Kernel Log

```
ubi: available PEBs: 0, total reserved PEBs: 1020, PEBs reserved for bad PEB handling: 36
ubi1: background thread "ubi_bgt1d" started, PID 720
UBIFS (ubi1:0): background thread "ubifs_bgt1_0" started, PID 723
UBIFS (ubi1:0): recovery needed
UBIFS (ubi1:0): recovery completed
UBIFS (ubi1:0): UBIFS: mounted UBI device 1, volume 0, name "reserve1"
UBIFS (ubi1:0): LEB size: 126976 bytes (124 KiB), min./max. I/O unit sizes: 2048 bytes/2048 bytes
UBIFS (ubi1:0): FS size: 123039744 bytes (117 MiB, 969 LEBs), journal size 6221824 bytes (5 MiB, 49 LEBs)
UBIFS (ubi1:0): reserved for root: 4952683 bytes (4836 KiB)
UBIFS (ubi1:0): media format: w4/r0 (latest is w4/r0), UUID 1AF6F1E1-61F0-462C-AE44-C7D9596CF7E2, small LPT model
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
macb e000b000.ethernet eth0: unable to generate target frequency: 25000000 Hz
macb e000b000.ethernet eth0: link up (100/Full)
IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
In axi fpga driver!
request_mem_region OK!
AXI fpga dev virtual address is 0xcfb38000
*base_vir_addr = 0xb023
In fpga mem driver!
request_mem_region OK!
fpga mem virtual address is 0xd2000000
random: nonblocking pool is initialized
2024-03-22 21:05:11 driver-btm-api.c:779:init_freq_mode: This is scan-user version
2024-03-22 21:05:11 driver-btm-api.c:2451:bitmain_soc_init: opt_multi_version     = 1
2024-03-22 21:05:11 driver-btm-api.c:2452:bitmain_soc_init: opt_bitmain_ab        = 1
2024-03-22 21:05:11 driver-btm-api.c:2453:bitmain_soc_init: opt_bitmain_work_mode = 0
2024-03-22 21:05:11 driver-btm-api.c:2454:bitmain_soc_init: Miner compile time: Tue Jun  2 10:31:07 CST 2020 type: Antminer S17+
2024-03-22 21:05:11 driver-btm-api.c:2455:bitmain_soc_init: commit version: 1ca50a5 2020-06-01 18:51:22, build by: lol 2020-06-02 10:37:21
2024-03-22 21:05:11 driver-btm-api.c:2083:show_sn: len:16, 806244c42b10481c
2024-03-22 21:05:11 driver-btm-api.c:2461:bitmain_soc_init: show sn return 1
2024-03-22 21:05:11 driver-btm-api.c:2103:handle_sn_for_factory_mode: show sn return 1
2024-03-22 21:05:11 driver-btm-api.c:2141:handle_sn_for_factory_mode: read sn success, 806244c42b10481c
2024-03-22 21:05:11 fan.c:284:front_fan_power_on: Note: front fan is power on!
2024-03-22 21:05:11 fan.c:296:rear_fan_power_on: Note: rear fan is power on!
2024-03-22 21:05:11 driver-btm-api.c:1314:miner_device_init: Detect 256MB control board of XILINX
2024-03-22 21:05:11 driver-btm-api.c:1255:init_fan_parameter: fan_eft : 0  fan_pwm : 0
2024-03-22 21:05:17 driver-btm-api.c:1239:init_miner_version: miner ID : 806244c42b10481c
2024-03-22 21:05:17 driver-btm-api.c:1245:init_miner_version: FPGA Version = 0xB023
2024-03-22 21:05:22 driver-btm-api.c:837:get_product_id: product_id[0] = 0
2024-03-22 21:05:22 driver-btm-api.c:837:get_product_id: product_id[1] = 0
2024-03-22 21:05:22 driver-btm-api.c:837:get_product_id: product_id[2] = 0
2024-03-22 21:05:22 driver-btm-api.c:2234:update_conf_by_power_feedback: Power feedback is disabled
2024-03-22 21:05:22 driver-btm-api.c:2202:get_calibration_voltage: calibration voltage flag is error data.
2024-03-22 21:05:22 driver-btm-api.c:2268:update_conf_by_power_feedback: Note: no calibration voltage, default diff = 0
2024-03-22 21:05:22 frequency.c:1457:adjust_higer_max_vol_table: adjust_higer_max_vol_table, adjust_vol = 0
2024-03-22 21:05:22 thread.c:1363:create_read_nonce_reg_thread: create thread
2024-03-22 21:05:28 driver-btm-api.c:1239:init_miner_version: miner ID : 806244c42b10481c
2024-03-22 21:05:28 driver-btm-api.c:1245:init_miner_version: FPGA Version = 0xB023
2024-03-22 21:05:34 driver-btm-api.c:837:get_product_id: product_id[0] = 0
2024-03-22 21:05:34 driver-btm-api.c:837:get_product_id: product_id[1] = 0
2024-03-22 21:05:34 driver-btm-api.c:837:get_product_id: product_id[2] = 0
2024-03-22 21:05:34 driver-btm-api.c:792:_set_project_type: project:0
2024-03-22 21:05:34 driver-btm-api.c:813:_set_project_type: Project type: Antminer S17+
2024-03-22 21:05:34 driver-btm-api.c:824:dump_pcb_bom_version: Chain [0] PCB Version: 0x0100
2024-03-22 21:05:34 driver-btm-api.c:825:dump_pcb_bom_version: Chain [0] BOM Version: 0x0100
2024-03-22 21:05:34 driver-btm-api.c:824:dump_pcb_bom_version: Chain [1] PCB Version: 0x0100
2024-03-22 21:05:34 driver-btm-api.c:825:dump_pcb_bom_version: Chain [1] BOM Version: 0x0100
2024-03-22 21:05:34 driver-btm-api.c:824:dump_pcb_bom_version: Chain [2] PCB Version: 0x0100
2024-03-22 21:05:34 driver-btm-api.c:825:dump_pcb_bom_version: Chain [2] BOM Version: 0x0100
2024-03-22 21:05:36 driver-btm-api.c:2372:bitmain_board_init: Fan check passed.
2024-03-22 21:05:37 board.c:36:jump_and_app_check_restore_pic: chain[0] PIC jump to app
2024-03-22 21:05:39 board.c:40:jump_and_app_check_restore_pic: Check chain[0] PIC fw version=0x88
2024-03-22 21:05:40 board.c:36:jump_and_app_check_restore_pic: chain[1] PIC jump to app
2024-03-22 21:05:42 board.c:40:jump_and_app_check_restore_pic: Check chain[1] PIC fw version=0x88
2024-03-22 21:05:43 board.c:36:jump_and_app_check_restore_pic: chain[2] PIC jump to app
2024-03-22 21:05:45 board.c:40:jump_and_app_check_restore_pic: Check chain[2] PIC fw version=0x88
2024-03-22 21:05:45 thread.c:1358:create_pic_heart_beat_thread: create thread
2024-03-22 21:05:45 power_api.c:213:power_init: Power init:
2024-03-22 21:05:45 power_api.c:214:power_init: current_voltage_raw = 0
2024-03-22 21:05:45 power_api.c:215:power_init: highest_voltage_raw = 2100
2024-03-22 21:05:45 power_api.c:216:power_init: working_voltage_raw = 1950
2024-03-22 21:05:45 power_api.c:217:power_init: higher_voltage_raw  = 2040
2024-03-22 21:05:45 power_api.c:218:power_init: check_asic_voltage_raw  = 2100
2024-03-22 21:05:45 driver-btm-api.c:2382:bitmain_board_init: Enter 30s sleep to make sure power release finish.
2024-03-22 21:05:45 power_api.c:186:power_off: init gpio907
2024-03-22 21:06:17 power_api.c:324:set_to_highest_voltage_by_steps: Set to voltage raw 2100, step by step.
2024-03-22 21:06:43 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:06:44 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 21.111110
2024-03-22 21:06:45 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 21.280969
2024-03-22 21:06:46 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 21.129937
2024-03-22 21:06:46 power_api.c:53:_get_avg_voltage: average_voltage = 21.174005
2024-03-22 21:06:46 power_api.c:71:check_voltage: target_vol = 21.00, actural_vol = 21.17, check voltage passed.
2024-03-22 21:06:46 uart.c:72:set_baud: set fpga_baud to 115200
2024-03-22 21:06:57 driver-btm-api.c:1134:check_asic_number_with_power_on: Chain[0]: find 65 asic, times 0
2024-03-22 21:07:08 driver-btm-api.c:1134:check_asic_number_with_power_on: Chain[1]: find 65 asic, times 0
2024-03-22 21:07:19 driver-btm-api.c:1134:check_asic_number_with_power_on: Chain[2]: find 65 asic, times 0
2024-03-22 21:07:28 driver-hash-chip.c:266:set_uart_relay: set uart relay to 0x330003
2024-03-22 21:07:28 driver-btm-api.c:435:set_order_clock: chain[0]: set order clock, stragegy 3
2024-03-22 21:07:28 driver-btm-api.c:435:set_order_clock: chain[1]: set order clock, stragegy 3
2024-03-22 21:07:28 driver-btm-api.c:435:set_order_clock: chain[2]: set order clock, stragegy 3
2024-03-22 21:07:28 driver-hash-chip.c:502:set_clock_delay_control: core_data = 0x34
2024-03-22 21:07:28 driver-btm-api.c:1892:check_clock_counter: freq 50 clock_counter_limit 6
2024-03-22 21:07:29 voltage[0] = 1930
2024-03-22 21:07:29 voltage[1] = 1960
2024-03-22 21:07:29 voltage[2] = 1930
2024-03-22 21:07:29 power_api.c:226:set_working_voltage_raw: working_voltage_raw = 1930
2024-03-22 21:07:30 temperature.c:340:calibrate_temp_sensor_one_chain: chain 0 temp sensor NCT218
2024-03-22 21:07:31 temperature.c:340:calibrate_temp_sensor_one_chain: chain 1 temp sensor NCT218
2024-03-22 21:07:33 temperature.c:340:calibrate_temp_sensor_one_chain: chain 2 temp sensor NCT218
2024-03-22 21:07:33 uart.c:72:set_baud: set fpga_baud to 12000000
2024-03-22 21:07:34 driver-btm-api.c:293:check_bringup_temp: Bring up temperature is 30
2024-03-22 21:07:34 thread.c:1378:create_check_miner_status_thread: create thread
2024-03-22 21:07:34 thread.c:1368:create_show_miner_status_thread: create thread
2024-03-22 21:07:34 thread.c:1348:create_temperature_monitor_thread: create thread
2024-03-22 21:07:34 frequency.c:514:check_bringup_temp_dec_freq: dec freq = 0 when bringup temp = 30 dec_freq_index=0
2024-03-22 21:07:34 freq_tuning.c:183:freq_tuning_get_max_freq: Max freq of tuning is 650
2024-03-22 21:07:34 driver-btm-api.c:1765:send_null_work: [DEBUG] Send null work.
2024-03-22 21:07:34 thread.c:1338:create_asic_status_monitor_thread: create thread
2024-03-22 21:07:34 frequency.c:1110:inc_freq_with_fixed_vco: chain = 255, freq = 520, is_higher_voltage = true
2024-03-22 21:07:34 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2090, step by step.
2024-03-22 21:07:36 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:07:37 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.938775
2024-03-22 21:07:38 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 21.084183
2024-03-22 21:07:39 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 21.008918
2024-03-22 21:07:39 power_api.c:53:_get_avg_voltage: average_voltage = 21.010625
2024-03-22 21:07:39 power_api.c:71:check_voltage: target_vol = 20.90, actural_vol = 21.01, check voltage passed.
2024-03-22 21:10:04 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2080, step by step.
2024-03-22 21:10:06 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:10:08 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.819922
2024-03-22 21:10:09 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.989781
2024-03-22 21:10:10 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.812976
2024-03-22 21:10:10 power_api.c:53:_get_avg_voltage: average_voltage = 20.874227
2024-03-22 21:10:10 power_api.c:71:check_voltage: target_vol = 20.80, actural_vol = 20.87, check voltage passed.
2024-03-22 21:10:50 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2060, step by step.
2024-03-22 21:10:52 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:10:54 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.601531
2024-03-22 21:10:55 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.744898
2024-03-22 21:10:56 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.643765
2024-03-22 21:10:56 power_api.c:53:_get_avg_voltage: average_voltage = 20.663398
2024-03-22 21:10:56 power_api.c:71:check_voltage: target_vol = 20.60, actural_vol = 20.66, check voltage passed.
2024-03-22 21:12:57 frequency.c:1152:inc_freq_with_fixed_step: chain = 0, freq_start = 520, freq_end = 570, freq_step = 5, is_higher_voltage = true
2024-03-22 21:13:09 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2030, step by step.
2024-03-22 21:13:11 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:13:12 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.308673
2024-03-22 21:13:13 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.480203
2024-03-22 21:13:14 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.379619
2024-03-22 21:13:14 power_api.c:53:_get_avg_voltage: average_voltage = 20.389498
2024-03-22 21:13:14 power_api.c:71:check_voltage: target_vol = 20.30, actural_vol = 20.39, check voltage passed.
2024-03-22 21:13:22 frequency.c:1152:inc_freq_with_fixed_step: chain = 2, freq_start = 520, freq_end = 570, freq_step = 5, is_higher_voltage = true
2024-03-22 21:13:22 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2060, step by step.
2024-03-22 21:13:24 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:13:25 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.625797
2024-03-22 21:13:26 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.747125
2024-03-22 21:13:27 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.595419
2024-03-22 21:13:27 power_api.c:53:_get_avg_voltage: average_voltage = 20.656114
2024-03-22 21:13:27 power_api.c:71:check_voltage: target_vol = 20.60, actural_vol = 20.66, check voltage passed.
2024-03-22 21:13:39 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2030, step by step.
2024-03-22 21:13:41 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:13:42 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.310343
2024-03-22 21:13:43 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.478316
2024-03-22 21:13:44 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.355415
2024-03-22 21:13:44 power_api.c:53:_get_avg_voltage: average_voltage = 20.381358
2024-03-22 21:13:44 power_api.c:71:check_voltage: target_vol = 20.30, actural_vol = 20.38, check voltage passed.
2024-03-22 21:13:52 power_api.c:352:set_to_voltage_by_steps: Set to voltage raw 2020, step by step.
2024-03-22 21:13:54 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:13:55 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 20.213281
2024-03-22 21:13:56 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 20.357143
2024-03-22 21:13:57 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 20.258599
2024-03-22 21:13:57 power_api.c:53:_get_avg_voltage: average_voltage = 20.276341
2024-03-22 21:13:57 power_api.c:71:check_voltage: target_vol = 20.20, actural_vol = 20.28, check voltage passed.
2024-03-22 21:13:57 frequency.c:1181:inc_asic_diff_freq_by_steps: chain = 0, start = 570, freq_step = 5
2024-03-22 21:14:04 frequency.c:1181:inc_asic_diff_freq_by_steps: chain = 1, start = 520, freq_step = 5
2024-03-22 21:14:12 frequency.c:1181:inc_asic_diff_freq_by_steps: chain = 2, start = 570, freq_step = 5
2024-03-22 21:14:14 driver-btm-api.c:765:set_timeout: freq = 620, percent = 90, hcn = 44236, timeout = 71
2024-03-22 21:14:14 power_api.c:310:set_to_working_voltage_by_steps: Set to voltage raw 1930, step by step.
2024-03-22 21:14:17 power_api.c:85:check_voltage_multi: retry time: 0
2024-03-22 21:14:19 power_api.c:40:_get_avg_voltage: chain = 0, voltage = 19.339718
2024-03-22 21:14:20 power_api.c:40:_get_avg_voltage: chain = 1, voltage = 19.485312
2024-03-22 21:14:21 power_api.c:40:_get_avg_voltage: chain = 2, voltage = 19.387262
2024-03-22 21:14:21 power_api.c:53:_get_avg_voltage: average_voltage = 19.404097
2024-03-22 21:14:21 power_api.c:71:check_voltage: target_vol = 19.30, actural_vol = 19.40, check voltage passed.
2024-03-22 21:14:21 thread.c:1373:create_check_system_status_thread: create thread
2024-03-22 21:14:21 driver-btm-api.c:2618:bitmain_soc_init: Init done!
2024-03-22 21:14:21 driver-btm-api.c:222:set_miner_status: STATUS_INIT
2024-03-22 21:14:26 driver-btm-api.c:222:set_miner_status: STATUS_OKAY
2024-03-22 21:14:27 frequency.c:205:get_ideal_hash_rate_GH: ideal_hash_rate = 73846
2024-03-22 21:14:27 frequency.c:223:get_sale_hash_rate_GH: sale_hash_rate = 73000
2024-03-22 21:14:31 driver-btm-api.c:1496:dhash_chip_send_job: Version num 4.
2024-03-22 21:14:31 driver-btm-api.c:1644:dhash_chip_send_job: stime.tv_sec 1711142071, block_ntime 1711142060
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