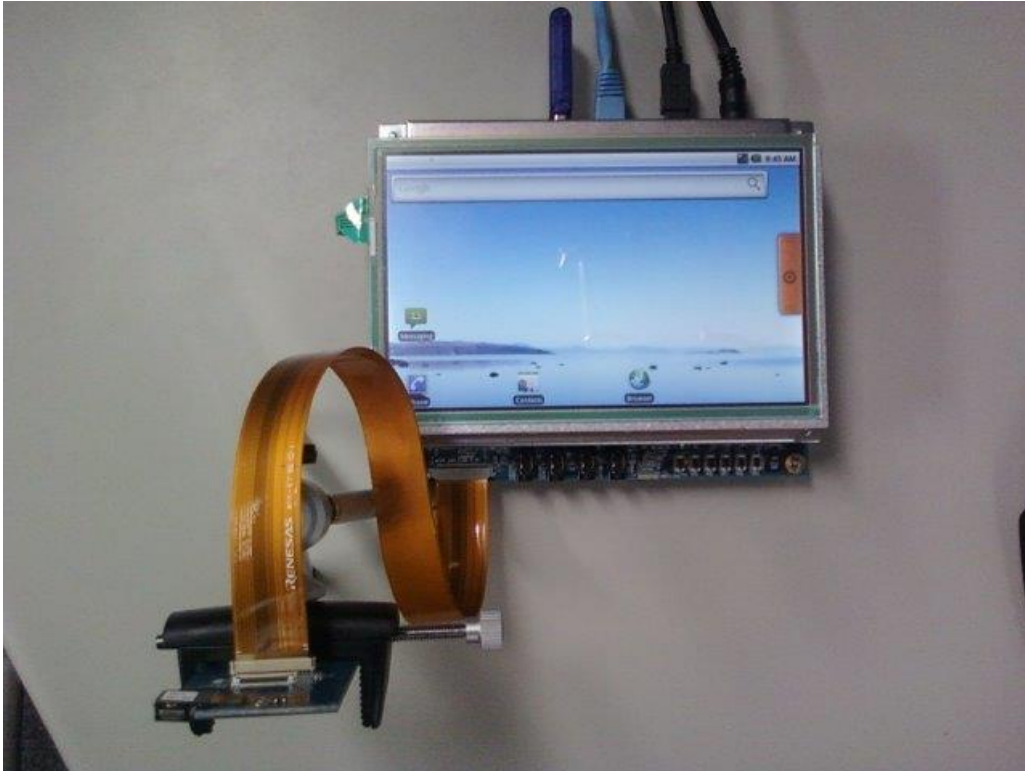# HOWTO Prepare MS7724 Android Demo

Introduction

This page describes how to prepare the Android Demo for the MS7724 board using a bootable USB thumb drive. The Android kernel boot image and userland are prebuilt and available at SH7724 Android BSP. If you want to rebuild the Android kernel or userland, please refer How To Build Android.

Prerequisites

Although the steps below will satisfy some of the prerequisites listed here, they are provided to ensure that you have a complete understanding of this process. This HOWTO was developed using the following components:

```
* Linux desktop system (Ubuntu 9.10)
* USB thumb drive (2GB)
* SD card (1GB)
* MS7724 Development Board
* Wide-VGA LCD extension board
* HD(720p) camera module extension board
* MS7724 Android BSP
```

Setup

Step 1: Obtain the latest BSP

Please refer to HOWTO Build a Bootable USB Thumbdrive from a New BSP Step 1.

Step 2: Preparing USB thumb drive

Please refer to HOWTO Build a Bootable USB Thumbdrive from a New BSP Step2.

Step 3: Copy Android Linux kernel to USB thumb drive

Copy the Android Linux kernel to the first partition of the USB thumb drive. For example,

```
$ tar xjf (somewhere)/kernel/bin/android-kernel-bin-20100426.tar.bz2
$ sudo mount -t vfat /dev/sdh1/ /mnt/usbdisk/
$ sudo cp (somewhere)/kernel/bin/zImage_usbboot /mnt/usbdisk/zImage
$ sync
$ sudo umount /mnt/usbdisk/
```

Step 4: Unpack Android userland to USB thumb drive

Copy the Android root file system to the second partition of the USB thumb drive. For example,

```
$ sudo mount -t ext3 /dev/sdh2/ /mnt/usbdisk/
$ sudo tar xjfC (somewhere)/userland/bin/android-userland-bin-20100426.tar.bz2 /mnt/usbdisk/
$ sync
$ sudo umount /mnt/usbdisk/
```

Step 5: Copy media content to SD card