

# KLM Expert Shifter's Report

(Feb 19 – Feb 25)

Vipin Gaur

Virginia Tech, USA



- ❑ Earlier this week KLM hit appear to be uncorrelated with the CDC track. After aborting and loading again KLM was back.
- ❑ Tue night: FTSW was busy. We had to switch off the scint. HV and then the problem was solved. ttlost was noticed once but then KLM recovered.
- ❑ Wed: Joined the high rate global test with the dummy SCROD FW. Before joining the global run the FW was tested with Scint. HV ON, CPR 7001 d, (BF5 DC18, S158,S159) masked, CPR 7002 d, (BF1 DC12, S160,S161) masked, 1trg/10us and trigft -191 poisson 30000 -1 (see slides 4 and 5)  
Wed night: we were not allowed to join the global run due to planned SVD special run which got extended.
- ❑ Thu: we joined high rate global test with the regular FW. Before joining the global run the FW was tested with following conditions: Scint. HV OFF, 1trg/20us (1trg/10us in second test which failed with FiFo error from DC24), trigft -191 poisson 30000 -1 and CPR 7004 a, (DC27, S095,S097) masked (see slide 6)  
Thu night: KLM performed well in the global run.
- ❑ Fri night: KLM was included in the global run. "BUSY" status just once around 11 PM otherwise it was a smooth run.
- ❑ On Sat morning KLM was not allowed to join the global run since ECL requested for a 12 hours special run from 8:00 to 20:00. No mag. field on Sat day time. Sat evening until Monday morning we had mag. field.  
Sat night: KLM joined the global run but KLM went busy several times. To cure the problem CPR 7001 d was masked.

- Sunday morning: KLM01 was excluded by the control room (without consulting me over PHS). CPR 7001 c was masked and KLM has joined the global run. I found Belle2link was down for CPR 7001 b,c,d and CPR 7002 a,b,c,d. I could revive the link for six CPRs except CPR 7001 c (with slot c of CPR 7001, I received a message "no jtag response, cable or jtag path may be wrong" while trying to revive the corresponding Belle2link of DC17). That is why I masked this particular CPR slot. The run was continued.
- Monday morning: the run continued till Monday morning. ttlost happed just once around 3 AM. The shifter in the control room was instructed to remove and then include KLM in a new run. KLM was then working fine. Now just few hours left before the mag. field will be ramped down.

On Feb 21, we joined high rate global test with the dummy SCROD FW. Before joining the global run the FW was tested with following conditions:

## 1. Scint. HV ON

Test (A):

CPR 7001 d, (BF5 DC18, S158,S159) masked

1trg/20us

trigft -191 poisson 100 -1

Status: OK

Test (B):

CPR 7001 d, (BF5 DC18, S158,S159) masked

1trg/20us

trigft -191 poisson 1000 -1

Status: OK

Test (C):

CPR 7001 d, (BF5 DC18, S158,S159) masked

1trg/20us

trigft -191 poisson 5000 -1

Status: CPR 7002 d has different # of entries

Test (D):

CPR 7001 d, (BF5 DC18, S158,S159) masked

1trg/20us

trigft -191 poisson 5000 -1

Status: Again CPR 7002 d has different # of entries

Test (E):

CPR 7001 d, (BF5 DC18, S158,S159) masked

CPR 7002 d, (BF1 DC12, S160,S161) masked

1trg/20us

trigft -191 poisson 5000 -1

Status: OK

Test (F):

CPR 7001 d, (BF5 DC18, S158,S159) masked

CPR 7002 d, (BF1 DC12, S160,S161) masked

1trg/20us

trigft -191 poisson 10000 -1

Status: OK

Test (G):

CPR 7001 d, (BF5 DC18, S158,S159) masked

CPR 7002 d, (BF1 DC12, S160,S161) masked

1trg/0.2us

trigft -191 poisson 10000 -1

Status: FTSW BUSY, CPR 7003 b has different # of entries

Test (H):

CPR 7001 d, (BF5 DC18, S158,S159) masked

CPR 7002 d, (BF1 DC12, S160,S161) masked

1trg/10us

trigft -191 poisson 10000 -1

Status: OK

Test (I):

CPR 7001 d, (BF5 DC18, S158,S159) masked

CPR 7002 d, (BF1 DC12, S160,S161) masked

1trg/10us

trigft -191 poisson 30000 -1

Status: OK

On Feb 22, we joined high rate global test with the regular FW. Before joining the global run the FW is being tested with following conditions:

## 1. Scint. HV OFF

Test (A):

1trg/20us

trigft -191 poisson 100 -1

Status: OK

Test (B):

1trg/20us

trigft -191 poisson 5000 -1

Status: DC 27 gave a FiFo error

Test (C):

CPR 7004 a, (DC27, S095,S097) masked

1trg/20us

trigft -191 poisson 5000 -1

Status: OK

Test (D):

CPR 7004 a, (DC27, S095,S097) masked

1trg/20us

trigft -191 poisson 10000 -1

Status: OK

Test (E):

CPR 7004 a, (DC27, S095,S097) masked

1trg/20us

trigft -191 poisson 30000 -1

Status: OK