Application Note: 267

Update ARM Compilation Tools

Abstract

This application note describes how to update ARM compilation tools without updating MDK-ARM. Assuming the default directory layout, the ARM compilation tools are installed in **\Keil\ARM\ARMCC.** You can have various ARM compilation tools installed in different folders. µVision must be configured to point to the new directory path.

Contents

Obtain new ARM Compilation Tools

New ARM compilation tools can be obtained from different resources:

- **ARM Developer Portal**

  Go to http://developer.arm.com/products/software-development-tools/compilers, select the compiler, and click on the **Downloads** tab.   Select the version you prefer and click the **Download** button. Follow the instructios on the screen.
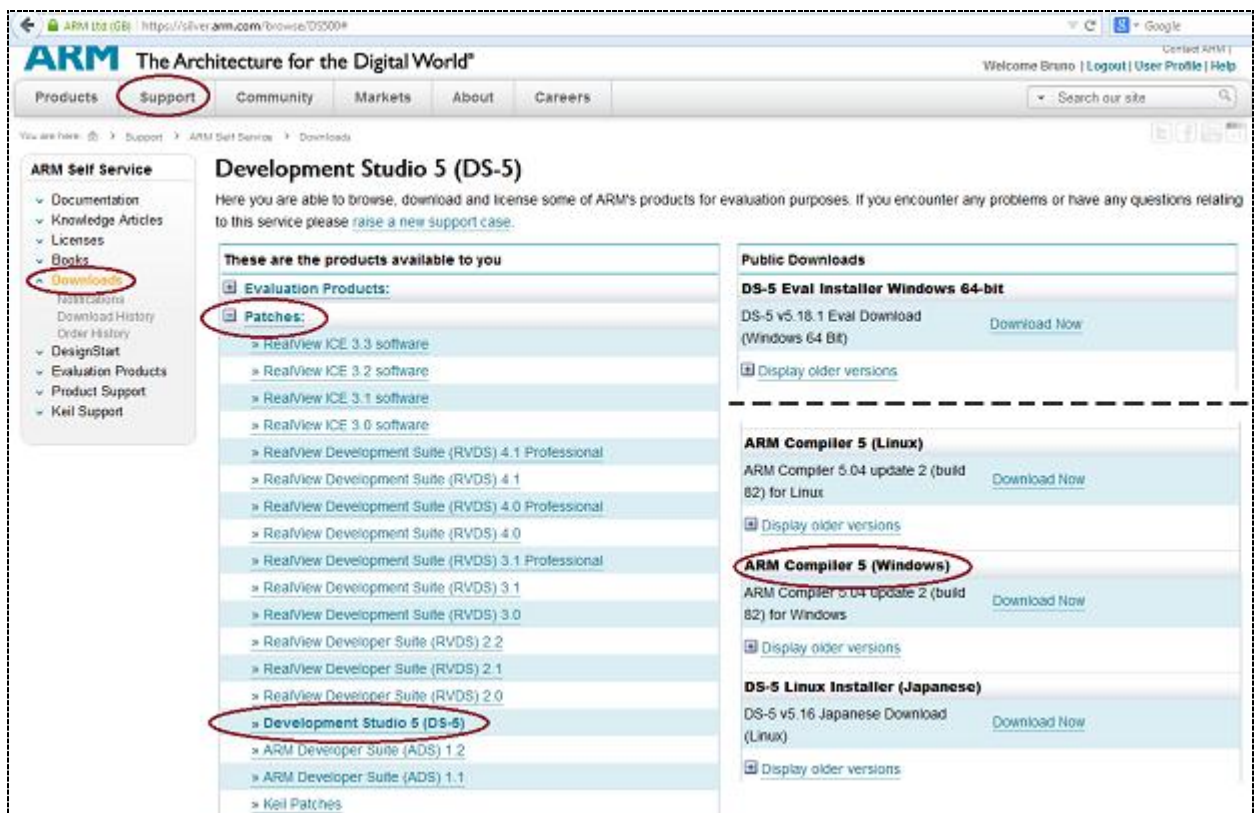
- **ARM Self Service Portal (alternative)**

  This is an alternative in case you do not find the compiler version on the **ARM Developer Portal**.

  Go to https://silver.arm.com/browse/DS500 and download the **ARM Compiler (Windows)** package.

  Note: You need to register to access the download area.

  On the web page: Click on **Support – Downloads – (*expand*) Patches – Development Studio 5 (DS-5)**.
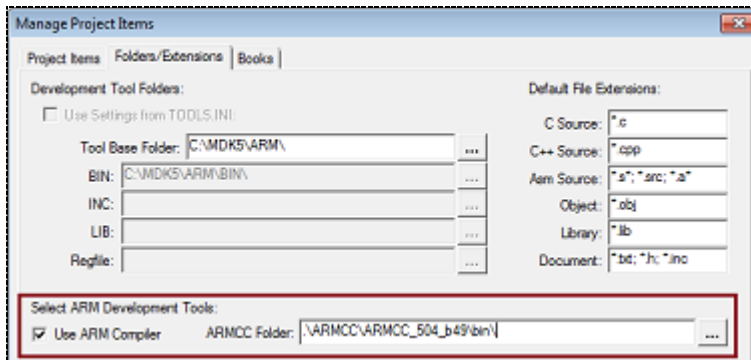 In **Public Downloads** (right side) scroll down and find **ARM Compile *x* (Windows)**.

Extract the downloaded ZIP file to a temporary directory and run the **setup.exe** located in the **Installer** folder. Follow the instructions and when promted for a destination directory enter **C:\Keil\ARM\ARMCC_*xx*** where *xx* is the version and build number, for example **C:\Keil\ARM\ARMCC_504_b49**.

Configuration

µVision must be configured to point to the new compilation tools.

- **Configure µVision IDE**

  It is possible to change the path to the ARM Development Tools binaries via the µVision dialog field
  Project - Manage - Components, Environment, Books... - Folder/Extensions - ARMCC Folder. Here you can
  enter the path `C:\Keil\ARM\ARMCC_504_b49\bin\` to point to the new binary directory of the new version.

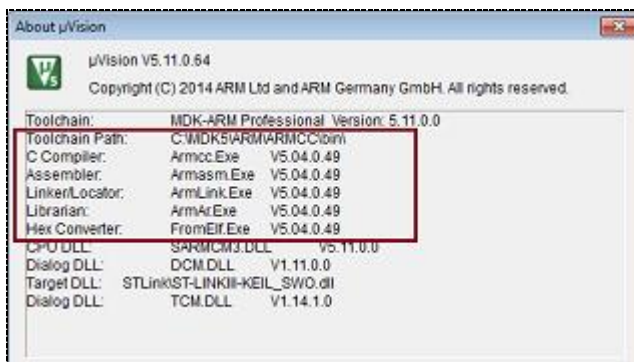 *Note*: This only works if an ARM project is currently opened in µVision.

- **Configure TOOLS.INI manually**

  µVision maintains the path to the compilation tools in the `TOOLS.INI` file located in the **\Keil** root folder. Open
  `TOOLS.INI` with a text editor and find the `[ARMADS]` section.

  The entry `PATH1` points relatively to the compilation tool **\bin** folder. `PATH1` needs to be changed to point to the
  new directory. For example: **.\ARMCC_504_b49\bin\.** Make your changes and save `TOOLS.INI`. The new entry
  might look like the snippet below:

  ```
  ...
  [ARMADS]
  ...
  PATH1=".\ARMCC_504_b49\bin\"
  ...
  ```

  Open µVision and make sure an ARM project is loaded. Check the compilation tool version with the menu
  Help - About µVision. The dialog should show the new version, for example:

Revision History

- Julyl 2014: Initial Version
- September 2016: added new download location