1. Issue Description:

Accelerator Card loses connection with BBU and can't SSH login through BBU.

2. Troubleshooting Procedure

2.1 Access accelerator card by serial port and Check status

Dismantle the BBU outer covering and connect to accelerator card by serial port(COM).

Access IP：192.168.1.11

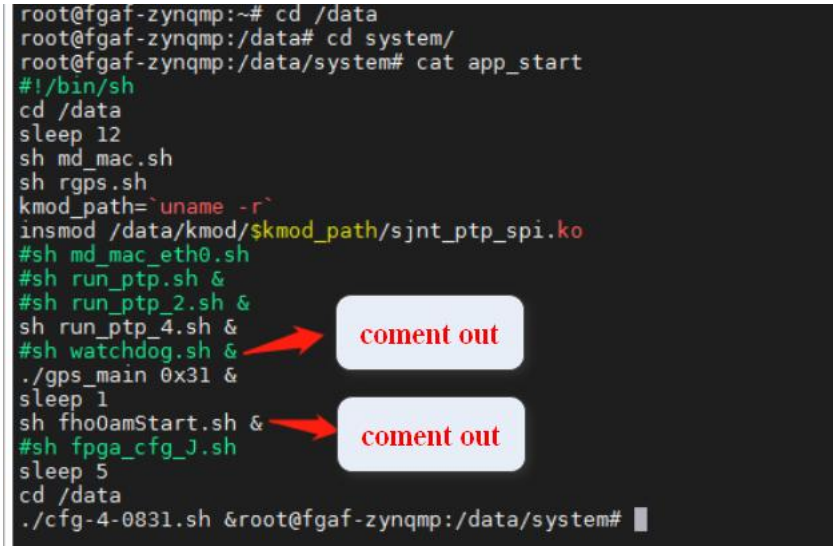
User Name：root

Password：sjnt1234

After login in accelerator card by serial port, and observe system keeps rebooting.

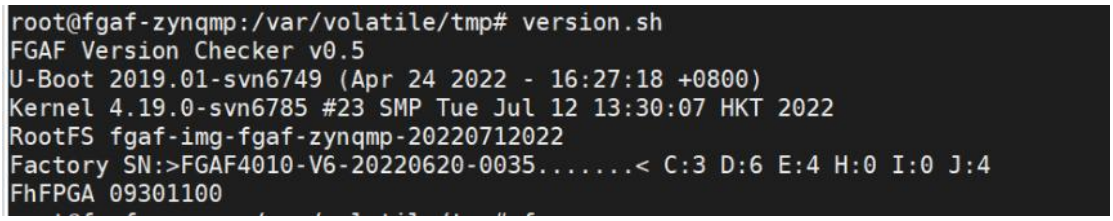
2.2 Close watch dog of accelerator card to solve reboot issue

Add comment for" sh watchdog.sh &" and "sh fho0amstart.sh &" in file /data/system/app_start

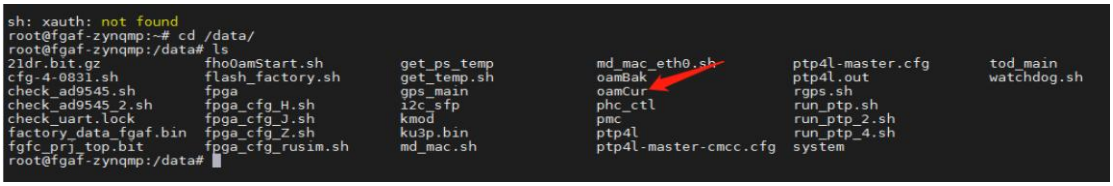


2.3 Check version and system(OAM) files

Check version information,it's normal



Check the OAM files and find OAM files are missing.



```
root@fgaf-zynqmp:/data# cd oamCur/
root@fgaf-zynqmp:/data/oamCur# ls
root@fgaf-zynqmp:/data/oamCur# ls
root@fgaf-zynqmp:/data/oamCur#
```

3. Solution

3.1 upgrade version of accelerator card

Upload version package of accelerator card (For example:FGAF2.2.0_220811_R.img) to path: /tmp

Run commands to execute upgrade:

#cd /tmp

#fwm.sh -i FGAF2.2.0_220811_R.img

```
root@fgaf-zynqmp:/var/volatile/tmp# ls
1588ClkCfgOutput        cur1588ClkCfg           package
FGAF2.2.0_220811_R.img  gnbhosts
root@fgaf-zynqmp:/var/volatile/tmp# fwm.sh -i FGAF2.2.0_220811_R.img
fwm.sh -i FGAF2.2.0_220811_R.img
Installing load in inactive zone: 1
decompressing image
identical checksum of 21dr.bit.gz, skip update
identical checksum of Image.gz, skip update
identical checksum of ramdisk.u-boot, skip update
identical checksum of zynqmp-fgafv2.dtb, skip update
Writing userfs
identical checksum of ku3p_e.bin.gz, skip update
done
```

3.2 OAM version check after upgrade

Check oam version under path: /data and path: /data/oamCur

if they are same, run commands: “fwm.sh -r” to reboot the accelerator card directly.

If they are not same, delete the oam version package under /data/oamCur, and copy the version package from path /data to /data/oamCur. Then reboot run commands to reboot accelerator card.

```
root@fgaf-zynqmp:/var/volatile/tmp#
root@fgaf-zynqmp:/var/volatile/tmp# cd /data/
root@fgaf-zynqmp:/data# ls
FHO_2.0.0.arm_043.pkg  fpga_cfg_J.sh          oamBak                rgps.sh
ad9545.sh              fpga_cfg_Z.sh          oamCur                run_ptp.sh
check_ad9545.sh        gps_main               phc_ctl               run_ptp_2.sh
check_ad9545_2.sh      i2c_sfp                pmc                   run_ptp_4.sh
fhoOamStart.sh         kmod                   ptp4l                 system
fpga                   md_mac_eth0.sh         ptp4l-master-cmcc.cfg tod_main
fpga_cfg_H.sh          nmea_main              ptp4l-master.cfg      version_check.txt
root@fgaf-zynqmp:/data# cd oamCur/
root@fgaf-zynqmp:/data/oamCur# ls
FHO_2.0.0.arm_043.pkg
root@fgaf-zynqmp:/data/oamCur# fwm.sh -r
fwm.sh -r
Switching to zone 1
Rebooting.

Broadcast message from root@fgaf-zynqmp (pts/0) (Wed Jul 19 06:42:52 2023):
The system is going down for reboot NOW!
root@fgaf-zynqmp:/data/oamCur# Connection to 192.168.2.24 closed by remote host.
Connection to 192.168.2.24 closed.
```