

Introduction to Texas Instruments Code Composer Studio (Eclipse) Plugin

This topic introduces the C++test plugin into Texas Instruments Code Composer Studio 4.x, 5.x, and 6.0.

Integration Overview

The C++test plugin integrates with the Code Composer Studio 4.x, 5.x, and 6.0 Eclipse IDE by means of the Eclipse plugin mechanism. C++test plugs into CCS IDE by adding a link file `com.parasoft.xtest.cpptest.link` into the Code Composer Studio installation directory. This link file contains the path to the C++test plugin, which informs Eclipse that the plugin should be loaded at startup.

Support Overview

For Texas Instruments Code Composer Studio 4.x, the following compiler/environment versions are supported:

- Texas Instruments Code Composer Studio 4.x
- TMS320C6x C/C++ Compiler v6.1.x
- TMS320C2000 C/C++ Compiler v5.2.x
- MSP430 C/C++ Compiler v3.2.x

For Texas Instruments Code Composer Studio 5.x, the following compiler/environment versions are supported:

- TMS320C6x C/C++ Compiler v7.3.x
- TMS320C6x C/C++ Compiler v7.4.x
- TMS320C2000 C/C++ Compiler v6.0.x
- TMS320C2000 C/C++ Compiler v6.2.x
- TMS470 C/C++ Compiler v4.9
- MSP430 C/C++ Compiler v4.0.x
- ARM C/C++ Compiler v5.1

Code Composer v3

Code Composer Studio v3 is also supported. See the following sections for details:

- [Introduction to Texas Instruments Code Composer Studio v3.x Support](#)
- [Project Creation and Configuration with Texas Instruments Code Composer Studio v3.x Support](#)
- [Static Analysis with Texas Instruments Code Composer Studio v3.x Support](#)
- [Runtime Testing with Texas Instruments Code Composer Studio v3.x Support](#)

The following components are provided to facilitate testing Texas Instruments Code Composer projects:

- CCS 4.x Compiler configurations:
 - TMS320C6x C/C++ Compiler v6.1
 - TMS320C2000 C/C++ Compiler v5.2
 - MSP430 C/C++ Compiler v3.2
- CCS 5.x compiler configurations:
 - TMS320C6x C/C++ Compiler v7.3.x
 - TMS320C6x C/C++ Compiler v7.4.x
 - TMS320C2000 C/C++ Compiler v6.0.x
 - TMS320C2000 C/C++ Compiler v6.2.x
 - TMS470 C/C++ Compiler v4.9
 - MSP430 C/C++ Compiler v4.0.x
 - ARM C/C++ Compiler v5.1
- Options source: "Use options from Managed Make C/C++ project"
- Test Configurations:
 - Run TI CCS v4+ Application with Memory Monitoring
 - Run TI CCS v4+ Tests
- Test Flow recipes (associated with Test Configurations) that have integrated test results reading: "Run Unit Tests on TI Code Composer 4.x (license required)" and "Run TI Code Composer 4.x Application with Memory Monitoring (license required)".

Beginning with version 5.x, Texas Instruments is rebranding the "TI TMS470" compiler as the "TI ARM" compiler. For consistency and clarity, Parasoft has also updated the compiler acronym from `titms470_4_9` to `tiarm_4_9`. This change directly affects any previous custom compiler configurations and/or previous project options that reference the old compiler acronym. As such, references to `titms470_4_9` should be changed to `tiarm_4_9`.

Known Limitations

Depending on the runtime testing features included in the test executable, the prepared test binary may be significantly larger than the original application. On some limited environments, there may be an issue with the amount of available program memory. A similar limitation applies to the additional consumption of heap and stack memory during program execution. To solve this problem, you may need to modify the program layout in the memory and change the size of available stack/heap.