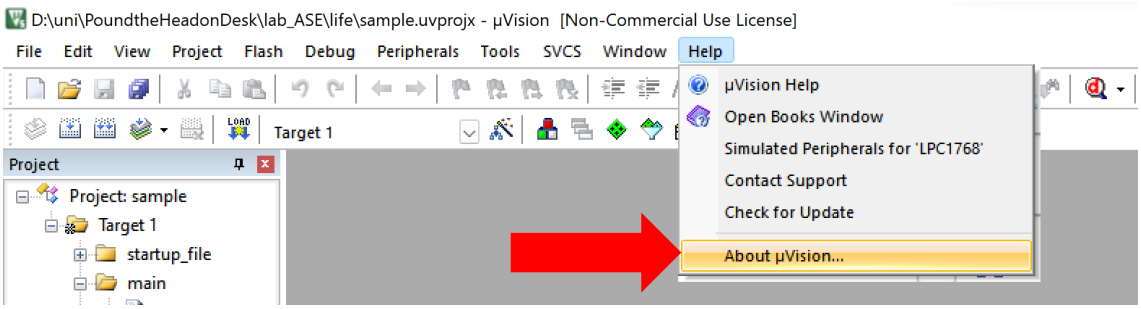
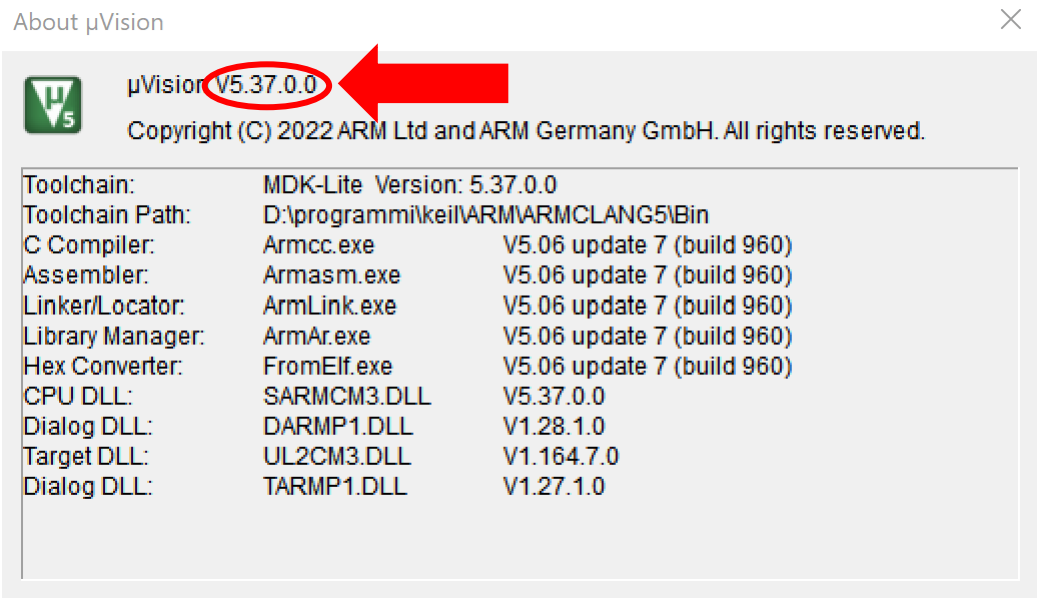
How to setup Keil µVision

A trivial guide for setting up Keil µVision and using the correct compiler. Version 6 of the Arm compiler is not retro-compatible on some language extensions created in older projects with Version 5 of the Arm compiler.

1. Check the Keil µVision version





<u>If the Keil µVision version is lower than 5.37 you should not do anything, but it is always better to check!</u>

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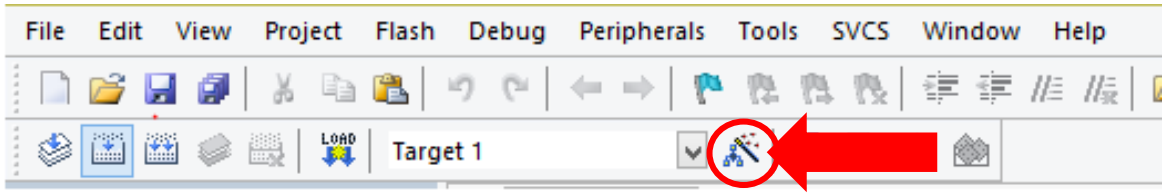
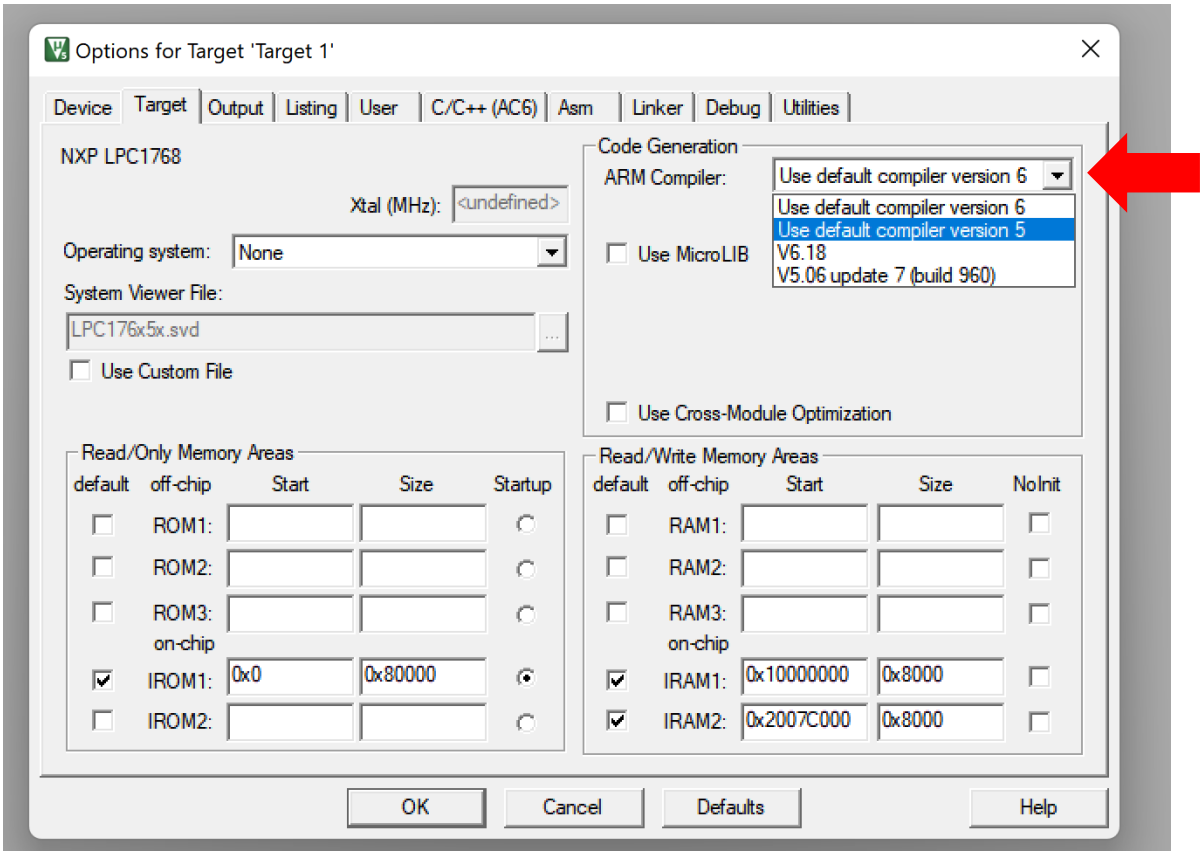
2. Check the compiler version





If (compiler version 5 is already present <u>without warning</u>) {

Goto point 4 // DO NOT USE GOTO IN REAL CODE!

}

else{

Goto point 3 // installation of compiler version 5

}

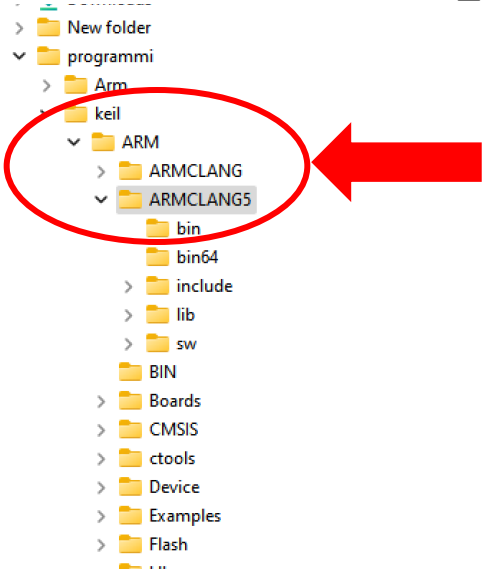
3. Install Compiler Version 5

a. Download "ARMCompiler_506_Windows_x86_b960.zip" from the course material and unzip.

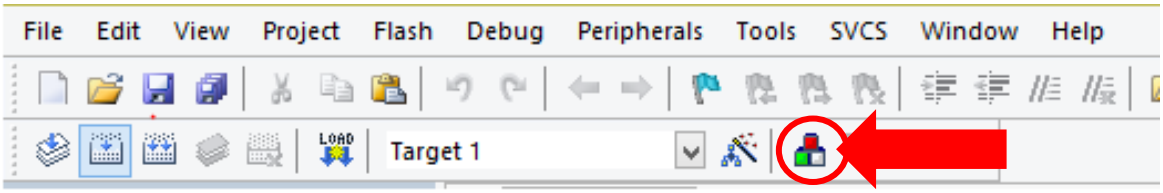
b. Execute setup.exe in the subfolder "installer".

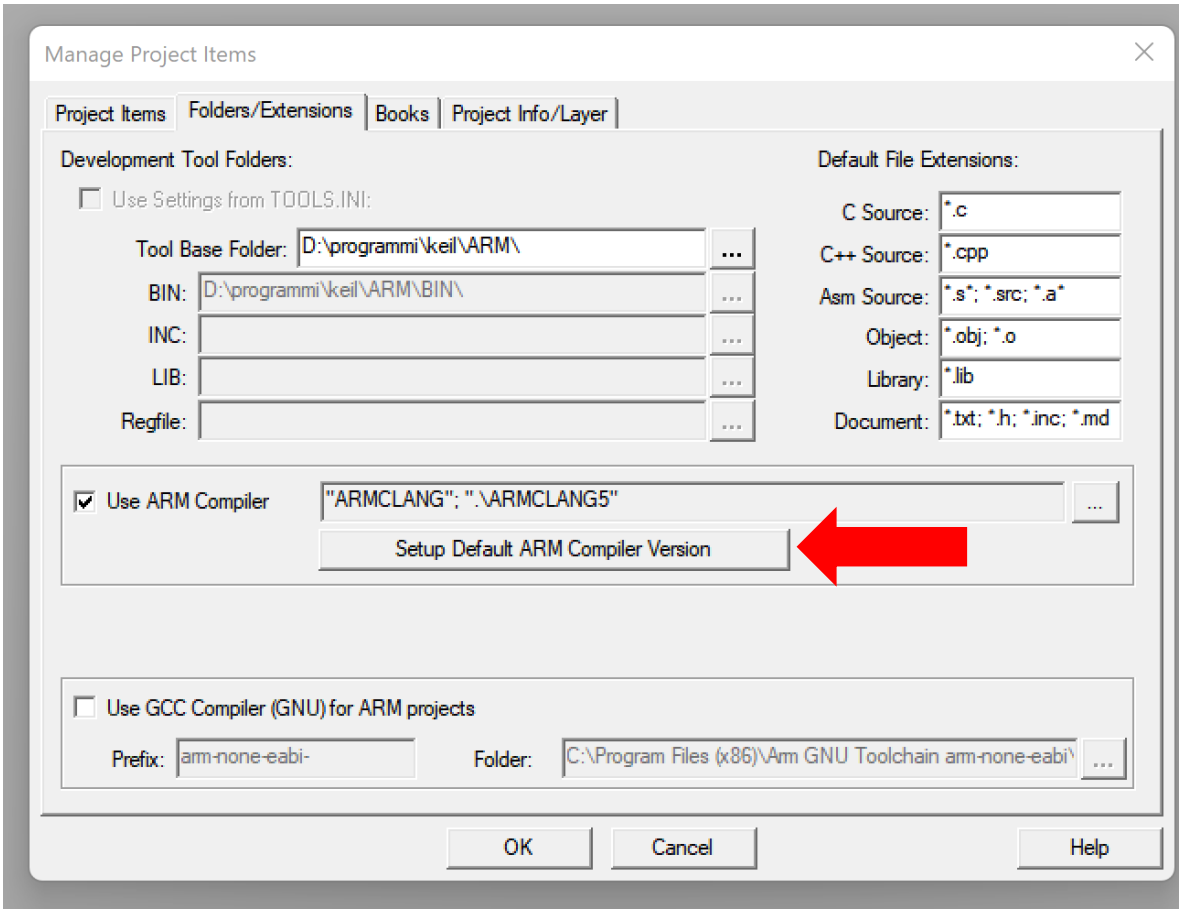
c. Install into the default Keil µVision installation folder (a different one is not ok, it will cause a license error)

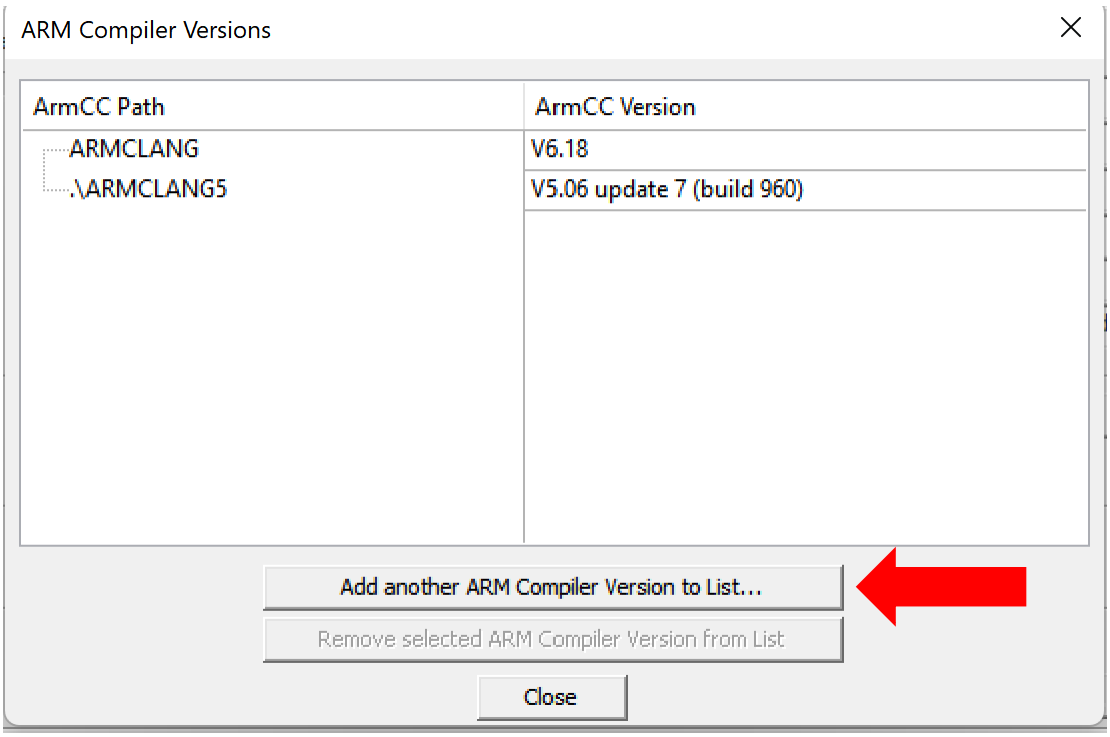
`C:YourPath\Keil_v5\ARM`



d. Update existing compilers







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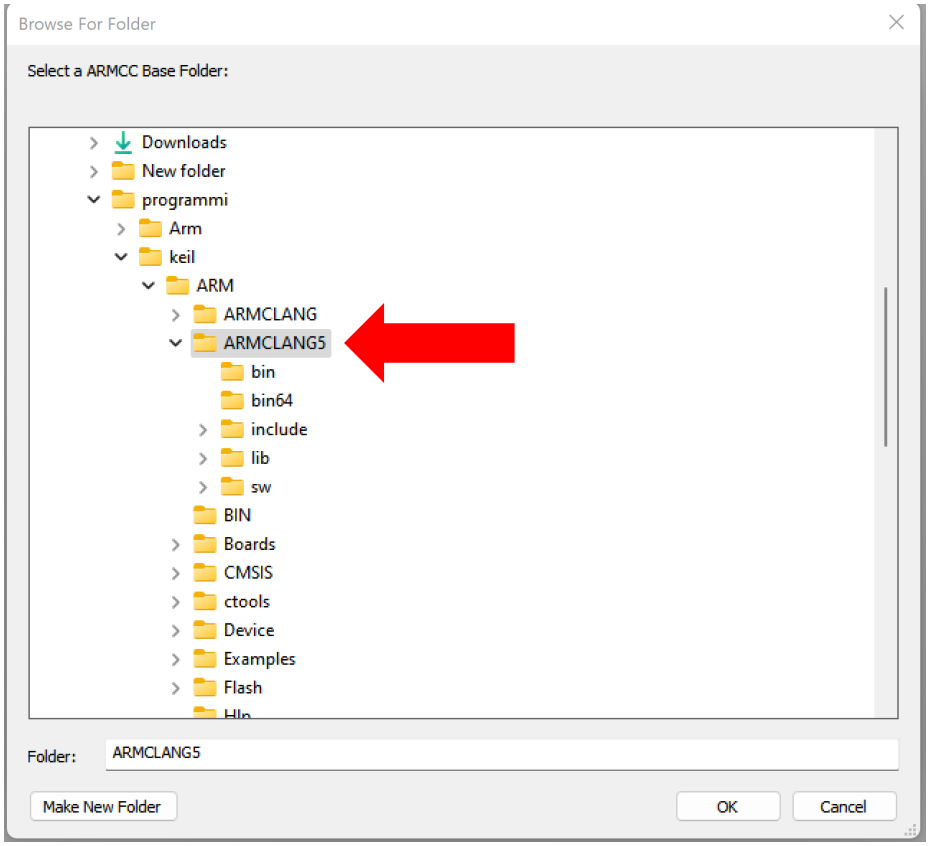
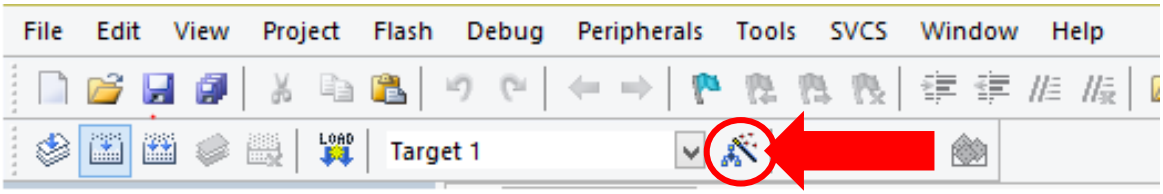
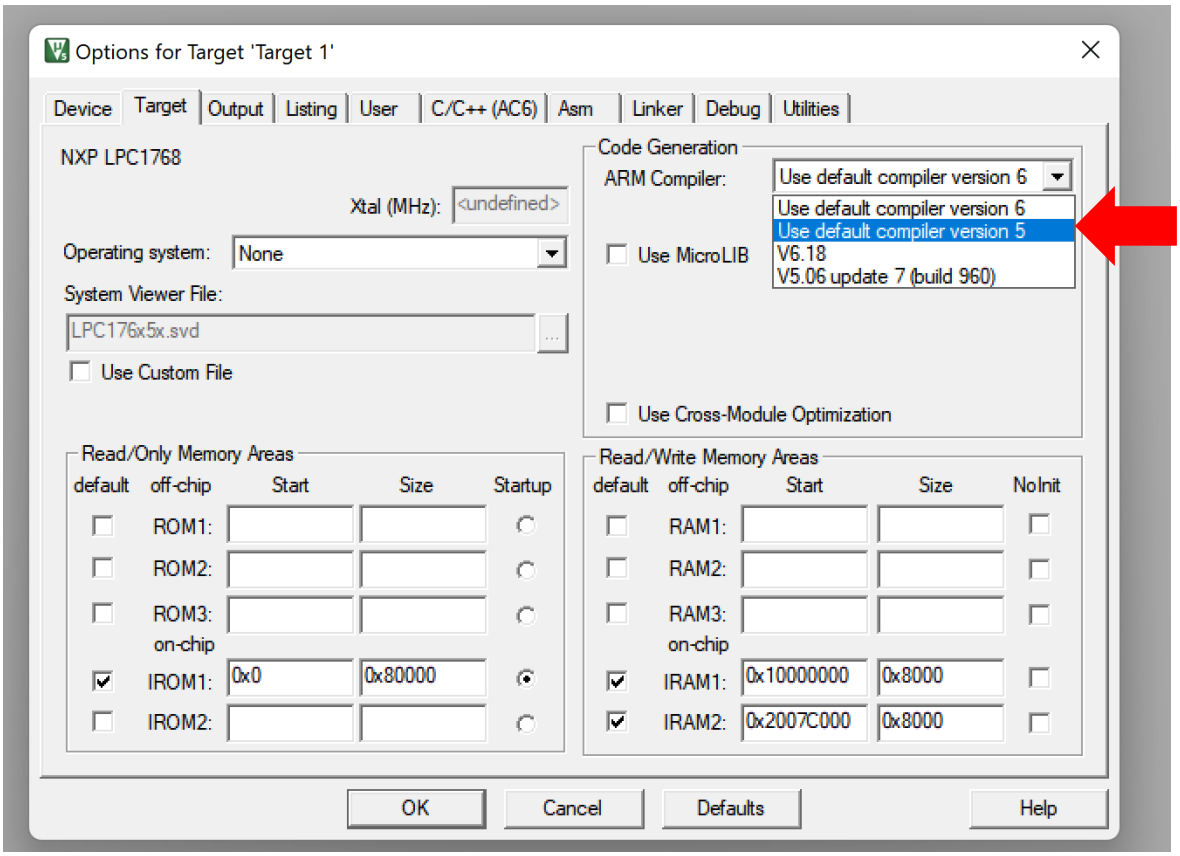
Then find the path where you installed the compiler version 5 in your file system during 3.b



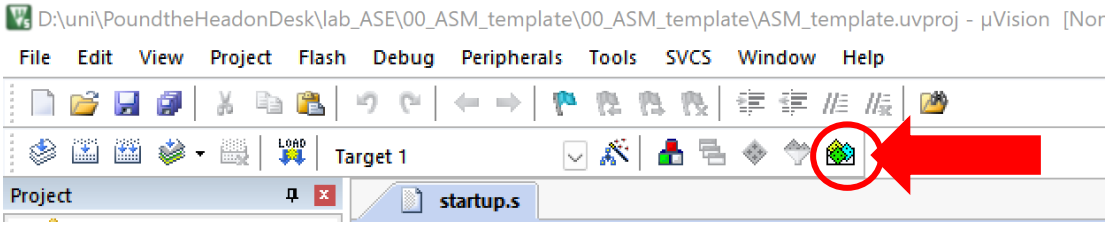
4. Switch compiler version



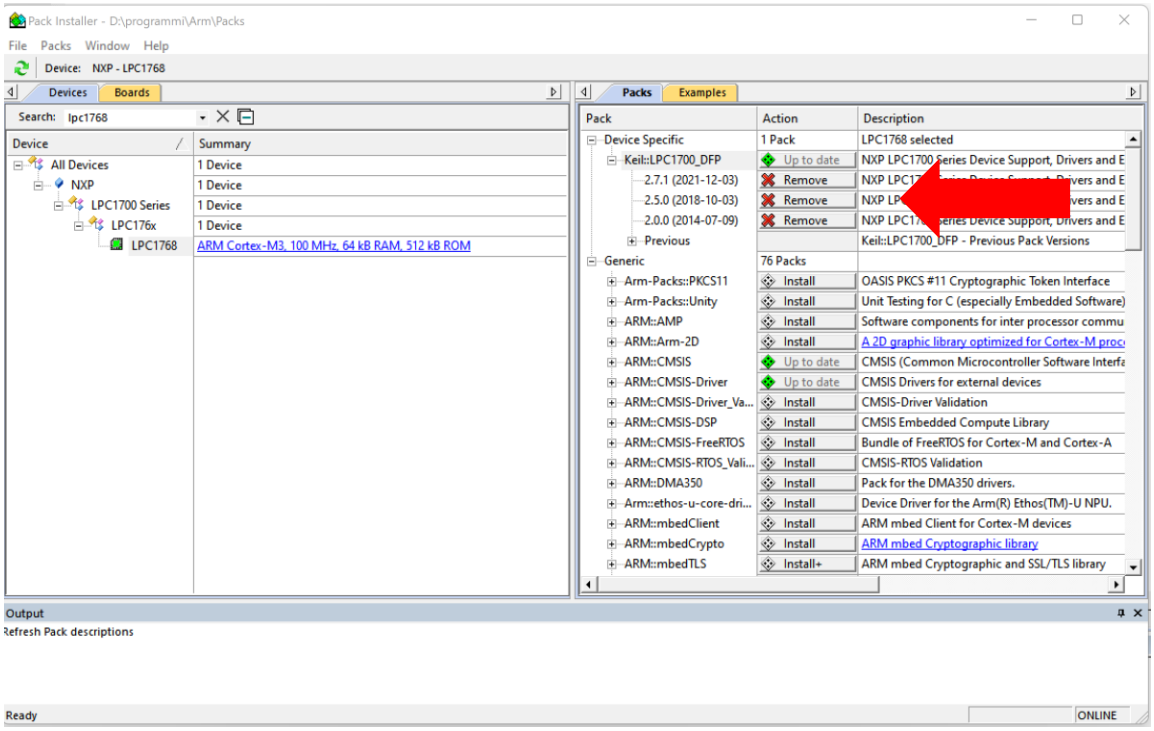


Select “Use default compiler version 5” and click ok.

5. Verify the correct DFP (Device Family Pack) for LPC1768 devices (for next labs)



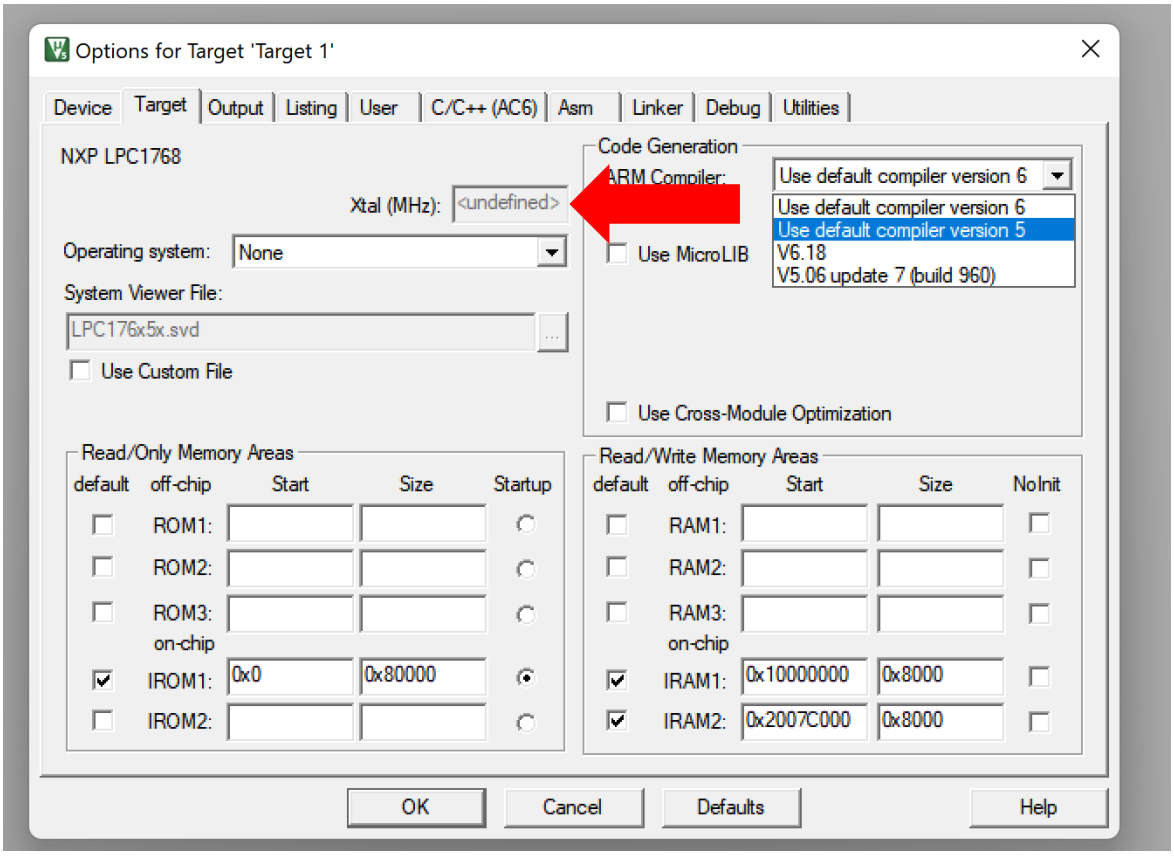
Pack installer window is going to open, select the correct System-on-Chip (LPC1768).



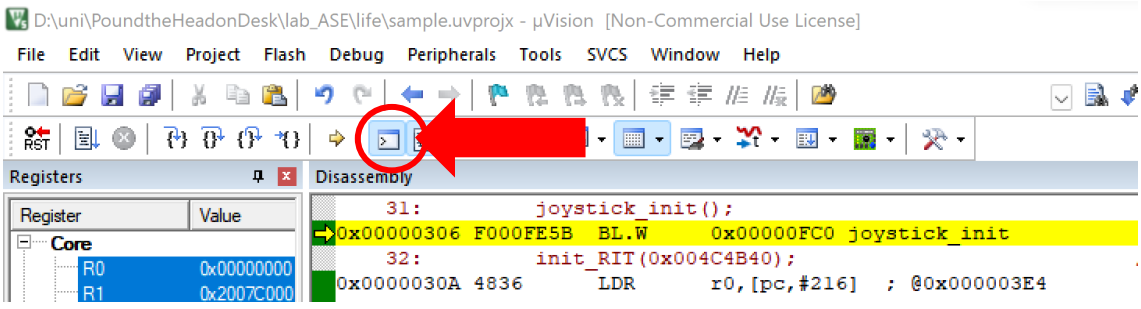
Select the device specific and install (or verify) the correct version of DFP, it must be 2.7.1.

Now you are good to go for the labs.

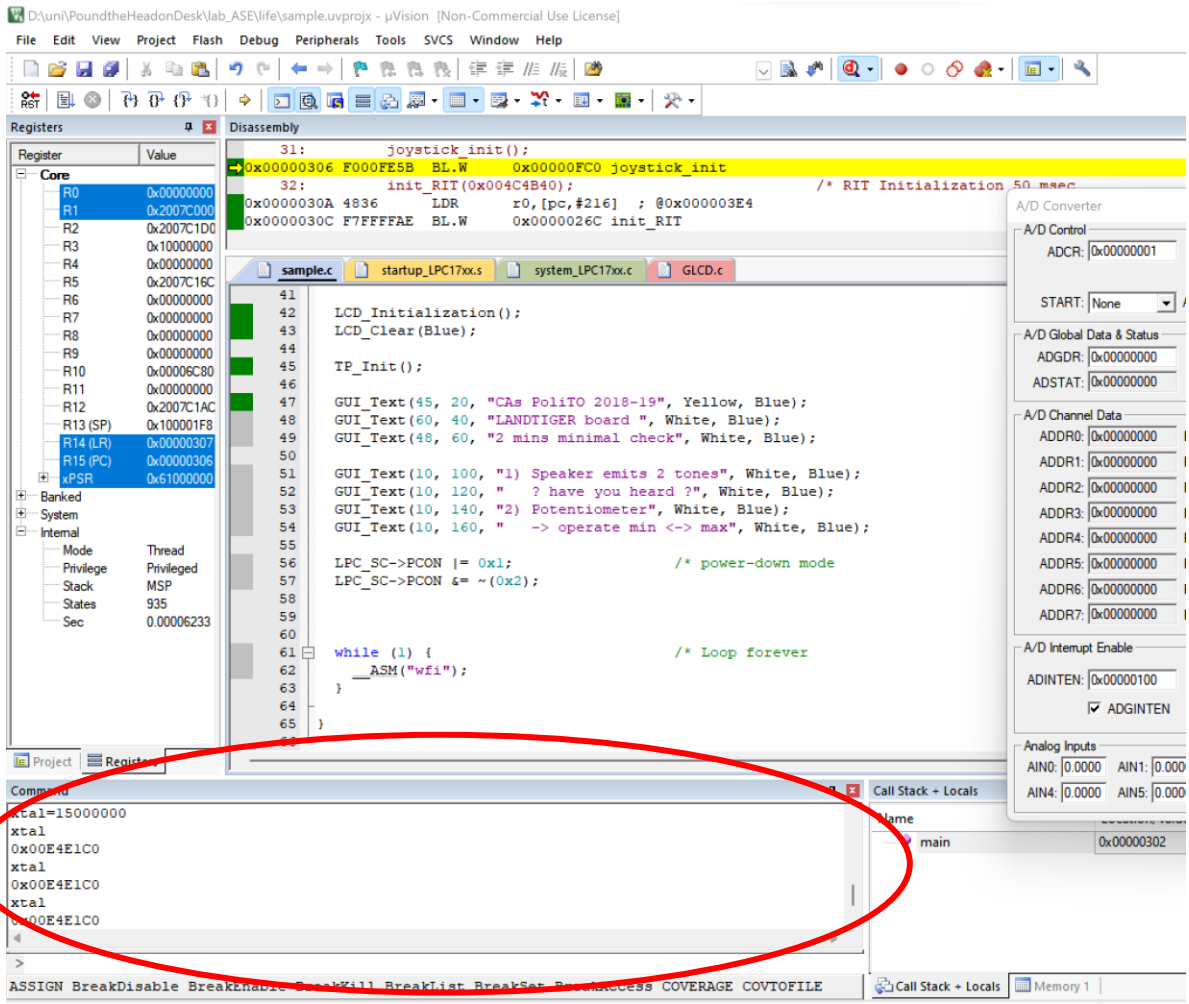
- **Workaround for changing XTAL value in case you cannot from target options (newer version of Keil and projects)**



Launch the debug mode and activate the command console.



A window will appear:



You can type “xtal” for checking its value.

For changing its value, a normal assignment is fine.

For instance “xtal=frequency”

Remember:

15 Mhz -> xtal=15000000