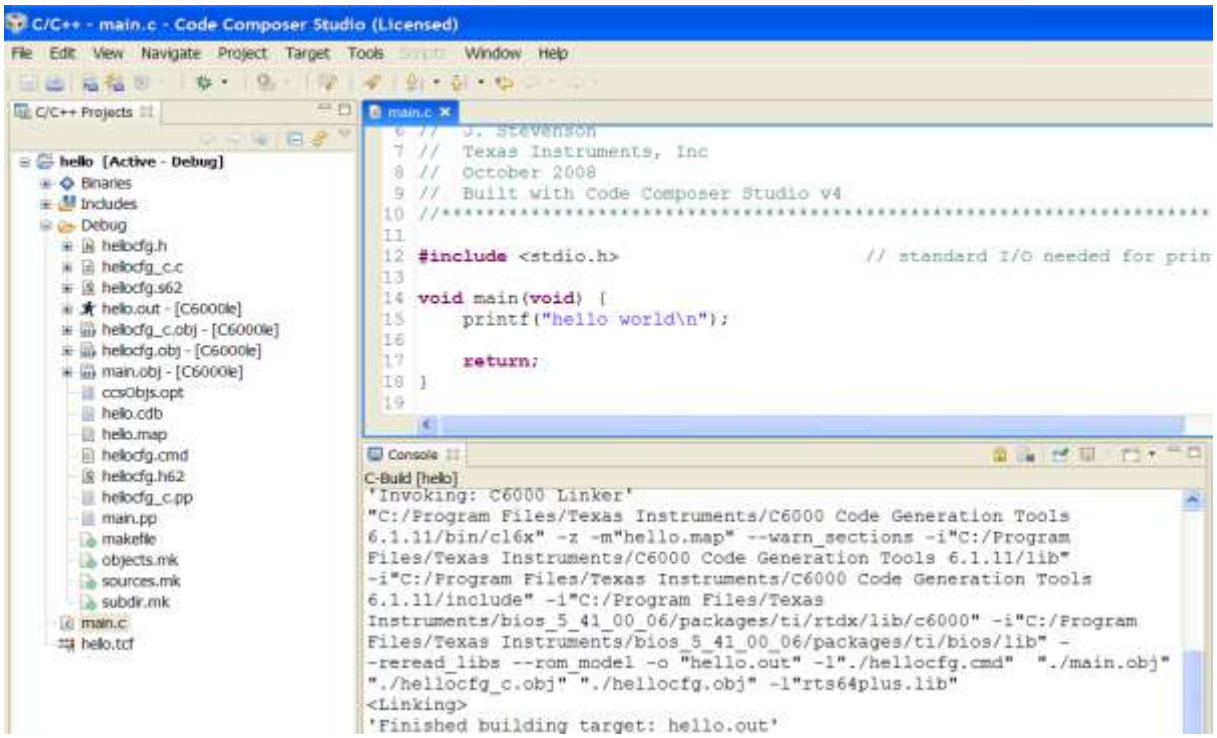

New DSP/BIOS Configuration
DSP/BIOS Configuration
Specify a platform
Platform Location:
C:/Program Files/Texas Instruments/xdctools_3_15_04_70/packages/ti/platforms
Modify...
Filter Platforms:
647
Clear
Name
Description
ti.platforms.evm6474
evm6474 (1 GHz) with 256Mbytes DDR2
ti.platforms.evm6472
evm6472 (700 MHz) with 256Mbytes DDR2
< Back
Next >
Finish
Cancel


New DSP/BIOS Configuration
DSP/BIOS Configuration
Select the DSP/BIOS features
DSP/BIOS Features
Real-Time Analysis
RTDX
TSK Manager
< Back
Next >
Finish
Cancel

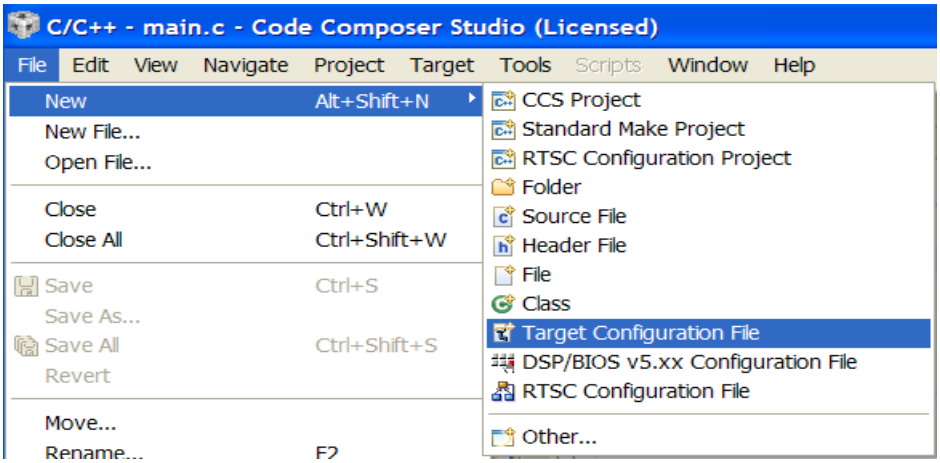

Configuration Tool - [C:\Program Files\Texas Instruments\ccsv4\workspace\.gconf\hello\hello.tcf]
File
Edit
View
Object
Help
Estimated Data Size: 2976
Est. Min. Stack Size (MAUs):
System
Global Settings
MEM - Memory Section Manager
BUF - Buffer Manager
POOL - Allocator Manager
SYS - System Settings
HOOK - Module Hook Manager
Instrumentation
Scheduling
Synchronization
Input/Output
Global Settings properties
Property
Value
Target Board Name
c64x+
Processor ID (PROCID)
0
Board Clock in KHz (Inf...
20000
DSP Speed In MHz (CL...
700.0000
Specify RTS library
False
Run-Time Support Libr...
DSP Endian Mode
little
Call User Init Function
False
User Init Function
_FXN_F_nop
Enable Real Time Analysis
True
Use Instrumented BIOS...
True
Enable All TRC Trace Ev...
True
Textual Configuration Script - L
utils.loadPlatform("
/* The following DSP
bios.enableRealTimeA
bios.enableRtdx(prog
bios.enableTskManage
// !GRAPHICAL_CONFIG
prog.gen();
For Help, press F1
Estimated Data Size: 2976
Est. Min. Stack Size (MAUs): 640

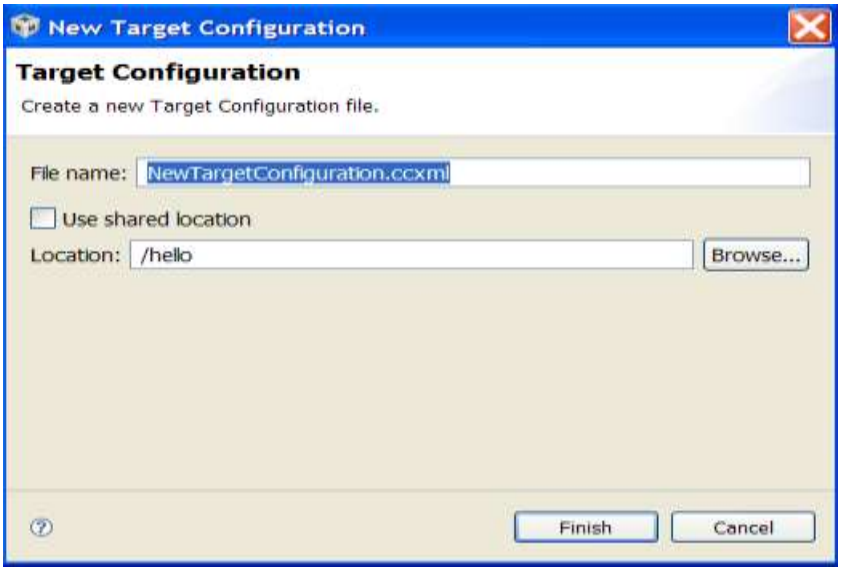
4-Build project

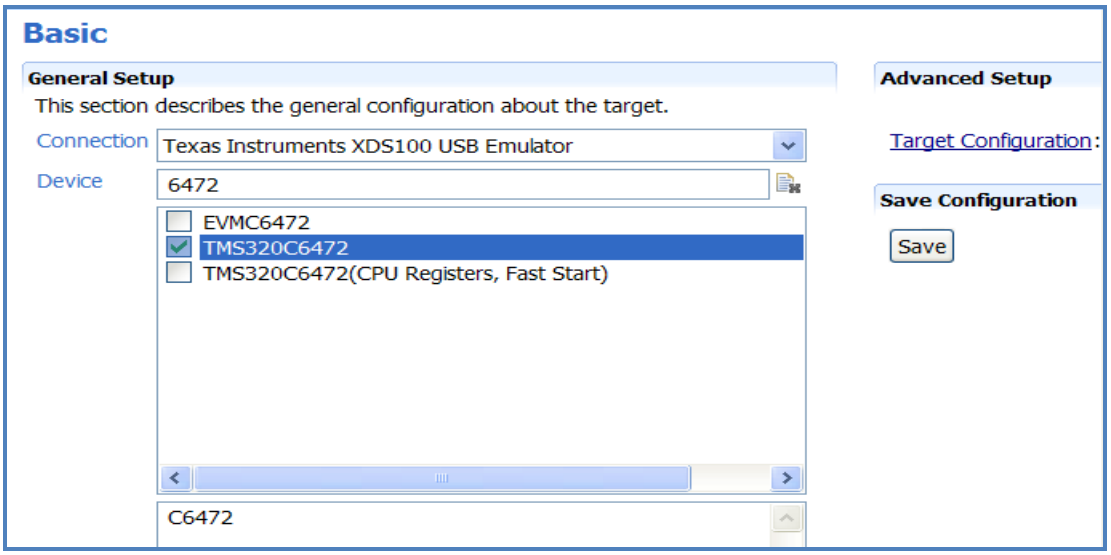


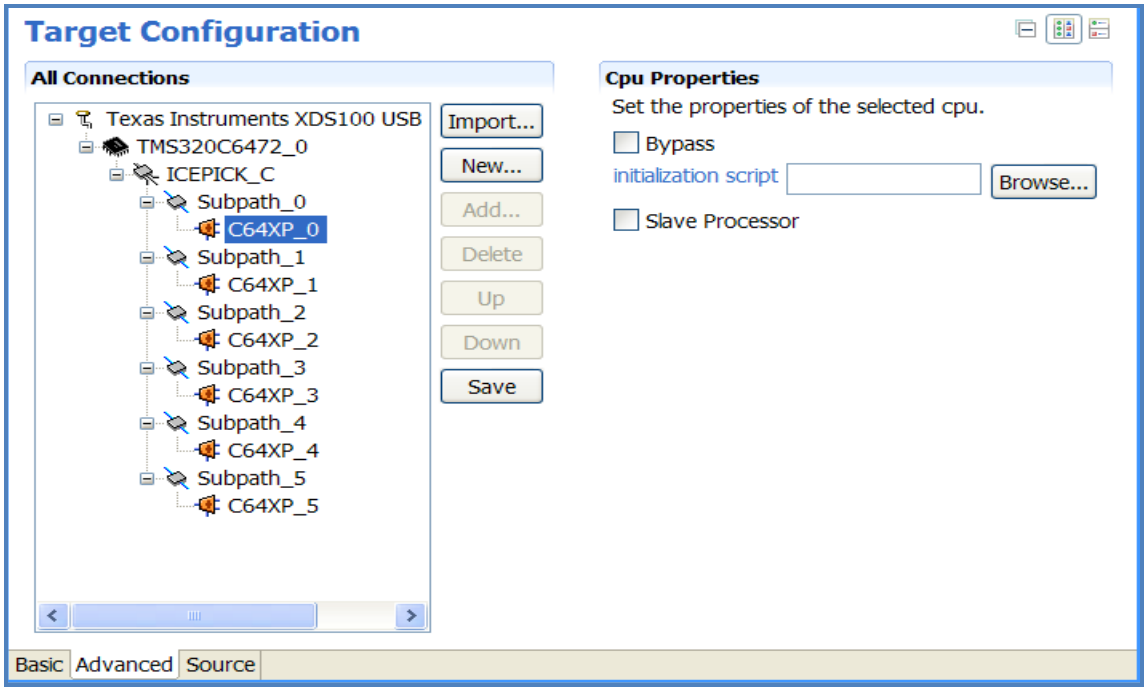


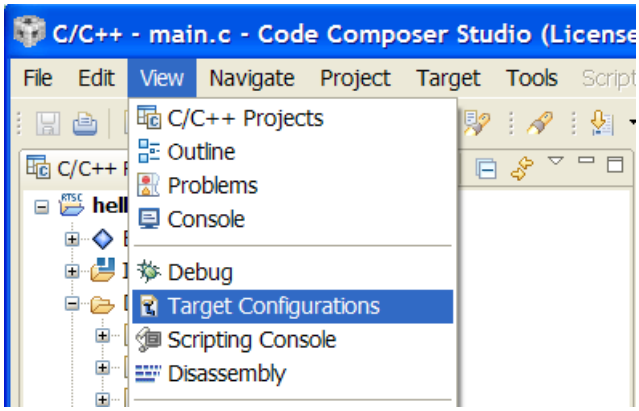
5-ADD target configuration



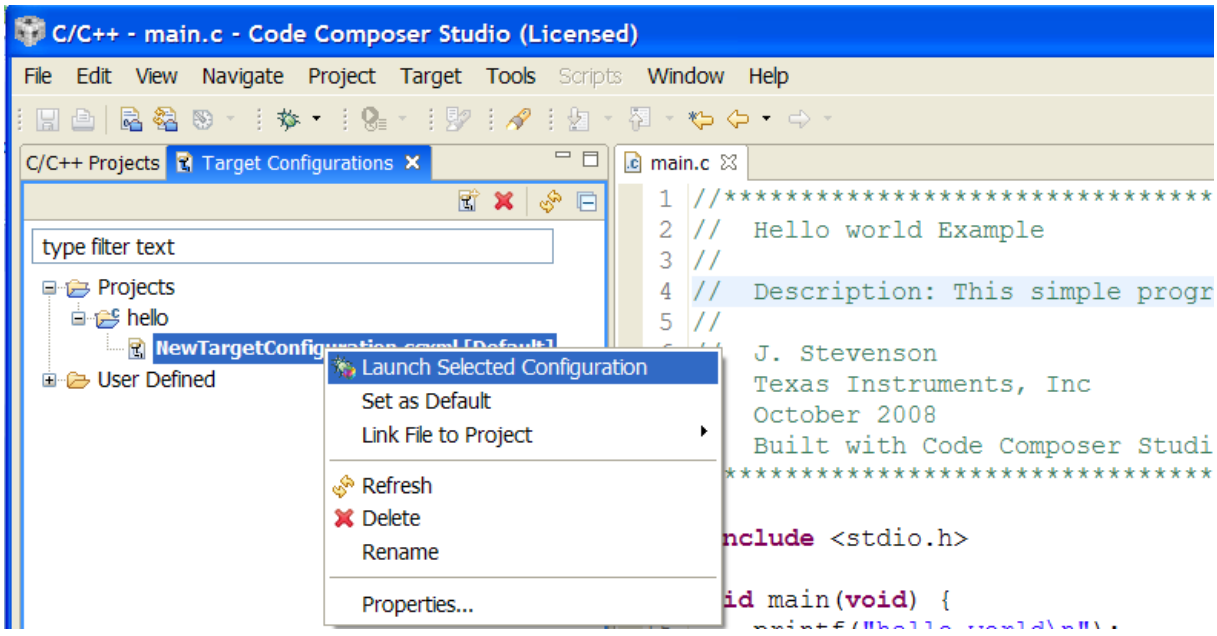

New Target Configuration
Target Configuration
Create a new Target Configuration file.
File name: NewTargetConfiguration.ccxml
Use shared location
Location: /hello
Browse...
Finish
Cancel

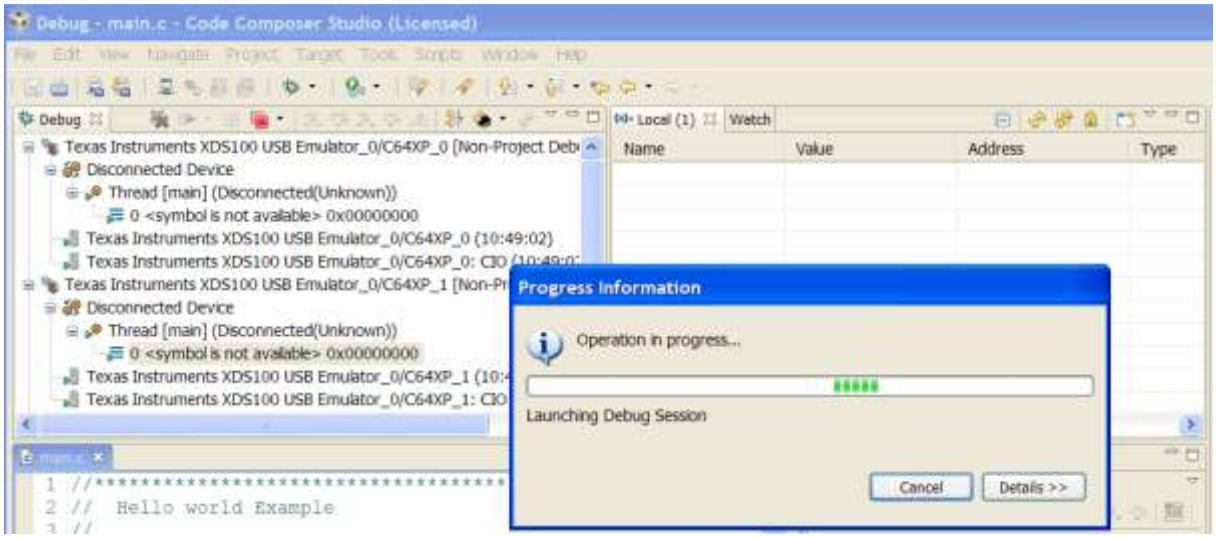

Basic
General Setup
This section describes the general configuration about the target.
Connection
Texas Instruments XDS100 USB Emulator
Device
6472
EVMC6472
TMS320C6472
TMS320C6472(CPU Registers, Fast Start)
C6472
Advanced Setup
Target Configuration:
Save Configuration
Save

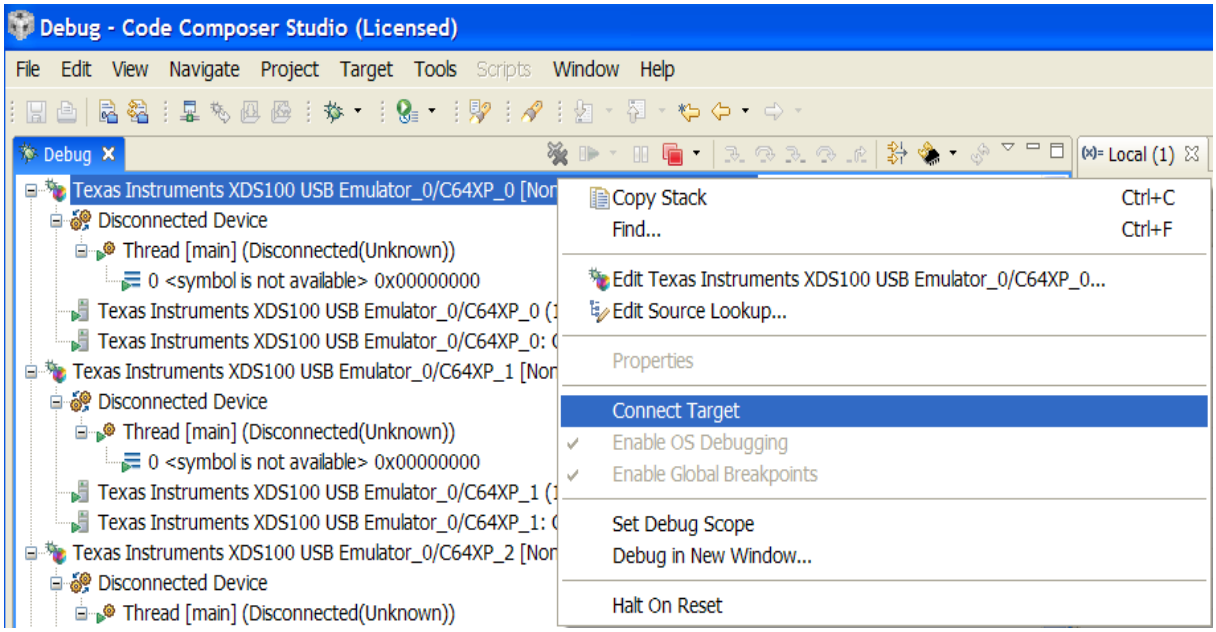

Target Configuration
All Connections
Texas Instruments XDS100 USB
TMS320C6472_0
ICEPICK_C
Subpath_0
C64XP_0
Subpath_1
C64XP_1
Subpath_2
C64XP_2
Subpath_3
C64XP_3
Subpath_4
C64XP_4
Subpath_5
C64XP_5
Import...
New...
Add...
Delete
Up
Down
Save
Cpu Properties
Set the properties of the selected cpu.
Bypass
initialization script
Browse...
Slave Processor
Basic
Advanced
Source



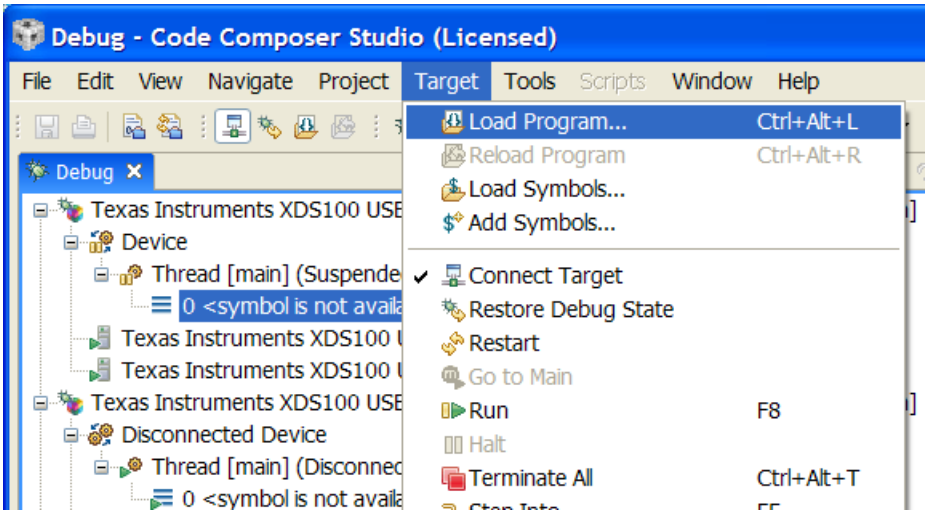
6-Connect the board to PC

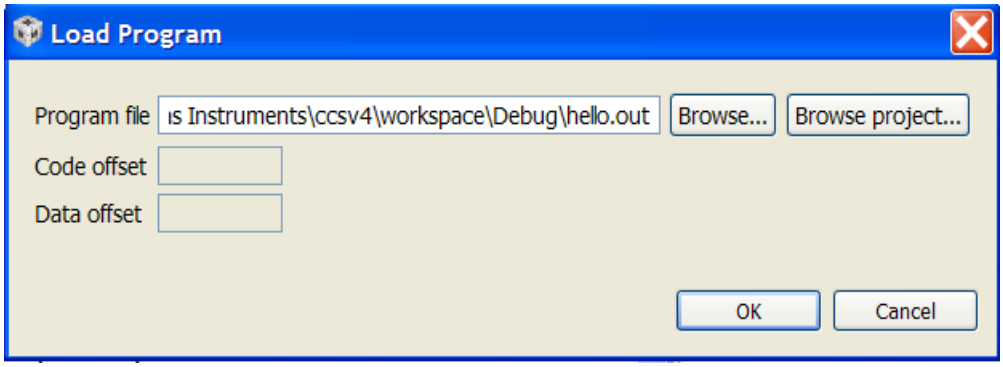


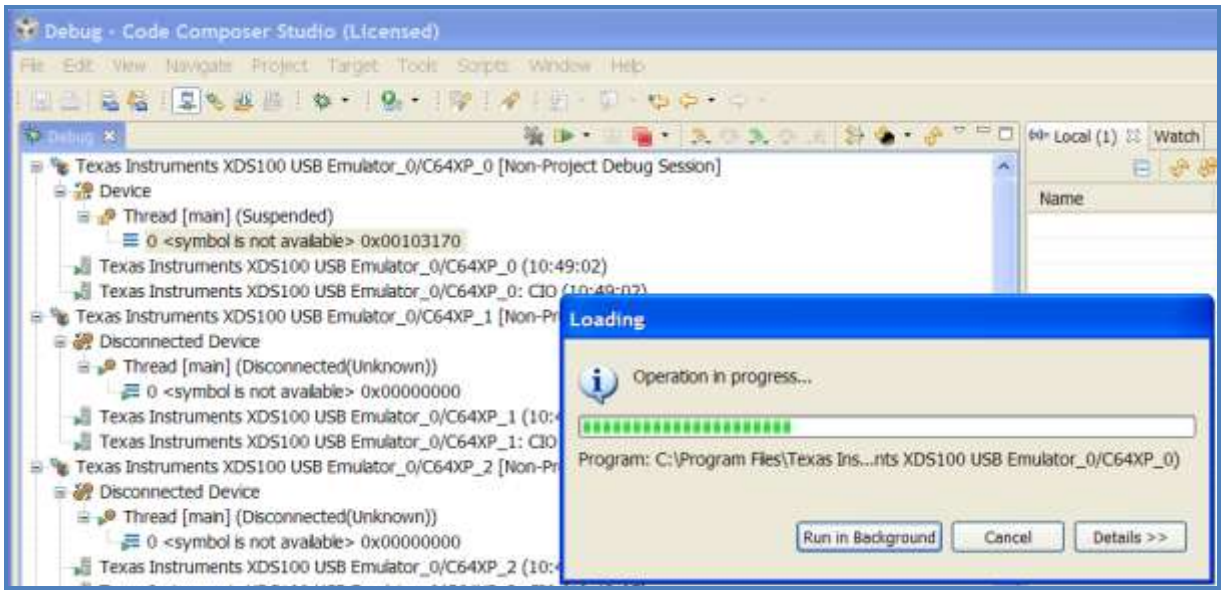


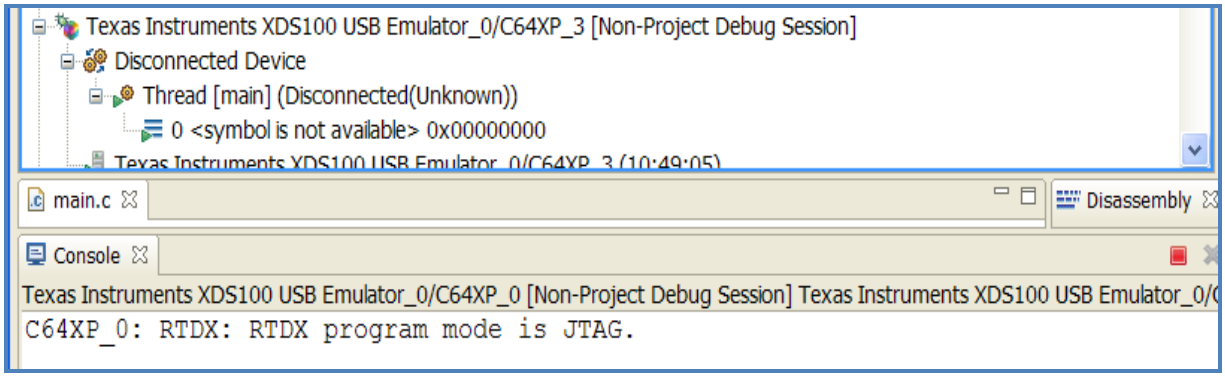


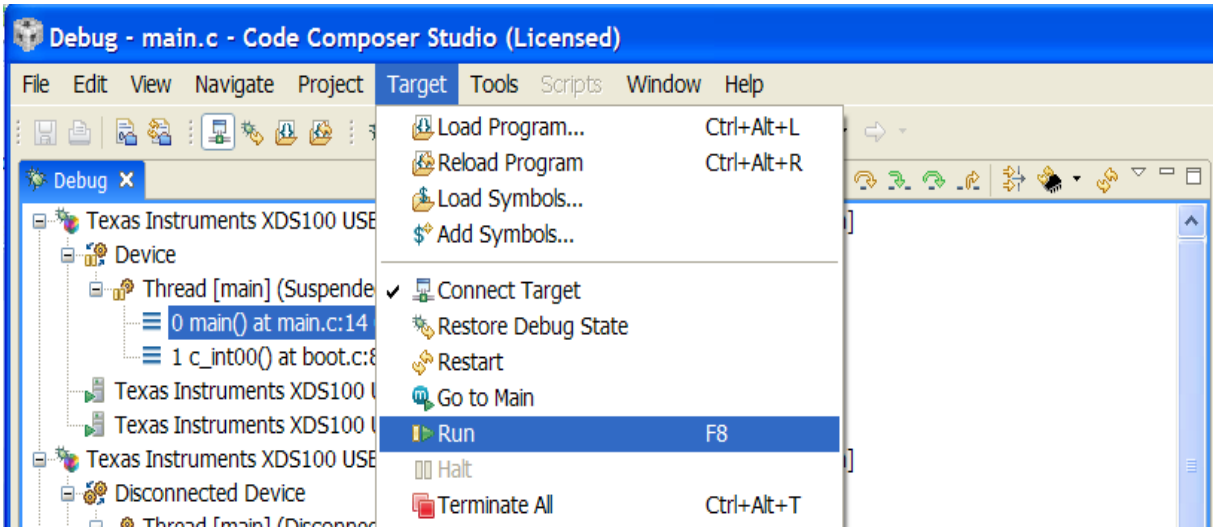
6-Run the Project

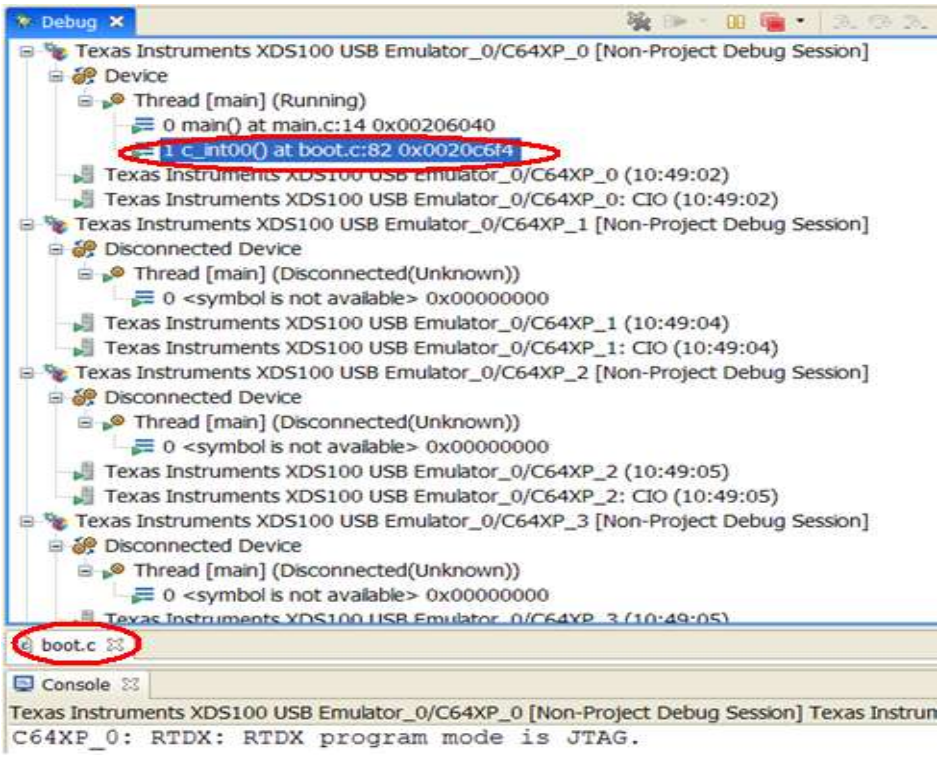



Load Program
Program file
ıs Instruments\ccsv4\workspace\Debug\hello.out
Browse...
Browse project...
Code offset
Data offset
OK
Cancel


Debug - Code Composer Studio (Licensed)
Texas Instruments XDS100 USB Emulator_0/C64XP_0 [Non-Project Debug Session]
Device
Thread [main] (Suspended)
0 <symbol is not available> 0x00103170
Texas Instruments XDS100 USB Emulator_0/C64XP_0 (10:49:02)
Texas Instruments XDS100 USB Emulator_0/C64XP_1 [Non-Pr
Disconnected Device
Thread [main] (Disconnected(Unknown))
0 <symbol is not available> 0x00000000
Texas Instruments XDS100 USB Emulator_0/C64XP_1 (10:
Texas Instruments XDS100 USB Emulator_0/C64XP_1: CIO
Texas Instruments XDS100 USB Emulator_0/C64XP_2 [Non-Pr
Disconnected Device
Thread [main] (Disconnected(Unknown))
0 <symbol is not available> 0x00000000
Texas Instruments XDS100 USB Emulator_0/C64XP_2 (10:
Local (1)
Watch
Name
Loading
Operation in progress...
Program: C:\Program Files\Texas Ins...nts XDS100 USB Emulator_0/C64XP_0)
Run in Background
Cancel
Details >>


Texas Instruments XDS100 USB Emulator_0/C64XP_3 [Non-Project Debug Session]
Disconnected Device
Thread [main] (Disconnected(Unknown))
0 <symbol is not available> 0x00000000
main.c
Disassembly
Console
Texas Instruments XDS100 USB Emulator_0/C64XP_0 [Non-Project Debug Session] Texas Instruments XDS100 USB Emulator_0/C
C64XP_0: RTDX: RTDX program mode is JTAG.





It doesn’t display Hello world