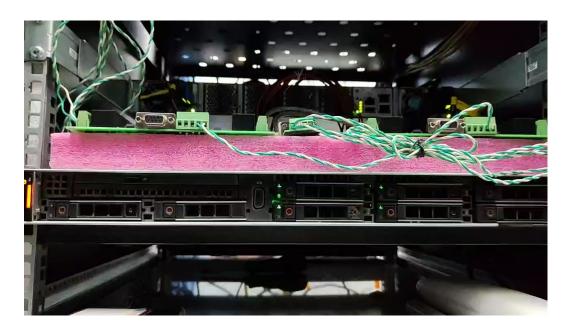
Update on Tianlai Hardware Status

Jixia Li 2024/11/26

Cylinder FRB detect system

- Cylctrl server system SSD failed.
 - Server sent to Guangdong for repair.



Timestamp ▼	Message
2024-11-04 01:30:01	Fault detected on drive 0 in disk drive bay 1.
2024-11-04 01:29:59	Fault detected on drive 1 in disk drive bay 1.
2024-11-04 01:29:16	Drive 1 in disk drive bay 1 is operating normally.
2024-11-04 01:29:13	Drive 0 in disk drive bay 1 is operating normally.
2024-11-02 03:41:21	Fault detected on drive 0 in disk drive bay 1.
2024-11-02 03:41:19	Fault detected on drive 1 in disk drive bay 1.
2024-11-02 03:40:33	Drive 1 in disk drive bay 1 is operating normally.
2024-11-02 03:40:30	Drive 0 in disk drive bay 1 is operating normally.
2024-11-02 03:35:58	An unsupported event occurred.
2024-11-02 03:35:58	A problem was detected during Power-On Self-Test (POST).
2024-11-02 03:34:53	Fault detected on drive 1 in disk drive bay 1.
2024-11-02 03:34:50	Fault detected on drive 0 in disk drive bay 1.
2024-11-01 11:20:52	Multi-bit memory errors detected on a memory device at location(s) DIMM_A4.
2024-11-01 11:20:52	An OEM diagnostic event occurred.
2024-11-01 11:20:51	An OEM diagnostic event occurred.
2024-11-01 11:20:51	An OEM diagnostic event occurred.
2024-11-01 11:20:51	An OEM diagnostic event occurred.

Cylinder FRB detect system

- Cylctrl server system SSD failed.
 - Server sent to Guangdong for repair.
- Cuda problem remains.
 - Error occurred occasionally on cylfrbgpu2.
 - Compatibility?

```
observer@cylfrbgpu1:~/control_all_frb
File Edit View Search Terminal Help
cylfrbgpu2: ERROR: Pipeline creation failed
cylfrbgpu2:
                   Invalid device index
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
cylfrbgpu2: ERROR: Pipeline creation failed
                   Invalid device index
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
cylfrbgpu2: ERROR: Pipeline creation failed
cylfrbqpu2:
                   Invalid device index
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
cylfrbqpu2: ERROR: Pipeline creation failed
cylfrbgpu2:
                   Invalid device index
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
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                   Invalid device index
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cylfrbgpu2:
                   Invalid device index
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
cylfrbgpu2: ERROR: Pipeline creation failed
                   Invalid device index
cylfrbqpu2:
cylfrbgpu2: Could not setCudaDevice to 1: invalid device ordinal
cylfrbgpu2: ERROR: Pipeline creation failed
cylfrbgpu2:
                   Invalid device index
```

Cylinder correlator system

- No-correlation problem between roach boards turns out to be caused by false output of 1PPS signal.
- Upgrade GPU card from GTX690 to RTX3080 for 2 Xengine servers.
- Roach 7 netboot resolved by setting environment variables in u-Boot.



Dish correlation system

Pol.	Dish No.	Feed	LNA	cable	Optic Transmitter	Optic Cable	Optic Receiver	Filter	Mixer	ADC	Status		
	1 1												Normal
	2 1												Bad
;	3 2												Undetermined
	4 2												Need check
	5 3												
	6 3												
	7 4												
	3 4												
	9 5												
1	5												
1													
1													
1													
1													
1													
1	6 8												
1													
1												信号弱20dB	
1	9 10												
2	10												
2	1 11												
2													
2	3 12												
2													
2	5 13												
2	6 13												
2	7 14												
2	3 14												
2													
3	15												
3													
3	2 16												

