Cross compiling for ARM with Ubuntu 16.04 LTS

* Build platform: Architecture of the build machine
* Host platform: The architecture you are building for
* Target platform: The architecture that will run the binary output of the compilation

1. **系統必備元件‎**

$ sudo apt-get install gcc make gcc-arm-linux-gnueabi

$ sudo apt-get install binutils-arm-linux-gnueabi

$ **sudo apt-get install libc6-armel-cross libc6-dev-armel-cross**

$ **sudo apt-get install libncurses5-dev**

$ **sudo apt-get install gcc-arm-linux-gnueabi**

$ **sudo apt-get install g++-arm-linux-gnueabi**

1. **Download ARM Embedded Toolchain from:**

<https://developer.arm.com/open-source/gnu-toolchain/gnu-rm/downloads>

1. 設定 Toolchain 安裝的目錄:

${HOME}/opt/

1. unpack the archive in the destination folder:

possible locations (${HOME}/local, ${HOME}/opt, /usr/local).

* $ mkdir -p ${HOME}/opt
* $ cd ${HOME}/opt
* $ tar xjf ~/Downloads/gcc-arm-none-eabi-6-2017-q1-update-linux.tar.bz2
* $ chmod -R -w ${HOME}/opt/gcc-arm-none-eabi-6-2017-q1-update

1. Test the toolchain path:

$ ${HOME}/opt/gcc-arm-none-eabi-6-2017-q2-update/bin/arm-none-eabi-gcc –version

The complete toolchain documentation is available in the

.../share/doc/pdf/ folder.

1. Set Toolchain path

* **DO NOT add the toolchain path to the user or system path!**
* The GNU ARM Eclipse plug-in has an advanced [toolchain path management](http://gnuarmeclipse.github.io/toolchain/path/)