

1. RK1126+SSV6152/6256/6158 (sdio wifi) 加载驱动 sdio 报错问题。

问题现象:

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[ 7.182457] CHIP TAG: 2020072900201427
[ 7.182896] MAC address from e-fuse
[ 7.182902] EFUSE configuration
[ 7.182908] Read efuse chip identity[6fffff]
[ 7.182911] crystal_frequency_offset- ad
[ 7.182914] tx_power_index_l- 6
[ 7.182920] MAC address - F0:c8:14:cf:ac:6d
[ 7.182922] rate_table_1- 0
[ 7.182926] rate_table_2- 49
[ 7.183003] flash_file /tmp/flash.bin not found
[ 7.183011] ssv6020_if_chk_mac2: is not need to check MAC address 2 for this model
[ 7.183020] freq xi/xo use value 173/173
[ 7.183023] rate gain b use value 4
[ 7.183025] rate gain legacy use default value
[ 7.183028] rate gain ht20 use default value
[ 7.183031] rate gain ht40 use value 9
[ 7.183033] band gain use 6
[ 7.183035] ble gain use default value
[ 7.183786] SSV6XXX RX Task started.
[ 7.184567] ssv6xxx_sdio_irq_disable
[ 7.184938] -----[ cut here ]-----
[ 7.185069] WARNING: CPU: 1 PID: 505 at /home/cplus/work/project/driver/6158/from_rk/L-SWB.20Q2.2117.01/hwif/sdio/sdio.c:20 __ssv6xxx_sdio_read_reg+0xf0/0x158 [ssv6x5x]
[ 7.185073] Modules linked in: ssv6x5(O+) galcore(O)
[ 7.185085] CPU: 1 PID: 505 Comm: insmod Tainted: G      0      4.19.111 #167
[ 7.185087] Hardware name: Generic DT based system
[ 7.185108] [b010f408>] (unwind_backtrace) from [b010b96c>] (show_stack+0x10/0x14)
[ 7.185117] [b010b96c>] (show_stack) from [b0837464>] (dump_stack+0x90/0xa4)
[ 7.185127] [b0837464>] (dump_stack) from [b0126204>] (__warn+0xc/0x14)
[ 7.185134] [b0126204>] (__warn) from [b0126330>] (warn_slowpath_null+0x40/0x46)
[ 7.185201] [b0126330>] (warn_slowpath_null) from [ca07eaa8>] (__ssv6xxx_sdio_read_reg+0xf0/0x158 [ssv6x5x])
[ 7.185327] [ca07eaa8>] (__ssv6xxx_sdio_read_reg [ssv6x5x]) from [ca07eb38>] (ssv6xxx_sdio_read_reg+0x28/0x70 [ssv6x5x])
[ 7.185450] [ca07eb38>] (ssv6xxx_sdio_read_reg [ssv6x5x]) from [ca07499c>] (ssv6020_save_clear_trap_reason+0x400/0x660 [ssv6x5x])
[ 7.185572] [ca07499c>] (ssv6020_save_clear_trap_reason [ssv6x5x]) from [ca074cc8>] (ssv6020_set_crystal_clk+0xccc/0x22c [ssv6x5x])
[ 7.185694] [ca074cc8>] (ssv6020_set_crystal_clk [ssv6x5x]) from [ca080ce3>] (ssv6xxx_init_hw+0x8c/0a54 [ssv6x5x])
[ 7.185871] [ca080ce3>] (ssv6xxx_init_hw [ssv6x5x]) from [ca068130>] (ssv6xxx_dev_probe+0xe4/0xf0 [ssv6x5x])
[ 7.185988] [ca068130>] (ssv6xxx_dev_probe [ssv6x5x]) from [b0496f10>] (platform_drv_probe+0x48/0x9c)
[ 7.186000] [b0496f10>] (platform_drv_probe) from [b048f218>] (really_probe+0x210/0x2bc)
[ 7.186008] [b048f218>] (really_probe) from [b048f428>] (driver_probe_device+0x60/0x160)
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解决办法:

A. 修改主控的 sdio 驱动电流。Linux 下敲如下命令

io -4 -w 0xfe010098 0xff002022 或

io -4 -w 0xfe010098 0xff002122

B. 修改 sdio clk 上的串联电阻，常规串联 22R，如果出现异常，22R 更改为 240R 或 270R