

## 1. 编译 uboot

lichee/brandy/brandy-2.0\$ `./build.sh -p sun50iw10p1` (常用方式)

## 2. 编译Kernel

```
1 liury@compile:~/SDK/A133_Q_v2.1/longan$ ./build.sh config
2
3 Welcome to mkscript setup progress
4 All available platform:
5 0. android
6 1. linux
7 Choice [android]: 0
8 All available ic:
9 0. a133
10 Choice [a133]: 0
11 All available board:
12 0. b1
13 1. b3
14 2. c3
15 3. c4
16 4. fpga
17 5. perf1
18 6. perf2
19 7. perf3
20 8. qa
21 9. ver
22 Choice [c3]: 2
```

编译分支选用c3

## 3. 编译Android

```
1 liury@compile:~/SDK/A133_Q_v2.1/android$ source build/envsetup.s
h
```

```
2 including device/softwinner/common/vendorsetup.sh
3 longan project path: /home/liury/SDK/A133_Q_v2.1/longan
4 liury@compile:~/SDK/A133_Q_v2.1/android$ lunch
5
6 You're building on Linux
7
8 Lunch menu... pick a combo:
9 1. aosp_arm-eng
10 2. aosp_arm64-eng
11 3. aosp_blueline-userdebug
12 4. aosp_bonito-userdebug
13 5. aosp_car_arm-userdebug
14 6. aosp_car_arm64-userdebug
15 7. aosp_car_x86-userdebug
16 8. aosp_car_x86_64-userdebug
17 9. aosp_cf_arm64_phone-userdebug
18 10. aosp_cf_x86_64_phone-userdebug
19 11. aosp_cf_x86_auto-userdebug
20 12. aosp_cf_x86_phone-userdebug
21 13. aosp_cf_x86_tv-userdebug
22 14. aosp_crosshatch-userdebug
23 15. aosp_marlin-userdebug
24 16. aosp_sailfish-userdebug
25 17. aosp_sargo-userdebug
26 18. aosp_taimen-userdebug
27 19. aosp_walleye-userdebug
28 20. aosp_walleye_test-userdebug
29 21. aosp_x86-eng
30 22. aosp_x86_64-eng
31 23. beagle_x15-userdebug
32 24. ceres_b1-eng
33 25. ceres_b1-user
34 26. ceres_b1-userdebug
35 27. ceres_b3-eng
36 28. ceres_b3-user
```

```
37 29. ceres_b3-userdebug
38 30. ceres_c3-eng
39 31. ceres_c3-user
40 32. ceres_c3-userdebug
41 33. ceres_c4-eng
42 34. ceres_c4-user
43 35. ceres_c4-userdebug
44 36. ceres_perf1-user
45 37. ceres_perf1-userdebug
46 38. ceres_perf2-user
47 39. ceres_perf2-userdebug
48 40. ceres_qa-user
49 41. ceres_qa-userdebug
50 42. ceres_verify-user
51 43. ceres_verify-userdebug
52 44. fuchsia_arm64-eng
53 45. fuchsia_x86_64-eng
54 46. hikey-userdebug
55 47. hikey64_only-userdebug
56 48. hikey960-userdebug
57 49. hikey960_tv-userdebug
58 50. hikey_tv-userdebug
59 51. m_e_arm-userdebug
60 52. mini_emulator_arm64-userdebug
61 53. mini_emulator_x86-userdebug
62 54. mini_emulator_x86_64-userdebug
63 55. poplar-eng
64 56. poplar-user
65 57. poplar-userdebug
66 58. qemu_trusty_arm64-userdebug
67 59. uml-userdebug
68
69 Which would you like? [aosp_arm-eng] 30
70
71 =====
```

```
72 PLATFORM_VERSION_CODENAME=REL
73 PLATFORM_VERSION=10
74 TARGET_PRODUCT=ceres_c3
75 TARGET_BUILD_VARIANT=eng
76 TARGET_BUILD_TYPE=release
77 TARGET_ARCH=arm
78 TARGET_ARCH_VARIANT=armv7-a-neon
79 TARGET_CPU_VARIANT=cortex-a7
80 HOST_ARCH=x86_64
81 HOST_2ND_ARCH=x86
82 HOST_OS=linux
83 HOST_OS_EXTRA=Linux-4.15.0-117-generic-x86_64-Ubuntu-18.04.4-LTS
84 HOST_CROSS_OS=windows
85 HOST_CROSS_ARCH=x86
86 HOST_CROSS_2ND_ARCH=x86_64
87 HOST_BUILD_TYPE=release
88 BUILD_ID=QP1A.191105.004
89 OUT_DIR=out
90 =====
91 liury@compile:~/SDK/A133_Q_v2.1/android$ extract-bsp
92 Copy /home/liury/SDK/A133_Q_v2.1/longan/out/a133/c3/android/bImage to
   /home/liury/SDK/A133_Q_v2.1/android/device/softwinner/ceres-c3/kernel
93 Copy /home/liury/SDK/A133_Q_v2.1/longan/out/a133/c3/android/dtbo.img to /home/liury/SDK/A133_Q_v2.1/android/device/softwinner/ceres-c3/dtbo.img
94 Copy
   /home/liury/SDK/A133_Q_v2.1/longan/out/a133/c3/android/lib/modules
   /* to /home/liury/SDK/A133_Q_v2.1/android/device/softwinner/ceres-c3/modules!
95 Copy /home/liury/SDK/A133_Q_v2.1/longan/out/a133/c3/android/sunxi.dtb to /home/liury/SDK/A133_Q_v2.1/android/device/softwinner/ceres-c3/sunxi.dtb
96 liury@compile:~/SDK/A133_Q_v2.1/android$ make -j32
```

4. 打包，编译完成之后直接输入 `pack` 打包即可。（如果需要安全固件，输入 `pack -v`，第一次 `pack -v`，需要获取密钥，可在 `longan/build` 目录下，执行 `createkeys` 脚本，然后重新 `pack -v` 即可打包成功）