

MCUXpresso Guide for LPC 1768 and Other LPC CPUs (1/3)

<https://medium.com/echohub/mcuxpresso-usage-60c140662ce1>

1. Import Library
2. Import Existing Projects into Workspace
3. select your library path then you will show imported projects files in Import pages
4. You can build imported projects. Right click on project files and click Build Project
5. create new C/C++ project in MCUXpresso IDE for LPC11xx and LPC1768
6. import external library
7. debug the created project

[coderkan/CMSISv1p30_LPC17xxCMSISv1p30_LPC17xx - CMSIS Library to use in LPC17xxgithub.com](#)

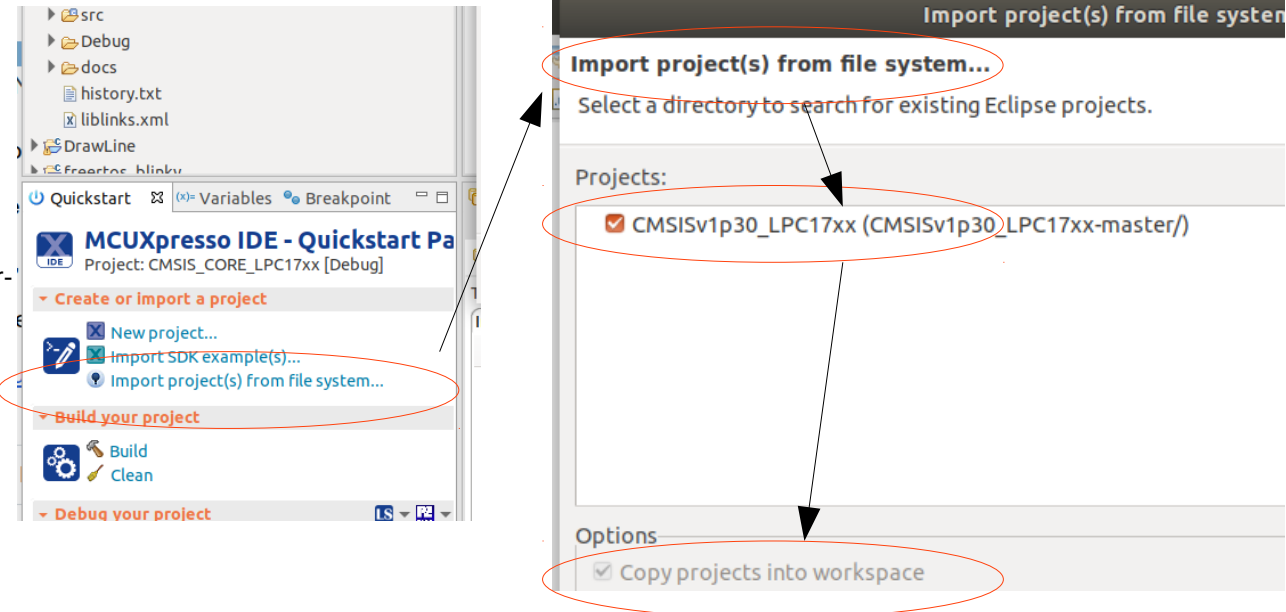
[coderkan / CMSISv1p30_LPC17xx](#)

https://github.com/coderkan/CMSISv1p30_LPC17xx

Note: LPC series needs to install CMSIS Library to your workspaces

Common Microcontroller Software Interface Standard (CMSIS) is a vendor-independent abstraction layer for microcontrollers that are based on Arm Cortex

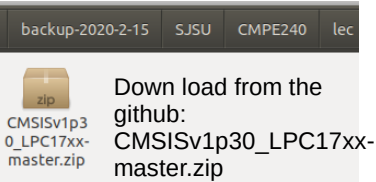
CMSIS - Arm Developer<https://developer.arm.com/embedded/cmsis>



MCUXpresso for LPC 1768 (2/3)

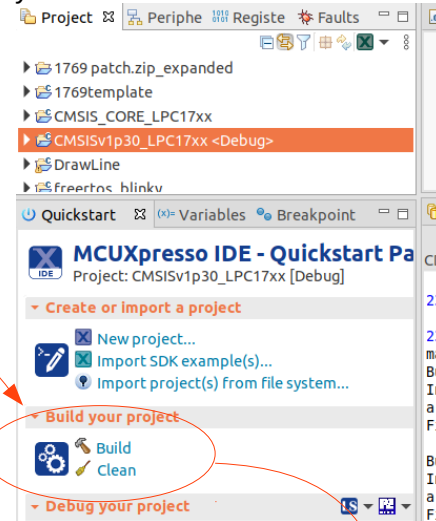
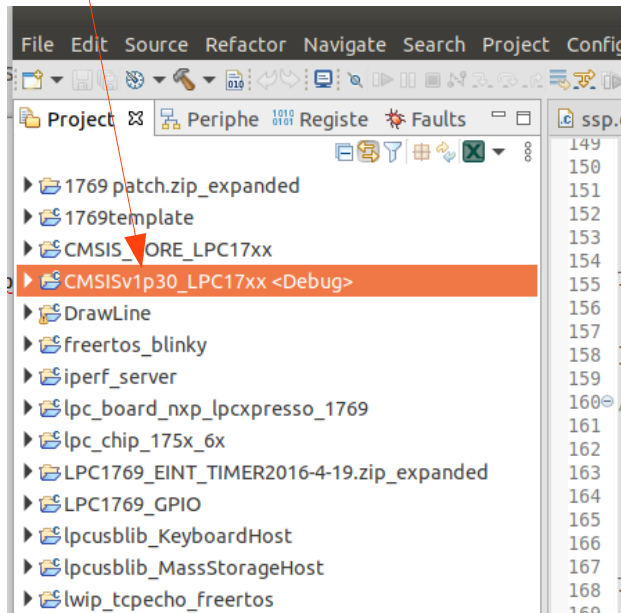
1. Download CMSIS LPC17xx library from the github

2. Imported the library the workspace



3. Then build the library

4. Create new C/C++ project

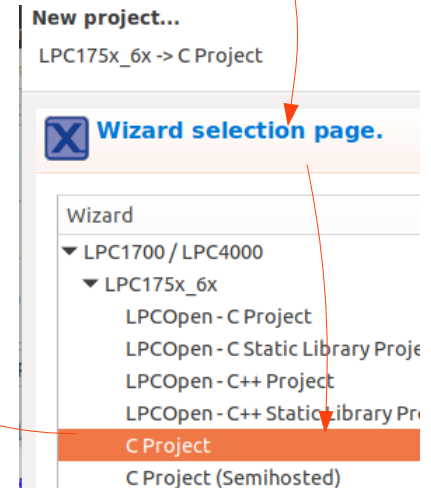
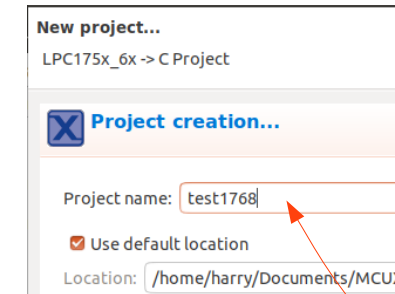
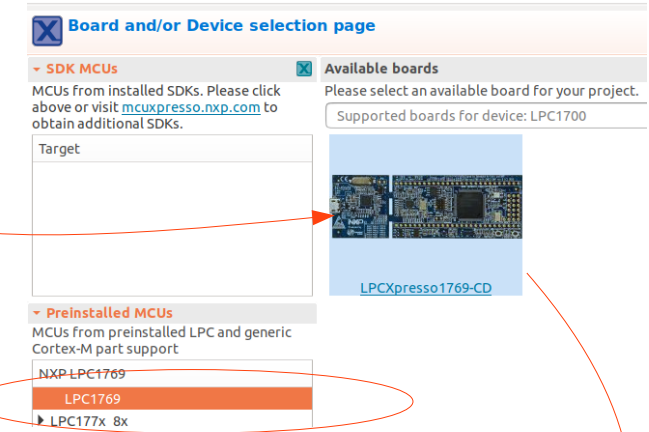
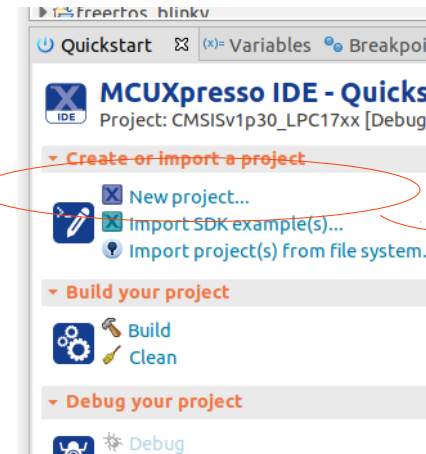


```
Building file: ../src/system_LPC17xx.c
Invoking: MCU C Compiler
arm-none-eabi-gcc -DDEBUG -D_CODE_RED -D_REDLIB -I"/home
Finished building: ../src/system_LPC17xx.c

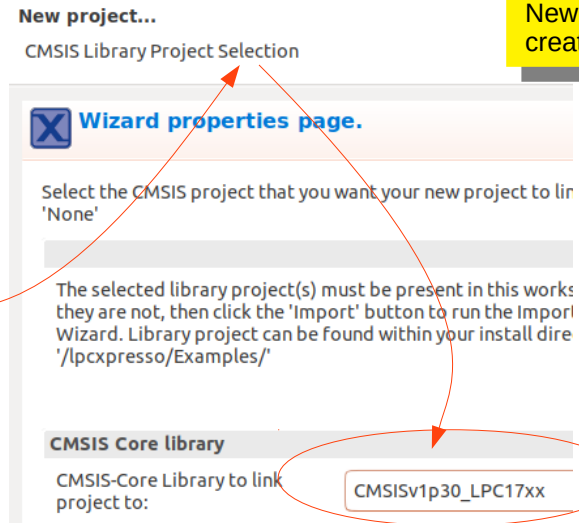
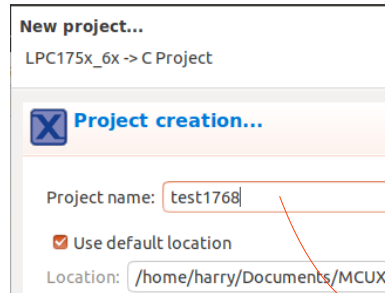
Building target: libCMSISv1p30_LPC17xx.a
Invoking: MCU Archiver
arm-none-eabi-ar -r "libCMSISv1p30_LPC17xx.a" ./src/core_c
arm-none-eabi-ar: creating libCMSISv1p30_LPC17xx.a
Finished building target: libCMSISv1p30_LPC17xx.a

make --no-print-directory post-build
Performing post-build steps
arm-none-eabi-size libCMSISv1p30_LPC17xx.a ; # arm-none-eabi
text data bss dec hex filename
594 0 0 594 252 core_cm3.o (ex libCM
948 4 0 952 3b8 system_LPC17xx.o (ex

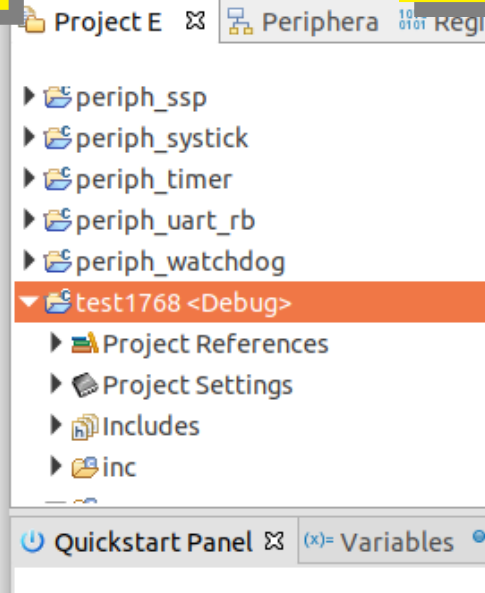
23:18:18 Build Finished. 0 errors, 0 warnings. (took 224ms)
```



MCUXpresso for LPC 1768 (3/3)



New project is created



Then build this project successfully

```
Finished building: ../src/test1768.c
Finished building: ../src/cr_startup_lpc175x_6x.c
Building target: test1768.axf
Invoking: MCU Linker
arm-none-eabi-gcc -nostdlib -L"/home/harry/Documents/MCUXpresso/Examples" -o test1768.axf test1768.o cr_startup_lpc175x_6x.o
Memory region      Used Size  Region Size  %age Used
MFlash512:         1116 B      512 KB      0.21%
RamLoc32:           4 B        32 KB      0.01%
RamAHB32:           0 GB       32 KB      0.00%
Finished building target: test1768.axf

make --no-print-directory post-build
Performing post-build steps
arm-none-eabi-size "test1768.axf"; # arm-none-eabi-objcopy -
text    data    bss    dec    hex filename
1116     0      4   1120   460 test1768.axf

00:35:48 Build Finished. 0 errors, 0 warnings. (took 230ms)
```