

1. Have a file extractor installed (i.e. winrar or 7zip)
2. Download and install [Cmder](#)
3. Download linaro arm-linux-gnueabihf
 - Go to [the linaro downloads website](#)
 - Click on Binaries on the arm-linux-gnueabihf row of the Latest Linux Targeted Binary Toolchain Releases (see Figure 1)
 - Download gcc-linaro-7.5.0-2019.12-i686-mingw32_arm-linux-gnueabihf.tar.xz (see Figure 2 **Error! Reference source not found.**)
4. Extract the .tar.xz file to somewhere on the C:/ Drive, this document has the file extracted to C:/bin (see Figure 3)
5. Go to the extraction folder, and inside the extracted folder, copy the path of the bin folder (see Figure 4 **Error! Reference source not found.**), for this document, the path is "C:\bin\gcc-linaro-7.5.0-2019.12-i686-mingw32_arm-linux-gnueabihf\bin"
6. Go to the windows Environment Variables
 - Open file explorer
 - Right click on "This PC"
 - Click on Properties
 - A window like Figure 5 should appear, click on "advanced system settings"
 - The "System Properties" window should open, click on "Environment Variables..." (see Figure 6)
7. Double click on path under both "User variables for <username>" and "System variables" (see Figure 7)
8. Add a new path, and paste the copied path from step 5 to the list (see Figure 8 for User variables)
9. Open Cmder (if it is already open, close the program and re-open it to update the path)
10. Type "arm-l" and press tab, it should auto complete to "arm-linux-gnueabihf-", then press tab twice in a row which should display a list, "arm-linux-gnueabihf-gcc.exe" must be o=among them (see Figure 9)
11. To test the compiler, create a simple C file somewhere on your PC (see Figure 10 for a hello world example called helloworld.c)
12. In cmder, go to the C file folder (using the cd command, see [])
13. Use the compiler to output a file (use -o parameter to have a custom name, extension does not matter, the extension ".o" is used in this document) with the simple C file as input (see Figure 11)

Linaro provides monthly [GCC source archive](#) snapshots of the current Linaro GCC release branch, as well as quarterly releases of pre-built Linaro [GNU cross-toolchain binary archives](#).

The following tables provide direct access to the most common Linux and bare-metal ABI variants of the Linaro binary cross-toolchain quarterly releases. Both x86_64 Linux and Mingw32 (MS Windows compatible) host binaries are provided:

Latest Linux Targeted Binary Toolchain Releases

| | | | | |
|--|--|-------------------------------|--------------------------|------------------------|
| arm-linux-gnueabihf | 32-bit Armv7 Cortex-A, hard-float, little-endian | Release-Notes | Binaries | Source |
| armv8l-linux-gnueabihf | 32-bit Armv8 Cortex-A, hard-float, little-endian | Release-Notes | Binaries | Source |
| aarch64-linux-gnu | 64-bit Armv8 Cortex-A, little-endian | Release-Notes | Binaries | Source |

Latest Bare-Metal Targeted Binary Toolchain Releases

| | | | | |
|-----------------------------|--|-------------------------------|--------------------------|------------------------|
| arm-eabi | 32-bit Armv7 Cortex-A, soft-float, little-endian | Release-Notes | Binaries | Source |
| aarch64-elf | 64-bit Armv8 Cortex-A, little-endian | Release-Notes | Binaries | Source |

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Figure 1: Linaro downloads

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Linaro Releases

| Name | Last modified | Size | License |
|--|-------------------|--------|---------|
| Parent Directory | | | |
| gcc-linaro-7.5.0-2019.12-i686-mingw32_arm-linux-gnueabihf.tar.xz | 05-Dec-2019 10:01 | 341.6M | open |
| gcc-linaro-7.5.0-2019.12-i686-mingw32_arm-linux-gnueabihf.tar.xz.asc | 05-Dec-2019 10:02 | 99 | open |
| gcc-linaro-7.5.0-2019.12-i686_arm-linux-gnueabihf.tar.xz | 05-Dec-2019 10:02 | 104.0M | open |
| gcc-linaro-7.5.0-2019.12-i686_arm-linux-gnueabihf.tar.xz.asc | 05-Dec-2019 10:02 | 91 | open |
| gcc-linaro-7.5.0-2019.12-linux-manifest.txt | 05-Dec-2019 10:02 | 11.1K | open |
| gcc-linaro-7.5.0-2019.12-win32-manifest.txt | 05-Dec-2019 10:02 | 11.1K | open |
| gcc-linaro-7.5.0-2019.12-x86_64_arm-linux-gnueabihf.tar.xz | 05-Dec-2019 10:02 | 104.6M | open |
| gcc-linaro-7.5.0-2019.12-x86_64_arm-linux-gnueabihf.tar.xz.asc | 05-Dec-2019 10:02 | 93 | open |
| runtime-gcc-linaro-7.5.0-2019.12-arm-linux-gnueabihf.tar.xz | 05-Dec-2019 10:02 | 6.4M | open |
| runtime-gcc-linaro-7.5.0-2019.12-arm-linux-gnueabihf.tar.xz.asc | 05-Dec-2019 10:02 | 94 | open |
| sysroot-glibc-linaro-2.25-2019.12-arm-linux-gnueabihf.tar.xz | 05-Dec-2019 10:02 | 40.9M | open |
| sysroot-glibc-linaro-2.25-2019.12-arm-linux-gnueabihf.tar.xz.asc | 05-Dec-2019 10:02 | 157 | open |

Running linaro-license-protection e646832.

Figure 2: Linaro toolchain

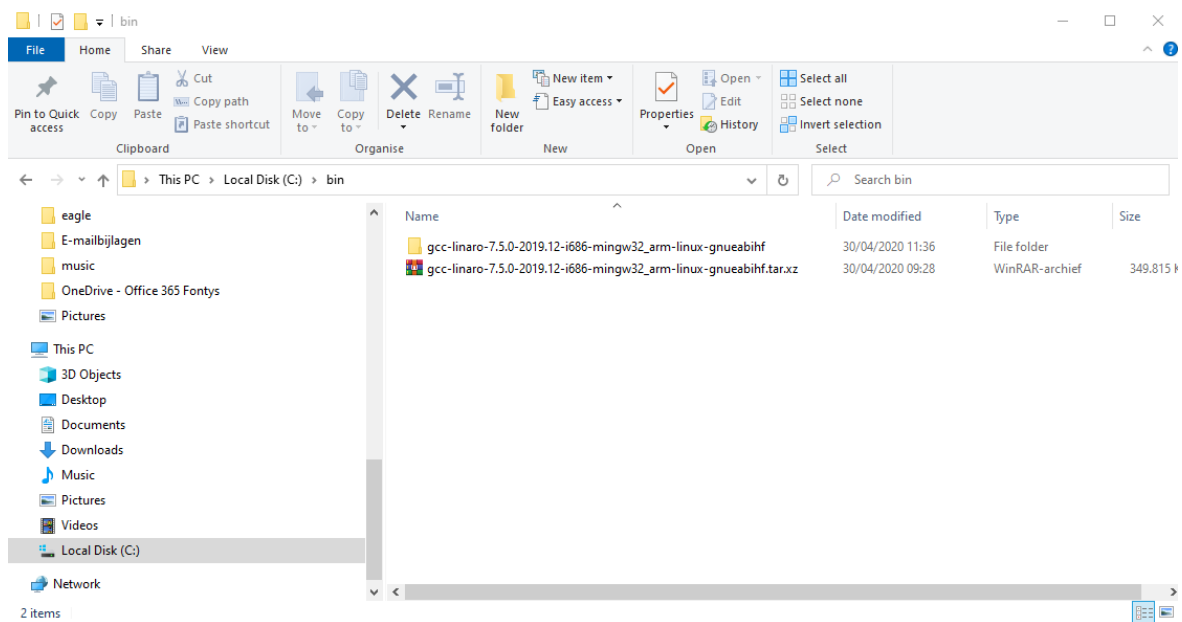


Figure 3: Linaro extraction folder

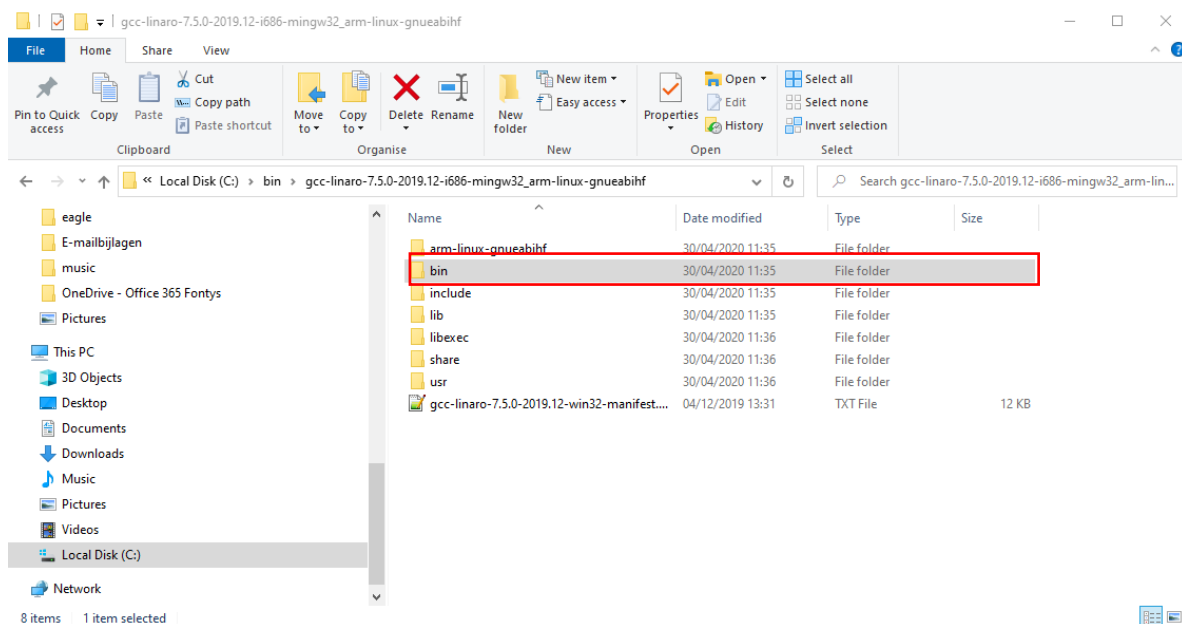


Figure 4: Linaro bin folder

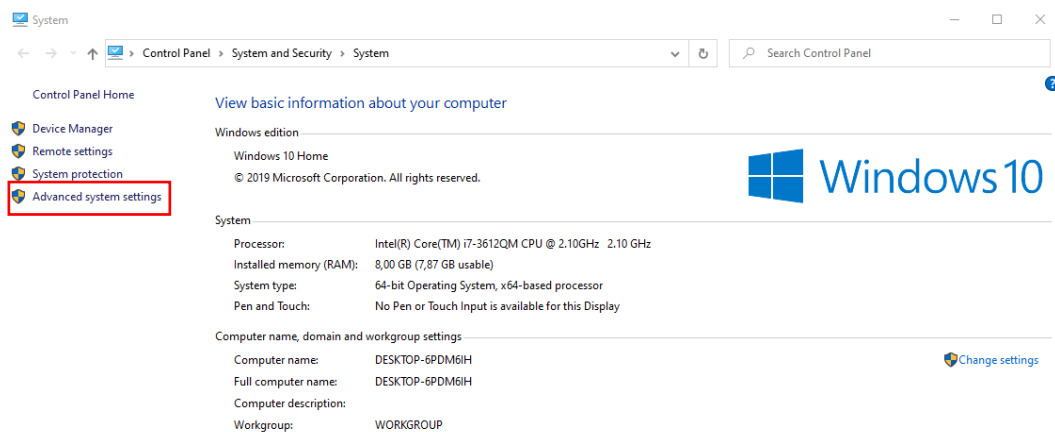


Figure 5: Windows advanced system settings

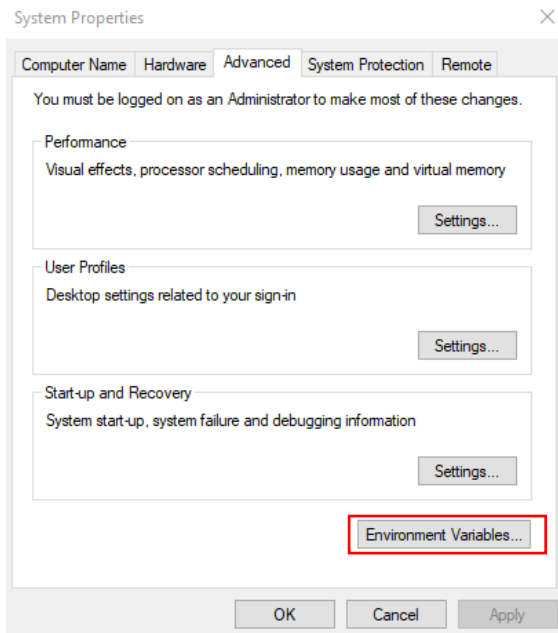


Figure 6: Windows Enviroment Variables

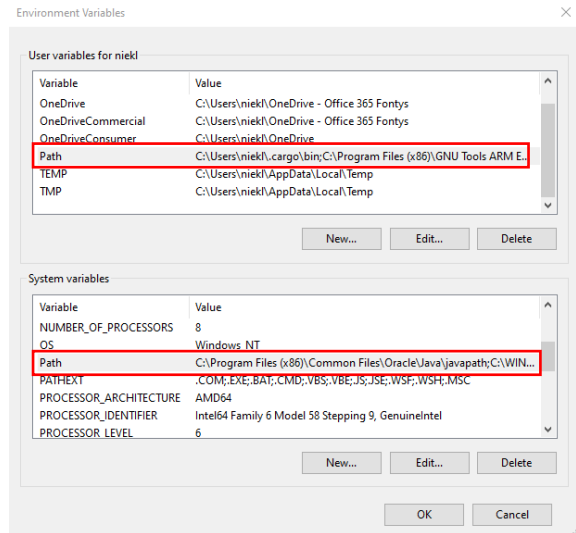


Figure 7: Windows Path

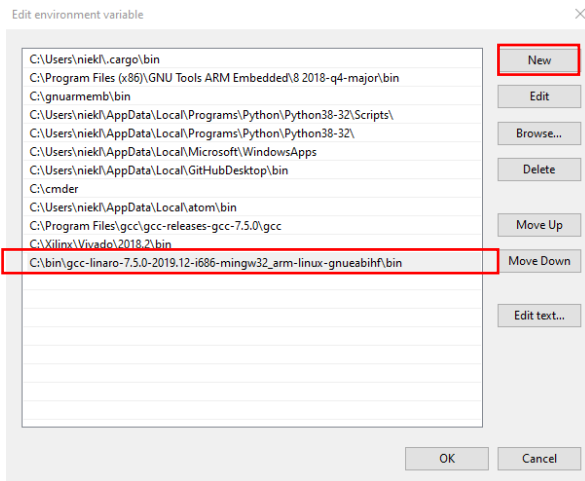


Figure 8: add Linaro directory path to windows path

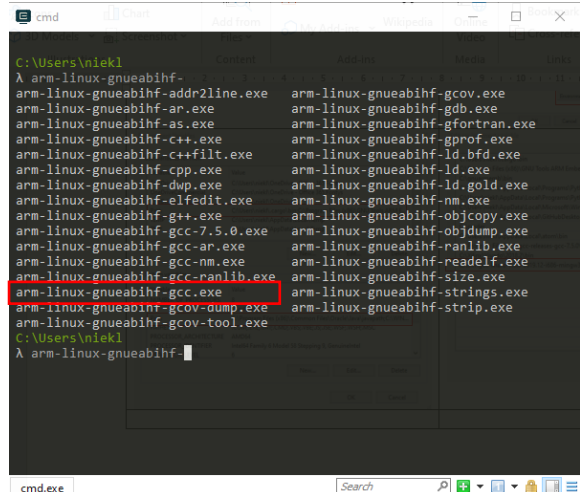


Figure 9: compiler existence verification

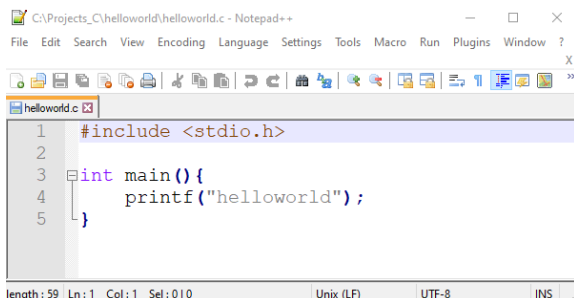


Figure 10: example simple C program

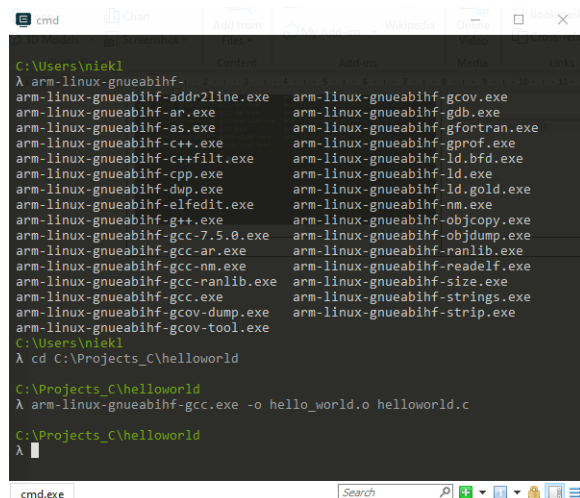


Figure 11: compile simple C program