

ARM926EJ-S S3C2450

Intitializing a Build Environment and Source Compile

<http://www.mangoboard.com/>

<http://cafe.naver.com/embeddedcrazyboys>

Crazy Embedded Laboratory



Document History

Revision	Date	Change note

1.	ARM926EJ-S S3C2450 Intitializing a Build Environment and Source Compile	5
1.1.	GCC Setting.....	5
1.2.	Toolchain install	5
1.3.	Package install	6

1. ARM926EJ-S S3C2450 Intitializing a Build Environment and Source Compile

Host PC : Ubuntu 12.04 64bit

Toolchain

GCC version :gcc version 4.4.7 (Ubuntu/Linaro 4.4.7-1ubuntu2)

ARM GCC: gcc version 4.4.1 (Sourcery G++ Lite 2010q1-202)

Filesystem : buildroot <http://buildroot.uclibc.org/download.html>

1.1. GCC Setting

```
$ sudo apt-get install gcc-4.5 g++-4.5 build-essential gcc-4.5-multilib g++-4.5-multilib
$ sudo apt-get install gcc-4.5 g++-4.4 build-essential gcc-4.4-multilib g++-4.4-multilib

$ sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.6 40 ₩
--slave /usr/bin/g++ g++ /usr/bin/g++-4.6

$ sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.5 60 ₩
--slave /usr/bin/g++ g++ /usr/bin/g++-4.5

$ sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.4 80 ₩
--slave /usr/bin/g++ g++ /usr/bin/g++-4.4

$ sudo update-alternatives --config gcc
```

Gcc 4.4 설정

1.2. Toolchain install

```
$ cd /opt
$ sudo wget https://sourcery.mentor.com/sgpp/lite/arm/portal/package6488/public/arm-none-linux-gnueabi/arm-2010q1-202-arm-none-linux-gnueabi-i686-pc-linux-gnu.tar.bz2
sudo tar xvf arm-2010q1-202-arm-none-linux-gnueabi-i686-pc-linux-gnu.tar.bz2
```

"~/bashrc" 수정

```
export JAVA_HOME=/usr/bin/java
export ANDROID_JAVA_HOME=$JAVA_HOME
export PATH=$JAVA_HOME/bin:$PATH
```

```
export ARCH=arm
export CROSS_COMPILE=arm-none-linux-gnueabi-
export PATH=/opt/arm-2010q1/bin:$PATH
export USE_CCACHE=1
export CCACHE_DIR=~/.cache
if [ "$PS1" ]; then
PS1="[Wu@Wh WW]WW$ "
fi
```

"bashrc" 수정 시 띄워쓰기에 주의하시기 바랍니다.

적용하기

```
$ source ~/.bashrc
```

1.3. Package install

```
$ sudo apt-get install git-core gnupg flex bison gperf build-essential W
zip curl libc6-dev libncurses5-dev:i386 x11proto-core-dev W
libx11-dev:i386 libreadline6-dev:i386 libgl1-mesa-dev:i386 W
g++-multilib mingw32 openjdk-6-jdk tofrodos python-markdown W
libxml2-utils xsltproc zlib1g-dev:i386
```

```
sudo apt-get install gcc-multilib
sudo apt-get install libc6-dev-i386
sudo apt-get install ia32-libs
sudo apt-get install lib32z-dev
sudo apt-get install libusb-dev:i386
```

```
$ sudo apt-get install git-core bison flex g++ gettext texinfo libncurses5-dev
$ sudo apt-get install automake
```