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Hikey970编译

2018年4月2日 16:08

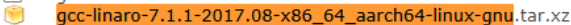
```
=====
Bootloader
=====
```

```
//
// env setup
//
sudo apt-get install uuid-dev build-essential
```

```
mkdir bootloader
cd bootloader
```

```
//
// download bootloader source code
//
git clone https://github.com/96boards-hikey/tools-images-hikey970.git
git clone https://github.com/96boards-hikey/OpenPlatformPkg.git -b hikey970_v1.0
git clone https://github.com/96boards-hikey/arm-trusted-firmware.git -b hikey970_v1.0
git clone https://github.com/96boards-hikey/l-loader.git -b hikey970_v1.0
git clone https://github.com/96boards-hikey/edk2.git -b hikey970_v1.0
git clone https://github.com/96boards-hikey/uefi-tools.git -b hikey970_v1.0
```

```
cd edk2
ln -sf ../OpenPlatformPkg
```

```
//
// download bootloader cross compile toolchain and extract it
//
http://releases.linaro.org/components/toolchain/binaries/7.1-2017.08/aarch64-linux-gnu/

```

```
//
// set bootloader cross compile
//
vim ${BUILD_PATH}/l-loader/build_ufi.sh
```

```
diff --git a/build_ufi.sh b/build_ufi.sh
index 3c4e37e..5392feb 100755
--- a/build_ufi.sh
+++ b/build_ufi.sh
@@ -43,7 +43,7 @@ case "${SELECT_GCC}" in
    CROSS_COMPILE=aarch64-linux-gnu-
    ;;
    "LINARO_GCC_7_1")
+   AARCH64_GCC_7_1=/opt/toolchain/gcc-linaro-7.1.1-2017.08-x86_64_aarch64-linux-gnu/bin/
+   AARCH64_GCC_7_1=/home/bruce/vm_disk_d/arm_cc/gcc-linaro-7.1.1-2017.08-x86_64_aarch64-linux-gnu/bin/
    PATH=${AARCH64_GCC_7_1}:${PATH} && export PATH
    export AARCH64_TOOLCHAIN=GCC5
    CROSS_COMPILE=aarch64-linux-gnu-
```

```
//
// build
//
l-loader/build_ufi.sh hikey970
```

```
//
// bootloader binary
//
l-loader/ptable-aosp-32g.img
l-loader/fip.bin
l-loader/l-loader.bin
```

```
=====
kernel
=====
mkdir kernel
cd kernel
git clone https://github.com/96boards-hikey/linux.git -b hikey970-v4.9
```

```
//
// set CROSS_COMPILE to AOSP prebuilts/gcc/linux-x86/aarch64/aarch64-linux-android-4.9/bin/aarch64-linux-android-
//
#!/bin/bash
export ARCH=arm64
export CROSS_COMPILE=/home/bruce/vm_disk_d/arm_cc/aosp-4.9/bin/aarch64-linux-android-
make hikey970_defconfig
```

```
make -j4
make hisilicon/kirin970-hikey970.dtb
cp -a arch/arm64/boot/Image .
cp -a arch/arm64/boot/dts/hisilicon/kirin970-hikey970.dtb .
```

```
=====
AOSP
=====
```

```
// source
https://github.com/96boards-hikey/android-manifest
```

```
mkdir aosp
cd aosp
```

```
repo init -u https://android.googlesource.com/platform/manifest -b master
git clone https://github.com/96boards-hikey/android-manifest.git -b hikey970_v1.0 .repo/local_manifests
repo sync
```

special operation for current hikey970 AOSP branch, extract hikey970.rar to device/linaro/hikey/installer/hikey970

```
source ./build/envsetup.sh
choosecombo
Build type: release
Product: hikey970
Variant choices: userdebug
```

```
make -j16
```

```
=====
Gen boot.img
=====
```

Put Image, kirin970-hikey970.dtb, ramdisk.img in a directory

1. Copy Image and kirin970-hikey970.dtb from kernel directory
2. copy ramdisk.img from android out/
3. do command list below gen boot.img

```
cat Image kirin970-hikey970.dtb > Image-dtb
```

```
./mkbootimg --kernel Image-dtb --ramdisk ramdisk.img --cmdline "androidboot.hardware=hikey970 firmware_class.path=/system/etc/firmware loglevel=15 buildvariant=userdebug
androidboot.selinux=permissive clk_ignore_unused=true initrd=0xBE19D000,0x16677F earlycon=pl011,0xffff32000,115200 console=tty AMA6 androidboot.serialno=54DA9CD5022525E4
clk_ignore_unused=true" -o boot.img
```

```
=====
download
=====
```

```
fastboot flash ptable l-loader/ptable-aosp-32g.img
```

```
fastboot flash xloader tools-images-hikey970/sec_xloader.img
```

```
fastboot flash fastboot l-loader/l-loader.bin
```

```
fastboot flash fip l-loader/fip.bin
```

```
fastboot flash boot boot.img
```

```
fastboot flash cache cache.img
```

```
fastboot flash system system.img
```

```
fastboot flash userdata userdata.img
```

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