

# Archlinux build setup

Main build documentation:

<https://github.com/JF002/InfiniTime/blob/develop/doc/buildAndProgram.md>

CLion setup : <https://github.com/JF002/nrf52-baseproject/wiki/Build,-program-and-debug-NRF52-project-with-JLink,-CMake-and-CLion>

## Prerequisite

Install the following packets:

- aur/nrf5x-command-line-tools
- aur/nrf5-sdk
- community/arm-none-eabi-newlib
- community/arm-none-eabi-gcc

Not sure about:

- community/arm-none-eabi-binutils
- community/arm-none-eabi-gdb

## CLion configuration

### Base config

Then modify CMake options in CLion>Settings>Build,Execution,Deployment>CMake>CMake options

```
- DARM_NONE_EABI_TOOLCHAIN_PATH=/usr  
- DNRF5_SDK_PATH=/opt/nrf5-sdk
```

## JLink

If using JLink to

```
- DUSE_JLINK=1  
- DNRFJPROG=/usr/bin/nrfjprog
```

## Troubleshooting

The C (or C++) compiler XXXXXX is not able to compile a simple test program.

If XXXXXXXX is not the arm compile : ``/usr/bin/arm-none-eabi-g++`` or ``/usr/bin/arm-none-eabi-gcc``

If you have errors related to checking the compiler works (e.g. "-- Check for working CXX compiler: /usr/bin/arm-none-eabi-g++ - broken") add those two variables :

```
- DCMAKE_C_COMPILER_FORCED=1  
- DCMAKE_CXX_COMPILER_FORCED=1
```

My (Zorvalt) issue came from CLion using "normal" ``cc`` instead of the arm toolchain.

---

Revision #9

Created Thu, Mar 11, 2021 6:20 PM by [Sylvain](#)

Updated Thu, Mar 3, 2022 8:18 AM by [Sylvain](#)