

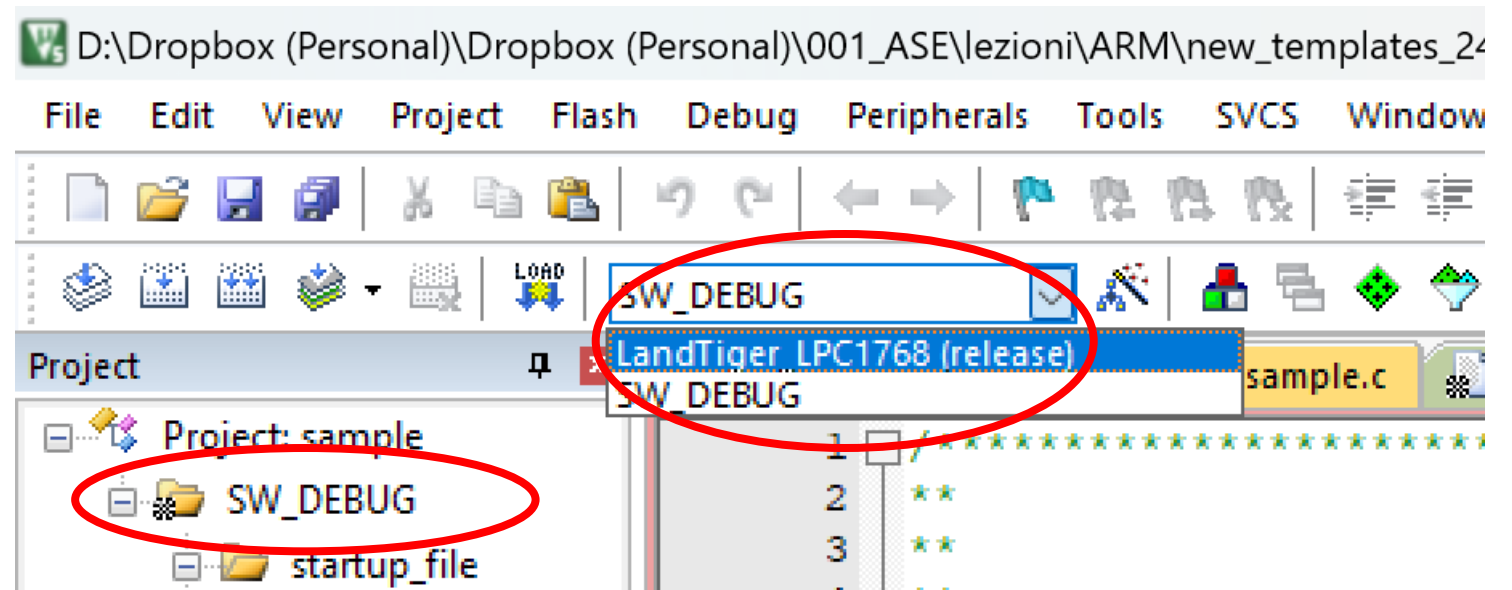
The New Keil μ Vision Template

What is needed

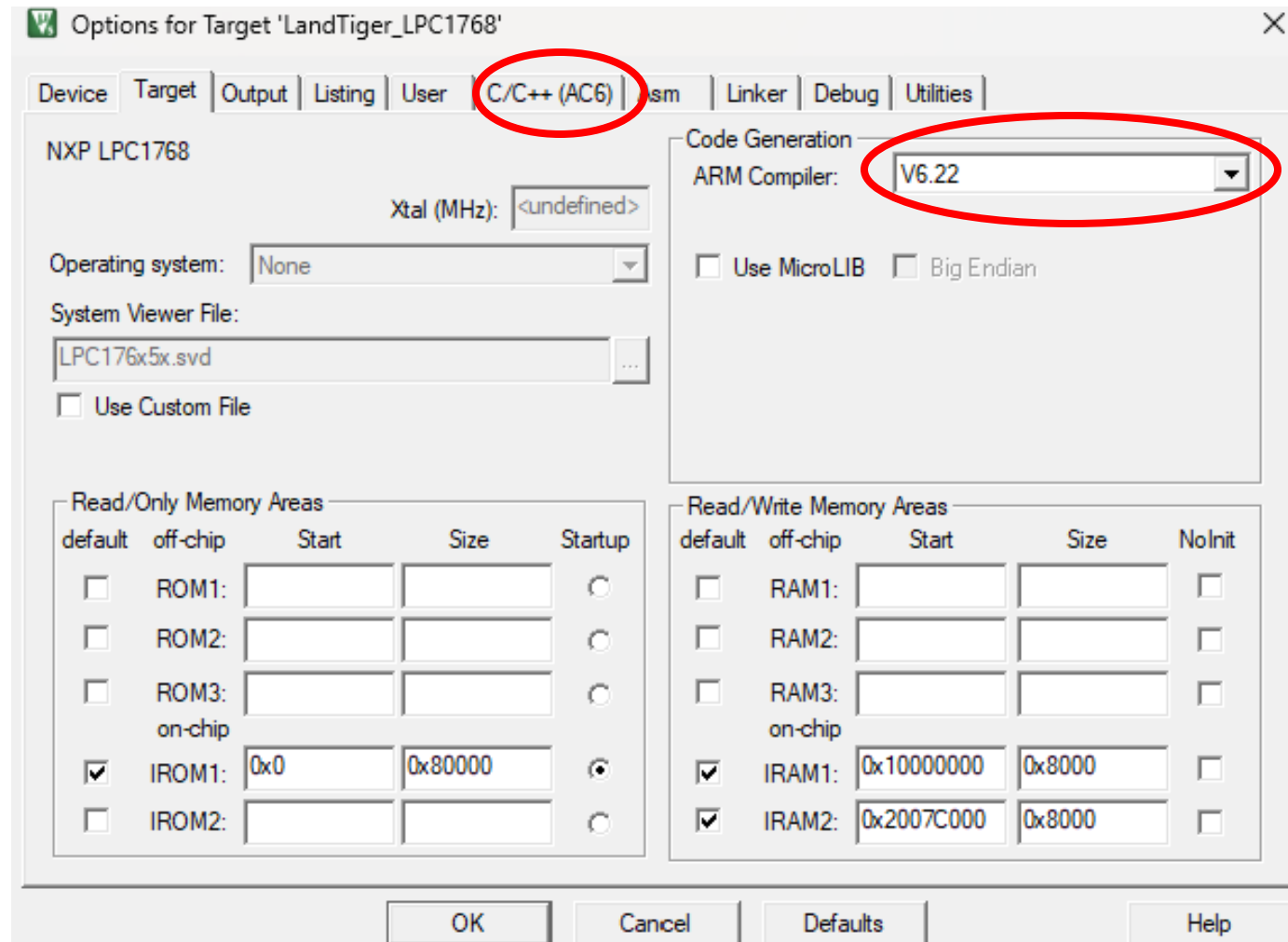
- Keil uvision v5.40 (clean installation suggested)
- ARMCLANG v6.18 (comes with Keil v5.40)
- CMSIS v6.1.0 (installed by keil pack installer when loading a project)
- LPC1768 Device Family Pack (DFP) v2.7.1 (installed by keil pack installer when loading a project)

A fast check on the template

- Targer1 is for old template!
- LandTiger_LPC1768 (release) / SW_Debug for the new template!
- **TEMPLATES ARE NOT RETROCOMPATIBLE!**

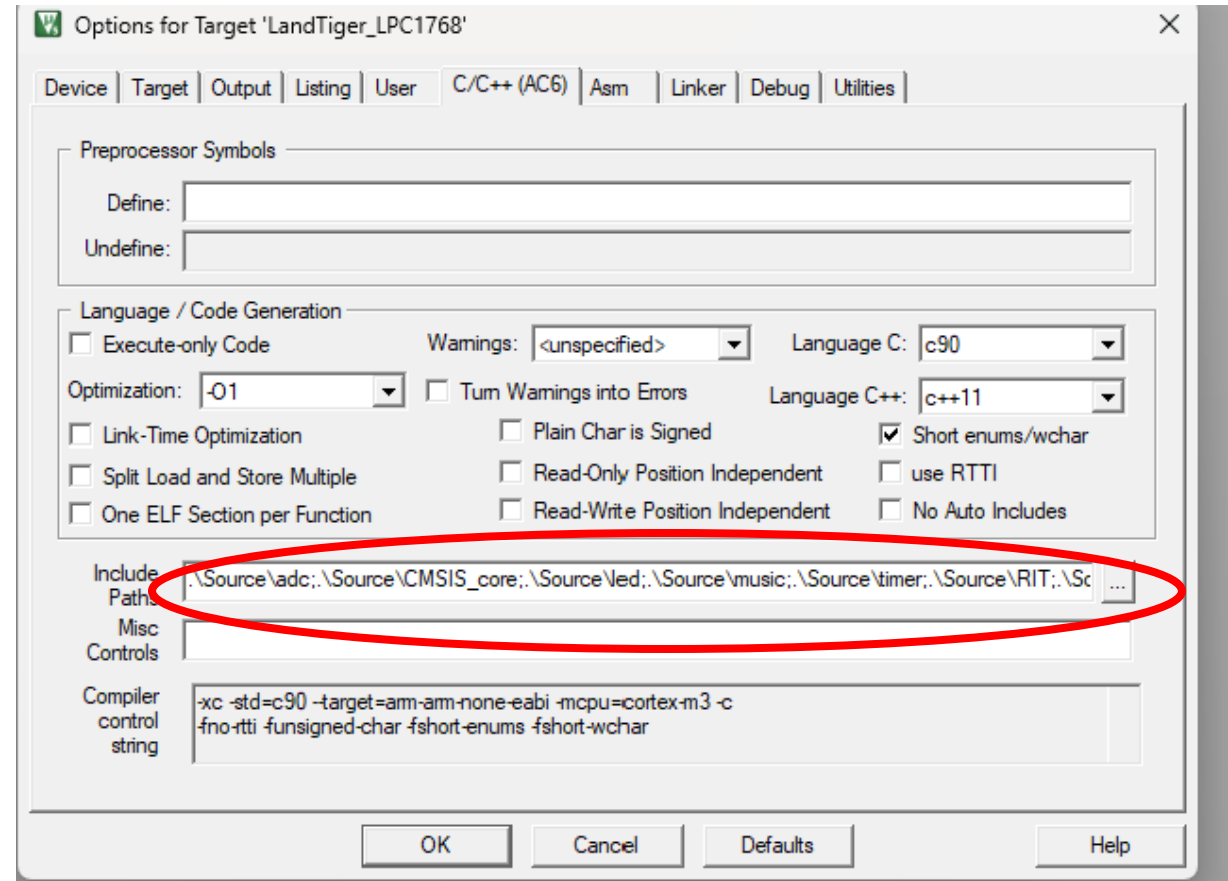


The compiler



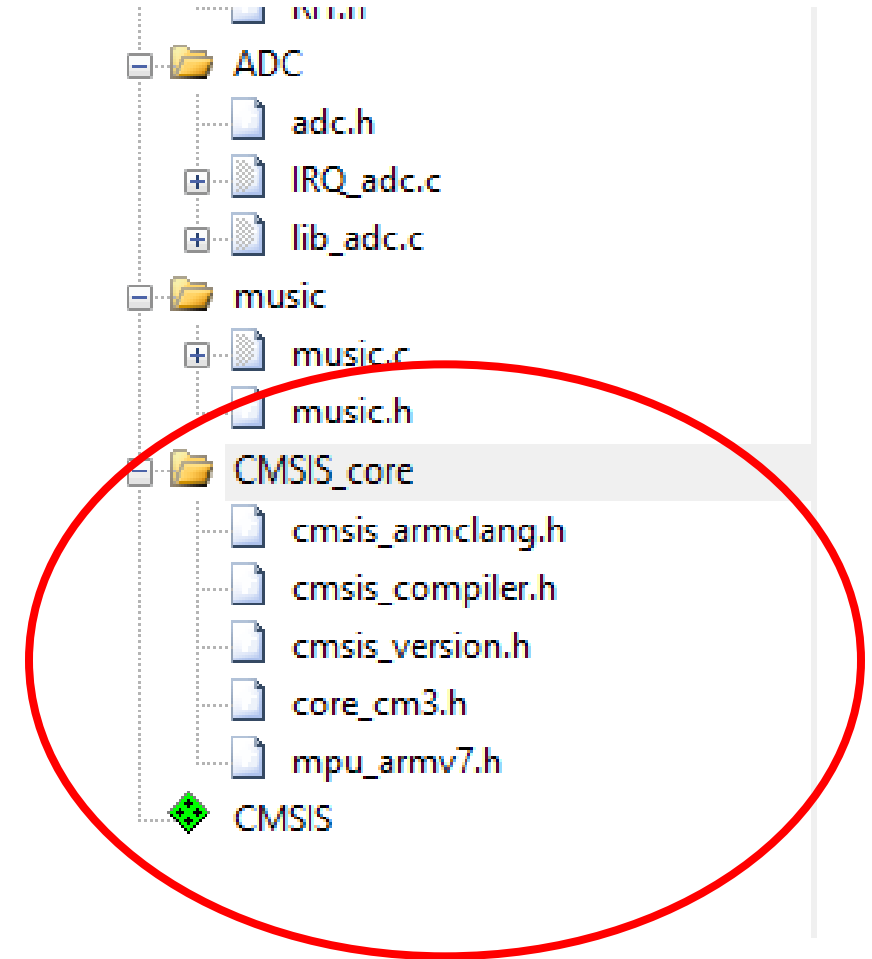
The compiler - Includes

- A new folder must be added in this list!



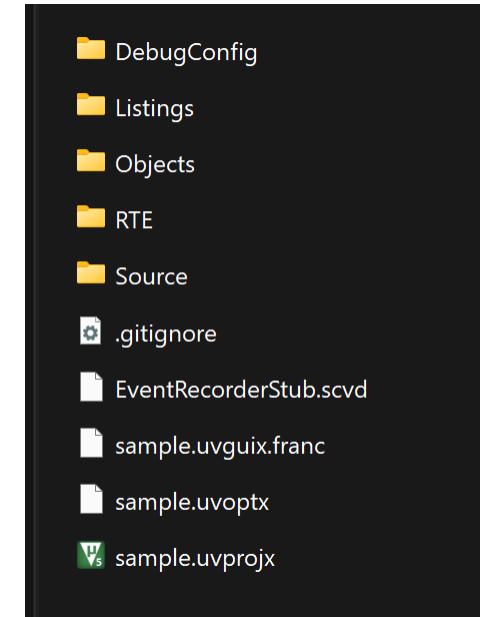
The Common Microcontroller Software Interface Standard (CMSIS)

- Included from RTE (green CMSIS)
- Verbosely included in the project file (DO NOT REMOVE THEM!)
- For fixing include dependencies in the DFP_LPC1768.



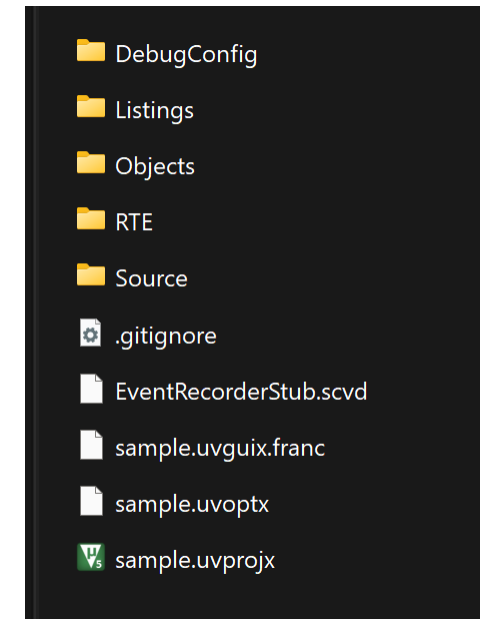
The project structure

- Compilation Directories: Objects, Listings
- Debug Directories: DebugConfig and *.svcd
- Runtime Environment: RTE
- Source files in Source (with the old structure)
- Keil projects *.uvoptx, *.uvproj



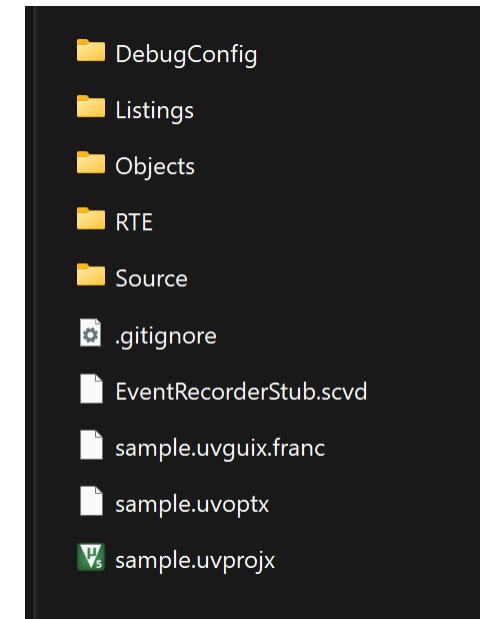
Where did the “munnezza” go?

- In Compilation Directories:
 - Objects: *.o, *.d, *.map, *.axf and other compilation outputs.
 - Listings: *.dep, *.lst.



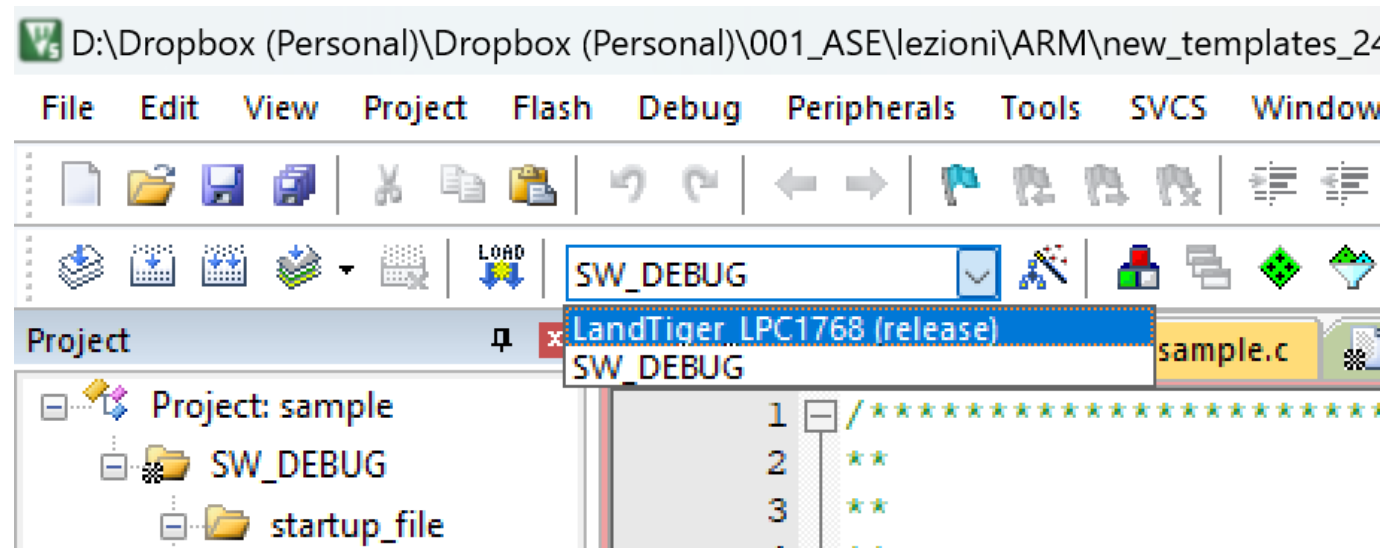
Reuse GUI configuration from another user!

- sample.uvguix.franc
- Just rename it or a new file will be created for each user GUI configuration.



Different targets for different goals

- SW Debug: run the program using the software simulator/emulator.
- LandTiger_LPC1768 (release): run the program on the **real board**.
- Select your preferred target for your needs.



TrackChanges in the code

- Moved from:
 - `#include "lpc17xx.h"` to `#include "LPC17xx.h"`
 - In `sample.c` `#include "LPC17xx.H"` to `#include "LPC17xx.h"`
 - in `timer_lib.c` `init_timer` function
`// **** <<< Use Configuration Wizard in Context Menu >>> ***/` to
`// <<< Use Configuration Wizard in Context Menu >>>`
 - in `timer_lib.c` `init_timer` function `// *** <<< end of configuration section >>> *** /`
to
`// <<< end of configuration section >>>`
- For LCD, Touch panel and CAN templates:
 - Stack size increased from `0x200` to `0x400`
 - Moved from `01` to `00` (otherwise it hangs), **ONLY FOR** "TouchPanel.c" and "GLCD.c" (for CAN template)