Kendryte RISC-V GNU Compiler Toolchain (Ubuntu)

Install the packages

`sudo apt-get install autoconf automake autotools-dev curl libmpc-dev libmpfr-dev libgmp-dev gawk build-essential bison flex texinfo gperf libtool patchutils bc zlib1g-dev libexpat-dev`

Get the gnu-toolchain

`git clone --recursive https://github.com/kendryte/kendryte-gnu-toolchain`

Installation (Newlib)

To build the Newlib cross-compiler new to add the executable to $PATH

1. `$ echo $PATH`

2. `cd ~/`

3. `vim .bashrc` or other text editor than vim

4. Add the end of the file append `PATH=$PATH:/opt/kendryte-toolchain/bin`

5. Source your .bashrc,type `source ~/.bashrc` and check with `$ echo $PATH`
   If everything went well you should see in the output `.../x86_64-linux:/opt/kendryte-toolchain/bin`

Add folder and chanage permissions

1. `cd /opt`

2. `sudo mkdir kendryte-toolchain` - if there is not already existing directory

3. `sudo chmod 777 kendryte-toolchain`

4. `cd` into the kendryte-gnu-toolchain you downloaded

5. Execute `./configure --prefix=/opt/kendryte-toolchain --with-cmodel=medany --with-arch=rv64imafc --with-abi=lp64f`

6. In no errors then type `make -j8`