

망고100 보드로 놀아보자-17

CPU:S5PC100

Android Source 얻기, busybox, Android SDK, ADB 연결

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

<http://www.mangoboard.com>

안드로이드 소스 다운 받기

- `# yum install flex bison gperf libstdc++-devel libstdc++0-32 libstdc++0-64 libstdc++-devel build-essential zip curl wget`
- `#yum install valgrind`
- `#yum install python*`
- `# yum install zlib-devel`
- `#yum install libX11-devel.i686`
- `#yum install glibc*`
- `yum install git git-*`
- `$ cd ~`
- `$ mkdir bin`
- `$ echo $PATH`
- `$ curl http://android.git.kernel.org/repo >~/bin/repo`
- `$ chmod a+x ~/bin/repo`
- `$ mkdir eclair`
- `$ cd eclair`
- `$ repo init -u git://android.git.kernel.org/platform/manifest.git -b eclair`
- `$ repo sync`

Mango100 소스 받기

- <http://crztech.ipstime.org> 에서 최신 소스를 다운 받으시면 됩니다.

Mango 100 Source And Image

- SD booting Image (uboot, kernel, gnome, android)

- 1) [sdboot_2010_06_04](#)
- 2) [sdboot_2010_06_16](#)
- 3) [sdboot_2010_06_22](#)
- 4) [sdboot_2010_06_22\(4GB Image\)](#)
- 5) [sdboot_2010_06_30\(4GB Image\)](#)
- 6) [sdboot_2010_07_15\(4GB Image\)](#)

- Windows CE (v6.0)

- 1) [Mango100-Wince \(v6.0\)](#)

- U-boot (v1.3.4)

- 1) [mango100_uboot_2010_06_04](#)
- 2) [mango100_uboot_2010_06_29](#)

- Linux Kernel (v2.6.29)

- 1) [mango100_kernel_2010_06_04](#)
- 2) [mango100_kernel_2010_06_11](#)
- 3) [mango100_kernel_2010_06_16](#)
- 4) [mango100_kernel_2010_06_22](#)
- 5) [mango100_kernel_2010_06_30](#)
- 6) [mango100_kernel_2010_07_15](#)

- Android (Eclair, v2.1)

- 1) [mango100_eclair_2010_06_04](#)
- 2) [mango100_eclair_2010_06_11](#)
- 3) [mango100_eclair_2010_06_22](#)
- 4) [mango100_eclair_2010_06_30](#)
- 5) [mango100_eclair_2010_07_15](#)

Android Patch 및 build 방법

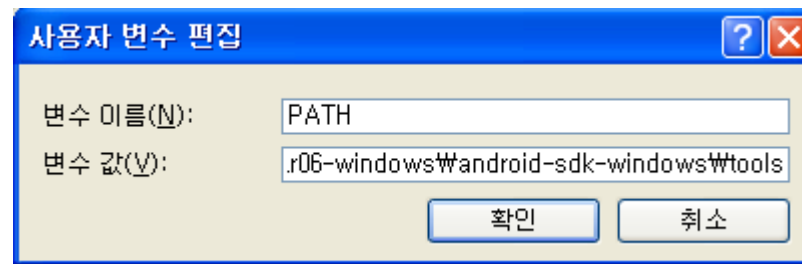
- `./frameworks/base/api/current.xml`은 `make update-api` 실행으로 생성 됨
- `./frameworks/base/api/current.xml` 복구 방법은 `./frameworks/base/api/7.xml`을 copy를 해서 `current.xml`을 만든 후 `make update-api`를 실행
- `#make update-api`
- `#./mango100_build.sh`

Android SDK 설치

- <http://developer.android.com/sdk/index.html>

- PAT


Platform	Package	Size	MD5 Checksum
Windows	android-sdk_r06-windows.zip	23293160 bytes	7c7fcec3c6b5c7c3df6ae654b27effb5
Mac OS X (intel)	android-sdk_r06-mac_86.zip	19108077 bytes	c92abf66a82c7a3f2b8493ebe025dd22
Linux (i386)	android-sdk_r06-linux_86.tgz	16971139 bytes	848371e4bf068dbb582b709f4e56d903



Android SDK 설치

- JDK 설치 (Window 용)

Download Information and Files

 **Get the latest Java Runtime Environment to use Sun Download Manager**


Internet Explorer Users: Check the top of this page for a "Java(TM) Web Start ActiveX Control" message in the information bar. If it appears, click it to finish detecting your Java version.

We were unable to detect a recent version of Java Runtime Environment (JRE) on your system. With the latest JRE, you can automatically download, install, and run Sun Download Manager (SDM) directly from this page. We highly recommend SDM to easily manage your downloads (pause, resume, restart, verify, and more). Visit java.com for the latest JRE.

There is more information on the available files for download on the [Supported System Configurations](#) page.

Instructions: Click the file name to start the download.

Your download should start automatically.
If not, click the file link below.

File Description and Name	Size
Java SE Development Kit 6u21  jdk-6u21-windows-i586.exe	75.91 MB

Android SDK 설치

- Eclipse 다운로드 설치
- Eclipse 3.4또는 3.5 Download

Eclipse downloads - mirror selection

All downloads are provided under the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.

Download eclipse-SDK-3.5-win32.zip **from:**

- 적당한  [\[Korea, Republic Of\] Amazon AWS \(http\)](#)
Checksums: [\[MD5\]](#) [\[SHA1\]](#)
...or pick a mirror site below.

Android SDK 설치

Eclipse 3.5 (Galileo)

1. Start Eclipse, then select **Help > Install New Software**.
2. In the Available Software dialog, click **Add...**
3. In the Add Site dialog that appears, enter a name for the remote site (for example, "Android Plugin") in the "Name" field.

In the "Location" field, enter this URL:

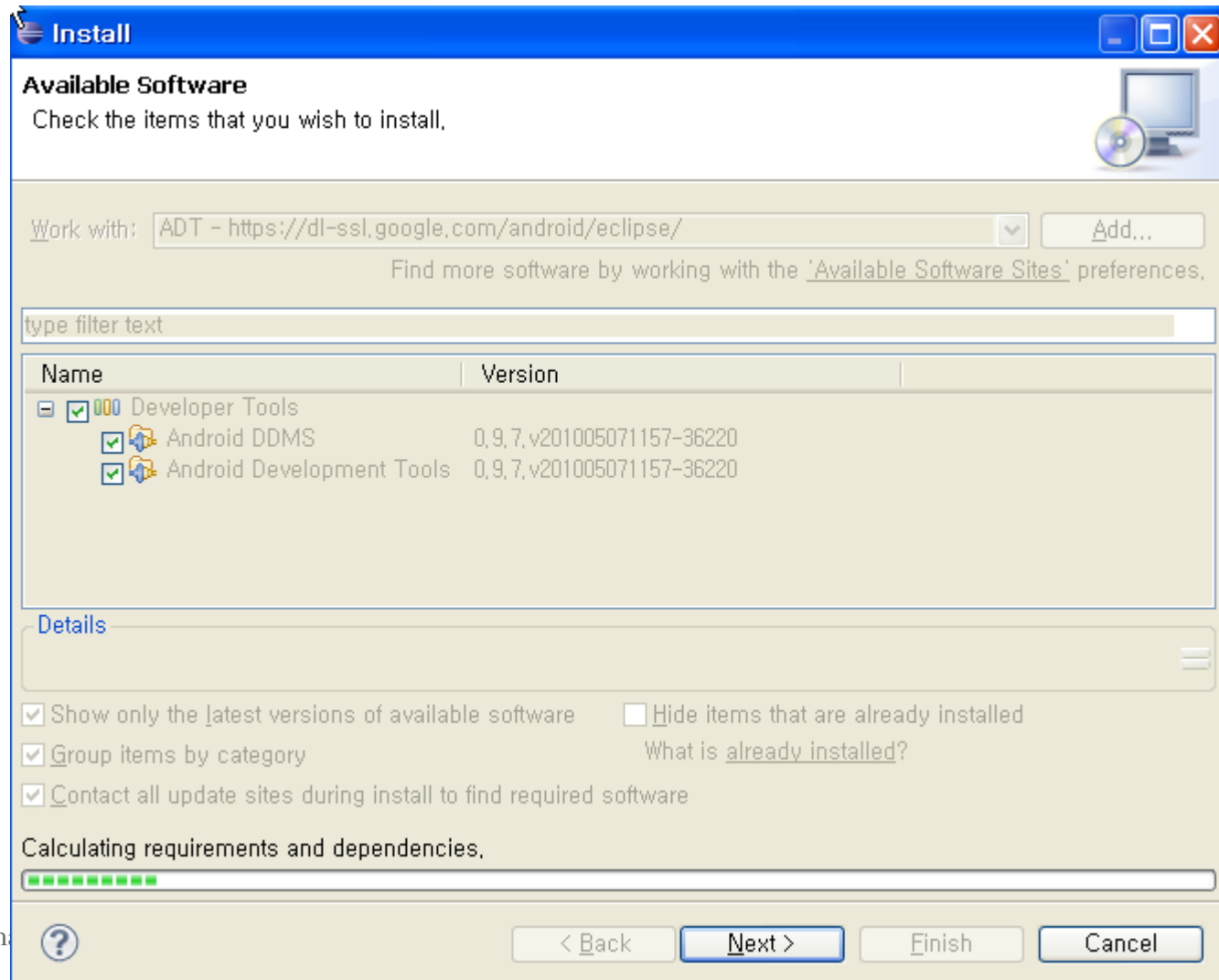
```
https://dl-ssl.google.com/android/eclipse/
```

Note: If you have trouble acquiring the plugin, you can try using "http" in the URL, instead of "https" (https is preferred for security reasons).

Click **OK**.

4. Back in the Available Software view, you should now see "Developer Tools" added to the list. Select the checkbox next to Developer Tools, which will automatically select the nested tools Android DDMS and Android Development Tools. Click **Next**.
5. In the resulting Install Details dialog, the Android DDMS and Android Development Tools features are listed. Click **Next** to read and accept the license agreement and install any dependencies, then click **Finish**.
6. Restart Eclipse.

Android SDK 설치



Configuring the ADT Plugin

- <http://developer.android.com/sdk/eclipse-adt.html>

Configuring the ADT Plugin

Once you've successfully downloaded ADT as described above, the next step is to modify your ADT preferences in Eclipse to point to the Android SDK directory:

1. Select **Window** > **Preferences...** to open the Preferences panel (Mac OS X: **Eclipse** > **Preferences**).
2. Select **Android** from the left panel.
3. For the *SDK Location* in the main panel, click **Browse...** and locate your downloaded SDK directory.
4. Click **Apply**, then **OK**.

Updating the ADT Plugin

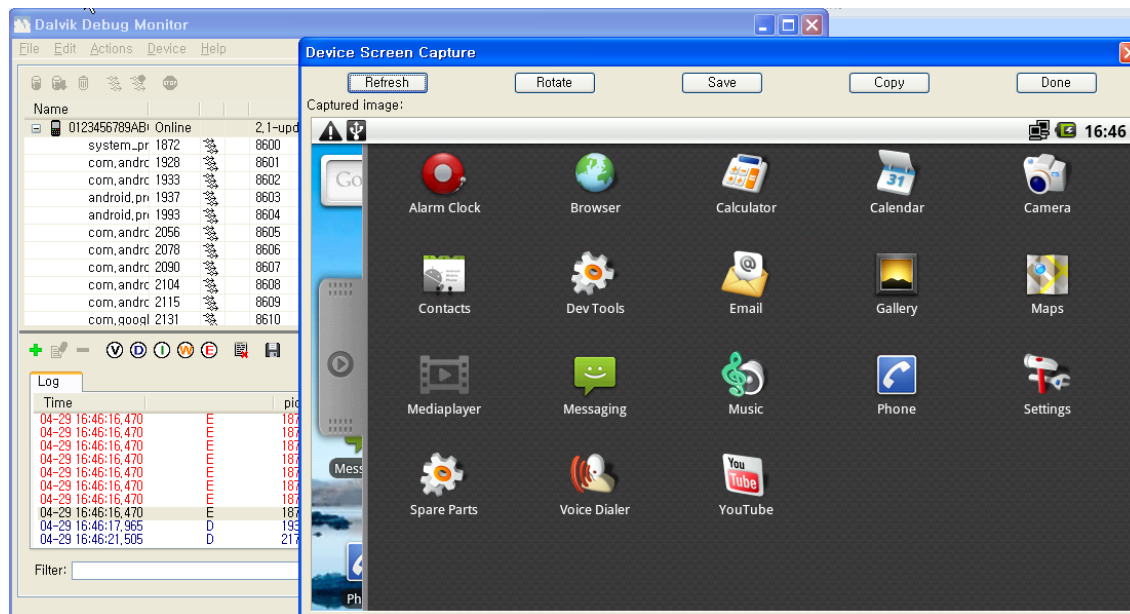
- <http://developer.android.com/sdk/eclipse-adt.html>

Eclipse 3.5 (Galileo)

1. Select **Help > Check for Updates**.
2. In the resulting Available Updates dialog, locate the Android DDMS and Android Development Tools features in the list and ensure that the checkboxes next to them are selected. Click **Next**.
If the Available Updates dialog does not list Android DDMS and Android Development tools, make sure that you have set up a remote update site for them, as described in [Installing the ADT Plugin](#).
3. In the Update Details dialog, click **Next**.
4. Read and accept the license agreement and then click **Finish**. This will download and install the latest version of Android DDMS and Android Development Tools.
5. Restart Eclipse.

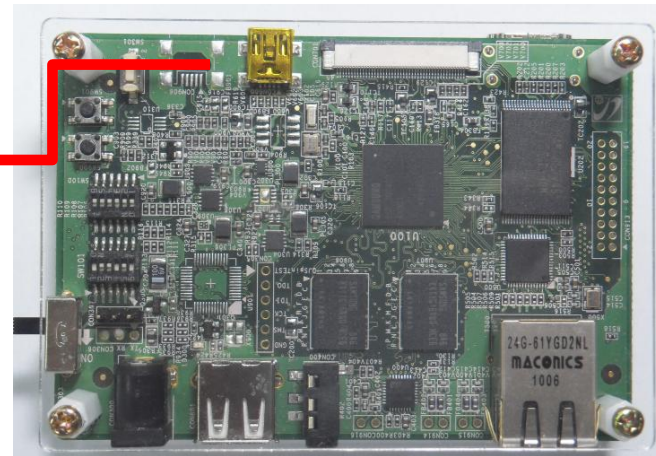
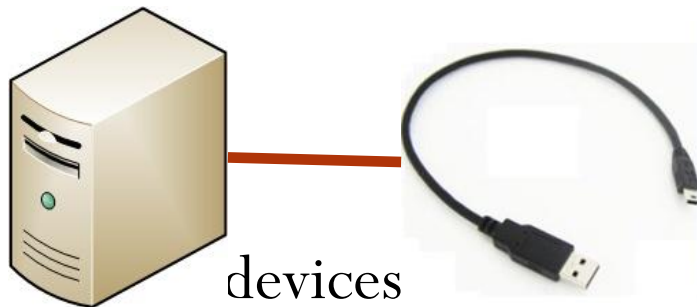
DDMS사용하기

- E:\Utils-tools\android-sdk_r06-windows\android-sdk-windows\tools>ddms.bat



ADB 연결하기

- PC와 망고보드를 usb cable로 연결



```
Y:\work\busybox-work>adb devices
* daemon not running. starting it now *
* daemon started successfully *
List of devices attached
0123456789ABCDEF device
```

Busybox install

- >adb push busybox /
- >adb shell
- >ls

```
Y:#work#busybox-work>adb push busybox /
3024 KB/s (0 bytes in 1838856.000s)

Y:#work#busybox-work>adb shell
# ls
ls
data
d
default.prop
dev
init.rc
etc
proc
config
sbin
sdcard
init.goldfish.rc
init
init.mango100.rc
busybox
```

Busybox install

- # mkdir bin
- # chmod 777 busybox
- # ./busybox --install
- # cd bin
- # ./vi ../init.rc 수정

```
export PATH /bin:/sbin:/system/sbin:/system/bin:/system/sbin  
Service console /bin/sh
```

- /bin/sh 또는 리부팅