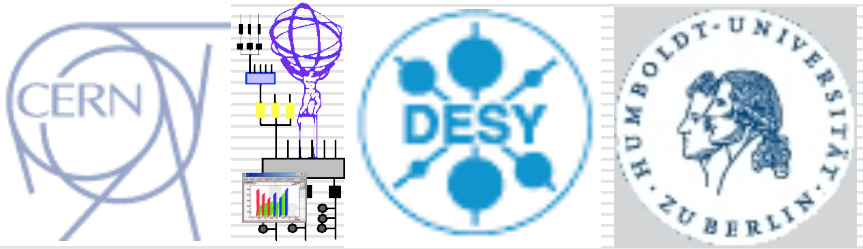
Trigger Presenter

Judita Mamuzic

DESY ATLAS

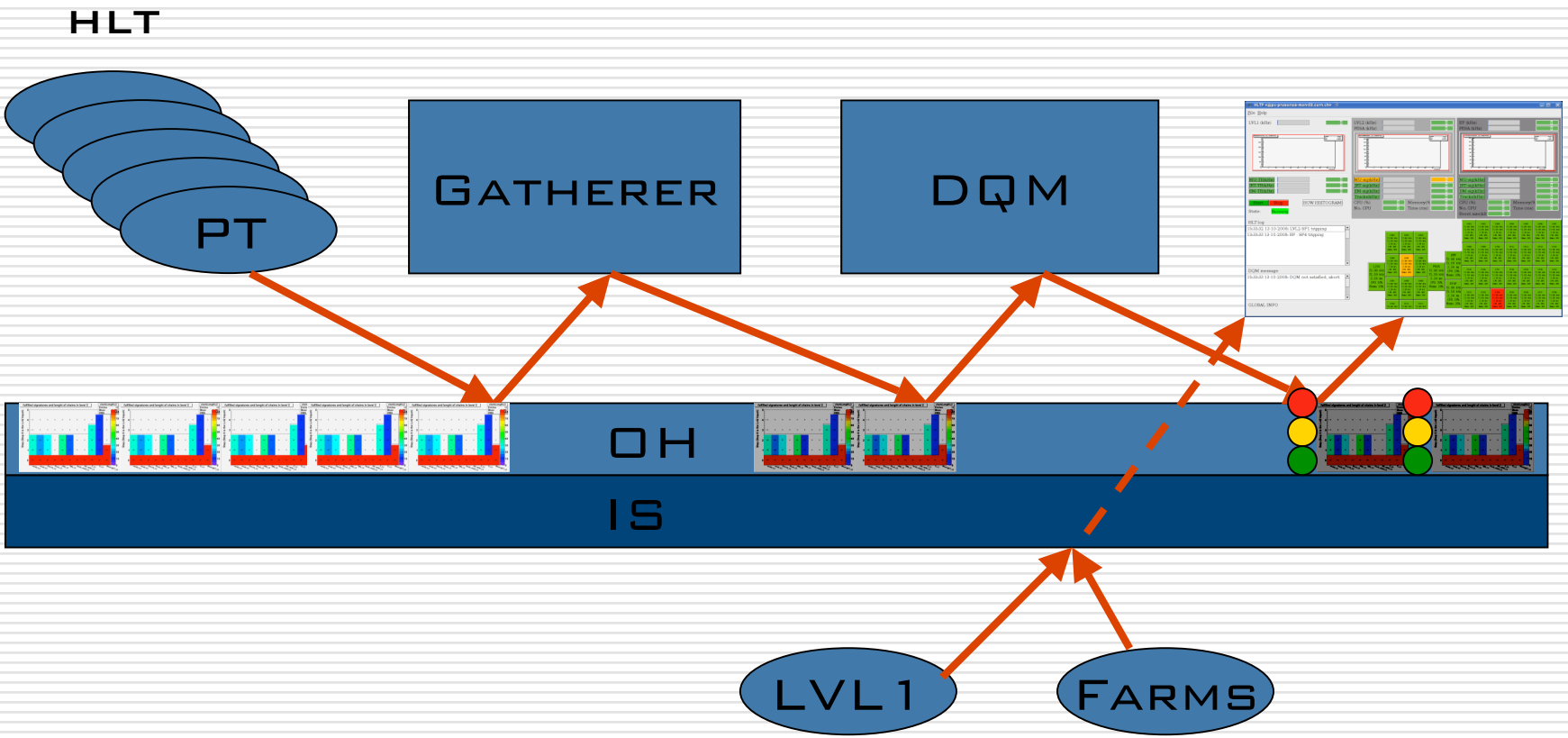
Hamburg 6. 12. 2007



Overview

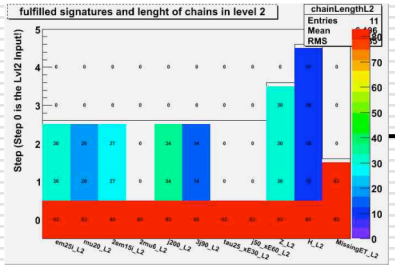
- Introduction
- Implementation
- M5
- November TechRun
- Future Steps
- Conclusion

INTRODUCTION



HLTP -> TRIP

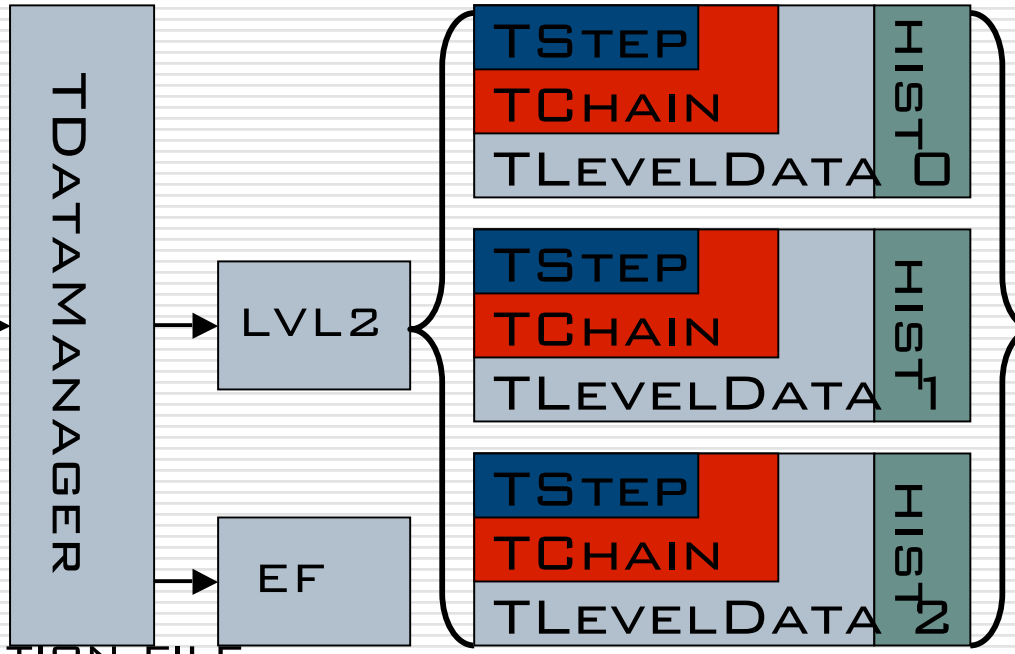
IMPLEMENTATION - OH

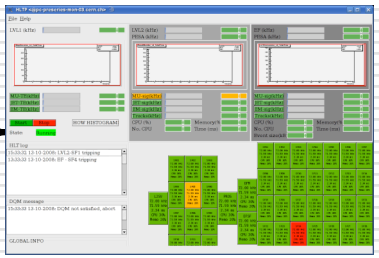


TH2F

HISTOGRAM

FROM DQMF





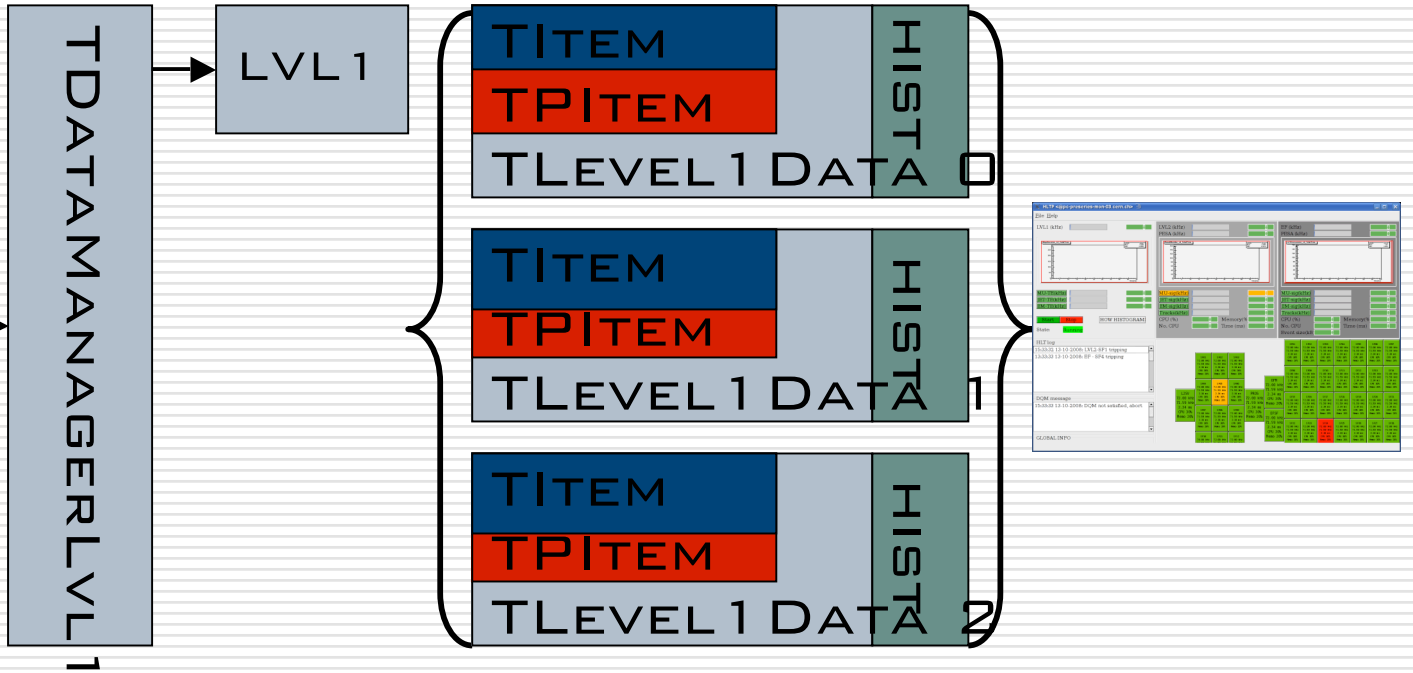
- CONFIGURATION FILE
- RECEIVE HISTOGRAMS AT THE SAME TIME, SORT
- PUT DATA INTO STRUCTURE
- CREATE HISTORY
- PRESENT FLEXIBLE LISTS, TABLES AND GRAPHS

IMPLEMENTAION - IS

IS objects:

LB.*

TrigConfItems.*



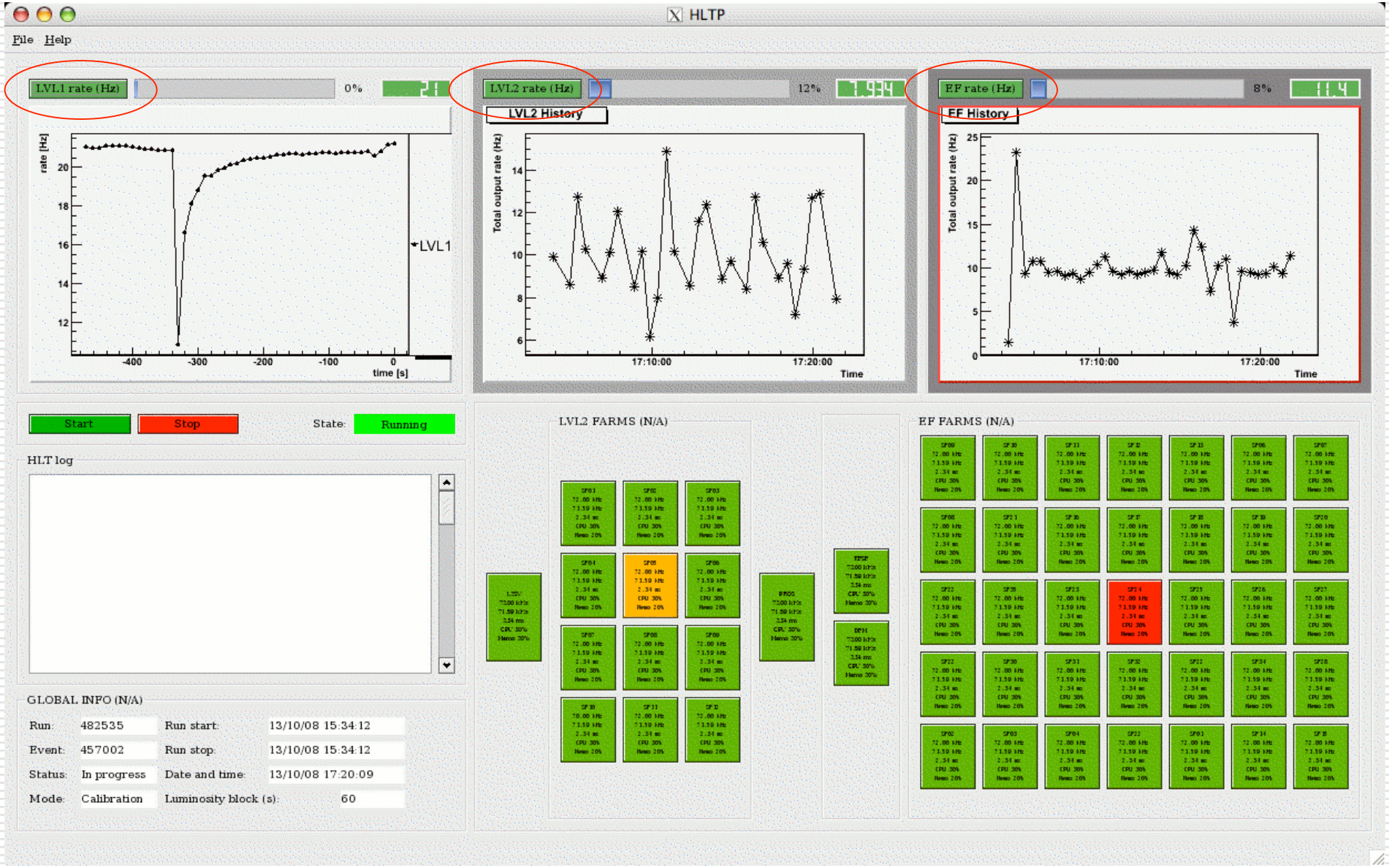
L1 by Andrzei Dvorak

Merging done! (together with Christiane)

cvs co -r TriP-00-00-03 DAQ/online/TriP

M5 (22 Oct -5 Nov)

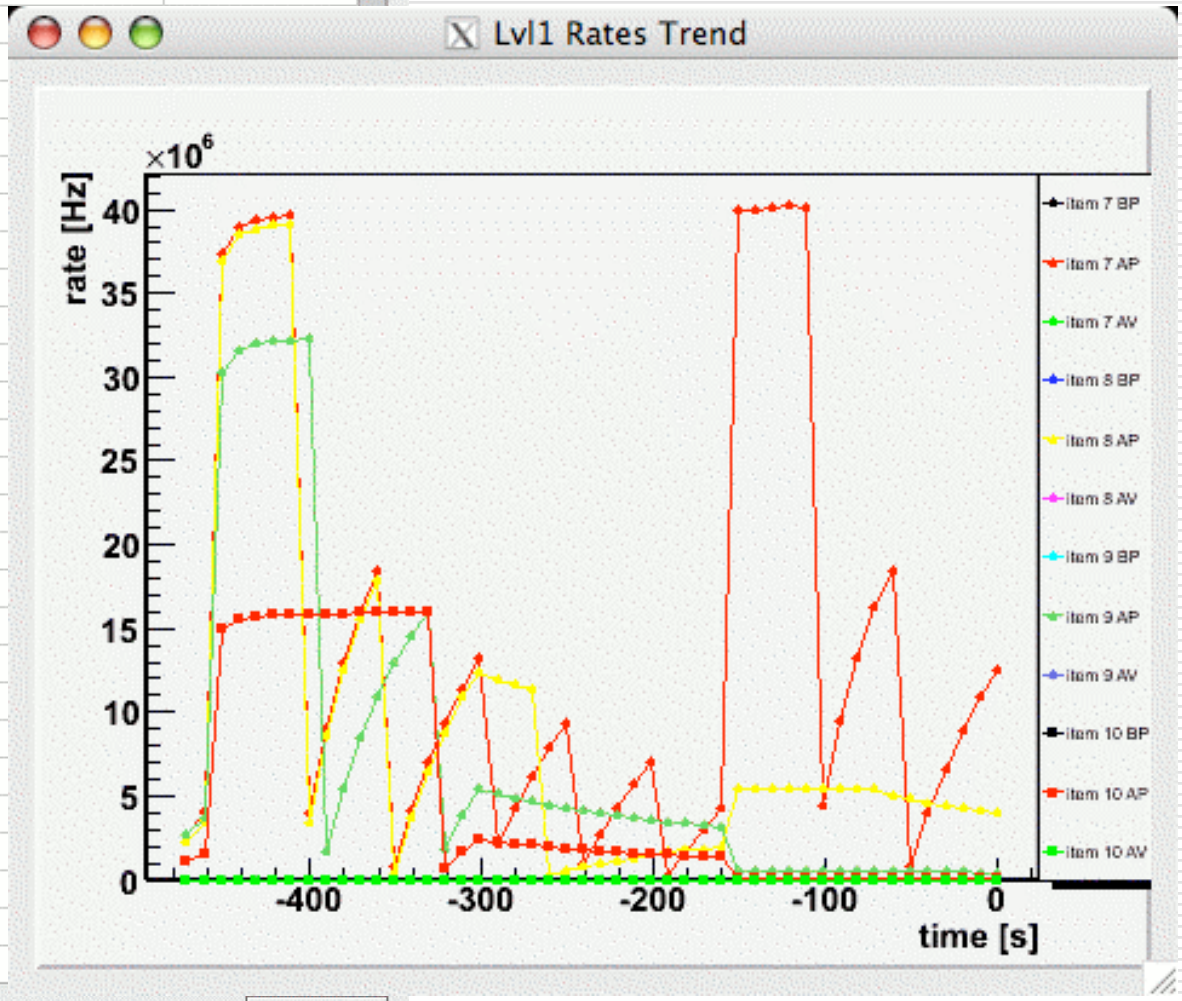
- Mostly short runs with L1 and cosmics for HLT (13.0.30)
- L1 and HLT parts merged and tested
- Used the whole week for both L1 and L2
- Suggested to put TriP into tdaq-01-08-04!

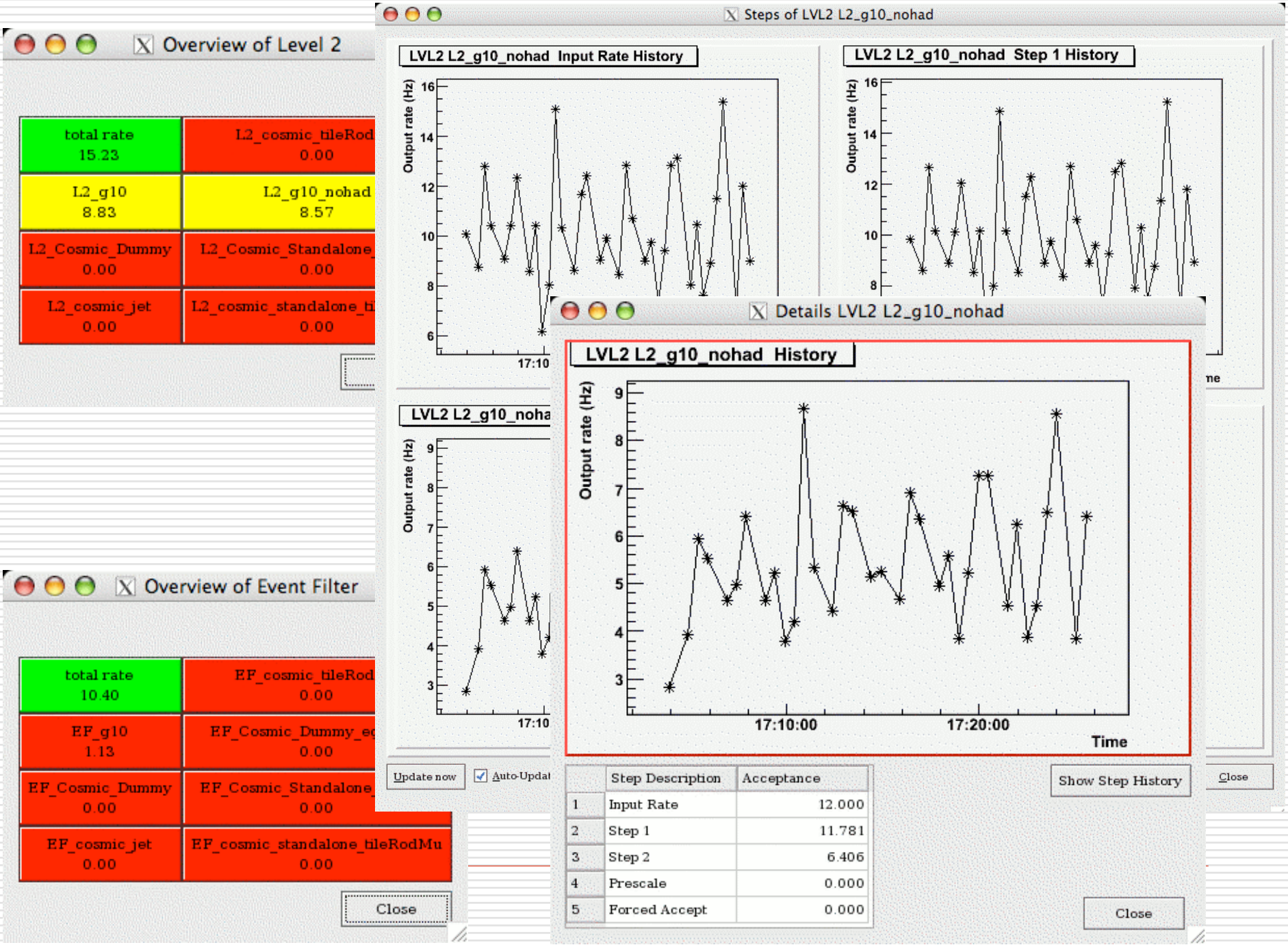

HLTP
File Help
LVL1 rate (Hz)
0%
LVL1
rate [Hz]
time [s]
LVL2 rate (Hz)
12%
LVL2 History
Total output rate (Hz)
Time
17:10:00
17:20:00
EF rate (Hz)
8%
EF History
Total output rate (Hz)
Time
17:10:00
17:20:00
Start
Stop
State:
Running
HLT log
GLOBAL INFO (N/A)
Run: 482535
Run start: 13/10/08 15:34:12
Event: 457002
Run stop: 13/10/08 15:34:12
Status: In progress
Date and time: 13/10/08 17:20:09
Mode: Calibration
Luminosity block (s): 60
LVL2 FARMS (N/A)
EF FARMS (N/A)

CTP Items, retrieving data from: LumiBlock.LB_CTP_29541_00005

	CTP ID	Item Name	Before Prescale	After Prescale	After Veto
1	0		47.15	11.78	11.13
2	1		0	0	0
3	2		60.2	10.02	9.87
4	3		0	0	0
5	4		0	0	0
6	5		0		
7	6		1.86893e+07		
8	7		1.8473e+07		
9	8		5.04255e+06		
10	9		521387		
11	10		68406		
12	11		6876.1		
13	12		0.67		
14	13		0.34		
15	14		0		
16	15		1.23677e+07		
17	16		1.86893e+07		
18	17		947519		
19	18		1806.78		
20	19		68406		
21	20		6875.87		
22	21		1.86836e+07		
23	22		1.86889e+07		
24	23		1.74579e+07		
25	24		5.04188e+06		
26	25		1.86893e+07		
27	26		1.86893e+07		
28	27		1.86893e+07		
29	28		1.86893e+07		
30	29		1.86893e+07		
31	30		1.86893e+07		

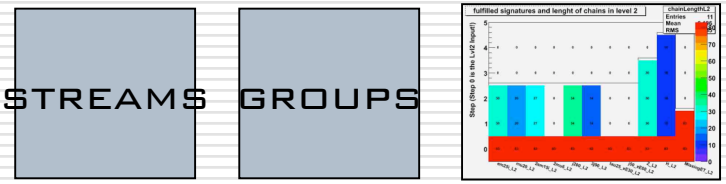
Draw | Clear Selection | Close




Overview of Level 2
total rate
15.23
L2_cosmic_tileRod
0.00
L2_g10
8.83
L2_g10_nohad
8.57
L2_Cosmic_Dummy
0.00
L2_Cosmic_Standalone_
0.00
L2_cosmic_jet
0.00
L2_cosmic_standalone_ti
0.00
Steps of LVL2 L2_g10_nohad
LVL2 L2_g10_nohad Input Rate History
LVL2 L2_g10_nohad Step 1 History
Output rate (Hz)
17:10
LVL2 L2_g10_noha
Details LVL2 L2_g10_nohad
LVL2 L2_g10_nohad History
17:10:00
17:20:00
Time
Update now
Auto-Updat
Step Description
Acceptance
1 Input Rate 12.000
2 Step 1 11.781
3 Step 2 6.406
4 Prescale 0.000
5 Forced Accept 0.000
Show Step History
Close
Overview of Event Filter
total rate
10.40
EF_cosmic_tileRod
0.00
EF_g10
1.13
EF_Cosmic_Dummy_eq
0.00
EF_Cosmic_Dummy
0.00
EF_Cosmic_Standalone_
0.00
EF_cosmic_jet
0.00
EF_cosmic_standalone_tileRodMu
0.00
Close

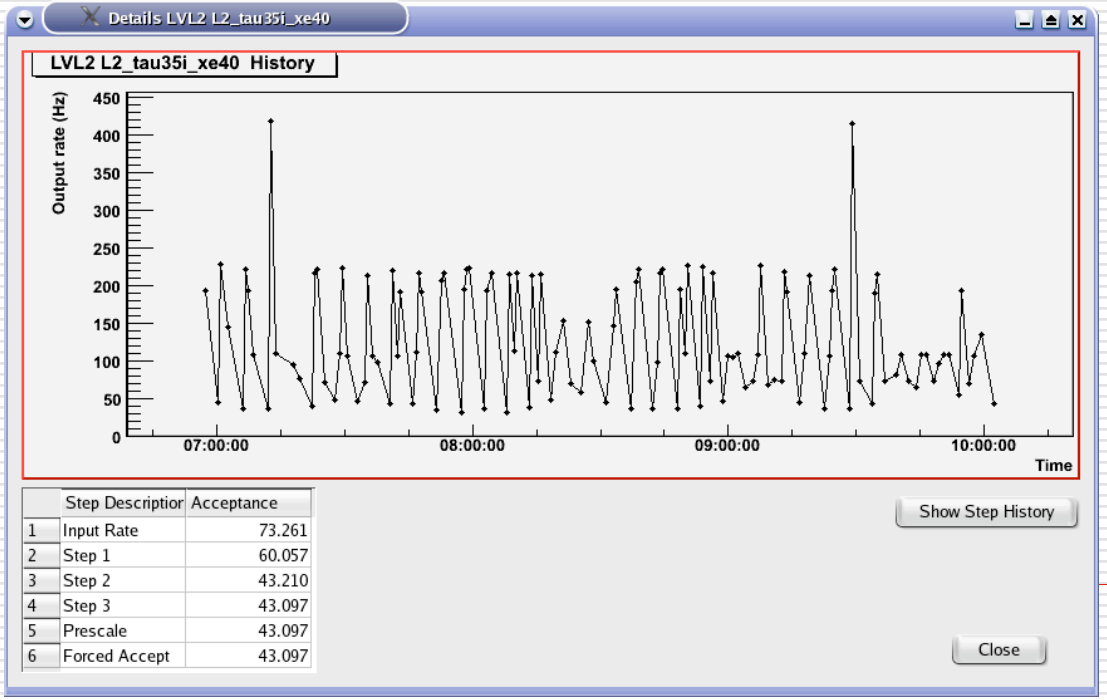
NOVEMBER TECHRUN(19-27 NOV)

- HLT related (HLT 13.0.30.3, tdaq-01-08-03)
- Pre-scalle and Forced Accept added for L2 and EF
- Streams and Groups added in monitoring (Martin and Christiane)



- TriP able to show 247 buttons for each level!

- Item names added (HLT related)
- L1 configuration moved to configuration file



TriP used for debugging:

"TriP rate showed 4x too high EF rate, which led to finding an error with the gatherer configuration (histos were summed 4x)"

More on this from Christiane

FUTUTRE STEPS

- Dividing groups and streams
- Presenting farm information
- HLT log
- Run information

CONCLUSION

- L1 and HLT part of TRIP merged
- Tested with IS and OH both working in M5
- Presenting 247 chain buttons in one level !
- Added new functionalities to be tested in future runs
- From 10 December in tdaq-01-08-04
- Next: Farms