

IDO-Purple Pi OH RK3566-V1 Linux4.19开发手册

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IDO-Purple Pi OH RK3566-V1
Linux4.19开发手册

文档修订历史

版本	PCBA版本	修订内容	修订	审核	日期
V1.0	V1B	创建文档	TWX	IDO	2022/04/14
V1.1	V1B	增加IO Domain Checklist说明	TWX	IDO	2023/04/15
V1.2	V1B	修改固件烧录参考文档名称为"Purple-Pi-OH Android/Linux固件及烧录手册"	TWX	IDO	2023/05/15
V1.3	V1B	增加内核config和dts的路径说明	TWX	IDO	2023/07/11
V1.4	V1B	增加解压SDK不要使用sudo提示	TWX	IDO	2023/07/21
V1.5	V1B	文档优化	LZR	IDO	2024/07/30

1 SDK下载

1.1 源码下载

以下地址下载Purple Pi OH的Linux SDK：

链接：<https://pan.baidu.com/s/1cGk7rsKbP8EuFpmAo-A9-g?pwd=1234>

提取码：1234

1.2 源码解压

由于SDK打包后体积较大，在上传到百度云盘前把SDK包按照4GB大小分割了，因此下载后需要合并：

```
Bash |
1 cat Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.a* > Purple-Pi-0H_Linux4.19_SDK.tar.gz
```

结果如下图所示：

```
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$ ls
Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz      Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.ab
Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.aa  Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.ac
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$ cat Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.a* > Purple-Pi-0H_Linux4.19_SDK.tar.gz
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$ ls
Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz      Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.ab  Purple-Pi-0H_Linux4.19_SDK.tar.gz
Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.aa  Industio-Purple-Pi-0H_Linux4.19_230410.tar.gz.ac
```

合并后，进行解压，（注意不要使用sudo编译，否则会导致编译失败），命令如下：

```
Bash |
1 tar -zxvf Purple-Pi-0H_Linux4.19_SDK.tar.gz
```

结果如下图所示：

```

industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410$ tar -zxvf Purple-Pi-0H_Linux4.19_SDK.tar.gz
./Purple-Pi-0H-sdk/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_Hardware_Design_Guide_V1.3_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_I0_电源域配置指南_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_EVB2.0_User_Guide_V1.0_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_EVB2.0_User_Guide_V1.0_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_Hardware_Design_Guide_V1.0_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_I0_List_V1.0_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Hardware/Rockchip_RK3288_Core_Power_SMT_Notice_V1.0_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Introduction_I0_Power_Domains_Configuration_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Quick-start/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Quick-start/Rockchip_RK3288_Quick_Start_Linux_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Quick-start/Rockchip_RK3288_Quick_Start_Linux_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux_SDK_Release_V2.6.0_20220620_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux_SDK_Note.md
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux4.19_SDK_Release_V1.2.0_20220620_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux4.19_SDK_Release_V1.2.0_20220620_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux4.19_SDK_Note.md
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Rockchip_RK3288_Linux_SDK_Release_V2.6.0_20220620_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Datasheet/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3288/Datasheet/Rockchip_RK3288_Datasheet_V2.7-20191227.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3328/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3328/Rockchip_RK3328_User_Manual_EVB_V1.0_20170223_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3328/Rockchip_RK3328_Linux_Release_Note.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3328/Rockchip_RK3328_Linux_SDK_Release_V1.0.0_20181102_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_User_Manual_EVB_V1.0_20181226_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Instructions_Linux_MediaServer_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_I0_LIST_V10_for_EVB_20181121.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Developer_Guide_Linux_Docker_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Instruction_Linux_AI_Camera_Demo_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Instruction_Linux_QFacialGate_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Hardware_Design_Guide_V10_20190116_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Linux_SDK_Release_V1.1.0_20190808_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Linux_SDK_Release_Note.txt
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Hardware_Design_Guide_V10_20190116_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Instructions_Linux_MediaServer_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Developer_Guide_Linux_FacialGate_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_Developer_Guide_Linux_RKNN_DEMO_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Linux_SDK_Release_V1.1.0_20190808_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_Developer_Guide_Linux_Compute_Stick_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_Developer_Guide_Linux_RKNN_Demo_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_Datasheet_V1.0_20181024.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_Instruction_Rkfacial_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_Instruction_Linux_QFacialGate_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK1808/Rockchip_RK1808_User_Manual_EVB_V1.0_20181226_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/PX3SE/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/PX3SE/Rockchip_PX3SE_Linux_SDK_Release_Note_EN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/PX3SE/Rockchip_PX3SE_Linux_SDK_Release_V0.0.3_20180817_CN.pdf
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3588/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3588/Hardware/
./Purple-Pi-0H-sdk/rk356x_linux_sdk/docs/.Socs/RK3588/Hardware/Rockchip_RK3588S_Hardware_Design_Guide_V1.0.pdf

```

2 安装SDK编译依赖环境

建议使用Ubuntu 22.04版本系统编译SDK。在编译前需执行以下命令安装依赖环境，命令如下：

```

▼ Bash
1  sudo apt-get install repo git ssh make gcc libssl-dev liblz4-tool \
2  expect g++ patchelf chrpath gawk texinfo chrpath diffstat binfmt-support \
3  qemu-user-static live-build bison flex fakeroot cmake \
4  unzip device-tree-compiler python3-pip libncurses-dev expect

```

安装SDK编译环依赖环境，如下图所示：

```
industio@Ubuntu22:~/RK3566/Industio-Purple-Pi-0H-Linux4.19.230410/Purple-Pi-0H-sdk/rk356x_linux_sdk$ sudo apt-get install repo git ssh make gcc libssl-dev liblz4-tool \
> expect g++ patchelf chrpath gawk texinfo chrpath diffstat binfmt-support \
> qemu-user-static live-build bison flex fakeroot cmake \
> unzip device-tree-compiler python3-pip libncurses-dev expect
正在读取软件包列表... 完成
正在分析软件包的依赖关系树... 完成
正在读取状态信息... 完成
binfmt-support 已经是最新版 (2.2.1-2)。
bison 已经是最新版 (2:3.8.2+dfsg-1build1)。
device-tree-compiler 已经是最新版 (1.6.1-1)。
diffstat 已经是最新版 (1.64-1build2)。
fakeroot 已经是最新版 (1.28-1ubuntu1)。
flex 已经是最新版 (2.6.4-8build2)。
g++ 已经是最新版 (4:11.2.0-1ubuntu1)。
gcc 已经是最新版 (4:11.2.0-1ubuntu1)。
make 已经是最新版 (4.3-4.1build1)。
chrpath 已经是最新版 (0.16-2)。
expect 已经是最新版 (5.45.4-2build1)。
liblz4-tool 已经是最新版 (1.9.3-2build2)。
patchelf 已经是最新版 (0.14.3-1)。
texinfo 已经是最新版 (6.8-4build1)。
cmake 已经是最新版 (3.22.1-1ubuntu1.22.04.2)。
gawk 已经是最新版 (1:5.1.0-1ubuntu0.1)。
git 已经是最新版 (1:2.34.1-1ubuntu1.10)。
libncurses-dev 已经是最新版 (6.3-2ubuntu0.1)。
libssl-dev 已经是最新版 (3.0.2-0ubuntu1.15)。
live-build 已经是最新版 (3.0-a57-1ubuntu41.22.04.1)。
ssh 已经是最新版 (1:8.9p1-3ubuntu0.7)。
unzip 已经是最新版 (6.0-26ubuntu3.2)。
python3-pip 已经是最新版 (22.0.2+dfsg-1ubuntu0.4)。
qemu-user-static 已经是最新版 (1:6.2+dfsg-2ubuntu6.19)。
下列软件包是自动安装的并且现在不需要了：
  apturl-common gir1.2-goa-1.0 gir1.2-snapd-1 hplip-data libasound2-dev libblkid-dev libcaca-dev libffi-dev libgl-dev libgl2.0-dev-bin libglu1-mesa-dev libglx-dev libhpmud0
  libimagequant0 libmount-dev libpcre16-3 libpcre2-16-0 libpcre2-dev libpcre2-posix3 libpcre3-dev libpcre32-3 libpcrecpp0v5 libpng-dev libpng-tools libraqm0 libsane-hpaio
  libstd1.2debian libselinux1-dev libsepol-dev libselang2-dev libxext-dev lto-disabled-list printer-driver-hpcups printer-driver-postscript-hp python-pkg-resources python-setuptools
  python3-defaults python3-debconf python3-olefile python3-renderpm python3-reportlab-accel python3-software-properties sgml-base software-properties-common
  ubuntu-advantage-desktop-daemon unattended-upgrades update-notifier-common uuid-dev xml-core
使用'sudo apt autoremove'来卸载它(它们)。
下列【新】软件包将被安装：
  repo
升级了 0 个软件包，新安装了 1 个软件包，要卸载 0 个软件包，有 4 个软件包未被升级。
需要下载 0 B/118 kB 的归档。
解压后会消耗 371 kB 的额外空间。
您希望继续执行吗？ [Y/n] Y
正在选中未选择的软件包 repo。
(正在读取数据库 ... 系统当前共安装有 259177 个文件和目录。)
准备解压 repo (2.17.3-3) ...
正在解压 repo (2.17.3-3) ...
正在设置 repo (2.17.3-3) ...
正在处理用于 man-db (2.10.2-1) 的触发器 ...
```

3 SDK编译

3.1 配置选择

根据显示（HDMI，MIPI）和系统（Debian，Ubuntu）的不同，提供了4种配置选择，命令如下：

```
1 //进入sdk目录
2 # cd Purple-Pi-0H-sdk/rk356x_linux_sdk
3
4 //选择配置
5 # ./build.sh lunch
6 processing board option: lunch
7 processing option: lunch
8
9 You're building on Linux
10 Lunch menu...pick a combo:
11
12 0. default BoardConfig.mk
13 1. BoardConfig-rk3566-Purple-Pi-0H-hdmi-debian.mk
14 2. BoardConfig-rk3566-Purple-Pi-0H-hdmi-ubuntu.mk
15 3. BoardConfig-rk3566-Purple-Pi-0H-mipi-debian.mk
16 4. BoardConfig-rk3566-Purple-Pi-0H-mipi-ubuntu.mk
```

配置选择如下图所示：

```
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk$ cd rk356x_linux_sdk/
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk/rk356x_linux_sdk$
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk/rk356x_linux_sdk$ ./build.sh lunch
processing option: lunch
You're building on Linux
Lunch menu...pick a combo:
0. default BoardConfig.mk
1. BoardConfig-rk3566-Purple-Pi-0H-hdmi-debian.mk
2. BoardConfig-rk3566-Purple-Pi-0H-hdmi-ubuntu.mk
3. BoardConfig-rk3566-Purple-Pi-0H-mipi-debian.mk
4. BoardConfig-rk3566-Purple-Pi-0H-mipi-ubuntu.mk
which would you like? [0]: 3
switching to board: /home/industio/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk/rk356x_linux_sdk/device/rockchip/rk356x/BoardConfig-rk3566-Purple-Pi-0H-mipi-debian.mk
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk/rk356x_linux_sdk$
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-0H_Linux4.19_230410/Purple-Pi-0H-sdk/rk356x_linux_sdk$
```

3.2 开始编译

3.2.1 完整编译

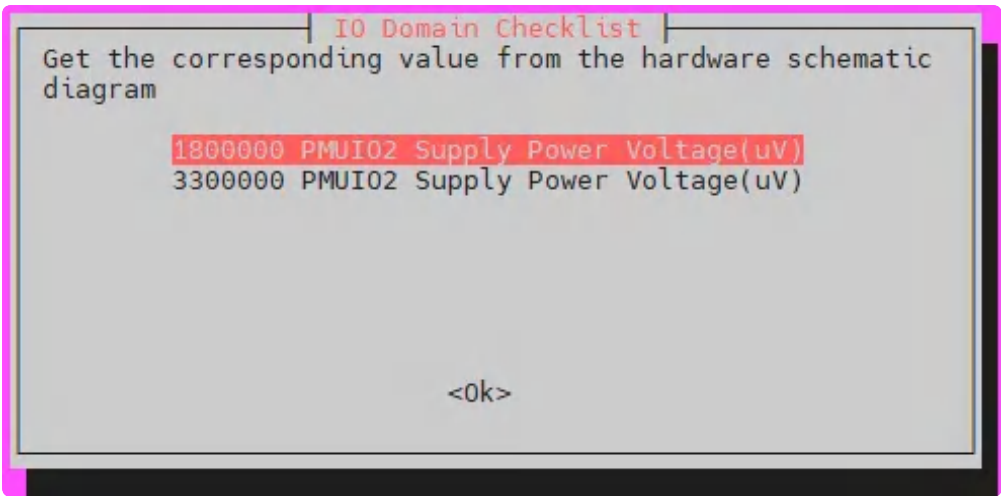
首次编译请在sdk顶层目录执行build.sh（注意不要使用sudo编译，否则会导致编译失败），命令如下：

▼

Bash

```
1 # ./build.sh
```

首次编译过程中，会弹出IO Domain Checklist窗口，如下图所示：



按照以下表格进行选择：

名称	电压
PMUIO2	3300000
VCCIO1	3300000
VCCIO3	3300000

VCCIO4	1800000
VCCIO5	1800000
VCCIO6	3300000
VCCIO7	3300000

编译完成，将在rockdev/目录生成完整升级固件update.img，如下图所示：

```
Make firmware OK!
----- OK -----
*****rkImageMaker ver 2.0*****
Generating new image, please wait...
Writing head info...
Writing boot file...
Writing firmware...
Generating MDS data...
MDS data generated successfully!
New image generated successfully!
Making ./Image/update.img OK.
Running build updateimg succeeded.
Running build save succeeded.
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
grep: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts: exceeded PCR
E's backtracking limit
PLEASE CHECK BOARD GPIO POWER DURATION!!!!
*** [SPI]ALL W. F. /Flash/Eraset is power down ***!!!!
check Mode (can't be missing) in the file: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/kernel/arch/arm64/boot/dts/rockchip/ido-pi-oh3566-v1-dsi0-mipi.dump.dts
编译完成，将在rockdev/目录生成完整升级固件update.img
Running build_allsave succeeded.
```

3.2.2 编译uboot/kernel

调试时，可单独编译uboot或kernel部分，命令如下：

Bash

```
1 //编译uboot
2 # ./build.sh uboot
3
4 //编译kernel
5 # ./build.sh kernel
```

编译uboot结果如下图所示：

```
*****boot_merger ver 1.2*****
Info:Pack loader ok.
pack loader okay! Input: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/rkbin/RK800T/RK3566MINIALL.ini
/home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/u-boot
Image(no-signed, version=0): uboot.img (FIT with uboot, trust...) is ready
Image(no-signed): rk356x_spl_loader_v1.15.112.bin (with spl, ddr, usbplug) is ready
pack uboot.img okay! Input: /home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/rkbin/RKTRUST/RK3568TRUST.ini
Platform RK3568 is build OK, with new config(make rk3568_defconfig rk3566.config -j14)
/home/industio/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk/prebuilts/gcc/linux-x86/aarch64/gcc-arm-10.3-2021.07-x86_64-aarch64-none-linux-gnu/bin/aarch64-none-linux-gnu-
Wed May 15 18:13:30 CST 2024
Running build_uboot succeeded.
industio@ubuntu22:~/RK3566/Industio-Purple-Pi-OH_Linux4.19_230410/Purple-Pi-OH-sdk/rk356x_linux_sdk$
```

编译kernel结果如下图所示：

```
请再次确认板级的电源键配置！！！！！！！
*** 特别是Wi-Fi、FLASH、以太网这几路IO电源的配置 *** ！！！！！！
检查内核文件 /home/industrial/RK3566/Industrial-Purple-PI-0H_linux4.10_230410/Purple-PI-0H_sdk/rk3566_linux_sdk/kernel/
u_to_domevts)
Running build kernel succeeded.
```

编译完成后，将在rockdev/目录生成对应的uboot.img、boot.img。