# 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 XXXXXXX 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.

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