

Goal : to check whether there is any sets of data that INTT and MTVTX took data together

Runs mentioned by Cameron

- | | |
|---|--|
| X | 27th of June from 14:52 for a few minutes. Could be run 20124 in the INTT stream |
| X | 29th of June from 13:01 for a few minutes (but I dont see hits in it) |
| X | 11th of July from 16:12 to a few minutes after 16:43 (could be runs 21148 to 21150) |
| X | 13th of July from 23:24 for a few minutes (could be runs 21151 and is tagged in our log file as being with the INTT and MBD) |
| X | 18th of July from 13:21 to a few minutes after 15:02 (few minute runs separated by about 30 minutes) |
| X | 1st of August for a few minutes from 08:55 (could be run 23076) |
| X | 1st of August for a few minutes from 12:28 (could be run 23077) |

No run 20124 ,21151, 21150, 21149, 21148, 23076, 23077
found in the DAQ and INTT elog

June 27, 2023

27th of June from 14:52 for a few minutes. Could be run 20124 in the INTT stream

192	Tue Jun 27 08:59:49 2023	maya shimomura	day shift summary
<div><div>Type: beam</div><div>Config: Global Mode: MBD+LL1+HCAL+EMCAL(partial)+ZDC seb2,3,4,5,6,7(EMC), seb14(ZDC), seb15(L1), seb16,17(HCAL) and seb18(MBD)</div><div>- 20100 start at 8:20AM :<ul style="list-style-type: none"># of eventsMBD status goodHCal status goodThe reason why we stopped the run : Seb02 stopped</div><div>- 20101 start at 8:52AM :<ul style="list-style-type: none"># of events 769K (approximately)MBD status goodHCal status badThe reason why we stopped the run : HCal mis-alignment and HCal expert requested to re-start the run</div><div>- 20102 start at 9:20AM : End 9:50AM<ul style="list-style-type: none"># of events 1M (approximately)MBD status goodHCal status bad -- misaligned, HCal expert knowThe reason why we stopped the run : Seb07 stopped. (# of events for Seb07 stopped at 786K.)</div><div>- 20103 start at 9:54AM : End 10:01AM<ul style="list-style-type: none"># of events 177K (approximately)MBD status goodHCal status bad -- misaligned, HCal expert knowThe reason why we stopped the run : Seb15 stopped. (# of events for Seb07 stopped at 786K.)</div><div>- 20104 start at 10:05AM : End 10:17AM<ul style="list-style-type: none"># of events 184K (approximately)MBD statusHCal statusThe reason why we stopped the run : all seb stopped.</div><div>Then, when we restarted the run, seb18 output enable is 0. We followed the instruction (do rc_open) and restarted the new run, but seb18 still didn't start. We did rc_shutdown but it didn't work.</div><div>The daq expert, Jaebeom, reconfigured rc_daq of seb18 and it fixed the problem and we could start the new run.</div><div>*He suggested "call expert if this happens again".</div><div>- 20107 start at 10:40AM : End 11:39 AM<ul style="list-style-type: none"># of events 1968K (approximately)MBD status GoodHCal status Bad (misaligned)The reason why we stopped the run : seb2(1048K events) and seb15(1170K events) stopped.</div><div>HCal wants to take data so we did rc_shutdown. (11:45 AM)</div><div>- 20109 start at 12:10AM : End 12:30 AM<ul style="list-style-type: none"># of events 20K (approximately)MBD status GoodHCal status Bad (misaligned)The reason why we stopped the run : seb2(472K events) stopped.</div></div>			

- 20111 start at 12:55AM : End 1:08 PM <ul style="list-style-type: none"># of events 345K (approximately)MBD status GoodHCal status Bad (misaligned)The reason why we stopped the run: to change to the local mode and let several subsystems work individually.

193	Tue Jun 27 22:04:15 2023
<div><div>Type: Beam</div><div>Configuration: Global mode: EMCAL,ZDC,HCAL,MBD,LL1</div><div>Runs:</div><div>20143 (started outside by jaebeom)<ul style="list-style-type: none">Total Number of Events: ~1MReason for run_end: DAQ expert ended the run</div><div>20144 (10:35pm-10:57PM)<ul style="list-style-type: none">Total Number of Events: 1048577Reason for run_end: seb03 froze</div><div>20145 (11PM--11:20pm)<ul style="list-style-type: none">Total Number of Events: 955128Reason for run_end: DAQ expert suggested to end run</div></div>	

June 29, 2023

29th of June from 13:01 for a few minutes (but I dont see hits in it)

205

Thu Jun 29 16:04:37 2023

maya shimomura

Type: beam

Config: Global Mode: HCAL, EMCAL (w/o seb1, seb5, seb7), ZDC, MBD, INTT (w/o intt1,intt2,intt5,intt6,intt7), TPOT

- 20390 start at 11:30AM : end at 11:48AM

- seb0,2,3,4,5,6(EMC), seb14(ZDC), seb15(L1), seb16,17(HCAL), seb18(MBD), ebdc39(TPOT), intt0,3,4(INTT)
- # of events 855K
- The reason why we stopped the run : MVTX requests localmode so we stop the run switch to the localmode.

Type: beam (only blue)

Config: Global Mode: HCAL, EMCAL (w/o seb1, seb5, seb7), ZDC, MBD, INTT (w/o intt1,intt2,intt4,intt5,intt6,intt7), TPOT

- 20402

- seb0,2,3,4,5,6(EMC), seb14(ZDC), seb15(L1), seb16,17(HCAL), seb18(MBD), ebdc39(TPOT), intt0,3(INTT)
- # of events 100K
- MBD_N trigger (Scale down factor 0)
- This is the study for LL1

- 20403

- seb0,2,3,4,5,6(EMC), seb14(ZDC), seb15(L1), seb16,17(HCAL), seb18(MBD), ebdc39(TPOT), intt0,3(INTT)
- # of events 100K
- MBD_S trigger (Scale down factor 0)
- This is the study for LL1

July 11, 2023

11th of July from 16:12 to a few minutes after 16:43 (could be runs 21148 to 21150)

- <https://sphenix-intra.sdcc.bnl.gov/WWW/elog/DAQ/page15>

274	Mon Jul 10 22:40:57 2023	Aditya Prasad Dash
-----	--------------------------	--------------------

HCal LED Run

		Run #	Detectors	# of events	Reason for stopping run	
◆	5:35PM	21083	HCal	13K	reached # of events requested	
◆	7:13PM	21092	HCal	11K	reached # of events requested	
◆	11:15PM	21094	HCal	14K	reached # of events requested	

	Fill #	Time	Run #	Detectors	Raw Rate (kHz)	Scaledown	Scaled Rate (Hz)	# of events	Reason for stopping run	
♦	Cosmic Run	6:20 pm	21089	GL1, LL1, EMCal, HCal, INTT, TPOT	12.8	20	615	181413	Seb05 froze, everything froze except intt3 which is still taking data	
♦	Cosmic Run	6:35 pm	21090	"					intt3 taking data with trigger off	
♦	Cosmic Run	6:40 pm	21091	GL1, LL1, EMCal, HCal, TPOT	9.3	20	449	503781	seb06 froze	
♦	Cosmic Run	8:00 pm	21905	"	11.4	20	543	580746	seb05 froze	
♦	Cosmic Run	~8:45PM	21096	"	11	20	520	790337	seb05 froze	
♦	Cosmic Run	10pm	21097	"	11.6			1	seb06 froze	
♦	Cosmic Run	10:10pm	21908	"				0	trigger rate too high ~500kHz	
♦	Cosmic Run	10:25pm	21099	"	11.5	20		7507	seb05 froze	
♦	Cosmic Run	10:35pm	21100	"					trigger rate too high ~480kHz	
♦	Cosmic Run	10:40pm	21101	"	12.2	20	580	191848	seb06 froze	
♦	Cosmic Run	10:55pm	21102	"					trigger rate too high ~550kHz	
♦	Cosmic Run	11:00pm	21103	"	12.2	20	577	54830	seb05 froze	
♦	Cosmic Run	11:10PM	21104	"						
♦	Cosmic Run	12AM	21051	"	11.7	20	573	323291	seb05 froze	

*Red indicates that no data was taken in this run

275	Tue Jul 11 05:05:42 2023	Reese Boucher
<p>Cosmics Running during injection process. Big Partition includes: Global, EMCal, Hcal.</p> <p>Run 21057</p> <ul style="list-style-type: none"> • 48585 events for glldaq • seb03 at hanging point showed -1 0 0 0 0 <p>Run 21059</p> <ul style="list-style-type: none"> • 227522 events for glldaq • seb03 reporting order of magnitude less events than all others, after others finished seb03 still tooks data <p>Run 21060</p> <ul style="list-style-type: none"> • Never inputted scaledown but seb03 still took data 		
277	Tue Jul 11 21:57:23 2023	Shumail, Reese

[illegible]

July 13, 2023

13th of July from 23:24 for a few minutes (could be runs 21151 and is tagged in our log file as being with the INTT and MBD)

The July 13, 2023 evening shift log disappears

July 13 2023, day shift by Hao-Ren : all cosmic runs and LED runs

July 14 2023 owl shift by Reese : took the beam data starting from 2 : 40 AM

July 18, 2023

18th of July from 13:21 to a few minutes after 15:02 (few minute runs separated by about 30 minutes)

304

Tue Jul 18 08:00:55 2023

Tanner Mengel & Hao-Ren Jheng

Outgoing shifter: Hao-Ren Jheng

Incoming shifter: Tanner Mengel

Shift:

Morning [x]

Evening []

Night []

Notable events:

- The previous shifter stopped the run
- Testing MVTX 10:31 AM
- ~10:47 AM, MVTX group work done, back to BigPartition
- 11:34 ZDC seb14 was registering events before trigger. Reconfigured RCDAQHOST

Summary table

Fill type	Time	Fill #	Run #	Detectors	Raw Rate (kHz)	Scaledown	Scaled Rate (Hz)	# of events	Log/Reason for stopping run	INTT DAC scan number
HCAL LED Run	8:09 AM	-	21887	HCAL	-	-	-	19252	• Regular HCAL LED run	-
Physics, 109x109 bunch fill	8:29 AM	34002	21889	GL1, LL1, MBD, ZDC, EMCAL, HCAL, TPC, TPOT	2.60	4	508	706519	• Check if sebs were the same: all the same 706519	-
HCAL LED Run	9:24 AM	-	21890	HCAL	-	-	-	12465	• Regular HCAL LED run	-
Physics, 109x109 bunch fill	9:45 AM	34002	21891	GL1, LL1, MBD, ZDC, EMCAL, HCAL, TPC, TPOT	2.5	4	480	426827	• Check if sebs were the same: all the same 426827	-
Physics, 109x109 bunch fill	10:59 AM	34002	21892	GL1, LL1, MBD, ZDC, EMCAL, HCAL, TPC, TPOT	2.2	3	530	88622	• ZDC was not updating events	-
HCAL LED Run	12:00 PM	-	21895	HCAL	-	-	-	11853	• Regular HCAL LED run	-
MBD Laser Run	12:06 PM	-	7181208	MBD	-	-	-	-	• 1 MBD laser run. Beam was injected before all 3 could be run	-

Draft

Tue Jul 18 08:00:32 2023

Tanner Mangel & Hao-Ren Jheng

Aug 1st, 2023

1st of August for a few minutes from 08:55 (could be run 23076)

1st of August for a few minutes from 12:28 (could be run 23077)

[illegible]