

# KLM Summary

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# Post B2GM Highlights

- Populated BF6 RPCs- INFN
  - Debug of DAQ and UT3 streams
  - Crate fully functional except BF6L13out
- Debug of DAQ: all barrel (BF+BB) can take data non-stop (UH-DAQ)
  - Charge distributions were plotted
  - Cosmics tracks for BF2+BF6 RPC
- Created a shared dashboard for readout/remote ops (UH-KEK)
  - Located on a PC in B2, shared remote desktop style access
  - Created sheetsheet for data taking

The screenshot displays a Mac OS X desktop environment. At the top, a Finder window shows the file 'cpr700' in the directory '/Users/.../Documents'. Below the Finder, three terminal windows are open, each running a different script. The middle terminal window, titled 'start\_copper\_mono.sh cpr700', shows the execution of 'ket...' and 'Info...' commands, displaying statistics such as 'Rate 3368456.7', 'sent 0.00[MB/s]', and 'interval 0.28[s]'. The bottom terminal window, titled 'RecvStream2\_mono.sh cpr700', shows the execution of 'Info...' and 'Info...' commands, displaying statistics such as 'Rate -0.00[kH]', 'sent -inf[MB/s]', and 'interval -0.0[s]'. The background shows a Mac OS X desktop with a dock containing various applications like Finder, Safari, and Mail.

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isar@bdaq:~
File Edit View Search Terminal Help
exp 0 run 750 sub 0 started
-bash-4.3$ ^C
-bash-4.3$ resetft -191
trigft version 2016062700
resetting trigger
-bash-4.3$ trigft -191 pulse aux 30000
trigft version 2016062700
aux trigger
exp 0 run 751 sub 0 started
-bash-4.3$ resetft -191
trigft version 2016062700
resetting trigger
-bash-4.3$ trigft -191 pulse aux 30000
trigft version 2016062700
aux trigger
exp 0 run 752 sub 0 started
-bash-4.3$ resetft -191
trigft version 2016062700
resetting trigger
-bash-4.3$ trigft -191 pulse aux 30000
trigft version 2016062700
aux trigger
exp 0 run 753 sub 0 started
-bash-4.3$ 

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File Edit View Search Terminal Help
Every 1.0s: statftf -191                               Fri Feb 17 22:46:03 2017

statftf version 20161207 FTSW #191 / ft3p048a - 2017.02.17 22:46:03.367
warning: time difference = -10 sec
16  exprun=0002f100 exp 0 run 753 sub 0
17  omask=00009f80 s3q=0 clk=00 o=1f80 LOCAL
1f   jpll=cc008000 clk=in GOOD-CLOCK
20  reset=80000000 no-FIFO
28  seltrg=00000001 aux
2a/2b trig 45998(2.0Hz) -> 45998(34.7Hz) -> 2120(1.6Hz)
29/2c limit 30000 <-> last 27880
2d stafifo=00000001 some data trg-enabled
30-32 busy=000 bsyin=000 errin=002 ERROR errin
25 errport=f0000002 port=002 src=10 errin
33-35 b2tt-down=000/alive=07f/up=07f
36-3c b2l-down=000 pll-down=000 ttup=b running
405468 00=2290000f 00000000 03e56540 tag=0(0) cnt=0 d=0.00%
415569 01=2300050f 00000000 02c164c3 ttlost
42566a 02=2040000f 00000000 02c26542 tag=0(0) cnt=0 d=0.00%
43576b 03=2050000f 00000000 02456540 tag=0(0) cnt=0 d=0.00%
44586c 04=2060000f 00000000 0ad96543 tag=0(0) cnt=0 d=0.00%
45596d 05=2070000f 00000000 02c5650b tag=0(0) cnt=0 d=0.00%
465a6e 06=1700000f 00000000 02436541 tag=0(0) cnt=0 d=0.00%
7f latency=0100b000 maxtrig=1 maxtime=351.44us
a0-a7 dead 0.00% (t=0.00% c=0.00% p=0.00% f=0.00% r=0.00%)

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File Edit View Search Terminal Help
stathx version 6 (20170123)
HSLB-a version 0.52 / KLM firmware 1 serial 0 version 4
(a) stat=18001000 (ff=0 rx=1 pr=0 pt=0 tx=18)
(a) rxdata=00bc rxlinkdown=0 rxrcrerr=0 feecrcerr=0
(a) event=2120 total=381kB (avg=179B last=48B max=864B)
(a) no b2link error

HSLB-b version 0.52 / KLM firmware 1 serial 3 version 4
(b) stat=18001000 (ff=0 rx=1 pr=0 pt=0 tx=18)
(b) rxdata=00bc rxlinkdown=0 rxrcrerr=0 feecrcerr=0
(b) event=2120 total=87kB (avg=41B last=40B max=280B)
(b) no b2link error

HSLB-c version 0.52 / KLM firmware 1 serial 4 version 4
(c) stat=18001100 (ff=1 rx=1 pr=0 pt=0 tx=18)
(c) rxdata=00bc rxlinkdown=0 rxrcrerr=0 feecrcerr=0
(c) event=2120 total=85kB (avg=40B last=40B max=160B)
(c) no b2link error

HSLB-d version 0.52 / KLM firmware 1 serial 5 version 4
(d) stat=18001000 (ff=0 rx=1 pr=0 pt=0 tx=18)
(d) rxdata=00bc rxlinkdown=0 rxrcrerr=0 feecrcerr=0
(d) event=2120 total=85kB (avg=40B last=40B max=160B)
(d) no b2link error
[b2klm@cpr7001 ~]$ logout
Connection to cpr7001 closed.
[b2klm@klm01 daq scripts]$

```

# Last week (Feb 21-27)

- AUX trigger stopped working right after Isar left KEK
  - Troubleshooting remotely
  - Need to find a way to scan trigger delays until scint data shows up
    - Use chipscope for coarse tune
    - Maybe use multiple slow control files to fine tune
- Working with Dmitri to bring up Ecap scripts