

DDR 306b9977f5 wesley.yao 23/12/21-09:28:37,fwver: v1.15
S5P1
4x
fc27
rgef0
rgef1
DDRConf1
DDR2, BW=16 Col=10 Bk=4 CS0 Row=13 CS=1 Size=64MB
528MHz
DDR bin out

U-Boot SPL board init
U-Boot SPL 2017.09 (Mar 13 2025 - 20:51:45)
Trying to boot from MMC2
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
mmc_init: -110, time 298
spl: mmc init failed with error: -110
Trying to boot from MTD1
ENVF: Primary 0x00000000 - 0x00040000
No misc partition
Trying fit image at 0x400 sector
Verified-boot: 0
Checking uboot 0x00200000 (lzma @0x00400000) ... sha256(8e89d78e28...)
+ sha256(1cbf26d878...) + OK
Checking fdt 0x00260998 ... sha256(9f596c5683...) + OK
Total: 629.367/712.166 ms

Jumping to U-Boot(0x00200000)

U-Boot 2017.09 (Mar 13 2025 - 20:51:45 +0800)

Model: Rockchip RV1106 EVB Board
MPIDR: 0xf00
PreSerial: 2, raw, 0xff4c0000
DRAM: 64 MiB
System: init
Relocation Offset: 03d81000
Relocation fdt: 02dfa778 - 02dfede0
CR: M/C/I
Using default environment

Bootdev(atags): mtd 1
ENVF: Primary 0x00000000 - 0x00040000
PartType: ENV
DM: v2
No misc partition
boot mode: None
RESC: 'boot', blk@0x00001f74
resource: sha256+
FIT: no signed, no conf required

```
DTB: rk-kernel.dtb
HASH(c): OK
Model: Luckfox Pico Plus
## retrieving sd_update.txt ...
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
mmc_init: -110, time 62
CLK: (uboot. arm: enter 816000 KHz, init 816000 KHz, kernel ON/A)
  apll 816000 KHz
  dpll 528000 KHz
  gpll 1188000 KHz
  cpll 1000000 KHz
  aclk_peri_root 400000 KHz
  hclk_peri_root 200000 KHz
  pclk_peri_root 100000 KHz
  aclk_bus_root 300000 KHz
  pclk_top_root 100000 KHz
  pclk_pmu_root 100000 KHz
  hclk_pmu_root 200000 KHz
Net:   eth0: ethernet@ffa80000
Hit key to stop autoboot('CTRL+C'):  0
## Booting FIT Image at 0x290af40 with size 0x002ee800
Fdt Ramdisk skip relocation
No misc partition
## Loading kernel from FIT Image at 0290af40 ...
  Using 'conf' configuration
## Verified-boot: 0
  Trying 'kernel' kernel subimage
    Description:  unavailable
    Type:         Kernel Image
    Compression:  uncompressed
    Data Start:   0x02914540
    Data Size:    3035536 Bytes = 2.9 MiB
    Architecture: ARM
    OS:           Linux
    Load Address: 0x00008000
    Entry Point:   0x00008000
    Hash algo:     sha256
    Hash value:
d4acd67e9de6477ad1e990225b9e2b7f2772030bcd5aeb4d26cc9b4ac6edbb45
  Verifying Hash Integrity ... sha256+ OK
## Loading fdt from FIT Image at 0290af40 ...
  Using 'conf' configuration
  Trying 'fdt' fdt subimage
    Description:  unavailable
    Type:         Flat Device Tree
    Compression:  uncompressed
    Data Start:   0x0290b740
    Data Size:    36070 Bytes = 35.2 KiB
    Architecture: ARM
    Load Address: 0x00c00000
    Hash algo:     sha256
```

Hash value:
97edb1f3e43fbefbfe49e0590ad1a9d26e0d1c739bfd858f5812422f407ac462
Verifying Hash Integrity ... sha256+ OK
Loading fdt from 0x0290af40 to 0x00c00000
Booting using the fdt blob at 0x00c00000
Loading Kernel Image from 0x02914540 to 0x00008000 ... OK
kernel loaded at 0x00008000, end = 0x002ed190
Using Device Tree in place at 00c00000, end 00c0bce5
Adding bank: 0x00000000 - 0x04000000 (size: 0x04000000)
Total: 843.224/1560.491 ms

Starting kernel ...

```
[    0.000000] Booting Linux on physical CPU 0x0
[    0.000000] Linux version 5.10.160 (cro@DESKTOP-RUM06US) (arm-
rockchip830-linux-uclibcgnueabi-hf-gcc (crosstool-NG 1.24.0) 8.3.0, GNU ld
(crosstool-NG 1.24.0) 2.32) #7 Thu Mar 13 10:19:16 CST 2025
[    0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7),
cr=50c53c7d
[    0.000000] CPU: div instructions available: patching division code
[    0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[    0.000000] OF: fdt: Machine model: Luckfox Pico Plus
[    0.000000] Memory policy: Data cache writeback
[    0.000000] cma: Reserved 24576 KiB at 0x02800000
[    0.000000] Zone ranges:
[    0.000000]   Normal   [mem 0x0000000000000000-0x0000000003ffffff]
[    0.000000] Movable zone start for each node
[    0.000000] Early memory node ranges
[    0.000000]   node    0: [mem 0x0000000000000000-0x0000000003ffffff]
[    0.000000] Initmem setup node 0 [mem 0x0000000000000000-
0x0000000003ffffff]
[    0.000000] CPU: All CPU(s) started in SVC mode.
[    0.000000] Built 1 zonelists, mobility grouping on.  Total pages:
16256
[    0.000000] Kernel command line: user_debug=31 storagemedia=mtd
androidboot.storagemedia=mtd androidboot.mode=normal rootwait
earlycon=uart8250,mmio32,0xff4c0000 console=ttyFIQ0 root=ubi0:rootfs
snd_soc_core.prealloc_buffer_size_kbytes=16 coherent_pool=0 mtdparts=spi-
nand0:256K(env),256K@256K(idblock),512K(uboot),4M(boot),30M(oem),6M(userd
ata),85M(rootfs) ubi.mtd=6 rootfstype=ubifs rk_dma_heap_cma=24M
androidboot.fwver=uboot-03/13/2025
[    0.000000] Dentry cache hash table entries: 8192 (order: 3, 32768
bytes, linear)
[    0.000000] Inode-cache hash table entries: 4096 (order: 2, 16384
bytes, linear)
[    0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
[    0.000000] Memory: 33624K/65536K available (3793K kernel code, 379K
rwd data, 1816K rodata, 196K init, 138K bss, 7336K reserved, 24576K cma-
reserved)
[    0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[    0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irq: 16
[    0.000000] arch_timer: cp15 timer(s) running at 24.00MHz (phys).
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[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffffff
max_cycles: 0x588fe9dc0, max_idle_ns: 440795202592 ns
[ 0.000006] sched_clock: 56 bits at 24MHz, resolution 41ns, wraps
every 4398046511097ns
[ 0.000019] Switching to timer-based delay loop, resolution 41ns
[ 0.000516] Console: colour dummy device 80x30
[ 0.000564] Calibrating delay loop (skipped), value calculated using
timer frequency.. 48.00 BogoMIPS (lpj=240000)
[ 0.000581] pid_max: default: 4096 minimum: 301
[ 0.000768] Mount-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.000784] Mountpoint-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.001442] CPU: Testing write buffer coherency: ok
[ 0.002131] Setting up static identity map for 0x81c0 - 0x81f8
[ 0.002629] devtmpfs: initialized
[ 0.009645] VFP support v0.3: implementor 41 architecture 2 part 30
variant 7 rev 5
[ 0.009901] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 19112604462750000 ns
[ 0.009925] futex hash table entries: 16 (order: -5, 192 bytes,
linear)
[ 0.010014] pinctrl core: initialized pinctrl subsystem
[ 0.011273] NET: Registered protocol family 16
[ 0.011748] DMA: failed to allocate 0 KiB pool for atomic coherent
allocation
[ 0.012340] Registered FIQ tty driver
[ 0.012688] thermal_sys: Registered thermal governor 'step_wise'
[ 0.012695] thermal_sys: Registered thermal governor 'user_space'
[ 0.012946] cpuidle: using governor menu
[ 0.026836] rockchip-gpio ff380000.gpio: probed /pinctrl/gpio@ff380000
[ 0.027677] rockchip-gpio ff530000.gpio: probed /pinctrl/gpio@ff530000
[ 0.028485] rockchip-gpio ff550000.gpio: probed /pinctrl/gpio@ff550000
[ 0.029173] rockchip-gpio ff560000.gpio: probed /pinctrl/gpio@ff560000
[ 0.029276] rockchip-pinctrl pinctrl: probed pinctrl
[ 0.039215] fiq_debugger fiq_debugger.0: IRQ uart_irq not found
[ 0.039240] fiq_debugger fiq_debugger.0: IRQ wakeup not found
[ 0.039535] printk: console [ttyFIQ0] enabled
[ 0.039757] Registered fiq debugger ttyFIQ0
[ 0.041929] SCSI subsystem initialized
[ 0.042173] usbcore: registered new interface driver usbfs
[ 0.042226] usbcore: registered new interface driver hub
[ 0.042282] usbcore: registered new device driver usb
[ 0.042542] mc: Linux media interface: v0.10
[ 0.042587] videodev: Linux video capture interface: v2.00
[ 0.043804] Advanced Linux Sound Architecture Driver Initialized.
[ 0.044632] rockchip-cpuinfo cpuinfo: SoC : 11031000
[ 0.044657] rockchip-cpuinfo cpuinfo: Serial :
4elfc7b3eaaf084c
[ 0.045081] rockchip,rknpwr-powergood ff000000.syscon:rknpwr-
powergood: probe success!
[ 0.045943] clocksource: Switched to clocksource arch_sys_counter
[ 0.052692] NET: Registered protocol family 2

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[ 0.052945] IP idents hash table entries: 2048 (order: 2, 16384 bytes,
linear)
[ 0.053385] tcp_listen_portaddr_hash hash table entries: 512 (order:
0, 4096 bytes, linear)
[ 0.053421] TCP established hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.053439] TCP bind hash table entries: 1024 (order: 0, 4096 bytes,
linear)
[ 0.053457] TCP: Hash tables configured (established 1024 bind 1024)
[ 0.053560] UDP hash table entries: 256 (order: 0, 4096 bytes, linear)
[ 0.053585] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes,
linear)
[ 0.053725] NET: Registered protocol family 1
[ 0.054387] RPC: Registered named UNIX socket transport module.
[ 0.054415] RPC: Registered udp transport module.
[ 0.054422] RPC: Registered tcp transport module.
[ 0.054428] RPC: Registered tcp NFSv4.1 backchannel transport module.
[ 0.055512] rockchip-thermal ff3c8000.tsadc: tsadc is probed
successfully!
[ 0.056705] Initialise system trusted keyrings
[ 0.057069] workingset: timestamp_bits=30 max_order=14 bucket_order=0
[ 0.060840] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 0.061678] NFS: Registering the id_resolver key type
[ 0.061751] Key type id_resolver registered
[ 0.061760] Key type id_legacy registered
[ 0.061807] jffs2: version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
[ 0.062321] Key type asymmetric registered
[ 0.062344] Asymmetric key parser 'x509' registered
[ 0.062371] io scheduler mq-deadline registered
[ 0.062807] rockchip-usb2phy ff3e0000.usb2-phy: IRQ index 0 not found
[ 0.067808] dma-pl330 ff420000.dma-controller: Loaded driver for PL330
DMAC-241330
[ 0.067847] dma-pl330 ff420000.dma-controller:          DBUFF-128x8bytes
Num_Chans-8 Num_Peri-32 Num_Events-16
[ 0.068709] rockchip-pvtm ff240000.pvtm: pvtm@0 probed
Seeding 256 bits and crediting
[ 0.068908] rockchip-pvtm ff390000.pvtm: pvtm@0 probed
Saving 256 bits of creditable seed for next boot
[ 0.069232] rockchip-system-monitor rockchip-system-monitor: system
monitor probe
Starting syslogd: OK
[ 0.069803] Serial: 8250/16550 driver, 6 ports, IRQ sharing disabled
Starting klogd: [ 0.075651] random: crng init done
OK
[ 0.084740] brd: module loaded
[ 0.090790] loop: module loaded
[ 0.093080] spi-nand spi2.0: Winbond SPI NAND was found.
[ 0.093108] spi-nand spi2.0: 128 MiB, block size: 128 KiB, page size:
2048, OOB size: 64
[ 0.094343] 7 cmdlinepart partitions found on MTD device spi-nand0
Running sysctl: [ 0.094362] Creating 7 MTD partitions on "spi-nand0":
[ 0.094378] 0x000000000000-0x0000000040000 : "env"
[ 0.096355] 0x0000000040000-0x0000000080000 : "idblock"
[ 0.098233] 0x0000000080000-0x0000000100000 : "uboot"

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[ 0.100174] 0x000000100000-0x000000500000 : "boot"
[ 0.102001] 0x000000500000-0x000002300000 : "oem"
[ 0.104013] 0x000002300000-0x000002900000 : "userdata"
[ 0.106027] 0x000002900000-0x000007e00000 : "rootfs"
[ 0.109448] rk_gmac-dwmac ffa80000.ethernet: IRQ eth_lpi not found
[ 0.109647] rk_gmac-dwmac ffa80000.ethernet: PTP uses main clock
OK
[ 0.109700] rk_gmac-dwmac ffa80000.ethernet: no regulator found
Populating /dev using udev: [ 0.109714] rk_gmac-dwmac
ffa80000.ethernet: clock input or output? (input).
[ 0.109724] rk_gmac-dwmac ffa80000.ethernet: Can not read property:
tx_delay.
[ 0.109733] rk_gmac-dwmac ffa80000.ethernet: set tx_delay to
0xffffffff
[ 0.109743] rk_gmac-dwmac ffa80000.ethernet: Can not read property:
rx_delay.
[ 0.109751] rk_gmac-dwmac ffa80000.ethernet: set rx_delay to
0xffffffff
[ 0.109832] rk_gmac-dwmac ffa80000.ethernet: integrated PHY? (yes).
[ 0.109849] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_rx
[ 0.109862] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_tx
[ 0.109895] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
clk_mac_speed
[ 0.109905] rk_gmac-dwmac ffa80000.ethernet: clock input from PHY
[ 0.110139] rk_gmac-dwmac ffa80000.ethernet: init for RMI
[ 0.110382] rk_gmac-dwmac ffa80000.ethernet: User ID: 0x30, Synopsys
ID: 0x51
[ 0.110405] rk_gmac-dwmac ffa80000.ethernet: DWMAC4/5
[ 0.110418] rk_gmac-dwmac ffa80000.ethernet: DMA HW capability
register supported
[ 0.110427] rk_gmac-dwmac ffa80000.ethernet: RX Checksum Offload
Engine supported
[ 0.110435] rk_gmac-dwmac ffa80000.ethernet: TX Checksum insertion
supported
[ 0.110444] rk_gmac-dwmac ffa80000.ethernet: Wake-Up On Lan supported
[ 0.110451] rk_gmac-dwmac ffa80000.ethernet: TSO supported
[ 0.110459] rk_gmac-dwmac ffa80000.ethernet: Enable RX Mitigation via
HW Watchdog Timer
[ 0.110469] rk_gmac-dwmac ffa80000.ethernet: TSO feature enabled
[ 0.110482] rk_gmac-dwmac ffa80000.ethernet: Using 40 bits DMA width
[ 0.118180] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 0.118546] usbcore: registered new interface driver usb-storage
[ 0.118747] gadgetfs: USB Gadget filesystem, version 24 Aug 2004
[ 0.118800] Mass Storage Function, version: 2009/09/11
[ 0.118818] LUN: removable file: (no medium)
[ 0.118847] no file given for LUN0
[ 0.118883] udc ffb00000.usb: failed to start g_mass_storage: -22
[ 0.119434] i2c /dev entries driver
[ 0.121048] i2c i2c-4: 1 i2c clients have been registered at 0x30
[ 0.121458] i2c i2c-4: 2 i2c clients have been registered at 0x30
[ 0.122491] usbcore: registered new interface driver uvcvideo
[ 0.122510] USB Video Class driver (1.1.1)

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[    0.123274] cpu cpu0: leakage=18
[    0.124050] cpu cpu0: avs=0
[    0.124218] cpu cpu0: opp calibration done
[    0.124378] cpu cpu0: l=10000 h=2147483647 hyst=5000 l_limit=0
h_limit=0 h_table=0
[    0.124869] Synopsys Designware Multimedia Card Interface Driver
[    0.125791] dtbocfg: 0.1.0
[    0.125844] dtbocfg: OK
[    0.127435] dwmmc_rockchip ffaa0000.mmc: No normal pinctrl state
[    0.127469] dwmmc_rockchip ffaa0000.mmc: No idle pinctrl state
[    0.127719] dwmmc_rockchip ffaa0000.mmc: IDMAC supports 32-bit address
mode.
[    0.127773] dwmmc_rockchip ffaa0000.mmc: Using internal DMA
controller.
[    0.127792] dwmmc_rockchip ffaa0000.mmc: Version ID is 270a
[    0.127840] dwmmc_rockchip ffaa0000.mmc: DW MMC controller at irq
50,32 bit host data width,256 deep fifo
[    0.129573] rv1106-acodec ff480000.acodec: current soc_id: rv1103
[    0.129686] rv1106-acodec ff480000.acodec: Use pa_ctl_gpio and
pa_ctl_delay_ms: 0
[    0.131515] NET: Registered protocol family 17
[    0.131629] Key type dns_resolver registered
[    0.132650] Loading compiled-in X.509 certificates
[    0.149347] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000HZ div = 0)
[    0.160990] input: adc-keys as /devices/platform/adc-keys/input/input0
[    0.192229] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000HZ div = 0)
[    0.192385] mmc1: new high speed SDHC card at address b368
[    0.193373] mmcblk1: mmc1:b368      14.9 GiB
[    0.210705] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000HZ div = 0)
[    0.238210] ubi0: attaching mtd6
[    0.259088] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000HZ div = 0)
[    0.259578] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.259975] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.260377] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.260775] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.261165] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.261550] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.261947] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.262330] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[    0.262348] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
[    0.262402] mmcblk1: unable to read partition table

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[ 0.410427] ubi0: scanning is finished
[ 0.415179] ubi0: attached mtd6 (name "rootfs", size 85 MiB)
[ 0.415208] ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
[ 0.415218] ubi0: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
[ 0.415226] ubi0: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 0.415235] ubi0: good PEBs: 680, bad PEBs: 0, corrupted PEBs: 0
[ 0.415244] ubi0: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 0.415254] ubi0: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 1876574052
[ 0.415265] ubi0: available PEBs: 0, total reserved PEBs: 680, PEBs
reserved for bad PEB handling: 20
[ 0.416531] ALSA device list:
[ 0.416554] #0: rv-acodec
[ 0.417293] ubi0: background thread "ubi_bgt0d" started, PID 57
[ 0.417395] UBIFS (ubi0:0): Mounting in unauthenticated mode
[ 0.433902] UBIFS (ubi0:0): recovery needed
[ 0.458203] UBIFS (ubi0:0): recovery deferred
[ 0.458339] UBIFS (ubi0:0): UBIFS: mounted UBI device 0, volume 0,
name "rootfs", R/O mode
[ 0.458355] UBIFS (ubi0:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 0.458369] UBIFS (ubi0:0): FS size: 81899520 bytes (78 MiB, 645
LEBs), journal size 9023488 bytes (8 MiB, 72 LEBs)
[ 0.458379] UBIFS (ubi0:0): reserved for root: 0 bytes (0 KiB)
[ 0.458392] UBIFS (ubi0:0): media format: w4/r0 (latest is w5/r0),
UUID 26AD6950-D70C-4D0F-86B8-A8311CC31DDD, small LPT model
[ 0.458824] VFS: Mounted root (ubifs filesystem) readonly on device
0:14.
[ 0.459646] devtmpfs: mounted
[ 0.459869] Freeing unused kernel memory: 196K
[ 0.459879] Kernel memory protection not selected by kernel config.
[ 0.459908] Run /sbin/init as init process
[ 0.466925] process '/bin/busybox' started with executable stack
[ 0.524775] UBIFS (ubi0:0): completing deferred recovery
[ 0.584825] UBIFS (ubi0:0): background thread "ubifs_bgt0_0" started,
PID 60
[ 0.590355] UBIFS (ubi0:0): deferred recovery completed
[ 0.822763] udevd[90]: starting version 3.2.7
[ 0.839875] udevd[90]: specified group 'input' unknown
[ 0.840870] udevd[90]: specified group 'kvm' unknown
[ 0.864306] udevd[91]: starting eudev-3.2.7
[ 1.267163] udevd[101]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd0ro': No such file or directory
[ 1.277357] udevd[102]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtdlro': No such file or directory
[ 1.283349] blk_update_request: I/O error, dev mmcblk1, sector
31274880 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
[ 1.283909] blk_update_request: I/O error, dev mmcblk1, sector
31274881 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
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[ 1.292822] udevd[103]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd2ro': No such file or directory
[ 1.293741] Buffer I/O error on dev mmcblk1, logical block 3909360,
async page read
[ 1.303586] udevd[105]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd3ro': No such file or directory
[ 1.315116] udevd[106]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd4ro': No such file or directory
[ 1.324028] udevd[107]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd5ro': No such file or directory
[ 1.335549] udevd[108]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd6ro': No such file or directory
[ 1.349977] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
[ 1.373297] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
done
/etc/init.d/S20linkmount info: mount point path [IGNORE] not found,
skip...
*****/dev/ubi4_0 not exist*****
*****/dev/ubi4 not exist*****
[ 1.774251] ubi4: attaching mtd4
[ 1.835598] ubi4: scanning is finished
[ 1.844243] ubi4: attached mtd4 (name "oem", size 30 MiB)
[ 1.844274] ubi4: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
UBI device number 4, total 240 LEBs (30474240 bytes, 29.1 MiB), available
0 LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)
[ 1.844285] ubi4: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
try to make volume: /dev/ubi4_0 ...
[ 1.844293] ubi4: VID header offset: 2048 (aligned 2048), data offset:
4096
ubimkvol: error!: bad volume size: "0"
[ 1.844302] ubi4: good PEBs: 240, bad PEBs: 0, corrupted PEBs: 0
[ 1.844312] ubi4: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 1.844322] ubi4: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 945929064
[ 1.844333] ubi4: available PEBs: 0, total reserved PEBs: 240, PEBs
reserved for bad PEB handling: 20
[ 1.845604] ubi4: background thread "ubi_bgt4d" started, PID 129
[ 1.873011] UBIFS (ubi4:0): Mounting in unauthenticated mode
[ 1.873281] UBIFS (ubi4:0): background thread "ubifs_bgt4_0" started,
PID 134
[ 1.890543] UBIFS (ubi4:0): recovery needed
[ 1.964557] UBIFS (ubi4:0): recovery completed
[ 1.964685] UBIFS (ubi4:0): UBIFS: mounted UBI device 4, volume 0,
name "oem"
[ 1.964702] UBIFS (ubi4:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 1.964715] UBIFS (ubi4:0): FS size: 26157056 bytes (24 MiB, 206
LEBs), journal size 4190208 bytes (3 MiB, 33 LEBs)
[ 1.964724] UBIFS (ubi4:0): reserved for root: 0 bytes (0 KiB)
```

```

[    1.964738] UBIFS (ubi4:0): media format: w4/r0 (latest is w5/r0),
UUID 8FC2EA09-D438-4216-AF2A-FF831D373CD3, small LPT model
*****/dev/ubi5_0 not exist*****
[    2.005334] ubi5: attaching mtd5
*****/dev/ubi5 not exist*****
[    2.018268] ubi5: scanning is finished
[    2.026788] ubi5: attached mtd5 (name "userdata", size 6 MiB)
UBI device number 5, total 48 LEBs (6094848 bytes, 5.8 MiB), available 0
LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)
[    2.026814] ubi5: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
try to make volume: /dev/ubi5_0 ...
[    2.026824] ubi5: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
ubimkvol: error!: bad volume size: "0"
[    2.026834] ubi5: VID header offset: 2048 (aligned 2048), data offset:
4096
[    2.026842] ubi5: good PEBs: 48, bad PEBs: 0, corrupted PEBs: 0
[    2.026852] ubi5: user volume: 1, internal volumes: 1, max. volumes
count: 128
[    2.026862] ubi5: max/mean erase counter: 2/1, WL threshold: 4096,
image sequence number: 12643680
[    2.026872] ubi5: available PEBs: 0, total reserved PEBs: 48, PEBs
reserved for bad PEB handling: 20
[    2.029064] ubi5: background thread "ubi_bgt5d" started, PID 143
[    2.049971] UBIFS (ubi5:0): Mounting in unauthenticated mode
[    2.050237] UBIFS (ubi5:0): background thread "ubifs_bgt5_0" started,
PID 148
[    2.067278] UBIFS (ubi5:0): recovery needed
Initializing random number generator... [    2.107024] UBIFS (ubi5:0):
recovery completed
[    2.107166] UBIFS (ubi5:0): UBIFS: mounted UBI device 5, volume 0,
name "userdata"
done.
[    2.107182] UBIFS (ubi5:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[    2.107197] UBIFS (ubi5:0): FS size: 1777664 bytes (1 MiB, 14 LEBs),
journal size 1142785 bytes (1 MiB, 9 LEBs)
[    2.107208] UBIFS (ubi5:0): reserved for root: 0 bytes (0 KiB)
[    2.107222] UBIFS (ubi5:0): media format: w4/r0 (latest is w5/r0),
UUID 202FDC30-DB3B-4471-AE13-FE1BED340D24, small LPT model
/dev/ubi5_0 on /userdata type ubifs (rw,relatime,assert=read-
only,ubi=5,vol=0)
Starting network: [    2.243979] rk_dvbm ffa70000.rkdvbm: probe start
[    2.244031] rk_dvbm ffa70000.rkdvbm: dvbm ctx 8cefc716
[    2.244522] rk_dvbm ffa70000.rkdvbm: probe success
[    2.263782] sc3336 4-0030: driver version: 00.01.01
[    2.263875] sc3336 4-0030: Failed to get reset-gpios
[    2.263935] sc3336 4-0030: could not get default pinstat
[    2.263947] sc3336 4-0030: could not get sleep pinstat
[    2.263978] sc3336 4-0030: supply avdd not found, using dummy
regulator
[    2.264239] sc3336 4-0030: supply dovdd not found, using dummy
regulator

```

OK

```
[ 2.264329] sc3336 4-0030: supply dvdd not found, using dummy
regulator
[ 2.282129] sc3336 4-0030: Unexpected sensor id(000000), ret(-5)
Starting ntpd: [ 2.352803] rkcihw ffa10000.rkcif: no iommu attached,
using non-iommu buffers
[ 2.352844] rkcihw ffa10000.rkcif: No reserved memory region assign
to CIF
[ 2.353282] rkci rkci-mipi-lvds: rkci driver version: v00.02.00
[ 2.353409] rkci rkci-mipi-lvds: attach to cif hw node
[ 2.353425] rkci rkci-mipi-lvds: failed to get dphy hw node
[ 2.353437] rkci rkci-mipi-lvds: rkci wait line 0
[ 2.353447] rkci rkci-mipi-lvds: rkci fastboot reserve bufs num 3
[ 2.353464] : terminal subdev does not exist
[ 2.353476] : terminal subdev does not exist
[ 2.353484] : terminal subdev does not exist
[ 2.353492] : terminal subdev does not exist
[ 2.353504] : get_remote_sensor: video pad[0] is null
[ 2.353513] : rkci_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.353525] : rkci_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.353534] : get_remote_sensor: video pad[0] is null
[ 2.353542] : rkci_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.353551] : rkci_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.353560] : get_remote_sensor: video pad[0] is null
[ 2.353567] : rkci_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.353575] : rkci_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.353584] : get_remote_sensor: video pad[0] is null
[ 2.353591] : rkci_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.353600] : rkci_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.369067] rkci rkci-mipi-lvds: No memory-region-thunderboot
specified
[ 2.370361] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.370590] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.370747] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.370881] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.371367] rockchip-mipi-csi2 mipi0-csi2: attach to csi2 hw node
[ 2.371443] rkci rkci-mipi-lvds: Entity type for entity rockchip-
mipi-csi2 was not initialized!
[ 2.371464] rockchip-mipi-csi2: Async registered subdev
[ 2.371472] rockchip-mipi-csi2: probe success, v4l2_dev:rkci-mipi-
lvds!
[ 2.437464] rkisp_hw ffa00000.rkisp: is_thunderboot: 0
[ 2.437496] rkisp_hw ffa00000.rkisp: Missing rockchip,grf property
[ 2.437549] rkisp_hw ffa00000.rkisp: max input:0x0@0fps
[ 2.437737] rkisp_hw ffa00000.rkisp: get sram size:253952
```

```

[ 2.437752] rkisp_hw ffa00000.rkisp: no iommu attached, using non-
iommu buffers
[ 2.437764] rkisp_hw ffa00000.rkisp: No reserved memory region.
default cma area!
[ 2.438189] rkisp rkisp-vir0: rkisp driver version: v02.05.00
[ 2.438350] rkisp rkisp-vir0: No memory-region-thunderboot specified
[ 2.439663] rkisp rkisp-vir0: Entity type for entity rkisp-isp-subdev
was not initialized!
[ 2.470998] rockchip-csi2-dphy-hw ff3e8000.csi2-dphy-hw: csi2 dphy hw
probe successfully!
0
[ 2.489404] rockchip-csi2-dphy csi2-dphy0: csi2 dphy0 probe
successfully!
0
[ 2.807562] rkCIF rkCIF-mipi-lvds: clear unready subdev num: 3
[ 2.808855] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.808882] rkCIF-mipi-lvds: Async subdev notifier completed
[ 2.808907] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.808915] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.808954] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.808962] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.809719] rkisp rkisp-vir0: clear unready subdev num: 1
[ 2.810070] rkisp-vir0: Async subdev notifier completed
[ 2.849934] rga: rga2, irq = 36, match scheduler
[ 2.851445] rga: rga2 hardware loaded successfully,
hw_version:3.3.87975.
[ 2.851477] rga: rga2 probe successfully
[ 2.851802] rga_iommu: IOMMU binding successfully, default mapping
core[0x4]
[ 2.853035] rga: Module initialized. v1.3.1
OK
[ 2.976717] mpp_vcodec: loading out-of-tree module taints kernel.
[ 2.993821] mpp_vcodec: init new
[ 2.994019] mpp_service mpp-srv: 424abb9b author: Yandong Lin 2024-04-
29 [mpp_enc]: fix wrap enc sw timeout when resolution switch
[ 2.994035] mpp_service mpp-srv: probe start
[ 2.999581] mpp_rkvenc_540c ffa50000.rkvenc: probing start
[ 2.999875] mpp_rkvenc_540c ffa50000.rkvenc: probing finish
[ 3.000402] mpp_vepu_pp ffa60000.rkvenc-pp: probe device
[ 3.000518] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_a_pp is not
found!
[ 3.000534] veipu_pp_init:526: No aclclk reset resource define
[ 3.000545] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_h_pp is not
found!
[ 3.000554] veipu_pp_init:529: No hclk reset resource define
Input (null) Format:SRGB8_1x8 Size:800x600@4fps Offset(0,0)
[ 3.002246] mpp_vepu_pp ffa60000.rkvenc-pp: probing finish
[ 3.002572] mpp_service mpp-srv: probe success

```

```
[ 3.031059] RKNPU ff660000.npu: RKNPU: rknpu iommu device-tree entry
not found!, using non-iommu mode
[ 3.031728] RKNPU ff660000.npu: RKNPU: Initialized RKNPU driver:
v0.9.2 for 20230825
[ 3.031847] RKNPU ff660000.npu: dev_pm_opp_set_regulators: no
regulator (rknpu) found: -19
Starting sshd: [ 3.122391] rockit_load start
[ 3.145424] rockit_load end
[ 3.169129] rve: rve_irq, irq = 52, match scheduler
[ 3.169748] rve: Driver loaded successfully rve[2] ver:[2021]58.1a
[ 3.169772] rve: probe successfully
[ 3.171611] rve: Module initialized. v1.0.6
/
ln: /oem/usr/www/userdata: No such file or directory
ln: /oem/usr/www/usb0: No such file or directory
ln: /oem/usr/www/sdcard: No such file or directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
Error: not found rkipc.ini !!!
/oem/usr/bin/RkLunch.sh: exit: line 107: Illegal number: -1
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
OK
Starting telnetd: OK
[ 3.522231] rk_gmac-dwmac ffa80000.ethernet eth0: PHY [stmmac-0:02]
driver [RK630 PHY] (irq=POLL)
[ 3.522638] dwmac4: Master AXI performs any burst length
[ 3.522665] rk_gmac-dwmac ffa80000.ethernet eth0: No Safety Features
support found
[ 3.522687] rk_gmac-dwmac ffa80000.ethernet eth0: PTP not supported by
HW
[ 3.523039] rk_gmac-dwmac ffa80000.ethernet eth0: configuring for
phy/rmii link mode
wlan0 not found. Stop run rkwifi_server.
/etc/init.d/S50usbdevice: line 144: can't open : no such file
Debug: configfs_init
[ 3.852253] file system registered
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/mtp.gs0': No such file
or directory
[ 3.907758] using random self ethernet address
[ 3.907789] using random host ethernet address
```

```
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/acm.gs6': No such file
or directory
[ 3.921845] Mass Storage Function, version: 2009/09/11
[ 3.921879] LUN: removable file: (no medium)
[ 4.000379] read descriptors
[ 4.000595] read strings
[ 5.003849] usb0: HOST MAC 9e:91:a6:32:f1:05
[ 5.003898] usb0: MAC 22:f9:ac:4f:e4:87
[ 5.116712] dwc3 ffb00000.usb: device reset
[ 5.217657] android_work: sent uevent USB_STATE=CONNECTED
[ 5.292887] android_work: sent uevent USB_STATE=CONFIGURED
[ 5.606583] rk_gmac-dwmac ffa80000.ethernet eth0: Link is Up -
100Mbps/Full - flow control rx/tx
/usr/bin/luckfox-config: line 234: warning: command substitution: ignored
null byte in input
Only Luckfox Pico Ultra /Luckfox Pico Ultra W support RGB
Complete configuration loading
/root/main.py and /root/boot.py not exist ,pass...
OK
hwclock: can't open '/dev/misc/rtc': No such file or directory
RTC does not require time calibration
current_ip = 172.32.0.70
TARGET_IP = 172.32.0.93
luckfox : set usb0 ip
172.32.0.93
usb0 config success

Welcome to luckfox pico
luckfox login: root
Password:
[root@luckfox root]# dev/mmcblk1
-sh: dev/mmcblk1: not found
[root@luckfox root]# ls /dev/mmcblk*
/dev/mmcblk1
[root@luckfox root]# [root@luckfox root]# ls /dev/mmcblk*
/dev/mmcblk1
-sh: [root@luckfox: not found
[root@luckfox root]# /dev/mmcblk1
-sh: /dev/mmcblk1: Permission denied
[root@luckfox root]# [root@luckfox root]#ls /dev/mmcblk1p*
-sh: [root@luckfox: not found
[root@luckfox root]# fdisk -l /dev/mmcblk1
[ 121.530235] print_req_error: 62 callbacks suppressed
[ 121.530263] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.530749] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.531162] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.531572] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.531970] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
```

```
[ 121.532404] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.532820] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.533234] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 121.533658] blk_update_request: I/O error, dev mmcblk1, sector 8 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 121.534080] blk_update_request: I/O error, dev mmcblk1, sector 9 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 121.906489] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
```

```
fdisk: can't open '/dev/mmcblk1': Input/output error
```

```
[root@luckfox root]# DDR 306b9977f5 wesley.yao 23/12/21-09:28:37,fwver:
v1.15
```

```
S5P1
```

```
4x
```

```
fc27
```

```
rgef0
```

```
rgef1
```

```
DDRConf1
```

```
DDR2, BW=16 Col=10 Bk=4 CS0 Row=13 CS=1 Size=64MB
```

```
528MHz
```

```
DDR bin out
```

```
U-Boot SPL board init
```

```
U-Boot SPL 2017.09 (Mar 13 2025 - 20:51:45)
```

```
DDR 306b9977f5 wesley.yao 23/12/21-09:28:37,fwver: v1.15
```

```
S5P1
```

```
4x
```

```
fc27
```

```
rgef0
```

```
rgef1
```

```
DDRConf1
```

```
DDR2, BW=16 Col=10 Bk=4 CS0 Row=13 CS=1 Size=64MB
```

```
528MHz
```

```
DDR bin out
```

```
U-Boot SPL board init
```

```
U-Boot SPL 2017.09 (Mar 13 2025 - 20:51:45)
```

```
Trying to boot from MMC2
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
mmc_init: -110, time 190
```

```
spl: mmc init failed with error: -110
```

```
Trying to boot from MTD1
```

```
ENVF: Primary 0x00000000 - 0x00040000
```

```
No misc partition
```

```
Trying fit image at 0x400 sector
```

```
## Verified-boot: 0
```

```
## Checking uboot 0x00200000 (lzma @0x00400000) ... sha256(8e89d78e28...)
```

```
+ sha256(1cbf26d878...) + OK
```

```
## Checking fdt 0x00260998 ... sha256(9f596c5683...) + OK
Total: 521.757/604.642 ms
```

```
Jumping to U-Boot(0x00200000)
```

```
U-Boot 2017.09 (Mar 13 2025 - 20:51:45 +0800)
```

```
Model: Rockchip RV1106 EVB Board
MPIDR: 0xf00
PreSerial: 2, raw, 0xff4c0000
DRAM: 64 MiB
System: init
Relocation Offset: 03d81000
Relocation fdt: 02dfa778 - 02dfede0
CR: M/C/I
Using default environment
```

```
Bootdev(atags): mtd 1
ENVF: Primary 0x00000000 - 0x00040000
PartType: ENV
DM: v2
No misc partition
boot mode: None
RESC: 'boot', blk@0x00001f74
resource: sha256+
FIT: no signed, no conf required
DTB: rk-kernel.dtb
HASH(c): OK
```

```
Model: Luckfox Pico Plus
```

```
## retrieving sd_update.txt ...
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
MMC error: The cmd index is 13, ret is -110
```

```
mmc_init: -110, time 65
```

```
CLK: (uboot. arm: enter 816000 KHz, init 816000 KHz, kernel ON/A)
```

```
apll 816000 KHz
```

```
dp1l 528000 KHz
```

```
gp1l 1188000 KHz
```

```
cp1l 1000000 KHz
```

```
ac1k_peri_root 400000 KHz
```

```
hc1K_peri_root 200000 KHz
```

```
pc1k_peri_root 100000 KHz
```

```
ac1k_bus_root 300000 KHz
```

```
pc1k_top_root 100000 KHz
```

```
pc1k_pmu_root 100000 KHz
```

```
hc1k_pmu_root 200000 KHz
```

```
Net: eth0: ethernet@ffa80000
```

```
Hit key to stop autoboot('CTRL+C'): 0
```

```
## Booting FIT Image at 0x290af40 with size 0x002ee800
```

```
Fdt Ramdisk skip relocation
```

```
No misc partition
```

```
## Loading kernel from FIT Image at 0290af40 ...
```



```
Using 'conf' configuration
## Verified-boot: 0
Trying 'kernel' kernel subimage
  Description: unavailable
  Type:        Kernel Image
  Compression: uncompressed
  Data Start:  0x02914540
  Data Size:    3035536 Bytes = 2.9 MiB
  Architecture: ARM
  OS:           Linux
  Load Address: 0x00008000
  Entry Point:  0x00008000
  Hash algo:    sha256
  Hash value:
d4acd67e9de6477ad1e990225b9e2b7f2772030bcd5aeb4d26cc9b4ac6edbb45
Verifying Hash Integrity ... sha256+ OK
## Loading fdt from FIT Image at 0290af40 ...
Using 'conf' configuration
Trying 'fdt' fdt subimage
  Description: unavailable
  Type:        Flat Device Tree
  Compression: uncompressed
  Data Start:  0x0290b740
  Data Size:    36070 Bytes = 35.2 KiB
  Architecture: ARM
  Load Address: 0x00c00000
  Hash algo:    sha256
  Hash value:
97edb1f3e43fbebfbef49e0590ad1a9d26e0dlc739bfd858f5812422f407ac462
Verifying Hash Integrity ... sha256+ OK
Loading fdt from 0x0290af40 to 0x00c00000
Bootimg using the fdt blob at 0x00c00000
Loading Kernel Image from 0x02914540 to 0x00008000 ... OK
kernel loaded at 0x00008000, end = 0x002ed190
Using Device Tree in place at 00c00000, end 00c0bce5
Adding bank: 0x00000000 - 0x04000000 (size: 0x04000000)
Total: 847.258/1456.990 ms
```

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 5.10.160 (cro@DESKTOP-RUM06US) (arm-
rockchip830-linux-uclibcgnueabi-hf-gcc (crosstool-NG 1.24.0) 8.3.0, GNU ld
(crosstool-NG 1.24.0) 2.32) #7 Thu Mar 13 10:19:16 CST 2025
[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7),
cr=50c53c7d
[ 0.000000] CPU: div instructions available: patching division code
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[ 0.000000] OF: fdt: Machine model: Luckfox Pico Plus
[ 0.000000] Memory policy: Data cache writeback
[ 0.000000] cma: Reserved 24576 KiB at 0x02800000
[ 0.000000] Zone ranges:
[ 0.000000] Normal [mem 0x0000000000000000-0x0000000003ffffff]
```

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[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000] node 0: [mem 0x0000000000000000-0x0000000003ffffff]
[ 0.000000] Initmem setup node 0 [mem 0x0000000000000000-
0x0000000003ffffff]
[ 0.000000] CPU: All CPU(s) started in SVC mode.
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages:
16256
[ 0.000000] Kernel command line: user_debug=31 storagemedia=mtd
androidboot.storagemedia=mtd androidboot.mode=normal rootwait
earlycon=uart8250,mmio32,0xff4c0000 console=ttyFIQ0 root=ubi0:rootfs
snd_soc_core.prealloc_buffer_size_kbytes=16 coherent_pool=0 mtdparts=spi-
nand0:256K(env),256K@256K(idblock),512K(uboot),4M(boot),30M(oem),6M(userd
ata),85M(rootfs) ubi.mtd=6 rootfstype=ubifs rk_dma_heap_cma=24M
androidboot.fwver=uboot-03/13/2025
[ 0.000000] Dentry cache hash table entries: 8192 (order: 3, 32768
bytes, linear)
[ 0.000000] Inode-cache hash table entries: 4096 (order: 2, 16384
bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
[ 0.000000] Memory: 33624K/65536K available (3793K kernel code, 379K
rwd data, 1816K rodata, 196K init, 138K bss, 7336K reserved, 24576K cma-
reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[ 0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
[ 0.000000] arch_timer: cp15 timer(s) running at 24.00MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x588fe9dc0, max_idle_ns: 440795202592 ns
[ 0.000007] sched_clock: 56 bits at 24MHz, resolution 41ns, wraps
every 4398046511097ns
[ 0.000019] Switching to timer-based delay loop, resolution 41ns
[ 0.000520] Console: colour dummy device 80x30
[ 0.000567] Calibrating delay loop (skipped), value calculated using
timer frequency.. 48.00 BogoMIPS (lpj=240000)
[ 0.000584] pid_max: default: 4096 minimum: 301
[ 0.000768] Mount-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.000784] Mountpoint-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.001430] CPU: Testing write buffer coherency: ok
[ 0.002120] Setting up static identity map for 0x81c0 - 0x81f8
[ 0.002603] devtmpfs: initialized
[ 0.009627] VFP support v0.3: implementor 41 architecture 2 part 30
variant 7 rev 5
[ 0.009887] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 19112604462750000 ns
[ 0.009913] futex hash table entries: 16 (order: -5, 192 bytes,
linear)
[ 0.010009] pinctrl core: initialized pinctrl subsystem
[ 0.011249] NET: Registered protocol family 16
[ 0.011724] DMA: failed to allocate 0 KiB pool for atomic coherent
allocation
[ 0.012315] Registered FIQ tty driver
[ 0.012655] thermal_sys: Registered thermal governor 'step_wise'

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[ 0.012664] thermal_sys: Registered thermal governor 'user_space'
[ 0.012912] cpuidle: using governor menu
[ 0.026828] rockchip-gpio ff380000.gpio: probed /pinctrl/gpio@ff380000
[ 0.027684] rockchip-gpio ff530000.gpio: probed /pinctrl/gpio@ff530000
[ 0.028471] rockchip-gpio ff550000.gpio: probed /pinctrl/gpio@ff550000
[ 0.029161] rockchip-gpio ff560000.gpio: probed /pinctrl/gpio@ff560000
[ 0.029263] rockchip-pinctrl pinctrl: probed pinctrl
[ 0.039153] fiq_debugger fiq_debugger.0: IRQ uart_irq not found
[ 0.039178] fiq_debugger fiq_debugger.0: IRQ wakeup not found
[ 0.039474] printk: console [ttyFIQ0] enabled
[ 0.039689] Registered fiq debugger ttyFIQ0
[ 0.041871] SCSI subsystem initialized
[ 0.042117] usbcore: registered new interface driver usbfs
[ 0.042171] usbcore: registered new interface driver hub
[ 0.042225] usbcore: registered new device driver usb
[ 0.042482] mc: Linux media interface: v0.10
[ 0.042527] videodev: Linux video capture interface: v2.00
[ 0.043750] Advanced Linux Sound Architecture Driver Initialized.
[ 0.044576] rockchip-cpuinfo cpuinfo: SoC : 11031000
[ 0.044604] rockchip-cpuinfo cpuinfo: Serial :
4e1fc7b3eaaf084c
[ 0.045037] rockchip,rknpwr-powergood ff000000.syscon:rknpwr-
powergood: probe success!
[ 0.045885] clocksource: Switched to clocksource arch_sys_counter
[ 0.052639] NET: Registered protocol family 2
[ 0.052890] IP idents hash table entries: 2048 (order: 2, 16384 bytes,
linear)
[ 0.053326] tcp_listen_portaddr_hash hash table entries: 512 (order:
0, 4096 bytes, linear)
[ 0.053366] TCP established hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.053386] TCP bind hash table entries: 1024 (order: 0, 4096 bytes,
linear)
[ 0.053402] TCP: Hash tables configured (established 1024 bind 1024)
[ 0.053509] UDP hash table entries: 256 (order: 0, 4096 bytes, linear)
[ 0.053534] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes,
linear)
[ 0.053675] NET: Registered protocol family 1
[ 0.054344] RPC: Registered named UNIX socket transport module.
[ 0.054370] RPC: Registered udp transport module.
[ 0.054378] RPC: Registered tcp transport module.
[ 0.054385] RPC: Registered tcp NFSv4.1 backchannel transport module.
[ 0.055458] rockchip-thermal ff3c8000.tsadc: tsadc is probed
successfully!
[ 0.056641] Initialise system trusted keyrings
[ 0.056975] workingset: timestamp_bits=30 max_order=14 bucket_order=0
[ 0.060726] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[ 0.061570] NFS: Registering the id_resolver key type
[ 0.061655] Key type id_resolver registered
[ 0.061665] Key type id_legacy registered
[ 0.061711] jffs2: version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
[ 0.062215] Key type asymmetric registered
[ 0.062238] Asymmetric key parser 'x509' registered
[ 0.062262] io scheduler mq-deadline registered

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[ 0.062699] rockchip-usb2phy ff3e0000.usb2-phy: IRQ index 0 not found
[ 0.067746] dma-pl330 ff420000.dma-controller: Loaded driver for PL330
DMAC-241330
[ 0.067785] dma-pl330 ff420000.dma-controller:          DBUFF-128x8bytes
Num_Chans-8 Num_Peri-32 Num_Events-16
[ 0.068648] rockchip-pvtm ff240000.pvtm: pvtm@0 probed
[ 0.068847] rockchip-pvtm ff390000.pvtm: pvtm@0 probed
Seeding 256 bits and crediting
[ 0.069174] rockchip-system-monitor rockchip-system-monitor: system
monitor probe
Saving 256 bits of creditable seed for next boot
[ 0.069742] Serial: 8250/16550 driver, 6 ports, IRQ sharing disabled
Starting syslogd: OK
[ 0.075613] random: crng init done
Starting klogd: [ 0.084670] brd: module loaded
[ 0.090720] loop: module loaded
[ 0.093022] spi-nand spi2.0: Winbond SPI NAND was found.
OK
[ 0.093052] spi-nand spi2.0: 128 MiB, block size: 128 KiB, page size:
2048, OOB size: 64
[ 0.094293] 7 cmdlinepart partitions found on MTD device spi-nand0
[ 0.094313] Creating 7 MTD partitions on "spi-nand0":
Running sysctl: [ 0.094327] 0x0000000000000-0x0000000040000 : "env"
[ 0.096308] 0x0000000040000-0x0000000080000 : "idblock"
[ 0.098194] 0x0000000080000-0x0000000100000 : "uboot"
[ 0.100144] 0x0000000100000-0x0000000500000 : "boot"
[ 0.101973] 0x0000000500000-0x0000002300000 : "oem"
[ 0.103983] 0x0000002300000-0x0000002900000 : "userdata"
[ 0.105981] 0x0000002900000-0x0000007e00000 : "rootfs"
[ 0.109394] rk_gmac-dwmac ffa80000.ethernet: IRQ eth_lpi not found
[ 0.109591] rk_gmac-dwmac ffa80000.ethernet: PTP uses main clock
[ 0.109643] rk_gmac-dwmac ffa80000.ethernet: no regulator found
OK
[ 0.109657] rk_gmac-dwmac ffa80000.ethernet: clock input or output?
(input).
Populating /dev using udev: [ 0.109668] rk_gmac-dwmac
ffa80000.ethernet: Can not read property: tx_delay.
[ 0.109678] rk_gmac-dwmac ffa80000.ethernet: set tx_delay to
0xffffffff
[ 0.109687] rk_gmac-dwmac ffa80000.ethernet: Can not read property:
rx_delay.
[ 0.109695] rk_gmac-dwmac ffa80000.ethernet: set rx_delay to
0xffffffff
[ 0.109776] rk_gmac-dwmac ffa80000.ethernet: integrated PHY? (yes).
[ 0.109793] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_rx
[ 0.109806] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_tx
[ 0.109841] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
clk_mac_speed
[ 0.109850] rk_gmac-dwmac ffa80000.ethernet: clock input from PHY
[ 0.110086] rk_gmac-dwmac ffa80000.ethernet: init for RMI
[ 0.110326] rk_gmac-dwmac ffa80000.ethernet: User ID: 0x30, Synopsys
ID: 0x51
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[ 0.110349] rk_gmac-dwmac ffa80000.ethernet: DWMAC4/5
[ 0.110364] rk_gmac-dwmac ffa80000.ethernet: DMA HW capability
register supported
[ 0.110373] rk_gmac-dwmac ffa80000.ethernet: RX Checksum Offload
Engine supported
[ 0.110381] rk_gmac-dwmac ffa80000.ethernet: TX Checksum insertion
supported
[ 0.110389] rk_gmac-dwmac ffa80000.ethernet: Wake-Up On Lan supported
[ 0.110396] rk_gmac-dwmac ffa80000.ethernet: TSO supported
[ 0.110405] rk_gmac-dwmac ffa80000.ethernet: Enable RX Mitigation via
HW Watchdog Timer
[ 0.110414] rk_gmac-dwmac ffa80000.ethernet: TSO feature enabled
[ 0.110426] rk_gmac-dwmac ffa80000.ethernet: Using 40 bits DMA width
[ 0.118087] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 0.118453] usbcore: registered new interface driver usb-storage
[ 0.118650] gadgetfs: USB Gadget filesystem, version 24 Aug 2004
[ 0.118702] Mass Storage Function, version: 2009/09/11
[ 0.118719] LUN: removable file: (no medium)
[ 0.118747] no file given for LUN0
[ 0.118782] udc ffb00000.usb: failed to start g_mass_storage: -22
[ 0.119344] i2c /dev entries driver
[ 0.120918] i2c i2c-4: 1 i2c clients have been registered at 0x30
[ 0.121355] i2c i2c-4: 2 i2c clients have been registered at 0x30
[ 0.122394] usbcore: registered new interface driver uvcvideo
[ 0.122411] USB Video Class driver (1.1.1)
[ 0.123184] cpu cpu0: leakage=18
[ 0.123972] cpu cpu0: avs=0
[ 0.124136] cpu cpu0: opp calibration done
[ 0.124299] cpu cpu0: l=10000 h=2147483647 hyst=5000 l_limit=0
h_limit=0 h_table=0
[ 0.124797] Synopsys Designware Multimedia Card Interface Driver
[ 0.125711] dtbocfg: 0.1.0
[ 0.125765] dtbocfg: OK
[ 0.127345] dwmmc_rockchip ffaa0000.mmc: No normal pinctrl state
[ 0.127379] dwmmc_rockchip ffaa0000.mmc: No idle pinctrl state
[ 0.127643] dwmmc_rockchip ffaa0000.mmc: IDMAC supports 32-bit address
mode.
[ 0.127696] dwmmc_rockchip ffaa0000.mmc: Using internal DMA
controller.
[ 0.127712] dwmmc_rockchip ffaa0000.mmc: Version ID is 270a
[ 0.127763] dwmmc_rockchip ffaa0000.mmc: DW MMC controller at irq
50,32 bit host data width,256 deep fifo
[ 0.129497] rv1106-acodec ff480000.acodec: current soc_id: rv1103
[ 0.129608] rv1106-acodec ff480000.acodec: Use pa_ctl_gpio and
pa_ctl_delay_ms: 0
[ 0.131454] NET: Registered protocol family 17
[ 0.131568] Key type dns_resolver registered
[ 0.132589] Loading compiled-in X.509 certificates
[ 0.149323] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000Hz div = 0)
[ 0.160964] input: adc-keys as /devices/platform/adc-keys/input/input0
[ 0.205420] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000Hz div = 0)
[ 0.205577] mmc1: new high speed SDHC card at address b368

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[ 0.206651] mmcblk1: mmc1:b368 USD00 14.7 GiB
[ 0.237381] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000Hz div = 0)
[ 0.238822] ubi0: attaching mtd6
[ 0.281696] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000Hz div = 0)
[ 0.282338] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.282617] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.282920] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283184] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283445] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283709] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283975] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.284239] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.284257] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
[ 0.284307] mmcblk1: unable to read partition table
[ 0.411657] ubi0: scanning is finished
[ 0.416452] ubi0: attached mtd6 (name "rootfs", size 85 MiB)
[ 0.416481] ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
[ 0.416490] ubi0: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
[ 0.416499] ubi0: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 0.416507] ubi0: good PEBs: 680, bad PEBs: 0, corrupted PEBs: 0
[ 0.416516] ubi0: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 0.416527] ubi0: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 1876574052
[ 0.416538] ubi0: available PEBs: 0, total reserved PEBs: 680, PEBs
reserved for bad PEB handling: 20
[ 0.417738] ALSA device list:
[ 0.417762] #0: rv-acodec
[ 0.418553] ubi0: background thread "ubi_bgt0d" started, PID 57
[ 0.418666] UBIFS (ubi0:0): Mounting in unauthenticated mode
[ 0.435354] UBIFS (ubi0:0): recovery needed
[ 0.458427] UBIFS (ubi0:0): recovery deferred
[ 0.458563] UBIFS (ubi0:0): UBIFS: mounted UBI device 0, volume 0,
name "rootfs", R/O mode
[ 0.458578] UBIFS (ubi0:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 0.458591] UBIFS (ubi0:0): FS size: 81899520 bytes (78 MiB, 645
LEBs), journal size 9023488 bytes (8 MiB, 72 LEBs)
[ 0.458601] UBIFS (ubi0:0): reserved for root: 0 bytes (0 KiB)

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[    0.458615] UBIFS (ubi0:0): media format: w4/r0 (latest is w5/r0),
UUID 26AD6950-D70C-4D0F-86B8-A8311CC31DDD, small LPT model
[    0.459051] VFS: Mounted root (ubifs filesystem) readonly on device
0:14.
[    0.459864] devtmpfs: mounted
[    0.460084] Freeing unused kernel memory: 196K
[    0.460093] Kernel memory protection not selected by kernel config.
[    0.460121] Run /sbin/init as init process
[    0.467191] process '/bin/busybox' started with executable stack
[    0.524945] UBIFS (ubi0:0): completing deferred recovery
[    0.590500] UBIFS (ubi0:0): background thread "ubifs_bgt0_0" started,
PID 60
[    0.595274] UBIFS (ubi0:0): deferred recovery completed
[    0.825242] udevd[90]: starting version 3.2.7
[    0.842176] udevd[90]: specified group 'input' unknown
[    0.843183] udevd[90]: specified group 'kvm' unknown
[    0.866800] udevd[91]: starting eudev-3.2.7
[    1.277353] udevd[105]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd0ro': No such file or directory
[    1.288298] udevd[106]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd1ro': No such file or directory
[    1.301569] udevd[107]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd2ro': No such file or directory
[    1.306389] blk_update_request: I/O error, dev mmcblk1, sector
30883712 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
[    1.306815] blk_update_request: I/O error, dev mmcblk1, sector
30883713 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
[    1.311686] Buffer I/O error on dev mmcblk1, logical block 3860464,
async page read
[    1.314756] udevd[108]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd3ro': No such file or directory
[    1.325298] udevd[110]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd4ro': No such file or directory
[    1.338176] udevd[111]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd5ro': No such file or directory
[    1.347258] udevd[112]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd6ro': No such file or directory
[    1.363005] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
[    1.375128] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
done
/etc/init.d/S20linkmount info: mount point path [IGNORE] not found,
skip...
*****/dev/ubi4_0 not exist*****
*****/dev/ubi4 not exist*****
[    1.783976] ubi4: attaching mtd4
[    1.845302] ubi4: scanning is finished
[    1.853835] ubi4: attached mtd4 (name "oem", size 30 MiB)
[    1.853867] ubi4: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
UBI device number 4, total 240 LEBs (30474240 bytes, 29.1 MiB), available
0 LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)

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[ 1.853877] ubi4: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
try to make volume: /dev/ubi4_0 ...
[ 1.853886] ubi4: VID header offset: 2048 (aligned 2048), data offset:
4096
ubimkvol: error!: bad volume size: "0"
[ 1.853895] ubi4: good PEBs: 240, bad PEBs: 0, corrupted PEBs: 0
[ 1.853905] ubi4: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 1.853915] ubi4: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 945929064
[ 1.853926] ubi4: available PEBs: 0, total reserved PEBs: 240, PEBs
reserved for bad PEB handling: 20
[ 1.855209] ubi4: background thread "ubi_bgt4d" started, PID 133
[ 1.882882] UBIFS (ubi4:0): Mounting in unauthenticated mode
[ 1.883146] UBIFS (ubi4:0): background thread "ubifs_bgt4_0" started,
PID 138
[ 1.900183] UBIFS (ubi4:0): recovery needed
[ 1.983515] UBIFS (ubi4:0): recovery completed
[ 1.983643] UBIFS (ubi4:0): UBIFS: mounted UBI device 4, volume 0,
name "oem"
[ 1.983658] UBIFS (ubi4:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 1.983671] UBIFS (ubi4:0): FS size: 26157056 bytes (24 MiB, 206
LEBs), journal size 4190208 bytes (3 MiB, 33 LEBs)
[ 1.983680] UBIFS (ubi4:0): reserved for root: 0 bytes (0 KiB)
[ 1.983694] UBIFS (ubi4:0): media format: w4/r0 (latest is w5/r0),
UUID 8FC2EA09-D438-4216-AF2A-FF831D373CD3, small LPT model
*****/dev/ubi5_0 not exist*****
[ 2.024184] ubi5: attaching mtd5
*****/dev/ubi5 not exist*****
[ 2.037169] ubi5: scanning is finished
[ 2.045331] ubi5: attached mtd5 (name "userdata", size 6 MiB)
UBI device number 5, total 48 LEBs (6094848 bytes, 5.8 MiB), available 0
LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)
[ 2.045358] ubi5: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
try to make volume: /dev/ubi5_0 ...
[ 2.045368] ubi5: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
ubimkvol: error!: bad volume size: "0"
[ 2.045378] ubi5: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 2.045387] ubi5: good PEBs: 48, bad PEBs: 0, corrupted PEBs: 0
[ 2.045396] ubi5: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 2.045406] ubi5: max/mean erase counter: 2/1, WL threshold: 4096,
image sequence number: 12643680
[ 2.045417] ubi5: available PEBs: 0, total reserved PEBs: 48, PEBs
reserved for bad PEB handling: 20
[ 2.048804] ubi5: background thread "ubi_bgt5d" started, PID 147
[ 2.068773] UBIFS (ubi5:0): Mounting in unauthenticated mode
[ 2.069046] UBIFS (ubi5:0): background thread "ubifs_bgt5_0" started,
PID 152
```



```
[ 2.086181] UBIFS (ubi5:0): recovery needed
Initializing random number generator... [ 2.126041] UBIFS (ubi5:0):
recovery completed
[ 2.126172] UBIFS (ubi5:0): UBIFS: mounted UBI device 5, volume 0,
name "userdata"
done.
[ 2.126189] UBIFS (ubi5:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 2.126203] UBIFS (ubi5:0): FS size: 1777664 bytes (1 MiB, 14 LEBs),
journal size 1142785 bytes (1 MiB, 9 LEBs)
[ 2.126212] UBIFS (ubi5:0): reserved for root: 0 bytes (0 KiB)
[ 2.126227] UBIFS (ubi5:0): media format: w4/r0 (latest is w5/r0),
UUID 202FDC30-DB3B-4471-AE13-FE1BED340D24, small LPT model
/dev/ubi5_0 on /userdata type ubifs (rw,relatime,assert=read-
only,ubi=5,vol=0)
Starting network: [ 2.257674] rk_dvbm ffa70000.rkdvbm: probe start
[ 2.257724] rk_dvbm ffa70000.rkdvbm: dvbm ctx f49bd328
[ 2.259485] rk_dvbm ffa70000.rkdvbm: probe success
[ 2.278788] sc3336 4-0030: driver version: 00.01.01
[ 2.278881] sc3336 4-0030: Failed to get reset-gpios
[ 2.278940] sc3336 4-0030: could not get default pinstat
[ 2.278953] sc3336 4-0030: could not get sleep pinstat
[ 2.278982] sc3336 4-0030: supply avdd not found, using dummy
regulator
[ 2.279255] sc3336 4-0030: supply dovdd not found, using dummy
regulator
OK
[ 2.279344] sc3336 4-0030: supply dvdd not found, using dummy
regulator
Starting ntpd: [ 2.303853] sc3336 4-0030: Unexpected sensor
id(000000), ret(-5)
[ 2.377078] rkCIFhw ffa10000.rkCIF: no iommu attached, using non-iommu
buffers
[ 2.377112] rkCIFhw ffa10000.rkCIF: No reserved memory region assign
to CIF
[ 2.377546] rkCIF rkCIF-mipi-lvds: rkCIF driver version: v00.02.00
[ 2.377670] rkCIF rkCIF-mipi-lvds: attach to cif hw node
[ 2.377683] rkCIF rkCIF-mipi-lvds: failed to get dphy hw node
[ 2.377694] rkCIF rkCIF-mipi-lvds: rkCIF wait line 0
[ 2.377705] rkCIF rkCIF-mipi-lvds: rkCIF fastboot reserve bufs num 3
[ 2.377720] : terminal subdev does not exist
[ 2.377732] : terminal subdev does not exist
[ 2.377740] : terminal subdev does not exist
[ 2.377748] : terminal subdev does not exist
[ 2.377760] : get_remote_sensor: video pad[0] is null
[ 2.377770] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.377782] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.377792] : get_remote_sensor: video pad[0] is null
[ 2.377798] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.377808] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.377817] : get_remote_sensor: video pad[0] is null
```

```
[ 2.377824] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.377833] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.377841] : get_remote_sensor: video pad[0] is null
[ 2.377848] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.377857] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.392944] rkCIF rkCIF-mipi-lvds: No memory-region-thunderboot
specified
[ 2.394247] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.394449] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.394604] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.394773] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.395275] rockchip-mipi-csi2 mipi0-csi2: attach to csi2 hw node
[ 2.395351] rkCIF rkCIF-mipi-lvds: Entity type for entity rockchip-
mipi-csi2 was not initialized!
[ 2.395374] rockchip-mipi-csi2: Async registered subdev
[ 2.395383] rockchip-mipi-csi2: probe success, v4l2_dev:rkCIF-mipi-
lvds!
[ 2.459360] rkISP_hw ffa00000.rkISP: is_thunderboot: 0
[ 2.459391] rkISP_hw ffa00000.rkISP: Missing rockchip,grf property
[ 2.459442] rkISP_hw ffa00000.rkISP: max input:0x0@0fps
[ 2.459629] rkISP_hw ffa00000.rkISP: get sram size:253952
[ 2.459647] rkISP_hw ffa00000.rkISP: no iommu attached, using non-
iommu buffers
[ 2.459659] rkISP_hw ffa00000.rkISP: No reserved memory region.
default cma area!
[ 2.460077] rkISP rkISP-vir0: rkISP driver version: v02.05.00
[ 2.460233] rkISP rkISP-vir0: No memory-region-thunderboot specified
[ 2.461679] rkISP rkISP-vir0: Entity type for entity rkISP-isp-subdev
was not initialized!
0
[ 2.491876] rockchip-csi2-dphy-hw ff3e8000.csi2-dphy-hw: csi2 dphy hw
probe successfully!
[ 2.510964] rockchip-csi2-dphy csi2-dphy0: csi2 dphy0 probe
successfully!
0
[ 2.830195] rkCIF rkCIF-mipi-lvds: clear unready subdev num: 3
[ 2.831954] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.831980] rkCIF-mipi-lvds: Async subdev notifier completed
[ 2.832006] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.832015] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.832057] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.832066] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.833044] rkISP rkISP-vir0: clear unready subdev num: 1
```

```

[ 2.833723] rkisp-vir0: Async subdev notifier completed
[ 2.873888] rga: rga2, irq = 36, match scheduler
[ 2.875352] rga: rga2 hardware loaded successfully,
hw_version:3.3.87975.
[ 2.875399] rga: rga2 probe successfully
[ 2.875721] rga_iommu: IOMMU binding successfully, default mapping
core[0x4]
[ 2.878127] rga: Module initialized. v1.3.1
OK
[ 2.996953] mpp_vcodec: loading out-of-tree module taints kernel.
[ 3.012384] mpp_vcodec: init new
[ 3.012569] mpp_service mpp-srv: 424abb9b author: Yandong Lin 2024-04-
29 [mpp_enc]: fix wrap enc sw timeout when resolution switch
[ 3.012585] mpp_service mpp-srv: probe start
[ 3.016404] mpp_rkvenc_540c ffa50000.rkvenc: probing start
[ 3.016698] mpp_rkvenc_540c ffa50000.rkvenc: probing finish
[ 3.017220] mpp_vepu_pp ffa60000.rkvenc-pp: probe device
[ 3.017339] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_a_pp is not
found!
[ 3.017352] veipu_pp_init:526: No aclclk reset resource define
[ 3.017364] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_h_pp is not
found!
[ 3.017372] veipu_pp_init:529: No hclk reset resource define
Input (null) Format:SRGGB8_1X8 Size:800x600@4fps Offset(0,0)
[ 3.020172] mpp_vepu_pp ffa60000.rkvenc-pp: probing finish
[ 3.020511] mpp_service mpp-srv: probe success
[ 3.048754] RKNPU ff660000.npu: RKNPU: rknpnu iommu device-tree entry
not found!, using non-iommu mode
[ 3.049367] RKNPU ff660000.npu: RKNPU: Initialized RKNPU driver:
v0.9.2 for 20230825
Starting sshd: [ 3.049483] RKNPU ff660000.npu:
dev_pm_opp_set_regulators: no regulator (rknpnu) found: -19
[ 3.137303] rookit_load start
[ 3.160003] rookit_load end
[ 3.181288] rve: rve_irq, irq = 52, match scheduler
[ 3.181846] rve: Driver loaded successfully rve[2] ver:[2021]58.1a
[ 3.181868] rve: probe successfully
[ 3.183693] rve: Module initialized. v1.0.6
/
ln: /oem/usr/www/userdata: No such file or directory
ln: /oem/usr/www/usb0: No such file or directory
ln: /oem/usr/www/sdcard: No such file or directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
Error: not found rkipc.ini !!!
/oem/usr/bin/RkLunch.sh: exit: line 107: Illegal number: -1
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory

```

```
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
OK
Starting telnetd: OK
[ 3.541383] rk_gmac-dwmac ffa80000.ethernet eth0: PHY [stmmac-0:02]
driver [RK630 PHY] (irq=POLL)
[ 3.541807] dwmac4: Master AXI performs any burst length
[ 3.541836] rk_gmac-dwmac ffa80000.ethernet eth0: No Safety Features
support found
[ 3.541859] rk_gmac-dwmac ffa80000.ethernet eth0: PTP not supported by
HW
[ 3.542207] rk_gmac-dwmac ffa80000.ethernet eth0: configuring for
phy/rmii link mode
wlan0 not found. Stop run rkwifi_server.
/etc/init.d/S50usbdevice: line 144: can't open : no such file
Debug: configfs_init
[ 3.800841] file system registered
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/mtp.gs0': No such file
or directory
[ 3.892434] using random self ethernet address
[ 3.892464] using random host ethernet address
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/acm.gs6': No such file
or directory
[ 3.911950] Mass Storage Function, version: 2009/09/11
[ 3.911984] LUN: removable file: (no medium)
[ 3.990215] read descriptors
[ 3.990423] read strings
[ 4.989691] usb0: HOST MAC 4e:37:b5:4f:67:7c
[ 4.989720] usb0: MAC 66:f2:a5:d0:a3:d0
[ 5.099230] dwc3 ffb00000.usb: device reset
[ 5.199980] android_work: sent uevent USB_STATE=CONNECTED
[ 5.275636] android_work: sent uevent USB_STATE=CONFIGURED
[ 5.607033] rk_gmac-dwmac ffa80000.ethernet eth0: Link is Up -
100Mbps/Full - flow control rx/tx
/usr/bin/luckfox-config: line 234: warning: command substitution: ignored
null byte in input
Only Luckfox Pico Ultra /Luckfox Pico Ultra W support RGB
Complete configuration loading
/root/main.py and /root/boot.py not exist ,pass...
OK
hwclock: can't open '/dev/misc/rtc': No such file or directory
RTC does not require time calibration
current_ip = 172.32.0.70
TARGET_IP = 172.32.0.93
luckfox : set usb0 ip
172.32.0.93
usb0 config success
```

```

Welcome to luckfox pico
luckfox login: root
Password:
[root@luckfox root]# lsblk
-sh: lsblk: not found
[root@luckfox root]# ls /dev/mmcblk*
/dev/mmcblk1
[root@luckfox root]# ls /dev/mmcblk1p*
ls: /dev/mmcblk1p*: No such file or directory
[root@luckfox root]# fdisk -l /dev/mmcblk1
[ 115.190008] print_req_error: 62 callbacks suppressed
[ 115.190036] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.190370] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.190661] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.190953] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.191243] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.191528] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.191813] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.192097] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 115.192385] blk_update_request: I/O error, dev mmcblk1, sector 8 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 115.192667] blk_update_request: I/O error, dev mmcblk1, sector 9 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 115.557672] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
fdisk: can't open '/dev/mmcblk1': Input/output error
[root@luckfox root]# [root@luckfox root]# ls /dev/mmcblk*
/dev/mmcblk1
-sh: [root@luckfox: not found
[root@luckfox root]# /dev/mmcblk1
fox root]# ls /dev/mmcblk1p*
-sh: /dev/mmcblk1: Permission denied
[root@luckfox root]# [root@luckfox root]# ls /dev/mmcblk1p*
-sh: [root@luckfox: not found
[root@luckfox root]# ls: /dev/mmcblk1p*: No such file or directory
-sh: ls:: not found
[root@luckfox root]# [root@luckfox root]# fdisk -l /dev/mmcblk1
-sh: [root@luckfox: not found
[root@luckfox root]# [ 115.190008] print_req_error: 62 callbacks
suppressed
sh: missing ]
[root@luckfox root]# [ 115.190036] blk_update_request: I/O error, dev
mmcblk1,
sector 0 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
115-sh: .syntax error: unexpected "("

```

```

19[root@luckfox root]# [ 115.190370] blk_update_request: I/O error, dev
mmcblk1,
sector 1 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
115-sh: syntax error: unexpected "("
19[root@luckfox root]# [ 115.190661] blk_update_request: I/O error, dev
mmcblk1,
sector 2 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
-sh: syntax error: unexpected "("
[root@luckfox root]# [ 115.190953] blk_update_request: I/O error, dev
mmcblk1,
sector 3 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
-sh: syntax error: unexpected "("
[root@luckfox root]# [ 115.191243] blk_update_request: I/O error, dev
mmcblk1,
sector 4 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
-sh: syntax error: unexpected "("
[root@luckfox root]# [ 115.191528] blk_update_request: I/O error, dev
mmcblk1,
sector 5 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
115-sh: .syntax error: unexpected "("
19[root@luckfox root]# [ 115.191813] blk_update_request: I/O error, dev
mmcblk1,
sector 6 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
-sh: syntax error: unexpected "("
[root@luckfox root]# [ 115.192097] blk_update_request: I/O error, dev
mmcblk1,
sector 7 op 0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
115-sh: syntax error: unexpected "("
19[root@luckfox root]# [ 115.192385] blk_update_request: I/O error, dev
mmcblk1,
sector 8 op 0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
-sh: syntax error: unexpected "("
[root@luckfox root]# [ 115.192667] blk_update_request: I/O error, dev
mmcblk1,
sector 9 op 0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
1-sh: syntax error: unexpected "("
1[root@luckfox root]# [ 115.557672] Buffer I/O error on dev mmcblk1,
logical blo
ck 0, async page read
sh: missing ]
[root@luckfox root]# fdisk: can't open '/dev/mmcblk1': Input/output
errorDDR 306b9977f5 wesley.yao 23/12/21-09:28:37,fwver: v1.15
S5P1
4x
fc27
rgef0
rgef1
DDRConf1
DDR2, BW=16 Col=10 Bk=4 CS0 Row=13 CS=1 Size=64MB
528MHz
DDR bin out

```

```

U-Boot SPL board init
U-Boot SPL 2017.09 (Mar 13 2025 - 20:51:45)

```

```
Trying to boot from MMC2
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
mmc_init: -110, time 218
spl: mmc init failed with error: -110
Trying to boot from MTD1
ENVF: Primary 0x00000000 - 0x00040000
No misc partition
Trying fit image at 0x400 sector
## Verified-boot: 0
## Checking uboot 0x00200000 (lzma @0x00400000) ... sha256(8e89d78e28...)
+ sha256(1cbf26d878...) + OK
## Checking fdt 0x00260998 ... sha256(9f596c5683...) + OK
Total: 550.319/633.159 ms

Jumping to U-Boot(0x00200000)
```

U-Boot 2017.09 (Mar 13 2025 - 20:51:45 +0800)

```
Model: Rockchip RV1106 EVB Board
MPIDR: 0xf00
PreSerial: 2, raw, 0xff4c0000
DRAM: 64 MiB
Sysmem: init
Relocation Offset: 03d81000
Relocation fdt: 02dfa778 - 02dfede0
CR: M/C/I
Using default environment
```

```
Bootdev(atags): mtd 1
ENVF: Primary 0x00000000 - 0x00040000
PartType: ENV
DM: v2
No misc partition
boot mode: None
RESC: 'boot', blk@0x00001f74
resource: sha256+
FIT: no signed, no conf required
DTB: rk-kernel.dtb
HASH(c): OK
Model: Luckfox Pico Plus
## retrieving sd_update.txt ...
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
MMC error: The cmd index is 13, ret is -110
mmc_init: -110, time 66
CLK: (uboot. arm: enter 816000 KHz, init 816000 KHz, kernel 0N/A)
  apll 816000 KHz
  dpll 528000 KHz
  gp1l 1188000 KHz
```

```
cp11 1000000 KHz
aclk_peri_root 400000 KHz
hclk_peri_root 200000 KHz
pclk_peri_root 100000 KHz
aclk_bus_root 300000 KHz
pclk_top_root 100000 KHz
pclk_pmu_root 100000 KHz
hclk_pmu_root 200000 KHz
Net: eth0: ethernet@ffa80000
Hit key to stop autoboot('CTRL+C'): 0
## Booting FIT Image at 0x290af40 with size 0x002ee800
Fdt Ramdisk skip relocation
No misc partition
## Loading kernel from FIT Image at 0290af40 ...
Using 'conf' configuration
## Verified-boot: 0
Trying 'kernel' kernel subimage
Description: unavailable
Type: Kernel Image
Compression: uncompressed
Data Start: 0x02914540
Data Size: 3035536 Bytes = 2.9 MiB
Architecture: ARM
OS: Linux
Load Address: 0x00008000
Entry Point: 0x00008000
Hash algo: sha256
Hash value:
d4acd67e9de6477ad1e990225b9e2b7f2772030bcd5aeb4d26cc9b4ac6edbb45
Verifying Hash Integrity ... sha256+ OK
## Loading fdt from FIT Image at 0290af40 ...
Using 'conf' configuration
Trying 'fdt' fdt subimage
Description: unavailable
Type: Flat Device Tree
Compression: uncompressed
Data Start: 0x0290b740
Data Size: 36070 Bytes = 35.2 KiB
Architecture: ARM
Load Address: 0x00c00000
Hash algo: sha256
Hash value:
97edb1f3e43fbebfb49e0590ad1a9d26e0d1c739bfd858f5812422f407ac462
Verifying Hash Integrity ... sha256+ OK
Loading fdt from 0x0290af40 to 0x00c00000
Booting using the fdt blob at 0x00c00000
Loading Kernel Image from 0x02914540 to 0x00008000 ... OK
kernel loaded at 0x00008000, end = 0x002ed190
Using Device Tree in place at 00c00000, end 00c0bce5
Adding bank: 0x00000000 - 0x04000000 (size: 0x04000000)
Total: 846.697/1484.948 ms

Starting kernel ...
```



```

[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 5.10.160 (cro@DESKTOP-RUM06US) (arm-
rockchip830-linux-uclibcgnueabi-hf-gcc (crosstool-NG 1.24.0) 8.3.0, GNU ld
(crosstool-NG 1.24.0) 2.32) #7 Thu Mar 13 10:19:16 CST 2025
[ 0.000000] CPU: ARMv7 Processor [410fc075] revision 5 (ARMv7),
cr=50c53c7d
[ 0.000000] CPU: div instructions available: patching division code
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing
instruction cache
[ 0.000000] OF: fdt: Machine model: Luckfox Pico Plus
[ 0.000000] Memory policy: Data cache writeback
[ 0.000000] cma: Reserved 24576 KiB at 0x02800000
[ 0.000000] Zone ranges:
[ 0.000000]   Normal [mem 0x0000000000000000-0x0000000003ffffff]
[ 0.000000] Movable zone start for each node
[ 0.000000] Early memory node ranges
[ 0.000000]   node 0: [mem 0x0000000000000000-0x0000000003ffffff]
[ 0.000000] Initmem setup node 0 [mem 0x0000000000000000-
0x0000000003ffffff]
[ 0.000000] CPU: All CPU(s) started in SVC mode.
[ 0.000000] Built 1 zonelists, mobility grouping on. Total pages:
16256
[ 0.000000] Kernel command line: user_debug=31 storagemedia=mtd
androidboot.storagemedia=mtd androidboot.mode=normal rootwait
earlycon=uart8250,mmio32,0xff4c0000 console=ttyFIQ0 root=ubi0:rootfs
snd_soc_core.prealloc_buffer_size_kbytes=16 coherent_pool=0 mtdparts=spi-
nand0:256K(env),256K@256K(idblock),512K(uboot),4M(boot),30M(oem),6M(userd
ata),85M(rootfs) ubi.mtd=6 rootfstype=ubifs rk_dma_heap_cma=24M
androidboot.fwver=uboot-03/13/2025
[ 0.000000] Dentry cache hash table entries: 8192 (order: 3, 32768
bytes, linear)
[ 0.000000] Inode-cache hash table entries: 4096 (order: 2, 16384
bytes, linear)
[ 0.000000] mem auto-init: stack:off, heap alloc:off, heap free:off
[ 0.000000] Memory: 33624K/65536K available (3793K kernel code, 379K
rwd data, 1816K rodata, 196K init, 138K bss, 7336K reserved, 24576K cma-
reserved)
[ 0.000000] SLUB: HWalign=64, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
[ 0.000000] NR_IRQS: 16, nr_irqs: 16, preallocated irqs: 16
[ 0.000000] arch_timer: cp15 timer(s) running at 24.00MHz (phys).
[ 0.000000] clocksource: arch_sys_counter: mask: 0xffffffffffffff
max_cycles: 0x588fe9dc0, max_idle_ns: 440795202592 ns
[ 0.000006] sched_clock: 56 bits at 24MHz, resolution 41ns, wraps
every 4398046511097ns
[ 0.000018] Switching to timer-based delay loop, resolution 41ns
[ 0.000515] Console: colour dummy device 80x30
[ 0.000563] Calibrating delay loop (skipped), value calculated using
timer frequency.. 48.00 BogoMIPS (lpj=240000)
[ 0.000579] pid_max: default: 4096 minimum: 301
[ 0.000762] Mount-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.000775] Mountpoint-cache hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.001434] CPU: Testing write buffer coherency: ok

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[ 0.002141] Setting up static identity map for 0x81c0 - 0x81f8
[ 0.002625] devtmpfs: initialized
[ 0.009614] VFP support v0.3: implementor 41 architecture 2 part 30
variant 7 rev 5
[ 0.009870] clocksource: jiffies: mask: 0xffffffff max_cycles:
0xffffffff, max_idle_ns: 19112604462750000 ns
[ 0.009898] futex hash table entries: 16 (order: -5, 192 bytes,
linear)
[ 0.009986] pinctrl core: initialized pinctrl subsystem
[ 0.011240] NET: Registered protocol family 16
[ 0.011712] DMA: failed to allocate 0 KiB pool for atomic coherent
allocation
[ 0.012306] Registered FIQ tty driver
[ 0.012653] thermal_sys: Registered thermal governor 'step_wise'
[ 0.012660] thermal_sys: Registered thermal governor 'user_space'
[ 0.012896] cpuidle: using governor menu
[ 0.026786] rockchip-gpio ff380000.gpio: probed /pinctrl/gpio@ff380000
[ 0.027631] rockchip-gpio ff530000.gpio: probed /pinctrl/gpio@ff530000
[ 0.028426] rockchip-gpio ff550000.gpio: probed /pinctrl/gpio@ff550000
[ 0.029129] rockchip-gpio ff560000.gpio: probed /pinctrl/gpio@ff560000
[ 0.029235] rockchip-pinctrl pinctrl: probed pinctrl
[ 0.039179] fiq_debugger fiq_debugger.0: IRQ uart_irq not found
[ 0.039206] fiq_debugger fiq_debugger.0: IRQ wakeup not found
[ 0.039506] printk: console [ttyFIQ0] enabled
[ 0.039723] Registered fiq debugger ttyFIQ0
[ 0.041892] SCSI subsystem initialized
[ 0.042135] usbcore: registered new interface driver usbfs
[ 0.042187] usbcore: registered new interface driver hub
[ 0.042240] usbcore: registered new device driver usb
[ 0.042500] mc: Linux media interface: v0.10
[ 0.042545] videodev: Linux video capture interface: v2.00
[ 0.043763] Advanced Linux Sound Architecture Driver Initialized.
[ 0.044581] rockchip-cpuinfo cpuinfo: SoC : 11031000
[ 0.044607] rockchip-cpuinfo cpuinfo: Serial :
4e1fc7b3eaaf084c
[ 0.045029] rockchip,rknpwr-powergood ff000000.syscon:rknpwr-
powergood: probe success!
[ 0.045890] clocksource: Switched to clocksource arch_sys_counter
[ 0.052641] NET: Registered protocol family 2
[ 0.052891] IP idents hash table entries: 2048 (order: 2, 16384 bytes,
linear)
[ 0.053338] tcp_listen_portaddr_hash hash table entries: 512 (order:
0, 4096 bytes, linear)
[ 0.053370] TCP established hash table entries: 1024 (order: 0, 4096
bytes, linear)
[ 0.053388] TCP bind hash table entries: 1024 (order: 0, 4096 bytes,
linear)
[ 0.053405] TCP: Hash tables configured (established 1024 bind 1024)
[ 0.053513] UDP hash table entries: 256 (order: 0, 4096 bytes, linear)
[ 0.053537] UDP-Lite hash table entries: 256 (order: 0, 4096 bytes,
linear)
[ 0.053678] NET: Registered protocol family 1
[ 0.054358] RPC: Registered named UNIX socket transport module.
[ 0.054386] RPC: Registered udp transport module.

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[    0.054394] RPC: Registered tcp transport module.
[    0.054400] RPC: Registered tcp NFSv4.1 backchannel transport module.
[    0.055482] rockchip-thermal ff3c8000.tsadc: tsadc is probed
successfully!
[    0.056685] Initialise system trusted keyrings
[    0.057017] workingset: timestamp_bits=30 max_order=14 bucket_order=0
[    0.060756] squashfs: version 4.0 (2009/01/31) Phillip Lougher
[    0.061601] NFS: Registering the id_resolver key type
[    0.061674] Key type id_resolver registered
[    0.061682] Key type id_legacy registered
[    0.061731] jffs2: version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
[    0.062234] Key type asymmetric registered
[    0.062258] Asymmetric key parser 'x509' registered
[    0.062285] io scheduler mq-deadline registered
[    0.062719] rockchip-usb2phy ff3e0000.usb2-phy: IRQ index 0 not found
[    0.067755] dma-pl330 ff420000.dma-controller: Loaded driver for PL330
DMAC-241330
[    0.067794] dma-pl330 ff420000.dma-controller:          DBUFF-128x8bytes
Num_Chans-8 Num_Peri-32 Num_Events-16
[    0.068664] rockchip-pvtm ff240000.pvtm: pvtm@0 probed
[    0.068868] rockchip-pvtm ff390000.pvtm: pvtm@0 probed
[    0.069188] rockchip-system-monitor rockchip-system-monitor: system
monitor probe
[    0.069759] Serial: 8250/16550 driver, 6 ports, IRQ sharing disabled
Seeding 256 bits and crediting
[    0.075595] random: crng init done
Saving 256 bits of creditable seed for next boot
[    0.084674] brd: module loaded
Starting syslogd: OK
[    0.090714] loop: module loaded
[    0.092981] spi-nand spi2.0: Winbond SPI NAND was found.
Starting klogd: [    0.093008] spi-nand spi2.0: 128 MiB, block size: 128
KiB, page size: 2048, OOB size: 64
OK
[    0.094249] 7 cmdlinepart partitions found on MTD device spi-nand0
[    0.094266] Creating 7 MTD partitions on "spi-nand0":
[    0.094282] 0x0000000000000-0x0000000040000 : "env"
[    0.096257] 0x0000000040000-0x0000000080000 : "idblock"
Running sysctl: [    0.098133] 0x0000000080000-0x0000000100000 : "uboot"
[    0.100094] 0x0000000100000-0x0000000500000 : "boot"
[    0.101941] 0x0000000500000-0x0000002300000 : "oem"
[    0.103942] 0x0000002300000-0x0000002900000 : "userdata"
[    0.105974] 0x0000002900000-0x0000007e00000 : "rootfs"
[    0.109421] rk_gmac-dwmac ffa80000.ethernet: IRQ eth_lpi not found
[    0.109618] rk_gmac-dwmac ffa80000.ethernet: PTP uses main clock
[    0.109669] rk_gmac-dwmac ffa80000.ethernet: no regulator found
[    0.109682] rk_gmac-dwmac ffa80000.ethernet: clock input or output?
(input).
[    0.109693] rk_gmac-dwmac ffa80000.ethernet: Can not read property:
tx_delay.
OK
[    0.109704] rk_gmac-dwmac ffa80000.ethernet: set tx_delay to
0xffffffff

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Populating /dev using udev: [ 0.109716] rk_gmac-dwmac
ffa80000.ethernet: Can not read property: rx_delay.
[ 0.109725] rk_gmac-dwmac ffa80000.ethernet: set rx_delay to
0xffffffff
[ 0.109803] rk_gmac-dwmac ffa80000.ethernet: integrated PHY? (yes).
[ 0.109822] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_rx
[ 0.109834] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
mac_clk_tx
[ 0.109869] rk_gmac-dwmac ffa80000.ethernet: cannot get clock
clk_mac_speed
[ 0.109878] rk_gmac-dwmac ffa80000.ethernet: clock input from PHY
[ 0.110122] rk_gmac-dwmac ffa80000.ethernet: init for RMII
[ 0.110361] rk_gmac-dwmac ffa80000.ethernet: User ID: 0x30, Synopsys
ID: 0x51
[ 0.110384] rk_gmac-dwmac ffa80000.ethernet: DWMAC4/5
[ 0.110398] rk_gmac-dwmac ffa80000.ethernet: DMA HW capability
register supported
[ 0.110407] rk_gmac-dwmac ffa80000.ethernet: RX Checksum Offload
Engine supported
[ 0.110415] rk_gmac-dwmac ffa80000.ethernet: TX Checksum insertion
supported
[ 0.110423] rk_gmac-dwmac ffa80000.ethernet: Wake-Up On Lan supported
[ 0.110430] rk_gmac-dwmac ffa80000.ethernet: TSO supported
[ 0.110438] rk_gmac-dwmac ffa80000.ethernet: Enable RX Mitigation via
HW Watchdog Timer
[ 0.110446] rk_gmac-dwmac ffa80000.ethernet: TSO feature enabled
[ 0.110459] rk_gmac-dwmac ffa80000.ethernet: Using 40 bits DMA width
[ 0.118125] ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
[ 0.118484] usbcore: registered new interface driver usb-storage
[ 0.118676] gadgetfs: USB Gadget filesystem, version 24 Aug 2004
[ 0.118728] Mass Storage Function, version: 2009/09/11
[ 0.118743] LUN: removable file: (no medium)
[ 0.118774] no file given for LUN0
[ 0.118808] udc ffb00000.usb: failed to start g_mass_storage: -22
[ 0.119366] i2c /dev entries driver
[ 0.120964] i2c i2c-4: 1 i2c clients have been registered at 0x30
[ 0.121379] i2c i2c-4: 2 i2c clients have been registered at 0x30
[ 0.122422] usbcore: registered new interface driver uvcvideo
[ 0.122439] USB Video Class driver (1.1.1)
[ 0.123202] cpu cpu0: leakage=18
[ 0.123982] cpu cpu0: avs=0
[ 0.124151] cpu cpu0: opp calibration done
[ 0.124317] cpu cpu0: l=10000 h=2147483647 hyst=5000 l_limit=0
h_limit=0 h_table=0
[ 0.124800] Synopsys Designware Multimedia Card Interface Driver
[ 0.125714] dtbocfg: 0.1.0
[ 0.125768] dtbocfg: OK
[ 0.127362] dwmmc_rockchip ffaa0000.mmc: No normal pinctrl state
[ 0.127396] dwmmc_rockchip ffaa0000.mmc: No idle pinctrl state
[ 0.127650] dwmmc_rockchip ffaa0000.mmc: IDMAC supports 32-bit address
mode.
[ 0.127704] dwmmc_rockchip ffaa0000.mmc: Using internal DMA
controller.

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[ 0.127721] dwmmc_rockchip ffaa0000.mmc: Version ID is 270a
[ 0.127770] dwmmc_rockchip ffaa0000.mmc: DW MMC controller at irq
50,32 bit host data width,256 deep fifo
[ 0.129497] rv1106-acodec ff480000.acodec: current soc_id: rv1103
[ 0.129615] rv1106-acodec ff480000.acodec: Use pa_ctl_gpio and
pa_ctl_delay_ms: 0
[ 0.131442] NET: Registered protocol family 17
[ 0.131559] Key type dns_resolver registered
[ 0.132589] Loading compiled-in X.509 certificates
[ 0.149359] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000HZ div = 0)
[ 0.160997] input: adc-keys as /devices/platform/adc-keys/input/input0
[ 0.205436] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000HZ div = 0)
[ 0.205590] mmc1: new high speed SDHC card at address b368
[ 0.206665] mmcblk1: mmc1:b368 USD00 14.7 GiB
[ 0.237394] mmc_host mmc1: Bus speed (slot 0) = 400000Hz (slot req
400000Hz, actual 400000HZ div = 0)
[ 0.238833] ubi0: attaching mtd6
[ 0.281781] mmc_host mmc1: Bus speed (slot 0) = 49500000Hz (slot req
50000000Hz, actual 49500000HZ div = 0)
[ 0.282391] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.282672] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.282974] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283235] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283496] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.283759] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.284023] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.284289] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x0 phys_seg 1 prio class 0
[ 0.284308] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
[ 0.284360] mmcblk1: unable to read partition table
[ 0.411763] ubi0: scanning is finished
[ 0.416557] ubi0: attached mtd6 (name "rootfs", size 85 MiB)
[ 0.416584] ubi0: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
[ 0.416594] ubi0: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
[ 0.416603] ubi0: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 0.416611] ubi0: good PEBs: 680, bad PEBs: 0, corrupted PEBs: 0
[ 0.416620] ubi0: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 0.416630] ubi0: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 1876574052
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[ 0.416641] ubi0: available PEBs: 0, total reserved PEBs: 680, PEBs
reserved for bad PEB handling: 20
[ 0.417862] ALSA device list:
[ 0.417885] #0: rv-acodec
[ 0.418674] ubi0: background thread "ubi_bgt0d" started, PID 57
[ 0.418779] UBIFS (ubi0:0): Mounting in unauthenticated mode
[ 0.435393] UBIFS (ubi0:0): recovery needed
[ 0.457494] UBIFS (ubi0:0): recovery deferred
[ 0.457631] UBIFS (ubi0:0): UBIFS: mounted UBI device 0, volume 0,
name "rootfs", R/O mode
[ 0.457646] UBIFS (ubi0:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 0.457660] UBIFS (ubi0:0): FS size: 81899520 bytes (78 MiB, 645
LEBs), journal size 9023488 bytes (8 MiB, 72 LEBs)
[ 0.457670] UBIFS (ubi0:0): reserved for root: 0 bytes (0 KiB)
[ 0.457683] UBIFS (ubi0:0): media format: w4/r0 (latest is w5/r0),
UUID 26AD6950-D70C-4D0F-86B8-A8311CC31DDD, small LPT model
[ 0.458130] VFS: Mounted root (ubifs filesystem) readonly on device
0:14.
[ 0.458960] devtmpfs: mounted
[ 0.459181] Freeing unused kernel memory: 196K
[ 0.459191] Kernel memory protection not selected by kernel config.
[ 0.459221] Run /sbin/init as init process
[ 0.466314] process '/bin/busybox' started with executable stack
[ 0.523923] UBIFS (ubi0:0): completing deferred recovery
[ 0.595852] UBIFS (ubi0:0): background thread "ubifs_bgt0_0" started,
PID 60
[ 0.601161] UBIFS (ubi0:0): deferred recovery completed
[ 0.834203] udevd[90]: starting version 3.2.7
[ 0.851369] udevd[90]: specified group 'input' unknown
[ 0.852375] udevd[90]: specified group 'kvm' unknown
[ 0.876199] udevd[91]: starting eudev-3.2.7
[ 1.277193] udevd[103]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd0ro': No such file or directory
[ 1.288992] udevd[104]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd1ro': No such file or directory
[ 1.300989] udevd[105]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd2ro': No such file or directory
[ 1.302302] blk_update_request: I/O error, dev mmcblk1, sector
30883712 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
[ 1.302598] blk_update_request: I/O error, dev mmcblk1, sector
30883713 op 0x0:(READ) flags 0x80700 phys_seg 1 prio class 0
[ 1.307055] Buffer I/O error on dev mmcblk1, logical block 3860464,
async page read
[ 1.320074] udevd[107]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd3ro': No such file or directory
[ 1.325743] udevd[108]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd4ro': No such file or directory
[ 1.338607] udevd[109]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd5ro': No such file or directory
[ 1.349889] udevd[110]: failed to execute '/lib/udev/mtd_probe'
'mtd_probe /dev/mtd6ro': No such file or directory
[ 1.360897] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
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[ 1.383892] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
done
/etc/init.d/S20linkmount info: mount point path [IGNORE] not found,
skip...
*****/dev/ubi4_0 not exist*****
*****/dev/ubi4 not exist*****
[ 1.783929] ubi4: attaching mtd4
[ 1.845334] ubi4: scanning is finished
[ 1.853915] ubi4: attached mtd4 (name "oem", size 30 MiB)
[ 1.853947] ubi4: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
UBI device number 4, total 240 LEBs (30474240 bytes, 29.1 MiB), available
0 LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)
[ 1.853958] ubi4: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
try to make volume: /dev/ubi4_0 ...
[ 1.853968] ubi4: VID header offset: 2048 (aligned 2048), data offset:
4096
ubimkvol: error!: bad volume size: "0"
[ 1.853976] ubi4: good PEBs: 240, bad PEBs: 0, corrupted PEBs: 0
[ 1.853986] ubi4: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 1.853996] ubi4: max/mean erase counter: 2/0, WL threshold: 4096,
image sequence number: 945929064
[ 1.854006] ubi4: available PEBs: 0, total reserved PEBs: 240, PEBs
reserved for bad PEB handling: 20
[ 1.855285] ubi4: background thread "ubi_bgt4d" started, PID 131
[ 1.882767] UBIFS (ubi4:0): Mounting in unauthenticated mode
[ 1.883031] UBIFS (ubi4:0): background thread "ubifs_bgt4_0" started,
PID 136
[ 1.900126] UBIFS (ubi4:0): recovery needed
[ 1.990923] UBIFS (ubi4:0): recovery completed
[ 1.991058] UBIFS (ubi4:0): UBIFS: mounted UBI device 4, volume 0,
name "oem"
[ 1.991076] UBIFS (ubi4:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 1.991089] UBIFS (ubi4:0): FS size: 26157056 bytes (24 MiB, 206
LEBs), journal size 4190208 bytes (3 MiB, 33 LEBs)
[ 1.991098] UBIFS (ubi4:0): reserved for root: 0 bytes (0 KiB)
[ 1.991112] UBIFS (ubi4:0): media format: w4/r0 (latest is w5/r0),
UUID 8FC2EA09-D438-4216-AF2A-FF831D373CD3, small LPT model
*****/dev/ubi5_0 not exist*****
[ 2.032002] ubi5: attaching mtd5
*****/dev/ubi5 not exist*****
[ 2.044681] ubi5: scanning is finished
[ 2.053180] ubi5: attached mtd5 (name "userdata", size 6 MiB)
UBI device number 5, total 48 LEBs (6094848 bytes, 5.8 MiB), available 0
LEBs (0 bytes), LEB size 126976 bytes (124.0 KiB)
[ 2.053207] ubi5: PEB size: 131072 bytes (128 KiB), LEB size: 126976
bytes
try to make volume: /dev/ubi5_0 ...
[ 2.053218] ubi5: min./max. I/O unit sizes: 2048/2048, sub-page size
2048
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ubimkvol: error!: bad volume size: "0"
[ 2.053229] ubi5: VID header offset: 2048 (aligned 2048), data offset:
4096
[ 2.053237] ubi5: good PEBs: 48, bad PEBs: 0, corrupted PEBs: 0
[ 2.053247] ubi5: user volume: 1, internal volumes: 1, max. volumes
count: 128
[ 2.053257] ubi5: max/mean erase counter: 2/1, WL threshold: 4096,
image sequence number: 12643680
[ 2.053268] ubi5: available PEBs: 0, total reserved PEBs: 48, PEBs
reserved for bad PEB handling: 20
[ 2.055485] ubi5: background thread "ubi_bgt5d" started, PID 145
[ 2.076155] UBIFS (ubi5:0): Mounting in unauthenticated mode
[ 2.076442] UBIFS (ubi5:0): background thread "ubifs_bgt5_0" started,
PID 150
[ 2.093409] UBIFS (ubi5:0): recovery needed
Initializing random number generator... [ 2.133051] UBIFS (ubi5:0):
recovery completed
[ 2.133181] UBIFS (ubi5:0): UBIFS: mounted UBI device 5, volume 0,
name "userdata"
done.
[ 2.133196] UBIFS (ubi5:0): LEB size: 126976 bytes (124 KiB),
min./max. I/O unit sizes: 2048 bytes/2048 bytes
[ 2.133210] UBIFS (ubi5:0): FS size: 1777664 bytes (1 MiB, 14 LEBs),
journal size 1142785 bytes (1 MiB, 9 LEBs)
[ 2.133220] UBIFS (ubi5:0): reserved for root: 0 bytes (0 KiB)
[ 2.133235] UBIFS (ubi5:0): media format: w4/r0 (latest is w5/r0),
UUID 202FDC30-DB3B-4471-AE13-FE1BED340D24, small LPT model
/dev/ubi5_0 on /userdata type ubifs (rw,relatime,assert=read-
only,ubi=5,vol=0)
Starting network: [ 2.271766] rk_dvbm ffa70000.rkdvbm: probe start
[ 2.271815] rk_dvbm ffa70000.rkdvbm: dvbm ctx 8d782708
[ 2.272388] rk_dvbm ffa70000.rkdvbm: probe success
[ 2.298058] sc3336 4-0030: driver version: 00.01.01
[ 2.298149] sc3336 4-0030: Failed to get reset-gpios
[ 2.298210] sc3336 4-0030: could not get default pinstat
OK
[ 2.298219] sc3336 4-0030: could not get sleep pinstat
[ 2.298248] sc3336 4-0030: supply avdd not found, using dummy
regulator
Starting ntpd: [ 2.298506] sc3336 4-0030: supply dovdd not found,
using dummy regulator
[ 2.298608] sc3336 4-0030: supply dvdd not found, using dummy
regulator
[ 2.316777] sc3336 4-0030: Unexpected sensor id(000000), ret(-5)
[ 2.391040] rkcihw ffa10000.rkcif: no iommu attached, using non-iommu
buffers
[ 2.391079] rkcihw ffa10000.rkcif: No reserved memory region assign
to CIF
[ 2.391525] rkcihw rkcihw-mipi-lvds: rkcihw driver version: v00.02.00
[ 2.391656] rkcihw rkcihw-mipi-lvds: attach to cif hw node
[ 2.391670] rkcihw rkcihw-mipi-lvds: failed to get dphy hw node
[ 2.391679] rkcihw rkcihw-mipi-lvds: rkcihw wait line 0
[ 2.391689] rkcihw rkcihw-mipi-lvds: rkcihw fastboot reserve bufs num 3
[ 2.391704] : terminal subdev does not exist
```



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[ 2.391715] : terminal subdev does not exist
[ 2.391723] : terminal subdev does not exist
[ 2.391731] : terminal subdev does not exist
[ 2.391743] : get_remote_sensor: video pad[0] is null
[ 2.391753] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.391765] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.391774] : get_remote_sensor: video pad[0] is null
[ 2.391781] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.391791] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.391799] : get_remote_sensor: video pad[0] is null
[ 2.391807] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.391815] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.391823] : get_remote_sensor: video pad[0] is null
[ 2.391831] : rkCIF_update_sensor_info: stream[0] get remote sensor_sd
failed!
[ 2.391839] : rkCIF_scale_set_fmt: req(80, 60) src out(0, 0)
[ 2.406742] rkCIF rkCIF-mipi-lvds: No memory-region-thunderboot
specified
[ 2.408032] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.408237] rockchip-mipi-csi2-hw ffa20000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.408391] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: enter mipi
csi2 hw probe!
[ 2.408524] rockchip-mipi-csi2-hw ffa30000.mipi-csi2-hw: probe
success, v4l2_dev:mipi-csi2-hw!
[ 2.409044] rockchip-mipi-csi2 mipi0-csi2: attach to csi2 hw node
[ 2.409116] rkCIF rkCIF-mipi-lvds: Entity type for entity rockchip-
mipi-csi2 was not initialized!
[ 2.409138] rockchip-mipi-csi2: Async registered subdev
[ 2.409146] rockchip-mipi-csi2: probe success, v4l2_dev:rkCIF-mipi-
lvds!
[ 2.475155] rkisp_hw ffa00000.rkisp: is_thunderboot: 0
[ 2.475188] rkisp_hw ffa00000.rkisp: Missing rockchip,grf property
[ 2.475239] rkisp_hw ffa00000.rkisp: max input:0x0@0fps
[ 2.475424] rkisp_hw ffa00000.rkisp: get sram size:253952
[ 2.475442] rkisp_hw ffa00000.rkisp: no iommu attached, using non-
iommu buffers
[ 2.475454] rkisp_hw ffa00000.rkisp: No reserved memory region.
default cma area!
[ 2.475872] rkisp rkisp-vir0: rkisp driver version: v02.05.00
[ 2.476099] rkisp rkisp-vir0: No memory-region-thunderboot specified
[ 2.478303] rkisp rkisp-vir0: Entity type for entity rkisp-isp-subdev
was not initialized!
[ 2.509840] rockchip-csi2-dphy-hw ff3e8000.csi2-dphy-hw: csi2 dphy hw
probe successfully!
0
[ 2.527321] rockchip-csi2-dphy csi2-dphy0: csi2 dphy0 probe
successfully!
0
[ 2.847631] rkCIF rkCIF-mipi-lvds: clear unready subdev num: 3

```

```
[ 2.848961] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.848988] rkCIF-mipi-lvds: Async subdev notifier completed
[ 2.849011] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.849021] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.849062] rkCIF-mipi-lvds: rkCIF_update_sensor_info: stream[0] get
remote terminal sensor failed!
[ 2.849069] rkCIF-mipi-lvds: There is not terminal subdev, not
synchronized with ISP
[ 2.849827] rkisp rkisp-vir0: clear unready subdev num: 1
[ 2.850173] rkisp-vir0: Async subdev notifier completed
[ 2.891323] rga: rga2, irq = 36, match scheduler
[ 2.894309] rga: rga2 hardware loaded successfully,
hw_version:3.3.87975.
[ 2.894340] rga: rga2 probe successfully
[ 2.894673] rga_iommu: IOMMU binding successfully, default mapping
core[0x4]
OK
[ 2.895983] rga: Module initialized. v1.3.1
[ 3.008618] mpp_vcodec: loading out-of-tree module taints kernel.
[ 3.024689] mpp_vcodec: init new
[ 3.024878] mpp_service mpp-srv: 424abb9b author: Yandong Lin 2024-04-
29 [mpp_enc]: fix wrap enc sw timeout when resolution switch
[ 3.024895] mpp_service mpp-srv: probe start
[ 3.028175] mpp_rkvenc_540c ffa50000.rkvenc: probing start
[ 3.028461] mpp_rkvenc_540c ffa50000.rkvenc: probing finish
[ 3.028972] mpp_vepu_pp ffa60000.rkvenc-pp: probe device
[ 3.029095] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_a_pp is not
found!
[ 3.029107] veipu_pp_init:526: No aclk reset resource define
[ 3.029118] mpp_vepu_pp ffa60000.rkvenc-pp: shared_rst_h_pp is not
found!
Input (null) Format:SRGB8_1X8 Size:800x600@4fps Offset(0,0)
[ 3.029126] veipu_pp_init:529: No hclk reset resource define
[ 3.030913] mpp_vepu_pp ffa60000.rkvenc-pp: probing finish
[ 3.031234] mpp_service mpp-srv: probe success
[ 3.060263] RKNPU ff660000.npu: RKNPU: rknpu iommu device-tree entry
not found!, using non-iommu mode
Starting sshd: [ 3.060889] RKNPU ff660000.npu: RKNPU: Initialized
RKNPU driver: v0.9.2 for 20230825
[ 3.061018] RKNPU ff660000.npu: dev_pm_opp_set_regulators: no
regulator (rknpu) found: -19
[ 3.144348] rookit_load start
[ 3.167140] rookit_load end
[ 3.190342] rve: rve_irq, irq = 52, match scheduler
[ 3.190965] rve: Driver loaded successfully rve[2] ver:[2021]58.1a
[ 3.190987] rve: probe successfully
[ 3.192634] rve: Module initialized. v1.0.6
/
ln: /oem/usr/www/userdata: No such file or directory
ln: /oem/usr/www/usb0: No such file or directory
ln: /oem/usr/www/sdcard: No such file or directory
```

```
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
Error: not found rkipc.ini !!!
/oem/usr/bin/RkLunch.sh: exit: line 107: Illegal number: -1
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/usb/devices/*/uevent': No such file or
directory
cat: can't open '/sys/bus/sdio/devices/*/uevent': No such file or
directory
OK
Starting telnetd: OK
[ 3.550955] rk_gmac-dwmac ffa80000.ethernet eth0: PHY [stmmac-0:02]
driver [RK630 PHY] (irq=POLL)
[ 3.551354] dwmac4: Master AXI performs any burst length
[ 3.551381] rk_gmac-dwmac ffa80000.ethernet eth0: No Safety Features
support found
[ 3.551405] rk_gmac-dwmac ffa80000.ethernet eth0: PTP not supported by
HW
[ 3.551757] rk_gmac-dwmac ffa80000.ethernet eth0: configuring for
phy/rmii link mode
/etc/init.d/S50usbdevice: line 144: can't open : no such file
Debug: configfs_init
wlan0 not found. Stop run rkwifi_server.
[ 3.850310] file system registered
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/mtp.gs0': No such file
or directory
[ 3.918556] using random self ethernet address
[ 3.918587] using random host ethernet address
mkdir: can't create directory
'/sys/kernel/config/usb_gadget/rockchip/functions/acm.gs6': No such file
or directory
[ 3.932645] Mass Storage Function, version: 2009/09/11
[ 3.932679] LUN: removable file: (no medium)
[ 4.010535] read descriptors
[ 4.010750] read strings
[ 5.009660] usb0: HOST MAC 9a:e7:dd:d3:ac:ec
[ 5.009699] usb0: MAC c6:af:aa:6c:96:f5
[ 5.120874] dwc3 ffb00000.usb: device reset
[ 5.221845] android_work: sent uevent USB_STATE=CONNECTED
[ 5.297848] android_work: sent uevent USB_STATE=CONFIGURED
[ 5.606949] rk_gmac-dwmac ffa80000.ethernet eth0: Link is Up -
100Mbps/Full - flow control rx/tx
/usr/bin/luckfox-config: line 234: warning: command substitution: ignored
null byte in input
```

```
Only Luckfox Pico Ultra /Luckfox Pico Ultra W support RGB
Complete configuration loading
/root/main.py and /root/boot.py not exist ,pass...
OK
hwclock: can't open '/dev/misc/rtc': No such file or directory
RTC does not require time calibration
current_ip = 172.32.0.70
TARGET_IP = 172.32.0.93
luckfox : set usb0 ip
172.32.0.93
usb0 config success
```

```
Welcome to luckfox pico
luckfox login: root
Password:
[root@luckfox root]# lsblk
-sh: lsblk: not found
[root@luckfox root]# ls /dev/mmcblk*
/dev/mmcblk1
[root@luckfox root]# fdisk -l /dev/mmcblk1
[ 133.126693] print_req_error: 62 callbacks suppressed
[ 133.126705] blk_update_request: I/O error, dev mmcblk1, sector 0 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.126962] blk_update_request: I/O error, dev mmcblk1, sector 1 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.127196] blk_update_request: I/O error, dev mmcblk1, sector 2 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.127424] blk_update_request: I/O error, dev mmcblk1, sector 3 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.127649] blk_update_request: I/O error, dev mmcblk1, sector 4 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.127874] blk_update_request: I/O error, dev mmcblk1, sector 5 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.128096] blk_update_request: I/O error, dev mmcblk1, sector 6 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.128318] blk_update_request: I/O error, dev mmcblk1, sector 7 op
0x0:(READ) flags 0x80700 phys_seg 4 prio class 0
[ 133.128539] blk_update_request: I/O error, dev mmcblk1, sector 8 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 133.128761] blk_update_request: I/O error, dev mmcblk1, sector 9 op
0x0:(READ) flags 0x80700 phys_seg 3 prio class 0
[ 133.493762] Buffer I/O error on dev mmcblk1, logical block 0, async
page read
fdisk: can't open '/dev/mmcblk1': Input/output error
[root@luckfox root]#
```