

우분투 14.04.6 LTS : <https://www.releases.ubuntu.com/14.04/>

sudo passwd

su

cd /

ls

mkdir /Smart4412Linux

ls

firefox > 임베디드소프트웨어 자료실에서 Development 다운로드

cd /home/hello/Downloads

ls

cp -rf Development/ /Smart4412Linux/

cd /

apt-get install gcc-4.4 gcc-4.4-multilib g++-4.4 g++-4.4-multilib --yes

gcc --version

g++ --version

sudo dpkg -l | grep gcc | awk '{print \$2}' /gcc-4.4, gcc-4.4-multilib확인

sudo dpkg -l | grep g++ | awk '{print \$2}' /g++-4.4, g++-4.4-multilib확인

```
root@ubuntu: /
root@ubuntu: /# sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.4 10
root@ubuntu: /# sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.8 20
root@ubuntu: /# sudo update-alternatives --install /usr/bin/g++ g++ /usr/bin/g++-4.4 10
root@ubuntu: /#
root@ubuntu: /# sudo update-alternatives --install /usr/bin/cc cc /usr/bin/gcc 30
root@ubuntu: /# sudo update-alternatives --set cc /usr/bin/gcc
root@ubuntu: /# sudo update-alternatives --install /usr/bin/c++ c++ /usr/bin/g++ 30
root@ubuntu: /# sudo update-alternatives --set c++ /usr/bin/g++
root@ubuntu: /# sudo update-alternatives --config gcc
There are 2 choices for the alternative gcc (providing /usr/bin/gcc).

  Selection    Path                                Priority  Status
-----
* 0            /usr/bin/gcc-4.8                    20      auto mode
  1            /usr/bin/gcc-4.4                    10      manual mode
  2            /usr/bin/gcc-4.8                    20      manual mode

Press enter to keep the current choice[*], or type selection number: 1
update-alternatives: using /usr/bin/gcc-4.4 to provide /usr/bin/gcc (gcc) in manual mode
root@ubuntu: /# sudo update-alternatives --config g++
There is only one alternative in link group g++ (providing /usr/bin/g++): /usr/bin/g++-4.4
Nothing to configure.
root@ubuntu: /# gcc --version
gcc (Ubuntu/Linaro 4.4.7-8ubuntu1) 4.4.7
Copyright (C) 2010 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

root@ubuntu: /# g++ --version
g++ (Ubuntu/Linaro 4.4.7-8ubuntu1) 4.4.7
Copyright (C) 2010 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

root@ubuntu: /#
```

****gcc version의 우선순위를 설정해야한다.

sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.4 10

sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-다른 버전 20

sudo update-alternatives --install /usr/bin/g++ g++ /usr/bin/g++-4.4 10

```

sudo update-alternatives --install /usr/bin/g++ g++ /usr/bin/g++-다른 버전 20
sudo update-alternatives --install /usr/bin/cc cc /usr/bin/gcc 30
sudo update-alternatives --set cc /usr/bin/gcc
sudo update-alternatives --install /usr/bin/c++ c++ /usr/bin/g++ 30
sudo update-alternatives --set c++ /usr/bin/g++
**** 중간에 오류가 있을 수 있으나, 우선 끝까지 진행한 후 다시 입력하면 되더라. g++은
버전이 -4.4 하나인 경우도 있는데, 그런 경우는 그냥 넘어가라.

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sudo update-alternatives --config gcc
**** 를 입력하면 아래와 같은 화면이 나온다.
**** Selection      Path                      Priority    Status
**** -----
**** * 0            /usr/bin/gcc-4.8         20         auto mode
**** 1              /usr/bin/gcc-4.4         10         manual mode
**** 2              /usr/bin/gcc-4.8         20         manual mode
**** Press enter to keep the current choice[*], or type selection number:
**** gcc-4.4의 번호가 1번이라면 number 뒤에 1을 입력하라.
sudo update-alternatives --config g++
**** 마찬가지로.

```

```

gcc --version
g++ --version
**** 4.4.* 버전인지 확인하라.

```

```

echo "export CC=gcc-4.4 CXX=G++-4.4" >> ~/.bashrc
source ~/.bashrc
apt-get install u-boot-tools

```

```

cd /Smart4412Linux/Development/Toolchain/
ls
cp arm-2010q1.tgz /usr/local/
cd /usr/local/
ls
tar zxvf arm-2010q1.tgz

```

```

cd /Smart4412Linux/Development/Toolchain/
ls
cp gnueabi.tgz /opt/
cd /opt/
ls
tar zxvf gnueabi.tgz

```

```
cd /opt/gnueabi/opt/ext-toolchain/bin
```