PORT FOR SAMSUNG GALAXY S II

Abstract. This document describes the steps to port B2G to Samsung Galaxy S II. It is a condensed version of the online documents at https://developer.mozilla.org/en/Mozilla/Boot to Gecko

This document is for the GT-i9100 variant. A workaround for the GT-i9100G variant is also mentioned.

1. Put your phone in Development Mode

Under Settings > Applications > Development, turn on USB debugging. Then, plug it in.

2. Create a local copy of the Original Android OS

```
mkdir sgs2-android
cd sgs2-android
adb pull /system system
adb pull /system/vendor vendor
```

3. Build & Flash the Kernel

cd B2G make sync

Wait for all of the above to finish. Then:

export ANDROIDFS_DIR=sgs2-android

make config-galaxy-s2

or for ICS

make config-galaxy-s2-ics

make kernel

adb reboot download

#reboot phone in download mode.

heimdall flash --kernel boot/kernel-android-galaxy-s2/arch/arm/boot/zImage

or for ICS

heimdall flash --kernel boot/kernel-android-galaxy-s2-ics/arch/arm/boot/zImage If you see an error from libusb: -3, then:

```
sudo heimdall flash --kernel boot/kernel-android-galaxy-s2/arch/arm/boot/zImage
# or for ICS
sudo heimdall flash --kernel boot/kernel-android-galaxy-s2-ics/arch/arm/boot/zImage
```

4. Back up the original android system on the phone

adb reboot recovery

5. Building and Flashing B2G

make gonk

make flash

#device should be connected

Alternatively, do steps separately:

 ${\tt make}$

adb reboot download make flash-only

(Make adb point to the one output by gonk)

```
6. UPDATE GAIA ALONE (IF REQD)
```

```
cd gaia
git pull origin master
cd ...
make install-gaia
7. UPDATE GECKO ALONE (IF REQD)
make install-gecko
make kill-b2g
```

8. Workaround for GT-19100G

Checkout the source code from the repo located in git@github.com:changyihsin/B2G.git and switch to branch GS2-I9100G-hacked-01. Then following below procedure to build the firmware. It is based on gingerbread version. The basic function should be worked fine with this repo. You can play music/video and wifi, but we still have problems running phone app.

Build procedure:

```
make config-galaxy-s2-i9100g
make kernel
make gonk
make
heimdall flash --kernel ./boot/kernel-android-galaxy-s2-i9100g/arch/arm/boot/zImage
make flash-only
make install-gaia
```

Reference: https://github.com/andreasgal/B2G/issues/215