Change History

Changes between document issues are cumulative. The latest document issue contains all the changes made in earlier issues.

Issue 01 (2018-03-11)

The first version.
Contents

Change History

Contents ................................................................. ii

1 Compiling the image ........................................... 1
  1.1 Download the code of Hikey970 on GitHub ............................. 1
  1.2 Prepare tools and files ................................................. 1
    1.2.1 Create a tools folder ............................................ 1
    1.2.2 Copy ramdisk.img and mkbootimg to the tools Directory ......... 1
    1.2.3 Modify the compilation script .................................. 1
  1.3 Compile ................................................................. 2
    1.3.1 Run build_kernel.sh ......................................... 2

2 Loading the image ............................................... 3
  2.1 Entering the FastBoot mode ........................................ 3
  2.2 Load the boot image ................................................ 3
1 Compiling the image

1.1 Download the code of Hikey970 on GitHub

Git command:
```
$ git clone https://github.com/96boards-hikey/linux.git
```

Note: after the code is downloaded, switch to the hikey970 branch (Branch Name: origin/hikey970-v4.9).

1.2 Prepare tools and files

1.2.1 Create a tools folder

Create a “tools” folder in the same level directory of the “linux” directory.
```
./linux/arch
./linux/mm
./linux/kernel
...
./tools/
```

1.2.2 Copy ramdisk.img and mkbootimg to the tools Directory

Copy the compiled ramdisk.img and mkbootimg into the tools directory.

1.2.3 Modify the compilation script

Move the build_kernel.sh compilation script to the tools folder; Edit the compile script CROSS_COMPILE parameters to specify the compiler tool according to your own compilation environment, For example:
```
export CROSS_COMPILE=/home/xxxxxx/hikey970/prebuilts/gcc/linux-x86/aarch64/aarch64-linux-android-4.9/bin/aarch64-linux-android-
```
1.3 Compile

1.3.1 Run build_kernel.sh

Execute "/build_kernel.sh" in the tools directory to compile the image. After the compilation is completed, the boot.img can be generated under “out/target/product/hikey970”.
2 Loading the image

2.1 Entering the FastBoot mode

Input in ADB mode: adb reboot bootloader or dial the back of the code switch 3 (EXT_BOOT) to ON, and press the RESET key to restart.

2.2 Load the boot image

Input in Fastboot mode: fastboot flash boot + "boot image path" starts to load the image, and then input “fastboot reboot” to normal start.