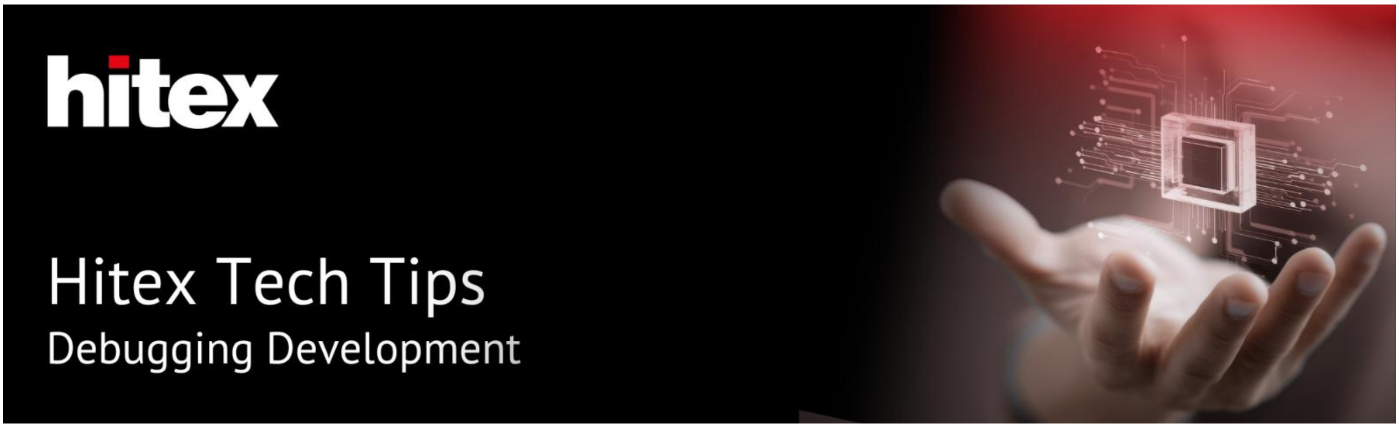

Fixing Build Errors in Keil MDK-6 Example Projects

By Trevor Martin

Introduction

With the introduction of MDK-6 and the CMSIS toolbox build system there are now many examples hosted on github and other developer repositories. You may find that when you initially download and try an example it doesn't build correctly. This Tech Tip looks at how to fix this vexing problem!

Errors in Configuration

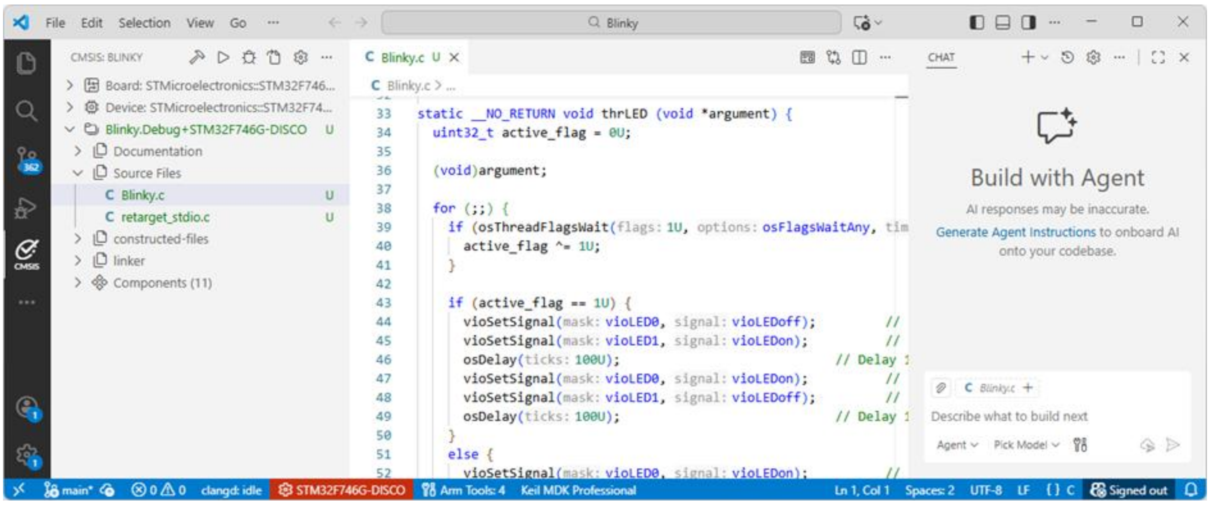

Fig 1: CSolution project with a configuration error

If there is a configuration error in the project the Target tab on the status bar will be coloured red as shown above (Fig 1). This can generally be fixed by the following two steps:

1. Check the Tools Registry

First open the tools registry by clicking on the Arm Tools tab on the status bar:

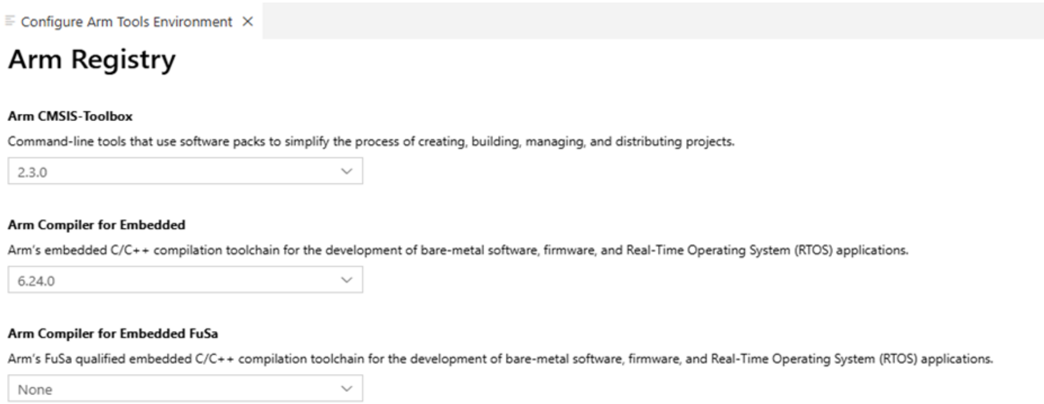

Fig 2: Project Arm Tools Registry

The registry (Fig 2) defines a list of build tools and their required versions. A configuration error will be shown if the tool or the correct version isn't installed. You can correct this by adjusting the required version (this will work for a later version) or installing the required version.

If you are defining a project which may be used by other developers, it is best to add the caret symbol (Fig 3) to the version definition.

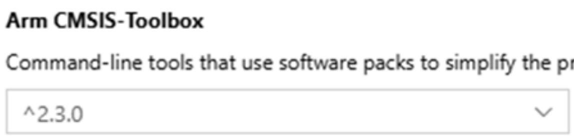

Fig 3: Version definition with a caret (Use this version or later)

2. Update The Run Time Environment

This will cure most problems. If you still have an error, you may need to update the RTE components to match the current versions.

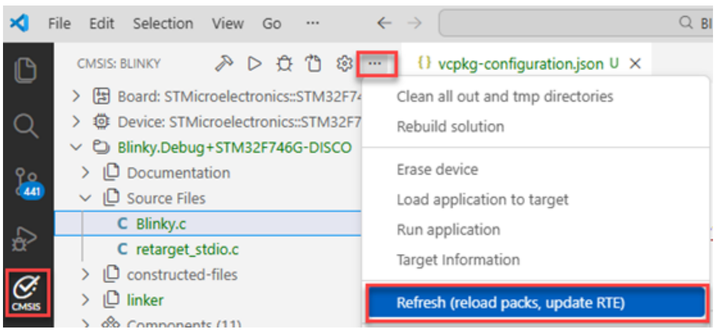

Fig 4: Refresh the project Run Time Environment

In the CMSIS view open the ellipsis menu and select the refresh option (Fig 4). This will update the RTE and pack information.

Taken together these two quick checks will cure around 90% of problems encountered when importing a CSolution project into VS-Code.

Further Information

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