

GXL:BL1:9ac50e:a1974b;FEAT:ADFC31AC;POC:3;RCY:0;EMMC:800;NAND:81;SD:0;READ:0;0.0
;CHK:0;

no sdio debug board detected

TE: 222841

BL2 Built : 14:59:36, Aug 9 2017.

gxl ge8c6a83 - xiaobo.gu@droid12

set vcck to 1120 mv

set vddee to 1000 mv

Board ID = 2

CPU clk: 1200MHz

DQS-corr enabled

DDR scramble enabled

DDR3 chl: Rank0+1 @ 768MHz - FAIL

DDR3 chl: Rank0 @ 768MHz - FAIL

DDR3 chl: Rank0 16bit @ 768MHz - PASS

Rank0: 1024MB(auto)-2T-11

DataBus test pass!

AddrBus test pass!

Load fip header from SD, src: 0x0000c200, des: 0x01400000, size: 0x00004000

New fip structure!

Load bl30 from SD, src: 0x00010200, des: 0x01100000, size: 0x0000d600

Load bl31 from SD, src: 0x00020200, des: 0x05100000, size: 0x0002c600

Load bl33 from SD, src: 0x00050200, des: 0x01000000, size: 0x000a0c00

NOTICE: BL3-1: v1.0(release):801e730

NOTICE: BL3-1: Built : 22:09:38, Aug 10 2017

[BL31]: GXL CPU setup!

mpu_config_enable:ok

[Image: gxl_v1.1.3244-a3237e2 2017-08-16 14:01:18 hong.guo@droid04]

OPS=0xa2

cd 87 3d 41 d9 27 0 2d f1 b5 6d d2 [0.846261 Inits done]

secure task start!

high task start!

low task start!

ERROR: Error initializing runtime service opteed_fast

<debug_uart>

U-Boot 2025.07 (Aug 14 2025 - 04:14:03 +0000) khadas-vim

Model: Khadas VIM

SoC: Amlogic Meson GXL (S905W) Revision 21:b (a2:2)

DRAM: 2 GiB (total 1 GiB)

Core: 178 devices, 28 uclasses, devicetree: separate

MMC: mmc@70000: 0, mmc@72000: 1, mmc@74000: 2

Loading Environment from nowhere... OK

In: serial

Out: serial

Err: serial

[BL31]: tee size: 0

[BL31]: tee size: 0

Net: eth0: ethernet@c9410000

Hit any key to stop autoboot: 0

Card did not respond to voltage select! : -110

switch to partitions #0, OK

mmc1 is current device

Scanning mmc 1:1...

Found /extlinux/extlinux.conf

Retrieving file: /extlinux/extlinux.conf

1: LibreELEC

Retrieving file: /KERNEL

append: boot=LABEL=LIBREELEC disk=LABEL=STORAGE quiet systemd.debug_shell=ttyAML
0 console=ttyAML0,115200n8 console=tty0

Retrieving file: /amlogic/meson-gxl-s905x-p212.dtb

Booting kernel from Legacy Image at 08080000 ...

Image Name:

Image Type: AArch64 Linux Kernel Image (lzo compressed)

Data Size: 13192986 Bytes = 12.6 MiB

Load Address: 01d80000

Entry Point: 01d80000

Verifying Checksum ... OK

Flattened Device Tree blob at 08008000

Booting using the fdt blob at 0x8008000

Working FDT set to 8008000

Uncompressing Kernel Image to 1d80000

Moving Image from 0x1d80000 to 0x1e00000, end=0x3ad0000

Loading Device Tree to 000000003cf48000, end 000000003cf54d90 ... OK

Working FDT set to 3cf48000

Starting kernel ...

[0.000000] OF: reserved mem: failed to allocate memory for node 'linux,cma':
size 896 MiB

[BL31]: tee size: 0

domain-0 init dvfs: 4

[0.321322] Unable to handle kernel paging request at virtual address fffa9c
9fa2e5698

[0.323662] Mem abort info:

[0.326417] ESR = 0x0000000086000006

[0.330125] EC = 0x21: IABT (current EL), IL = 32 bits

[0.335386] SET = 0, FnV = 0

[0.338405] EA = 0, S1PTW = 0

[0.341510] FSC = 0x06: level 2 translation fault

[0.346341] swapper pgtable: 4k pages, 48-bit VAs, pgdp=000000002fa5000

[0.352982] [ffa9c9fa2e5698] pgd=100000003abc003, p4d=100000003abc003, pu
d=100000003abd003, pmd=0000000000000000

[0.363506] Internal error: Oops: 0000000086000006 [#1] SMP

[0.369111] Modules linked in:

[0.372132] CPU: 1 UID: 0 PID: 52 Comm: kworker/1:1 Not tainted 6.16.0-rc3 #1
VOLUNTARY

[0.380151] Hardware name: Amlogic Meson GXL (S905X) P212 Development Board (
DT)

[0.387484] Workqueue: events dbs_work_handler

[0.391881] pstate: 600000c5 (nZCv daIf -PAN -UAO -TCO -DIT -SSBS BTYPE=--)

[0.398780] pc : 0xfffffa9c9fa2e569c

[0.402230] lr : tx_tick+0x20/0xa4

[0.405594] sp : ffff80008000bde0

[0.408871] x29: ffff80008000bde0 x28: ffff00003fd8e0c0 x27: ffff00003fd8e080

[0.415943] x26: 00000000000000c0 x25: 0000000000000000 x24: ffff000004dfebe8

[0.423016] x23: 0000000000000000 x22: ffff000004dfebb8 x21: 00000000000001f0

[0.430088] x20: 0000000000000000 x19: ffff000004dfeac0 x18: 0000000000000001
[0.437161] x17: ffff563646a1a000 x16: ffff800080008000 x15: ffff00003fd93d00
[0.444233] x14: 00000000f85d59c8 x13: 00000000000002da x12: 000000000f3c2074
[0.451306] x11: 0000000000000000 x10: 00000000000008f0 x9 : ffff80008023b960
[0.458378] x8 : 0000000000800000 x7 : 0000000000000000 x6 : 00000000029f9c8f
[0.465451] x5 : 0000000000000000 x4 : ffff00003fd8e618 x3 : ffff000004dfebe8
[0.472523] x2 : ffff00003fd8e618 x1 : 0000000000000000 x0 : ffff000004dfeba8
[0.479597] Call trace:
[0.482012] 0xfffffa9c9fa2e569c (P)
[0.485461] tx_tick+0x20/0xa4
[0.488480] txdone_hrtimer+0x8c/0x164
[0.492189] __hrtimer_run_queues+0x104/0x21c
[0.496501] hrtimer_interrupt+0x104/0x31c
[0.500555] arch_timer_handler_phys+0x28/0x3c
[0.504954] handle_percpu_devid_irq+0x7c/0x118
[0.509439] handle_irq_desc+0x3c/0x50
[0.513147] generic_handle_domain_irq+0x18/0x20
[0.517719] gic_handle_irq+0x54/0x80
[0.521341] call_on_irq_stack+0x24/0x34
[0.525223] do_interrupt_handler+0x78/0x7c
[0.529362] el1_interrupt+0x40/0x8c
[0.532899] el1h_64_irq_handler+0x14/0x1c
[0.536952] el1h_64_irq+0x80/0x84
[0.540317] __schedule+0x0/0x7b4 (P)
[0.543939] schedule_timeout+0x70/0xe4
[0.547734] __wait_for_common+0xd4/0x26c
[0.551701] wait_for_completion_timeout+0x1c/0x24

[0.556445] mbox_send_message+0xb0/0x130

[0.560412] scpi_send_message+0x110/0x25c

[0.564466] scpi_dvfs_get_idx+0x38/0x68

[0.568347] scpi_dvfs_recalc_rate+0x20/0x50

[0.572574] clk_recalc+0x34/0x98

[0.575851] clk_change_rate+0x174/0x28c

[0.579732] clk_core_set_rate_nolock+0x1d0/0x290

[0.584390] clk_set_rate+0x34/0x144

[0.587926] scpi_cpufreq_set_target+0x34/0x70

[0.592325] __cpufreq_driver_target+0x1d0/0x344

[0.596896] od_dbs_update+0x13c/0x19c

[0.600605] dbs_work_handler+0x3c/0x74

[0.604400] process_one_work+0x13c/0x2cc

[0.608367] worker_thread+0x288/0x43c

[0.612076] kthread+0xf4/0x1a8

[0.615181] ret_from_fork+0x10/0x20

[0.618728] Code: ???????? ???????? ???????? ???????? (?????????)

[0.624760] ---[end trace 0000000000000000]---

[0.629328] Kernel panic - not syncing: Oops: Fatal exception in interrupt

[0.636141] SMP: stopping secondary CPUs

[0.640028] Kernel Offset: 0x29c977c00000 from 0xffff800080000000

[0.646059] PHYS_OFFSET: 0x0

[0.648905] CPU features: 0x0000,00002400,02000000,0400400b

[0.654425] Memory Limit: none

[0.657449] ---[end Kernel panic - not syncing: Oops: Fatal exception in interrupt]---