Compiling C and C++

STM32 System Workbench

This document shows the easy way on how to compile both C and C++ source codes in a project using STM32 System Workbench.

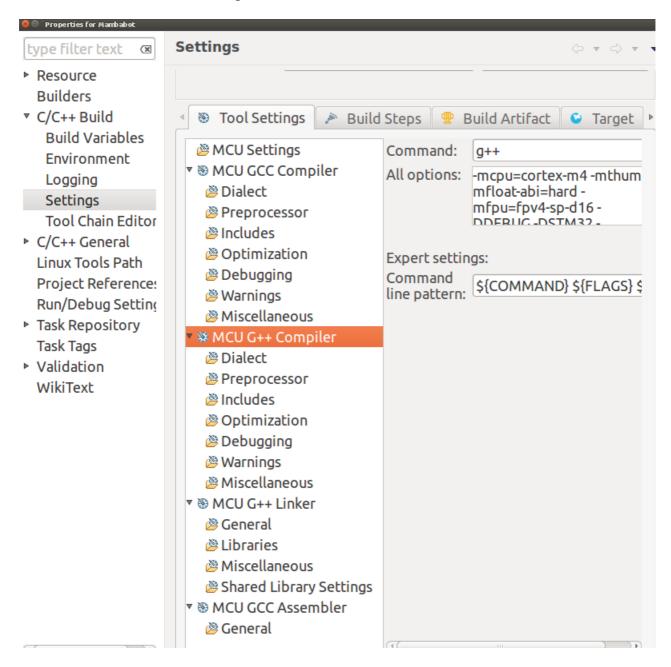
1. Go to your project directory and look for .project

```
rudy@rudy-dell:~/stm32 workspace/Mambabot$ ls -la
total 88
drwxrwxr-x 12 rudy rudy
                           4096 May
                           4096 May
drwxrwxr-x 15 rudy rudy
                                       8 15:21 ...
drwxrwxr-x 5 rudy rudy
                           4096 May
                                       8 15:26 appl
drwxrwxr-x 2 rudy rudy
                           4096 Mar
                                       3 20:52 config
-rw-rw-r-- 1 rudy rudy 24248 May
drwxrwxr-x 8 rudy rudy 4096 May
drwxrwxr-x 4 rudy rudy 4096 Mar
                                       8 15:28 .cproject
                                      8 15:36 Debug
                           4096 Mar 15 21:20 Drivers
drwxrwxr-x 2 rudy rudy
                           4096 May
                                     1 13:38 inc
-rw-rw-r-- 1 rudy rudy
                           5997 Mar 17 20:19 LinkerScript.ld
-rw-rw-r-- 1 rudy rudy
                            530 May 8 15:36 NUCLEO-F429ZI.xml
-rw-rw-r-- 1 rudy rudy
                            945 Mar 14 21:05 .project
drwxrwxr-x 5 rudy rudy
                           4096 Mar 18 20:42 ros_lib
                           4096 Mar 13 17:04 .settings
drwxrwxr-x 2 rudy rudy
drwxrwxr-x 2 rudy rudy
                           4096 May
                                      1 13:39 src
drwxrwxr-x 2 rudý rudý
drwxrwxr-x 3 rudy rudy
                           4096 Mar 17 21:07 startup
                           4096 Mar
                                       3 21:35 third-party
rudy@rudy-dell:~/stm32_workspace/Mambabot$ gedit .project
```

2. Open the .project and add the following under <nature>org.eclipse.cdt.core.cnature</nature> <nature>org.eclipse.cdt.core.ccnature</nature>

```
<?xml version="1.0" encoding="UTF-8"?>
coriectDescription>
       <name>Mambabot</name>
       <comment></comment>
       ojects>
       </projects>
       <buildSpec>
               <buildCommand>
                       <name>org.eclipse.cdt.managedbuilder.core.genmakebuilder/name>
                       <triggers>clean,full,incremental,</triggers>
                       <arguments>
                       </arguments>
               </buildCommand>
               <bush
                       <name>org.eclipse.cdt.managedbuilder.core.ScannerConfigBuilder</name>
                       <triggers>full,incremental,</triggers>
                       <arguments>
                       </arguments>
               </buildCommand>
       </buildSpec>
       <natures>
               <nature>org.eclipse.cdt.core.cnature
               <nature>org.eclipse.cdt.core.ccnature
               <nature>org.eclipse.cdt.managedbuilder.core.managedBuildNature/nature>
               <nature>org.eclipse.cdt.managedbuilder.core.ScannerConfigNature
               <nature>fr.ac6.mcu.ide.core.MCUProjectNature
               <nature>fr.ac6.mcu.ide.core.MCUSingleCoreProjectNature/nature>
       </natures>
</projectDescription>
```

- 3. Close and re-open the STM32 Eclipse Workspace
- 4. Once STM32 Eclipse is open, right click your Project ->Properties -> C/C++ Build -> Settings It shows that both C and C++ compiler are available.



5. Adapt the needed "Preprocessor" and "Includes" in both C and C++ accordingly.