24.11.2006 19:33 Sebastian Schaetzel

absorber studies reverse orientation

202204 ahcBeam -v 13 3 GeV

absorber like for run 202148

2.5M events taken until morning (ca. 10:00) of 25 November.

binary files in the usual place: /pnfs/desy.de/calice/tb-desy/native/dat/

24.11.2006 11:31 Sebastian Schaetzel

MIP calibration module 24 reverse orientation

202178 ahcBeamStageScan -v 13 3 GeV

orientation of cassette 24 changed by inserting it from opposite side into the frame
flchcaldaq01:/caliceon/config/StagePositions_innercore.dat
Note: The positions in this file correspond to the unflipped case!

Corrected position files are : StagePositions_innercoreR.dat
and StagePositions_innercore3R.dat. (YS)

20000 events per position
(+1000 pedestal events before every position)

stopped at position (15,75) after aprox. 250k events (Beni)

202203 ahcBeamStageScan -v 13 3 GeV

scan restarted at position (15,75) using ~/cfg/StagePositions_innercore3.dat

23.11.2006 17:31 Sebastian Schaetzel

MIP calibration inner core module 24 (continued)

202177 ahcBeamStageScan -v 13 3 GeV

continue the scan of run 202176
scanned positions: flchcaldaq01:/caliceon/config/StagePositions_innercore2.dat
After the last position of StagePositions_innercore2.dat was reached, the
stage went to the first position in the file and the scan was repeated.
The run contains the following positions:
- all positions in StagePositions_innercore2.dat
- all positions in StagePositions_innercore2.dat (second round)
- there is no full third round, the following positions were scanned
  before the run was stopped:
  - (45, -15)
  - (15, -15)
  - (-15, -15)
  - (-45, -15)  <-- run stopped while scanning this position

20k events per position
(+1000 pedestal events before every position)
Logbook entry: /CALICEelog/data/2006/47/23.11
23.11.2006 08:50 Sebastian Schaetzel
MIP calibration inner core module 24

202176 ahcBeamStageScan -v 13 3 GeV
scanned positions:
flchcaldaq01:/caliceon/cfg/StagePositions_innercore.dat (not all positions scanned, see below)

like run 202146 but 20000 events per stage position
run stopped at 14:00 for VIP visit to test beam area while scanning position (x,y)=(15,-15)

Logbook entry: /CALICEelog/data/2006/47/21.11
21.11.2006 19:03 Sebastian Schaetzel
absorber studies

202140 ahcBeam -v 13 3 GeV
2.9M events
absorber configuration like September 14
run stopped on November 22, 8:40
stable beam over night:

Logbook entry: /CALICEelog/data/2006/47/21.11
21.11.2006 14:31 Sebastian Schaetzel
MIP calibration inner core module 24

202146 ahcBeamStageScan -v 13 3 GeV
scanned positions:
flchcaldaq01:/caliceon/cfg/StagePositions_innercore.dat
Use only first 56 positions; stage on random walk afterwards.

202143 ahcBeamHoldScan -v 13 3 GeV
-> hold = 15 ticks

module 24 in slot 12, FE1
module currents: 24A (68.3V): 0.06 mA
24B (75.1V): 0.16 mA
beam shutters: +15 except upper = +10
finger counter HV:
channel 2=2200V
channel 3=1850V

Logbook entry: /CALICEelog/data/2006/46/17.11
17.11.2006 17:20
Convertex script restarted for DESY data taking
Hi there,

I have restarted the converter script at DESY for runs which are currently at DESY.

The conversion is based on the version v04-02-02 (i.e. the most recent version) of the converter which was also used at cern. At least the log output looks ok.

Output Path:
/pnfs/desy.de/calice/tb-desy/raw/conv_v0402

Database folder:
cd_calice_v0402_tent (or ...beam if Runnumber exceeds 219999)

Note, that the processing is done in the old fashioned way, since I haven’t yet setup the grid machinery on the DESY computers. If necessary, I can set it up or at least register the files by hand to the grid.

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/46/14.11
14.11.2006 15:38  Doerte David  assembling status
Cassettes 25 and 26 are under construction.

cassettes work in progress: 26
  25

cassettes ready: 24

cassettes at CERN: 1 - 23

Logbook entry: /CALICEelog/data/2006/45/09.11
09.11.2006 08:38  Doerte David  assembling status
In October it was announced that the tiles for cassettes no. 27-28 will be ready not earlier than mid of November.

Now tiles for cassette no. 26 are tested and the cassette is also in the tent for assembling.

cassettes work in progress: 26
  25

cassettes ready: 24

cassettes at CERN: 1 - 23
Logbook entry: /CALICEelog/data/2006/44/01.11
01.11.2006 11:28 Doerte David  assembling status
The two Russian colleagues in the tent are assembling cassette no. 25. Tiles for cassette no. 26 are in the tile test at DESY. Assembling of this cassette will start hopefully beginning of next week.

tile tests at DESY for cassettes: 26
cassettes work in progress: 25
cassettes ready: 24
cassettes at CERN test beam: 1 - 23

Logbook entry: /CALICEelog/data/2006/44/31.10
31.10.2006 12:59 Roman  Killing of scp
Hi there,

I have disabled a ongoing scp job (started by whom?) as I would like to reserve the maximum bandwidth for the data transfer to the desy dcache.

The user should please stand back from restarting it until all data have been shipped out to desy.

The job will be immediately killed if it reappears.

In general there is no need to perform a scp of data to wherever. All data are available on the grid and everyone in calice is welcome to become a member of the vo!!!!

Possible delays cannot be recompensated by private copy actions!!!!

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/44/31.10
31.10.2006
01:49
Roman

Copying and caliceana

Hi there,

the whole situation with caliceana was unstable throughout the whole day. That's why copying (and conversion) is still way behind (ie. we're just at Run320921).

In particular around midnight the caliceana was rebooted three times.

00:00, 00:42 and 01:27 (system time which obviously still runs on CEST).

We never had this frequency of failures before.

Since after a freeze of caliceana a reboot requires a manual intervention someone must have been in the control room. However, no one answered to my phone calls.

The line in the office space (76773) was busy at ~midnight and is free now.

Since all bad things fall together currently the srm-dcache at desy seems to have a problem. I am forced to redirect the data to LAL.

In order to be independent of caliceana I have setup also calice00 as a grid-ui. This seem to work.

Ok, that's it for tonight.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006
16:23
Bernard/George/Yoshi

Shutdown

We made shutdown with switching modules off in beam area.

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006
16:00
Bernard/George/Yoshi

ahcPmLedVcalibScan

000961 ahcPmLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006
15:55
Bernard/George/Yoshi

ahcCmLedVcalibScan
Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
15:39
George/Yoshi
ahc Gain

140 Hz
15 minutes
11 configurations
132k events

Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
15:31
George/Yoshi
muon calibration

Average event rate: 148 Hz
23k counts/spill for 10cmX10cm trigger
156k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 83k events with 6 configurations and 10 minutes.

Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
15:10
George/Yoshi
muon calibration

Average event rate: 155 Hz
24k counts/spill for 10cmX10cm trigger
160k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events with 18 configurations and 26 minutes.

Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
14:41
George/Yoshi
muon calibration

Average event rate: 155 Hz
24k counts/spill for 10cmX10cm trigger
160k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
14:18
George/Yoshi
muon calibration

Average event rate: 155 Hz
24k counts/spill for 10cmX10cm trigger
160k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/44/30.10

30.10.2006
14:07
George/Yoshi
caliceana hung up

~14:00 (PC local time) ~15:00) caliceana was frozen -> Reboot caliceana
14:06 (PC local time) 15:06) >cd /home/calicon/cp_comb
>nohup ./cp_comb.pl &
-> After that, it has hung up again.
-> We left caliceana without login until 16:00 shutdown.
Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 13:47 Bernard/Yoshi muon calibration
300958 beamData -m 1 -n 0 -e 250000 beamData muon

Average event rate: 155 Hz
24k counts/spill for 10cmX10cm trigger
159k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 13:31 Bernard/Yoshi muon calibration
300957 beamData -m 1 -n 0 -e 250000 beamData muon

Average event rate: 110 Hz
24k counts/spill for 10cmX10cm trigger
156k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 12:42 Yoshi muon calibration
300956 beamData -m 1 -n 0 -e 250000 beamData muon

I left this run without sfiter. Looks fine.
TCMT operated with nominal+0.6V.

Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 12:39 Yoshi ahcCmLedVcalibScan
300955 ahcCmLedVcalibScan -m 1 muon

Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 11:54 Yoshi muon calibration
300954 beamData -m 1 -n 0 -e 250000 beamData muon

Average event rate: 93 Hz
24k counts/spill for 10cmX10cm trigger
158k counts/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
Beam is lost after 98k events for a few minutes and it recovered soon.
This run collected 248k events with 27 configurations and 44 minutes.
(After 248k events, beam is lost again.)

Logbook entry: CALICEelog/data/2006/44/30.10
30.10.2006 11:50 Yoshi ahc Gain
300953 ahcGain -m 1

Beam has come back in a way.
This run took 32k events with 3 configurations and 3 minutes.
30.10.2006  Yoshi  muon calibration
300952  beamData -m 1 -n 0 -e 250000 beam data muon

Average event rate: 150Hz
23k particles/spill for 10cmX10cm trigger
156k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

After 212k events, beam is lost.
This run collected 212k events with 15 configurations and 24 minutes.

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  Bernard/George/Yoshi  muon calibration
11:00
300951  beamData -m 1 -n 0 -e 250000 beam data muon

Average event rate: 155Hz
23k particles/spill for 10cmX10cm trigger
156k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
ECAL noisy layers: #9 (hundreds times hits compared with nominal) and #13 (twenty times)

This run collected 250k events with 18 configurations and 26 minutes.

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt/George/Yoshi  muon calibration
10:47
300950  beamData -m 1 -n 0 -e 250000 beam data muon
300949  beamData -m 1 -n 0 -e 250000 beam data muon
300948  beamData -m 1 -n 0 -e 250000 beam data muon stopped at 238k events

TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  Copy script restarted
10:42
Hi there,
I have restarted the copy script.
Copying resumed with run 300908.
Cheers,

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  muon calib, beam data
08:52
300947  beamData -m 1 -n 0 -e 250000 beam data muon

Average event rate: 50Hz
24k particles/spill for 10cmX10cm trigger
154k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  ahcCmNoise
08:49
300946  ahcCmNoise
there is beam, but let that run for 80k trigs also, ~8'
Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  ahcPmNoise
08:41
300943ahcPmNoise
beam back after 4 (32k trigs) but go on until 80k

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  ahcCmLedVcalibScan
08:31
300944ahcCmLedVcalibScan

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  ahcPmLedVcalibScan
08:21
300943ahcPmLedVcalibScan

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  NO beam for the last 15'
08:14

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt  ahc Gain
08:11
300942ahcGain -m 1 -t ahcGain

Logbook entry: /CALICEelog/data/2006/44/30.10
30.10.2006  bqt
07:54
caliceana hangs about every hour,
rebooted 5 times since yesterday evening
last hang was circa 2:30, last reboot 7:35

Logbook entry: /CALICEelog/data/2006/44/30.10
29.10.2006  bqt  beamData
20:27
300918beamData -m 1 -n 0 -e 250000 -v 19 -t beamData
TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006  bqt  caliceana rebooted
20:17
found caliceana hanged - clock frozen at 19:58 (legal time= 18:58)
rest at -19:10

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 George/Yoshi  muon calibration

300917 beamData -m 1 -n 0 -e 250000 -v 19 muon

Average event rate: 150Hz
24k particles/spill for 10cmX 10cm trigger
159k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

We left this run without shifters.

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  muon calibration

300917 beamData -m 1 -n 0 -e 250000 -v 19 muon

Average event rate: 150Hz
25k particles/spill for 10cmX 10cm trigger
162k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with 18 configurations and 27 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  muon calibration

300917 beamData -m 1 -n 0 -e 250000 -v 19 muon

Average event rate: 153Hz
24k particles/spill for 10cmX 10cm trigger
160k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with 18 configurations and 27 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  muon calibration

300917 beamData -m 1 -n 0 -e 250000 -v 19 muon

Average event rate: 150Hz
25k particles/spill for 10cmX 10cm trigger
158k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with ~30 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  ahcPmLedVcalibScan

300913 ahcPmLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  ahcCmLedVcalibScan

300912 ahcCmLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006 George/Yoshi  ahcGain
Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 15:48 George/Yoshi  muon calibration
300911 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

Average event rate: 70Hz
15k particles/spill for 10cmX10cm trigger
98k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

Beam is lost after 169k events.
This run collected 169k events with 27 configurations and 41 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 15:21 George/Yoshi  muon calibration
300910 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

Average event rate: 153Hz
4k particles/spill for 10cmX10cm trigger
28k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with 18 configurations and 27 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 14:42 George/Yoshi  muon calibration
300908 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

Average event rate: 106Hz
4k particles/spill for 10cmX10cm trigger
28k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with 24 configurations and 40 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 14:28 George/Yoshi  muon calibration
300907 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

Average event rate: 140Hz
8k particles/spill for 10cmX10cm trigger
52k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events with 18 configurations and 30 minutes.

Logbook entry: /CALICEelog/data/2006/43/29.10
29.10.2006 14:26 George/Yoshi  muon calibration
300906 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

We left these runs without shifters. Looks fine.
TCMT operated with nominal+0.6V.
These runs would collect 250k events respectively.
Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
12:06 muon calibration
300903 beamData -m 1 -n 0 -e 250000 -v 18

Event rate at beginning: 150Hz
2k particles/spill for 10cmX 10cm trigger
15k particles/spill for 100cmX100cm trigger at the beginning of the run.
TCMT operated with nominal+0.6V.

I left this run without shifter just after starting.
This run would collect 250k events.

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
11:15 muon calibration
300902 beamData -m 1 -n 0 -e 250000 -v 18

Average event rate: 80Hz
8k particles/spill for 10cmX 10cm trigger
53k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run corrected 250k events with 33 configurations and 51 minutes.

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
10:48 muon calibration
300901 beamData -m 1 -n 0 -e 250000 -v 18

Average event rate: 150Hz
8k particles/spill for 10cmX 10cm trigger
52k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

This run collected 250k events.
Event rate was high during whole of this run. Less than 30 minutes to take 250K events.

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
10:39 ahcPmLedVcalibScan
300900 ahcPmLedVcalibScan -m 1

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
10:35 ahcCmLedVcalibScan
300899 ahcCmLedVcalibScan -m 1

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006 Yoshi
10:17 ahcGain
300898 ahcGain -m 1

140 Hz
15 minutes
11 configurations
132k events

Logbook entry: CALICE eLogbook/data/2006/43/29.10
29.10.2006  Yoshi  muon calibration

Event rate: 80Hz
5k particles/spill for 10cmX10cm trigger
32k particles/spill for 100cmX100cm trigger
In some periods, events rate was very low.
TCMT operated with nominal+0.6V.

250k events are collected.

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006  Yoshi  muon calibration

Event rate: 70Hz
TCMT operated with nominal+0.6V.
237k events are collected.
(300896 is junk run.)

Logbook entry: /CALICEelog/data/2006/43/29.10

29.10.2006  Yoshi  muon calibration over-night runs

Everything was normal when I arrived control room in this morning.
These runs would take 250k events respectively. (Probably, they include some noise events during no beam.)
TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/43/28.10

28.10.2006  Roman  Copy Script and Converter

Hi there,
I have restarted the copy script.
Copying resumed with run 300852.
Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/43/28.10

28.10.2006  George/Yoshi  muon calibration

Logbook entry: /CALICEelog/data/2006/43/28.10

28.10.2006  Yoshi  muon calibration
Average event rate: 80 Hz
TCMT operated with nominal+0.6V.
We left this run for overnight run.
This run would collect 250k events.

muon calibration

Average event rate: 80 Hz
41k particles/spill for 10cmX10cm trigger
260k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
I left this run without shifter after starting.
This run would collect 250k events.

muon calibration run

Average event rate: 80 Hz
41k particles/spill for 10cmX10cm trigger
260k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
I left this run without shifter after starting.
This run would collect 250k events.

ahcPmLedVcalibScan

ahcCmLedVcalibScan

ahcGain

140 Hz
15 minutes
11 configurations
132k events

muon calibration
300868 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

Average event rate; 50Hz
34k particles/spill for 10cmX10cm trigger
193k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.

Beam was not stable.
Stopped at ~200k events.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006  15:16 Yoshi  muon calibration
300867 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

Average event rate; 120Hz
23k particles/spill for 10cmX10cm trigger
193k particles/spill for 100cmX100cm trigger
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006  14:49 Yoshi  muon calibration
300866 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

Average event rate; 120Hz
23k particles/spill for 10cmX10cm trigger
14k particles/spill for 100cmX100cm trigger
ECAL noisy layer; #9 and #11
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006  14:43 Yoshi  muon calibration
300865 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

We left these runs without shifters. Looks fine.
TCMT operated with nominal+0.6V.
These run would collect 250k events respectively.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006  11:53 George/Yoshi  muon calibration
300864 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

Average event rate; 100Hz
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006  11:02 George/Yoshi  muon calibration
300862 beamData -m 1 -n 0 -e 250000 -v 19 muon [1]

Average event rate; 90Hz
TCMT operated with nominal+0.6V.
This run collected 250k events.
28.10.2006 George/Yoshi muon calibration

```
300861 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

Average event rate; 80Hz
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/28.10

10:06 28.10.2006 George/Yoshi ahcPmLedVcalibScan

```
300860 ahcPmLedVcalibScan -m 1
```

100 Hz
5 minutes
32 configurations
32k events

Logbook entry: /CALICEelog/data/2006/43/28.10

10:00 28.10.2006 George/Yoshi ahcCmLedVcalibScan

```
300859 ahcCmLedVcalibScan -m 1
```

100 Hz
3 minutes
21 configurations
21k events

Logbook entry: /CALICEelog/data/2006/43/28.10

09:56 28.10.2006 George/Yoshi junk run

run 300857 is junk run. (It is operated only for a few seconds by automatical run starting procedure.)

Logbook entry: /CALICEelog/data/2006/43/28.10

09:52 28.10.2006 George/Yoshi ahcGain

```
300858 ahcGain -m 1
```

140 Hz
15 minutes
11 configurations
132k events

Logbook entry: /CALICEelog/data/2006/43/28.10

09:41 28.10.2006 George/Yoshi muon calibration

```
300856 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

Average event rate; 70Hz
TCMT operated with nominal+0.6V.
This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/28.10

09:24 28.10.2006 George/Yoshi muon calibration over-night runs

```
300844 beamData -m 1 -n 0 -e 250000 -v 19 muon
300845 beamData -m 1 -n 0 -e 250000 -v 19 muon
300846 beamData -m 1 -n 0 -e 250000 -v 19 muon
300847 beamData -m 1 -n 0 -e 250000 -v 19 muon
300848 beamData -m 1 -n 0 -e 250000 -v 19 muon
300849 beamData -m 1 -n 0 -e 250000 -v 19 muon
300850 beamData -m 1 -n 0 -e 250000 -v 19 muon
300851 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

10:12 28.10.2006 George/Yoshi muon calibration over-night runs

```
300852 beamData -m 1 -n 0 -e 250000 -v 19 muon
300853 beamData -m 1 -n 0 -e 250000 -v 19 muon
300854 beamData -m 1 -n 0 -e 250000 -v 19 muon
300855 beamData -m 1 -n 0 -e 250000 -v 19 muon
300856 beamData -m 1 -n 0 -e 250000 -v 19 muon
300857 beamData -m 1 -n 0 -e 250000 -v 19 muon
300858 beamData -m 1 -n 0 -e 250000 -v 19 muon
300859 beamData -m 1 -n 0 -e 250000 -v 19 muon
300860 beamData -m 1 -n 0 -e 250000 -v 19 muon
300861 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

10:13 28.10.2006 George/Yoshi muon calibration over-night runs

```
300862 beamData -m 1 -n 0 -e 250000 -v 19 muon
300863 beamData -m 1 -n 0 -e 250000 -v 19 muon
300864 beamData -m 1 -n 0 -e 250000 -v 19 muon
300865 beamData -m 1 -n 0 -e 250000 -v 19 muon
300866 beamData -m 1 -n 0 -e 250000 -v 19 muon
300867 beamData -m 1 -n 0 -e 250000 -v 19 muon
300868 beamData -m 1 -n 0 -e 250000 -v 19 muon
300869 beamData -m 1 -n 0 -e 250000 -v 19 muon
300870 beamData -m 1 -n 0 -e 250000 -v 19 muon
300871 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

10:14 28.10.2006 George/Yoshi muon calibration over-night runs
Everything was normal except for monitoring PC have frozen when we arrived control room in this morning. Yesterday's over-night runs would be fine and #300843~#300855 would take 250k events respectively. (Probably, they include some noise events during no beam.)

TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/43/28.10
28.10.2006 03:46
Hi there,
in order to free some space on the calice disks in the control room, I have deleted the files for Run 300636-300800 from the disk after having verified that they were properly transferred to desy.

After the deletion of the files more than 1 TByte is available on the /srv/calice/data00/ disk which should by far be enough for the remaining running.

The procedure is realized by three scripts, two to be executed on the control room computers, one to be executed at desy. The scripts check the file sizes of the files on our disk(s) and the size of the copied files at desy. If they agree a validation flag is set which indicates that a given file is ready to be deleted.

The delete action is logged in a separate file with date and the username of the user who has performed the action. In addition the check results are stored as well.

In the future the check should be performed by using md5 checksums. This was not possible this time due to inconsistencies observed with the files on the control rooms disks when building these sums. These problems are likely to be related to the disk problems which were observed during the last weeks.

On request I will instruct people on how to use the scripts.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 22:07 George/Yoshi muon calibration
300842 beamData -m 1 -n 0 -e 250000 -v 19 muon

This run collected 250k events.

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 22:07 George/Yoshi muon calibration
300842 beamData -m 1 -n 0 -e 250000 -v 19 muon

Average event rate:120Hz
TCMT operated with nominal+0.6V.

Left for over night runs.

This run would collect 250k events.
27.10.2006  George/Yoshi  muon calibration

`300841 beamData -m 1 -n 0 -e 250000 -v 19 muon` ||| ![](image)

Average event rate; 120Hz
TCMT operated with nominal+0.6V.
This run collected 250k events.

---

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  muon calibration

`300840 beamData -m 1 -n 0 -e 250000 -v 19 muon` ||| ![](image)

Average event rate; 120Hz
ECAL additional noisy layer; #9
TCMT operated with nominal+0.6V.
This run collected 250k events.

---

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  muon calibration

`300839 beamData -m 1 -n 0 -e 250000 -v 19 muon` ||| ![](image)

Average event rate; 50Hz
Event rate increased at the end periods of this run compared with the beginning.
TCMT operated with nominal+0.6V.
This run collected 250k events.

---

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  muon calibration

`300838 beamData -m 1 -n 0 -e 250000 -v 19 muon` ||| ![](image)

Average event rate; 45Hz
37k particles/spill for 10cmX10cm trigger
230k particles/spill for 100cmX100cm trigger at the beginning of this run.
In some periods, trigger rate is very low during this run.
ECAL additional noisy layer; #24 (very noisy as more than 20 times of nominal.)
TCMT operated with nominal+0.6V.
This run collected 250k events.

---

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  muon calibration

`300837 ahcPmLedVcalibScan -m 1` ||| ![](image)

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  ahcCmLedVcalibScan

`300836 ahcCmLedVcalibScan -m 1` ||| ![](image)

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006  George/Yoshi  ahcGain

`300835 ahcGain` ||| ![](image)
Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 16:43 George/Yoshi muon calibration
300834 beamData -m 1 -n 0 -e 250000 -v 19 muon
Event rate; 30Hz
39k particles/spill for 10cmX10cm trigger
230k particles/spill for 100cmX100cm trigger
Sometimes, trigger rate is very low; several particles/spill for 10cmX10cm trigger and a few hundreds particles/spill for 100cmX100cm trigger. Beam was not stable during this run. This run is not clean events sample.
This run collected 30k events. (After that, beam is lost again.)
TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 16:33 George/Yoshi ahcGain
300833 ahcGain -m 1
120Hz
7 minutes
5 configuration
59k events
Stopped after 5 configurations because beam come back.

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 16:13 George/Yoshi muon calibration
300832 beamData -m 1 -n 0 -e 250000 -v 19 muon
Event rate; 50Hz
37k particles/spill for 10cmX10cm trigger
230k particles/spill for 100cmX100cm trigger
This run collected 34k events. (After that, beam is lost again.)
Beam was not stable.
TCMT operated with nominal+0.6V.

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 16:08 George/Yoshi ahcGain
300831 ahcGain -m 1
This is stopped after 4 configuration because beam come back. (36k events are taken)

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 14:59 Erika/Marius/George/Yoshi muon calibration
300830 beamData -m 1 -n 0 -e 250000 -v 19 muon
Event rate; 70Hz
35k particle/spill for 10cmX10cm trigger
230k particle/spill for 100cmX100cm trigger
This run collected 180k events. (After 180k events, beam is lost.)
TCMT operated with nominal+0.6V.

Logbook entry: /CALICElog/data/2006/43/27.10  
27.10.2006 14:56 Marius/George/Yoshi  
higher HV for TCMTs

```plaintext
//HV # ; maxVoltage ; maxCurrent ; initVoltage ; comment
37 ; 56.8 ; 100 ; 10.00 ; TCMT 1a
38 ; 46.3 ; 150 ; 10.00 ; TCMT 1b
39 ; 67.6 ; 150 ; 10.00 ; TCMT 2a
40 ; 76.6 ; 150 ; 10.00 ; TCMT 2b
```

optimised voltage +0.3V

new filename: CERN_271006_optimised.txt
loaded and ramped up

Logbook entry: /CALICElog/data/2006/43/27.10  
27.10.2006 13:49 Marius/George/Yoshi  
uMuon calibration

```
300829 beamData -m 1 -n 0 -e 250000 -v 18 -muon
```

Event rate; 60Hz
35k particle/spill for 10cmX10cm trigger
222k particle/spill for 100cmX100cm trigger
230k events are collected

Logbook entry: /CALICElog/data/2006/43/27.10  
27.10.2006 12:41 Marius/George/Yoshi  
uMuon calibration

```
300828 beamData -m 1 -n 0 -e 250000 -v 18 -muon
```

Event rate; 60Hz
35k particle/spill for 10cmX10cm trigger
222k particle/spill for 100cmX100cm trigger
This run collected 250k events.

Logbook entry: /CALICElog/data/2006/43/27.10  
27.10.2006 12:24 Marius/George/Yoshi  
temperature status

black: goal of the heating up
red: temperature during the last week of data taking
green: temperature before starting the heating up
blue: temperature during heating up
yellow: temperature during heating up
**Logbook entry: /CALICEelog/data/2006/43/27.10**

**27.10.2006 11:54**  Yoshi  
ECAL noisy layers; 1, 2, 5, 6, 20, 21, 22 and 25. (1, 2 and 5 are very noisy. Others are a few times hits compared with nominal layers.)

I guess some of them can be solved just only with taking correspond readout board off from crate and insert again. If it doesn't help, replacing capacitance on the board with larger capacity may be useful.

**Logbook entry: /CALICEelog/data/2006/43/27.10**

**27.10.2006 11:30**  Marius/George/Yoshi  
**investigation of HV #10**

two observations:
- since we have turned off the three cooling fans, some HV channels show increasing currents... this is true for HV channels, which are connected to modules in the dense part of the AHCAL
- the problematic channel 10 shows a steeper increase of current with temperature and a big jump to higher current already yesterday morning

=> the guess is that one or two SiPMs have developed high current, but at the moment we can not identify them
Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 11:20 Marius/George/Yoshi
muon calibration

30827 beamData -m 1 -n 0 -e 250000 -v 19 [muon]

Event rate; 70Hz
35k particle/spill for 10cmX10cm trigger
222k particle/spill for 100cmX100cm trigger

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 11:19 Marius/George/Yoshi
HV channel 10 went over current limit

the upper purple curve has increased in the last 2 h;
-maybe correlated to temperature increase (module 9 is in the dense part of the AHCAL)
-since the current for this channel was always relatively high ~280mA, we do nothing at the moment
Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 11:10 Marius/George/Yoshi junk run
300825 beamData -m 1 -n 0 -e 250000 -v 19 [ muon ]

Event rate: 10 Hz

After a few minutes from starting this run, beam is lost.
-> This run is junk run.

'RELOAD HCAL DAC SETTING' is push in a way for HCAL HV setting. (300826 is also junk run.)

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 11:07 Marius/George/Yoshi ahcCmLedVcalibScan
300824 ahcCmLedVcalibScan -m 1

110 Hz
2 minutes
21 configurations
21k events

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 11:02 Marius/George/Yoshi ahcPmLedVcalibScan
300823 ahcPmLedVcalibScan -m 1

110 Hz
4 minute
32 configurations
32k events

Logbook entry: /CALICEelog/data/2006/43/27.10
27.10.2006 10:44 Marius/George/Yoshi ahcGain
300822 ahcGain -m 1

120 Hz
17 minutes
11 configurations
130k events
Logbook entry: CALICEelog/data/2006/43/27.10
27.10.2006 10:14  
**temperature status**
  temperature of the modules in the dense part of the AHCAL is still rising; outer modules are following the normal day/night hall cycle

Logbook entry: CALICEelog/data/2006/43/27.10
27.10.2006 09:44  
**muon calibration**

```
300821 beamData -m 1 -n 0 -e 250000 -v 19 muon
```

Event rate: 50Hz
11k particles/spill for 10cmX10cm trigger (H6B_EXPT02)
77k particles/spill for 100cmX100cm trigger (H6B_EXPT03)
248K events collected

Logbook entry: CALICEelog/data/2006/43/27.10
27.10.2006 09:34  
**ECAL Slow control reboot**

ECAL slow control +6 Volts's status was red. (It is green in normal state.) -> Power recycling for ECAL slow control main power supply plug (on the fence located close to the beam area) -> couldn't solve -> Reboot ECAL slow controller PC -> O.K.

Logbook entry: CALICEelog/data/2006/43/27.10
27.10.2006 00:47  
**muon calibration**

```
300815 beamData -m 1 -n 0 -e 250000 -v 19 muon
300816 beamData -m 1 -n 0 -e 250000 -v 19 muon
300817 beamData -m 1 -n 0 -e 250000 -v 19 muon
300818 beamData -m 1 -n 0 -e 250000 -v 19 muon
300819 beamData -m 1 -n 0 -e 250000 -v 19 muon
300820 beamData -m 1 -n 0 -e 250000 -v 19 muon
```
night runs
SPS was running fine over night

Logbook entry: /CALICEellog/data/2006/43/27.10
27.10.2006 00:39 Marius temperature stabilisation
it looks like that the temperature is still increasing in the inner part; since we are not the only detector we resume the normal muon calibration
the temperature has increased but not to the level of the begin of the run period

Logbook entry: /CALICEellog/data/2006/43/26.10
27.10.2006 00:09 Marius gain calibration
300811 ahcGain -m 1
300812 ahcPmNoise -m 1 -e 50000
300813 ahcCmLedVcalibScan -m 1 -e 50000 -e option was wrongly chosen but has no effect
300814 ahcPmLedVcalibScan -m 1
CMBS switch on again
=> all seem to be alive

Logbook entry: /CALICEellog/data/2006/43/26.10
26.10.2006 22:15 caliceon@calichecalsc03.cern.ch (CALICE user) temperature development
rise on the right side due to the turning off of three fans (see earlier entry)
Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 21:05  Marius  muon calibration

<table>
<thead>
<tr>
<th>Date</th>
<th>Command</th>
<th>Modules</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>300808</td>
<td>beamData -m 1 -n 0 -e 250000 -v 2</td>
<td>muon on</td>
<td>CMB on</td>
</tr>
<tr>
<td>300809</td>
<td>beamData -m 1 -n 0 -e 250000 -v 2</td>
<td>muon off</td>
<td>CMB off</td>
</tr>
<tr>
<td>300810</td>
<td>beamData -m 1 -n 0 -e 250000 -v 2</td>
<td></td>
<td>CMB off/ stopped after ~180K events</td>
</tr>
</tbody>
</table>

since the AHCAL is still heating up, we take two small samples with the 20x20 scintillator trigger:
- get an enriched muon run for the ECAL
- make a comparison between CMB on/off

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 21:00  Marius  gain calibration

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 19:24  Marius  temperature change

the loss of cooling becomes visible:
- HAB temperature sensors are getting hotter
- module sensors are not going anymore parallel but they start to cross! upper part of the detector is heating faster
- steeper rise in the dense part of the AHCAL

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 19:05  Marius  detailed vcalibscan

<table>
<thead>
<tr>
<th>Date</th>
<th>Command</th>
<th>Modules</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>300805</td>
<td>ahcCmLedVcalibScan -m 1</td>
<td>special</td>
<td>detailed vcalibscan</td>
</tr>
<tr>
<td>300806</td>
<td>ahcPmLedVcalibScan -m 1</td>
<td>special</td>
<td>detailed vcalibscan</td>
</tr>
</tbody>
</table>

do now the requested special vcalibscans:
- no good beam due to long CERF access
- using the led system maybe helps to heat up the system
-until now no effect of the fan disconnection is visible

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 17:23 Marius muon calibration
300804 beamData -m 1 -n 0 -e 250000 -v 19 muon

since I can not observe any significant temperature change after switching off the fans, we will
try to increase the "standard" muon sample until the effect becomes visible
in the slow control

18:00 no beam from LINAC
19:00 no good beam
stopped after 80K

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 17:20 Marius beam is back

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 17:20 Marius gain calibration
300803 ahcGain -m 1

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 17:10 Marius led calibration
300797 ahcGain -m 1
300798 ahcCmLedVcalibScan -m 1
300799 ahcFmLedVcalibScan -m 1
300800 ahcCmNoise -m 1 -e 50000
300801 ahcFmNoise -m 1 -e 50000
300802 ahcGain -m 1

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 16:45 Marius reduce cooling of AHCAL
do key access to disconnect the three newest fans for the AHCAL:
- top of VFE
- side of VFE (silver fans from Bouquet)

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 15:27 Marius no beam between 15:30 and 16:30
no beam between 15:30 and 16:30

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 14:36 Marius muon calibration
300796 beamData -m 1 -n 0 -e 250000 -v 19 muon stopped after 100K

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 13:16 Marius gain calibration
Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 13:02 Marius muon calibration

300793 beamData -m 1 -n 0 -e 250000 -v 19 muon stopped after 50K

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 12:10 caliceon@calicehcalsc03.cern.ch (CALICE user) the hall is colder
Apart from the temperature dip we see also that the hall temperature is going down.

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006 11:46 caliceon@calicehcalsc03.cern.ch (CALICE user) temperature dip
we have seen during the Machine day a drop in temperature in the AHCAL... maybe because the CMBs were on but not pulsing???
Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006
09:35 Marius
muon calibration

Logbook entry: /CALICEelog/data/2006/43/25.10
26.10.2006
09:07 Marius
HDD failure detected again
Since yesterday we had three times the following error on the HDD display:
"Power supply failure detected"
it is possible to get rid of the red led by clicking twice on the ESC button on the HDD
display,... but we do not know if it is a safe method
it seems that the data are nevertheless written to the disc and the DAQ has not crashed
But it is a little bit scarying.

Logbook entry: /CALICEelog/data/2006/43/26.10
26.10.2006
09:02 Marius
gain calibration

Logbook entry: /CALICEelog/data/2006/43/25.10
26.10.2006
08:58 Marius
supercycle change
from 14.4 s to 34.8 s

Logbook entry: /CALICEelog/data/2006/43/25.10
26.10.2006
00:14 Marius
muon calibration
300776 beamData -m 1 -n 0 -e 250000 -v 19 muon stopped after 132K events

back at 8:50
all detectors are ok
we do not know the ratio of muons/pedestal:
-SPS was only for one hour off
-we do not know how many accesses the CERF people have performed

Logbook entry: /CALICEelog/data/2006/43/25.10
25.10.2006 22:56 Marius
muon calibration

a lot of beam off time and CERF accesses => many pedestals

Logbook entry: /CALICEelog/data/2006/43/25.10
25.10.2006 22:22
pedestal oscillation

pedestal shift oscillation pattern is back:
we have observed already last week a change in the AHCAL pedestals in the sense that the first half chip0-5 stays constant and the second half chip6-11 decreases in an oscillation shape.

=> maybe different temperature changes?
the enclosed PS file shows from page 6 on this feature and on other pages also the nice improvement in the ECAL layers.
The ECAL noise situation in the three noisy layers has improved significantly!

ECAL noise

Logbook entry: /CALICEelog/data/2006/43/25.10

muon calibration

Logbook entry: /CALICEelog/data/2006/43/25.10

gain calibration

Logbook entry: /CALICEelog/data/2006/43/25.10

beam is on

Logbook entry: /CALICEelog/data/2006/43/25.10

SPS is back to life
During the last two days the hall has cooled down: ~1° Celsius cooler
During the day/last 4 hours the temperature has increased again about 0.2-0.3° Celsius

no beam
due to CPS main power supply problem / specialist working

runnerDefine.icc changes:
following lines have to be commented

calice00:
  1. define BML_CAEN767_CRATE 0xac 1.
calice02:
  1. define BML_CAEN767_PCI 1.
  2. define BML_CAEN767_CRATE 0xac 2.

hold value reduced from 4 to 2 ticks

Since we will start from this evening on with muon calibration, we have to adjust our hold
values
to the slower 1x1m scintillator trigger
- no change in mapping or vcalib

filename: AHC_CERN_251006_300761_321112.cfg
9 4 AHCAL DAC_module15.dat 69 39 1 42200 46000
9 5 AHCAL DAC_module17.dat 60 33 1 28000 32000
9 7 AHCAL DAC_module18.dat 70 33 2 42000 46000
15 3 AHCAL DAC_module21.dat 62 33 0 28000 32000
15 4 AHCAL DAC_module22.dat 60 33 1 28000 32000
15 7 AHCAL DAC_module19.dat 62 34 3 28000 32000
17 0 AHCAL DAC_module16.dat 61 33 0 28000 32000
17 1 AHCAL DAC_module20.dat 60 33 0 28000 32000
17 3 AHCAL DAC_module10.dat 67 35 5 42000 46000
17 4 AHCAL DAC_module01.dat 62 34 2 42000 46000
17 5 AHCAL DAC_module02.dat 65 32 1 42000 46000
17 6 AHCAL DAC_module01.dat 67 35 6 46250 53000
19 1 AHCAL DAC_module07.dat 62 32 4 42000 46000
19 6 AHCAL DAC_module23.dat 60 33 0 28000 32000
12 1 PIN 47
12 5 PIN 46
15 0 PMT 1
12 4 TCMT DAC_tcmt1.dat 46 19 2 9500 10000
12 2 TCMT DAC_tcmt2.dat 59 33 4 12000 15500

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 09:17 Marius status
-driftchambers are off
-AHCAL HV is turned off/LV on to keep the temperature
-ECAL has to move back today
-muon trigger has to be installed in front of the calorimeters

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 09:14 Marius ASIC check runs

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 09:14 Marius switch DAQ back to combined readout

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 07:59 Done
Well, the party is over. No more beam for today, the last physics data (apart parasitic muons) are taken. Happy analyzing to everyone!

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 07:58 Niels gain calibration

Logbook entry: /CALICEeLog/data/2006/43/24.10
24.10.2006 06:58 Niels LED hold scans
Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  Beam status  
06:56  
called machine control, no time estimate for return of beam. will continue with arbitrary check runs for the calibration system.

Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  high statistics noise  
06:43  
321107 ahcPmNoise -m 1 -e 100000  
321108 ahcCmNoise -m 1 -e 100000  
High statistics noise run, e.g. for dead channel analysis.

Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  calibration  
06:27  
321101 ahcCmLedVcalibScan -m 1  
321102 ahcPmLedVcalibScan -m 1  
321103 ahcCmNoise -m 1 -e 5000  
321104 ahcPmNoise -m 1 -e 5000 useless  
321105 ahcCmLedVcalibScan -m 1 -e 5000 useless  
No beam for at least for 15 min.- but calibration can be fun, too...  
Runs 321105 and 321106 truncated after 5 configurations due to wrong options.

Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  40 GeV pion Hcal alone  
05:49  
321100 beamData -m 1 -v 26 40 GeV pion 2314 mm Pb 400 mm Cu 0.19 bar  
10x10 coincidence rate: 340/spill  
trigger rate: 25 Hz  
beam gone due to CPS problems. run stopped after 55 kevt.

Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  40 GeV pion Hcal alone  
05:38  
321099 beamData -m 1 -v 26 40 GeV pion 2324 mm Pb 400 mm Cu 2.1-0.19 bar Cerenkov in transition  
10x10 coincidence rate: 340/spill  
trigger rate: 25 Hz  
stopped after 10 kevt (Cerenkov stabilized).

Logbook entry: /CALICEelog/data/2006/43/24.10  
24.10.2006  Niels  80 GeV pion HCAL alone  
04:53  
321098 beamData -m 1 -v 26 80 GeV pion 2324 mm Pb 400 mm Cu 2.1 bar  
Cerenkov set for pion/proton separation  
10x10 coincidences: 1.8k/spill  
trigger rate: 85 Hz  
stopped after 200 kevt.
Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 04:29 Niels 80 GeV pion HCAL alone
321097 beamData -m 1 -v 26 80 GeV pion 232 4mm Pb 400mm Cu 0.6 bar
10x10 coincidences: 1.8k/spill
trigger rate: 85 Hz
stopped after 70kevt to play with the Cerenkov pressure. Beni calculated the proton threshold at 2.1 bar, while the current setting reflects the kaon threshold. Since CEDAR measured 3/100 kaons and 38/100 protons we considered it worth a try.

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 04:11 Niels 80 GeV pion HCAL alone
321096 beamData -m 1 -v 26 80 GeV pion 232 4mm Pb 400mm Cu 0.6 bar
10x10 coincidences: 1.9k particles/spill
trigger rate: 80 Hz
beam interruption for ten minutes, run stopped after 50kevt

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 04:00 Beni HCAL slowcontrol program vanishes
The slowcontrol GUI closes itself from time to time. I just restarted it for the third time.

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 02:02 Niels 10 GeV e HCAL alone
321095 beamData -m 1 -v 26 10 GeV positron 210 Air 6mm Pb 2.6 bar
10x10 coincidences: 620 particles/spill
trigger rate: 40Hz
stopped after 310kevt

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 01:52 Niels calibration
321093 ahcCmLedVcalibScan -m 1
321094 ahcPmLedVcalibScan -m 1
No beam - let's do some calibration...

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 01:46 Niels 10 GeV e HCAL alone
321092 beamData -m 1 -v 26 10 GeV positron 210 Air 6mm Pb 2.6 bar unusable
Power cut due to thunderstorm directly after run start. Machine control: will wait for storm to pass

Logbook entry: CALICEelog/data/2006/43/24.10
24.10.2006 01:39 Niels garbage

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 01:36 Niels Key access

Key access to restart DC2

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 01:32 Niels 10 GeV e HCAL alone

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 00:51 Beni 15 GeV e HCAL alone

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 00:41 Beni gain calibration

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 00:20 Beni SPS fails again

The thunderstorm continues, and the SPS powersupplies continue to trip. The SPS shiftcrew waits for the storm to pass.

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 00:16 Beni 15 GeV positron

The storms killed the SPS again
24.10.2006 00:15  Beni  storms
Due to a heavy thunder the SPS power supplies tripped. We could feel the floor shaking. Stopped run 321085.

Logbook entry: /CALICEelog/data/2006/43/24.10

24.10.2006 00:00  Beni  shift start
Niels Meyer
Go Woon Na
Ji Eun Kim
Benjamin Lutz

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 23:41  Zalesak/Wendt/Reinhard  Positrons 15GeV
321081 beamData -m 1 -v 26 15 GeV positron 207 air 6mm Pb 1.35 bar
10x10 coincidence rate: 1.7K/spill
DAQ rate: 80Hz
130K events taken

Logbook entry: /CALICEelog/data/2006/43/23.10

321084 beamData -m 1 -v 26 20 GeV positron 205 air 6mm Pb 0.76 bar
10x10 coincidence rate: 2.7K/spill
DAQ rate: 100 Hz
300K events taken

Logbook entry: /CALICEelog/data/2006/43/23.10

321083 beamData -m 1 -v 26 30 GeV positron 206 air 6mm Pb 0.338 bar
10x10 coincidence rate: 6.3K/spill
DAQ rate: 125 Hz
150K events taken

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 22:00  Zalesak/Wendt/Reinhard  Positrons 30GeV
321082 beamData -m 1 -v 26 30 GeV positron 205 air 6mm Pb 0.338 bar
10x10 coincidence rate: 6.3K/spill
DAQ rate: 130 Hz
150K events taken
No beam from CPS for a few min

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 19:40  Zalesak/Wendt/Reinhard  calibration
321074 ahcGain -m 1
321075 ahcPmLedVcalibScan -m 1
321076 ahcCmLedVcalibScan -m 1
321071 ahcPmNoise -m 1 50K events
321078 ahcCmNoise -m 1 110K events
321079 ahcGain -m 1

still problem at injection => calibration
21:14 still no beam
321080 ahcGain -m 1
21:31 still no beam
321081 ahcGain -m 1

Logbook entry: CALICElog/data/2006/43/23.10
23.10.2006 19:33 Zalesak/Wendt/Reinhard
no Beam
No beam from 19:15
problem at injection -> investigating

Logbook entry: CALICElog/data/2006/43/23.10
23.10.2006 18:27 Zalesak/Wendt/Reinhard
Positrons 50GeV
321073 beamData -m 1 -v 26 50 GeV positron 324 air 6mm Pb 0.120 bar
10x10 coincidence rate: 5.9K/spill
DAQ rate: 120 Hz
stopped after 300K events
Shoulder in the hHcalHits spectrum which we don't completely understand.

Logbook entry: CALICElog/data/2006/43/23.10
23.10.2006 15:39
10 GeV e HCAL alone
321071 beamData -m 1 -v 26 10 GeV positron 210 air 6mm Pb 2.6 bar
10x10 coincidence rate: 600/spill
15:55 no beam for 10 minutes
16:20 beam is back
17:55 short (<4min) problem with QUAD16 and TRIM04 (off ref value) - set back successfully
stopped after 300k

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006
14:35
321070 beamData -m 1 -v 26 20 GeV positron 205 air 6mm Pb 0.76 bar
10x10 coincidence rate: 1.9K/spill
stopped after 300k

Hi there,
I have stopped the copy script for the combined running and launched the script for hcal only runs.

Cheers,
Roman

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006
13:07
321069 beamData -m 1 -v 26 15 GeV positron 207 air 6mm Pb 1.35 bar
cerenkov pressure changing to the default value during the first ~10K events
10x10 coincidence rate: 1.3K/spill
13:15 shortly no beam for ~5 spills
stopped after ~310K

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006
12:11
321068 beamData -m 1 -v 26 30 GeV positron 233 air 6mm Pb 0.338 bar
3x3 scintillator were on again
stopped after 300K

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006
11:19
321067 beamData -m 1 -v 26 50 GeV positron 234 air 6mm Pb 0.120 bar
10x10 coincidence rate: 5K/spill
DAQ rate: ~80Hz
3x3 scintillator were off during this run
stopped after 300K
Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 11:17 Erika

50 GeV e+ HCAL alone

300756 beamData -m 1 -v 26 50 positron 234 air 2.5mm Pb 0.120 bar

stopped due to wrong disk link: the link to ahcal alone runs was only correct on calice01
and calice02
but not on calice00.... sorry!

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 11:15

positron 50GeV on HCAL stand alone

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 11:08

start of AHCAL alone EM program

-ECAL out of the beam
-all ECAL frontends disabled to make filesize smaller
-change to AHCAL run alone; link to AHCAL disk directory but keep the socketing to the
ECAL DAQ PC

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 09:56 Erika

led calibration

300751 ahcGain -m 1
300752 ahcCmLedVcalibScan -m 1
300753 ahcFmLedVcalibScan -m 1
300754 ahcCmNoise -m 1 -e 50000
300755 ahcFmNoise -m 1 -e 50000

Logbook entry: /CALICEelog/data/2006/43/23.10

23.10.2006 09:54 Erika

access to area
meeting with crane people to discuss the ECAL movement

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 08:33  Erika  40 GeV pion
300750 beamData -m 1 -v 26 40 GeV pion 231 1mm Pb 400 Cu 0.19 bar continuing from run 300749
9:45 quad 14 off => set it successfully back
stopped after 88K due to access

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 07:08  shifters  40 GeV pion
300749 beamData -m 1 -v 26 40 GeV pion 231 4mm Pb 400mm Cu 0.19 bar
10*10 coincidence : 344 particles/spill
trigger rate : 27 Hz
stopped after 118k ev because of beam off for changing supercycle

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 02:07  shifters  30 GeV pion
300748 beamData -m 1 -v 26 30 GeV pion 233 4mm Pb 400mm Cu 0.338 bar
10x10 coincidences: 180 particles/spill
trigger rate: 18 Hz
300Kevts

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 01:48  shifters  intercalibration
300746 ahcCmLedVcalibScan -m 1
300747 ahcPmLedVcalibScan -m 1

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 01:47  shifters  gain calibration
300745 ahcGain -m 1

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006 00:56  shifters  40 GeV positron
300744 beamData -m 1 -v 26 40 GeV positron 204 air 6mm Pb 0.19 bar
10x10 coincidences: 3300 particles/spill
trigger rate: 115 Hz
300kevents

Logbook entry: CALICEelog/data/2006/43/23.10
23.10.2006
00:13  shifters  30 GeV positron

300743 beamData -m 1 -v 26 30 GeV positron 203 Air 0.338 bar

215 kevtt

Logbook entry: [CALICE elog/data/2006/43/23.10]

23.10.2006  Zalesak/Wendt/Reinhard  New shift
Shift crew: GoWoon Na, Benjamin Lutz, Niels Meyer

Logbook entry: [CALICE elog/data/2006/42/22.10]

22.10.2006  Zalesak/Wendt/Reinhard  Positrons 30 GeV

300742 beamData -m 1 -v 26 30 GeV positron 203 Air 0.338 bar

10x10 coincidence: 2200 particles/spill
averaged rate: 85 Hz
stopped after K events
E_ECAL = 3700 MIPs
some shift in energy?
run stopped at 90 kevtt due to lost magnet settings in QUAD12, QUAD15, and TRIM04

Logbook entry: [CALICE elog/data/2006/42/22.10]

22.10.2006  Zalesak/Wendt/Reinhard  Positrons 20 GeV

300741 beamData -m 1 -v 26 20 GeV positron 205 Air 0.76 bar

10x10 coincidence: 2100 particles/spill
averaged rate: 85 Hz
stopped after K events
E_ECAL = 2500 MIPs

Logbook entry: [CALICE elog/data/2006/42/22.10]

22.10.2006  Zalesak/Wendt/Reinhard  Positrons 20 GeV

300740 beamData -m 1 -v 26 20 GeV positron 205 Air 0.76 bar

10x10 coincidence: 2100 particles/spill
averaged rate: 74 Hz
stopped after 50K events
read-out of coll. 08 09 are still out of ref. values
(probably no problem ?)
stopped because of no beam

Logbook entry: [CALICE elog/data/22.10]

22.10.2006  Zalesak/Wendt/Reinhard  Positrons 20 GeV

300739 beamData -m 1 -v 26 20 GeV positron 205 Air 0.76 bar

10x10 coincidence: 2100 particles/spill
averaged rate: 90 Hz
stopped after ~100K events
we observed a change (double peak) in Ecal energy
(in average from 2200 to 3000 MIPs)
=> stopped run!!!
Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 22:08 Zalesak/Wendt/Reinhard Positrons 20GeV

| 30073 |beamData -m 1 -v 26 | 20 GeV positron | 205 Air | Gm | Ph | 0.76 |

10x10 coincidence: 2100 particles/spill  
averaged rate: 90 Hz  
stopped after 130K events  

after collimators 08 and 09 back in ref. positions we started new run  
collimator 08 (09) still fluctuating around its ref. position  
labelled as warning (=/=- 10.05 w.r.t 10.00 ref. value)  
time to time gets out of measured range (>20000)

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 21:47 Zalesak/Wendt/Reinhard Positrons 20GeV

| 30073 |beamData -m 1 -v 26 | 20 GeV positron | 205 Air | Gm | Ph | 0.76 |

10x10 coincidence: 2100 particles/spill  
averaged rate: 80 Hz  
stopped after 80K events  
Collimators 08 and 09 tripping out and we are losing events  
for some while (coincidence rate 0 events)

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 21:28 Zalesak/Wendt/Reinhard Positrons 20GeV

| 30073 |beamData -m 1 -v 26 | 20 GeV positron | 205 Air | Gm | Ph | 0.76 |

10x10 coincidence: 2600 particles/spill  
averaged rate: 100 Hz  
E_ECAL = 2500 MIPs  
stopped after 50K events  
due to QUAD14 failing  
it is possible to have affected second half of events in this run

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 20:21 Zalesak/Wendt/Reinhard Positrons 15 GeV

| 30073 |beamData -m 1 -v 26 | 15 GeV positron | 207 Air | Gm | Ph | 1.35 |

10x10 coincidence: 1800 particles/spill  
averaged rate: 85 Hz  
E_ECAL = 1930 MIPs  
stopped after 300K events

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 19:19 Zalesak/Wendt/Reinhard Positrons 18 GeV

| 30073 |beamData -m 1 -v 26 | 18 GeV positron | 208 Air | Gm | Ph | 1.935 |

10x10 coincidence: 2000 particles/spill  
averaged rate: 88 Hz  
E_ECAL = 2250 MIPs  
stopped after 300K events
Due to wrong setting of Cherenkov pressure stopped at the beginning

Logbook entry: CALICEeLog/data/2006/42/22.10

Positrons 16GeV

Logbook entry: CALICEeLog/data/2006/42/22.10

Positron 10 GeV

Logbook entry: CALICEeLog/data/2006/42/22.10

junk run

Logbook entry: CALICEeLog/data/2006/42/22.10

New shift

Logbook entry: CALICEeLog/data/2006/42/22.10

pion 30 GeV

Logbook entry: CALICEeLog/data/2006/42/22.10

80 GeV pion
300726 beamData -m1 -v 26 30 pion 232 40mm Pb 400mm 0.6 bar

3200p/spill in 10x10
DAQ rate 90 Hz
Cherenkov used to discriminate pions from kaons and protons
according to CEDAR meas. tuning of yesterday we should have
55% e/pi/mu
3% K
38% protons
run stopped after 300 k events

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 06:35 Niels, Beni, Yoshi 50GeV pi run
300725 beamData -m 1 -v 26 50GeV pi+ 234 40mm Pb 400mm Cu 0.13 bar

Event rate; 38Hz
10cmX10cm coincidence; 560 particles/spill
stopped run after 300 k events

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 03:23 Niels, Beni, Yoshi 40GeV pion run
300724 beamData -m 1 -v 26 40GeV pi+ 231 40mm Pb 400mm Cu 0.19 bar

Event rate 26Hz
10cmX10cm coincidence; 350 particles/spill
BEND06 read value is always inconsistent with reference.
300k events collected

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 03:15 Niels, Beni, Yoshi intercalibration
300723 ahcCmLedVcalibScan -m 1
300723 ahcPmLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/42/22.10
22.10.2006 02:58 Niels, Beni, Yoshi ahcGain
300721 ahcGain -m 1

Logbook entry: /CALICEelog/data/2006/42/21.10
22.10.2006 01:59 Conversion restarted

Hi there,
I have restarted the conversion job at desy.
Conversion is resumed with run 300719.
The missing runs are filled up with running the conversion on the grid.
In parallel I replicate runs which were shipped last night to LAL into the desy dcache. This will take some time since the connection lal-desy is not the best one imaginable.
Cheers,
Roman

Logbook entry: /CALICEelogs/data/2006/42/22.10
22.10.2006 00:23 Niels, Beni; Yoshi
30 GeV pion

300720 beamData -m 1 -v 26 30 GeV pion 233 4mm Pb 400mm Cu 0.338

event rate: 18 Hz
10cmx10cm coincidence; 200 particle/spill
162k events

Logbook entry: /CALICEelogs/data/2006/42/21.10
pion 30GeV

300719 beamData -m 1 -v 26 30 GeV pion 233 4mm Pb 400mm Cu 0.338

10x10 coincidence trigger: 190 particles/spill
averaged event rate in run: 19 Hz
stopped after 42k events due to three magnets settings lost: QUAD12, QUAD15, TRIM04
all of them could be reset w/o problems

Logbook entry: /CALICEelogs/data/2006/42/21.10
21.10.2006 21:43 Zalesak/Wendt/Reinhard
junk run

Logbook entry: /CALICEelogs/data/2006/42/21.10
21.10.2006 21:36 Zalesak/Wendt/Reinhard
pion 30GeV

300718 beamData -m 1 -v 26 30 GeV pion 233 4mm Pb 400mm Cu 0.338

10x10 coincidence trigger: 190 particles/spill
averaged event rate in run: 20 Hz
stopped after 120K events due to QUAD014 failing (~10min)

Logbook entry: /CALICEelogs/data/2006/42/21.10
21.10.2006 21:20 Zalesak/Wendt/Reinhard
ahcGain

Logbook entry: /CALICEelogs/data/2006/42/21.10
21.10.2006 20:30 Zalesak/Wendt/Reinhard
Pion 80GeV

300715 beamData -m 1 -v 26 80 GeV Pion 232 4mm Pb 400mm Cu 0.6

10x10 coincidence trigger: 1900 particles/spill
averaged event rate in run: 88 Hz
stopped after 300K
Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 20:04 Zalesak/Wendt/Reinhard Pion 80GeV

| beamData | m 1 - v 26 | 80 GeV | pion | 232 | 4mm Pb | 400mm Cu | 0.6 |

10x10 coincidence trigger: 2000 particles/spill
Averaged event rate in run: 40 Hz

run stopped due to failing of magnets BEND05 and QUAD12
about 150K events collected (??)

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 17:31 Zalesak/Wendt/Reinhard Pion 50GeV

| beamData | m 1 - v 26 | 50 GeV | pion | 234 | 4mm Pb | 400mm Cu | 0.120 |

10x10 coincidence trigger: 500 particles/spill
Averaged rate in run 35 Hz

run stopped after 310K events

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 16:39 Zalesak/Wendt/Reinhard new shift

New shift: J. Zalesak, O. Wendt, M. Reinhard

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 15:54 40 GeV pion

| beamData | m 1 - v 26 | 40 GeV | pion | 231 | 4mm Pb | 400mm copper | 0.19 bar |

10x10 coincidence rate: 340 p/spill
Averaged event rate in run: 27 Hz

run stopped after 150K events

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 15:44 Erika 40 GeV pion

| beamData | m 1 - v 19 | 40 GeV | pion | 231 | 4mm Pb | 400mm Copper | 0.19 bar |

10x10 coincidence rate: 350 p/spill

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 14:00 Erika 40 GeV pion

| beamData | m 1 - v 26 | 40 GeV | pion | 231 | 4mm Pb | 400mm Cu | 0.19 | clean sample of pion |

10x10 rate 362 p/spill
DAQ rate 26 Hz

14:26
T2 wobble change: no beam for 5-10 minutes

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

21.10.2006 13:40 Erika 30 GeV positron
300709 beamData -m 1 -v 19 30 GeV positron 233 air 0.338 bar
stopped after ~100K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006       Erika
13:17            gain calibration

300708 ahcGain -m 1

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006       Erika
13:02            muon run

300707 beamData -m 1 -v 19 muon 226
100x100 coincidence rate: 5K
stopped after 100K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006       Erika
11:36            muon run

300706 beamData -m 1 -v 19 muon 017
100x100 coincidence rate: ~2K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006       >
11:04            HCAL temperature

HCAL temperature gradient before and after fan installation

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006       Erika
10:36            muon run

300705 beamData -m 1 -v 19 muon 017
100x100 coincidence rate: ~2K
Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Erika muon run
10:17
300704 beamData -m 1 -v 2 [muon 017]
10x10 coincidence rate: 2K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Erika CEDAR commissioning
10:14
the CEDAR commissioning needs high intensities
we closed our beam dump and take muons for the next 2h

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Erika 30 GeV pion
08:47
300703 beamData -m 1 -v 2 30 GeV pion 233 air 400 mm copper 0.338 bar
10x10 coincidence rate: 300 particles/spill
stopped after ~100K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Erika new shift: 8:00-16:00
08:44
Elena, M. Krim, Erika

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Niels, Beni, Yoshi 80 GeV pi run
07:51
300702 beamData -m 1 -v 2 80 GeV pion 232 air 400 mm Cu 0.6 bar
10cmX10cm coincidence; 2200 particles/spill
Event rate: 95Hz
stopped after ~300K

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Niels, Beni, Yoshi ahc Pm Led V calib Scan
07:35
300701 ahcPmLedVcalibScan -m 1
32 configurations
5 minutes
32k events
at 100Hz

Logbook entry: /CALICEelog/data/2006/42/21.10
21.10.2006 Niels, Beni, Yoshi ahc Cm Led V calib Scan
07:32
300700 ahcCmLedVcalibScan -m 1
21 configurations
3 minutes
21k events
at 100Hz
21.10.2006 07:15 Niels, Beni, Yoshi  
```
ahcGain
```
11 configurations
15 minutes
132k events
at 140Hz

Logbook entry:CALICEelog/data/2006/42/21.10

21.10.2006 05:10 Niels, Beni, Yoshi  
```
beamData -m 1-v 26 50GeV pi+ 234air 400mm Cu 0.12bar
```
10cm x 10cm coincidence; 660 particle per spill
event rate; 40Hz
317k events are collected

Logbook entry:CALICEelog/data/2006/42/21.10

21.10.2006 02:34 Niels, Beni, Yoshi  
```
beamData -m 1-v 26 40GeV pi+ 231air 400mm Cu 0.19bar
```
10cmX10cm coincidence; 420 particles/spill
Event rate; 30Hz
300k events collected

Logbook entry:CALICEelog/data/2006/42/21.10

20.10.2006 23:39 Beni  
```
shift start
```
tonight shifters
Niels Meyer
Yoshinari Mikami
Benjamin Lutz

Logbook entry:CALICEelog/data/2006/42/20.10

20.10.2006 23:02 Oliver  
```
30 GeV pions
```
```
beam data -m1 -v26 30 GeV pi+ 233air 400mm copper 0.334 bar
```
10x10 with coin rate of 270 particles per spill
Event rate; 24Hz
Collected 300k events

Logbook entry:CALICEelog/data/2006/42/20.10

20.10.2006 23:39 Niels, Beni, Yoshi  
```
Copying to desy blocked
```
Dear there,
it seems that the copying into desy is interrupted at the moment.
The reason might be a severe security hole detected in the glite software today.
I will try to send the data tonight to LAL and hope that the situation improves during tomorrow when a patch to the problem will be intalled.
Sorry for the inconvenience,
Roman

Logbook entry:CALICEelog/data/2006/42/20.10

20.10.2006 23:02 Oliver  
```
30 GeV pions
```
```
beam data -m1 -v26 30 GeV pi+ 233air 400mm copper 0.334 bar
```
10x10 with coin rate of 270 particles per spill
Event rate; 24Hz
Collected 300k events
Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 22:49 Oliver

30 GeV pions

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 22:49 Oliver

10x10 with coinc rate of 2000 particles per spill

cherenkov pressure too low at the start of this run
stopped after ca. 16k events. After these events the cherenkov pressure reached 0.334 bar

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 00:29 Oliver

80 GeV pions

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 21:54 Oliver

300694 beam data -m1 -v26 80 GeV pions 232 air 400 mm copper 0.13 bar
10x10 with coinc rate of 2000 particles per spill

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 21:50 Oliver

beam tuning finished

We tuned quads 6, 11 and (9) and trim 6 for +30, +40, +50 and +80 GeV.
Tuning steps:
1) 10A
2) 5A
eventually 3) 2 or 3A.

The settings are stored in files 231 to 234.

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 21:35 Oliver

80 GeV pions check run

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 20:54 Oliver

50 GeV pions check run

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 20:23 Oliver

40 GeV Pion check run

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 19:47 Oliver

30 GeV pions check run

10x10 coin rate 300 part/spill

During the first 15000 events the Cherenkov pressure is changing
stopped after approx. 20000 events due to beam problems

DC1 tripped

Logbook entry: CALICEelog/data/2006/42/20.10
20.10.2006
18:34
Marius
beam is at +120 GeV secondary beam energy
beam is back to +120 GeV secondary beam energy
beam tuning is ongoing

Logbook entry: CALICEelog/data/2006/42/20.10
20.10.2006
16:33
Oliver
gain calibration

| 300680 ahcGain -m 1 debug run |
| 300681 ahcCmNoise -m 1 -e 50000 debug run |
| 300682 ahcPmNoise -m 1 -e 50000 debug run |

Logbook entry: CALICEelog/data/2006/42/20.10
20.10.2006
15:51
Marius
vcalibscan debugging

| 300680 ahcCmLedVcalibScan -m 1 debug run |
| 300681 ahcPmLedVcalibScan -m 1 debug run |
| 300682 ahcCmLedVcalibScan -m 1 debug run |
| 300683 ahcPmLedVcalibScan -m 1 debug run |
| 300684 ahcCmLedVcalibScan -m 1 debug run |
| 300685 ahcPmLedVcalibScan -m 1 debug run |

finally it is ok.

ahcCmLedVcalibScan: 21 configurations each 1000 events = 3 minutes
ahcPmLedVcalibScan: 32 configurations each 1000 events = 5 minutes

the main difference to the change discussed two days ago is the canceling of 8 pedestal configurations.

summary:

---

ahcCmLedVcalibScan:
21 configurations; each 1000 events
1.) one absolute vcalib setting for pedestal determination
tcalib=0
2.) relativ vcalib settings for the medium vcalib range
20 points =
-500,-250,0,250,500,750,1000,1250,1500,2000,2250,2500,2750,3000,3250,3500,4000,5000,6000,7000
these settings + the calibration mode vcalib value from AHC.cfg

ahcPmLedVcalibScan:
32 configurations; each 1000 events
1.) absolute vcalib settings for pedestal determination
tcalib=0
2.) relativ vcalib settings for the medium vcalib range
20 points =
-500,-250,0,250,500,750,1000,1250,1500,2000,2250,2500,2750,3000,3250,3500,4000,5000,6000,7000
these settings + the calibration mode vcalib value from AHC.cfg
3.) absolute vcalib settings for saturation determination
starting from vcalib=55500 to 65500 in steps of 1000

Logbook entry: CALICEelog/data/2006/42/20.10
20.10.2006 15:06 Marius
1x1 m^2 muon counter check

Logbook entry: CALICEelog/data/2006/42/20.10

20.10.2006 14:02 gain calibration

Logbook entry: CALICEelog/data/2006/42/20.10

20.10.2006 13:59 Marius
T4 wobbling change
T4 wobbling change at 14:00
no beam for 10 minutes
access to the area:
  - new ECAL SC installation
  - muon counter check
  - hodoscope installation

Logbook entry: CALICEelog/data/2006/42/20.10

20.10.2006 13:33 Marius
-20 GeV electron

Logbook entry: CALICEelog/data/2006/42/20.10

20.10.2006 13:02 Marius
-18 GeV electron

Logbook entry: CALICEelog/data/2006/42/20.10

20.10.2006 12:46 Marius
-15 GeV electron

Logbook entry: CALICEelog/data/2006/42/20.10
20.10.2006 12:19 Marius  -12 GeV electron

300673 beamData -m 1 -v 26 -12 GeV electron 039 air 2.11

closed collimators:
all momentum : +3mm
all position : +10mm
10x10 coincidence rate: 26K/spill
stopped after ~210K

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 11:59 Marius  -10 GeV electron

300672 beamData -m 1 -v 26 -10 GeV electron 014 air 2.6

closed collimators:
all momentum : +3mm
all position : +10mm
10x10 coincidence rate: 26K/spill
stopped after ~170K

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 11:24 Marius  -8 GeV electron

300671 beamData -m 1 -v 26 -8 GeV electron 038 air 3.0

10x10 coincidence rate: 8.8K with closed collimator C2=C3=C8=+3mm

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 11:05 Marius  -6 GeV electron

300670 beamData -m 1 -v 26 -6 GeV electron 013 air 3.0

high rate 10x10 coincidence rate: 110K

close collimator:
C2=C3=C8=+3mm (before +15mm)
10x10 coincidence rate: 6.7K
stopped after ~120K

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 11:03 Marius  switch to electrons

remove absorber 8mm Pb and use air

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 10:53 Marius  caliceana crashed

online monitor and copying resumed

Logbook entry: /CALICEelog/data/2006/42/20.10

20.10.2006 10:17 Marius  -6 GeV pion

300669 beamData -m 1 -v 26 -6 GeV pion 0138 Pb air 3.0

10x10 coincidence rate: 1.2K
stopped after ~180K

Logbook entry: /CALICEelog/data/2006/42/20.10
Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 09:29 Marius -8 GeV pion
300668 beamData -m 1 -v 26 -8 GeV pion 038 3.0 bar
10x10 coincidence rate: 12K/spill
9:45 problems with collimator 05 and 06 out of beam reference by 2 millimeter
took ~2 minutes to get them back to reference
10x10 coincidence rate dropped to 4K
stopped after ~300K

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 08:46 Marius new reference pedestal for online monitor
new reference pedestal for online monitor; applied from Run300667
(in case of rerunning an elder run it will be valid since Run300604)

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 08:42 Marius -10 GeV pion
300667 beamData -m 1 -v 26 -10 GeV pion 014 2.6 bar
10x10 coincidence: 11K/spill
stopped after ~300K

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 08:36 Marius HCAL current spikes
The spikes in the current readout of the HCAL are real (not readout feature) and are
related with beam (not there if no beam). They are not a feature of the CANBUS/HV system. The
fact that they might disappear in the old history of the graph is only due to the
database of the slow control which does not store as many info as displayed during measurement.
Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 08:06** Marius  
**new shift 8:00-16:00**  
Erika, M. Krim, Marius

Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 07:54** Tqrkovsky, Beni, Yoshi  
**12GeV pi- run**  
|beamData| -m 1 -v 26 |12GeV pi-039| Pb |2.11 bar|

7.2k counts/spill with 10cmX10cm coincidence  
Collimator jaw setting are +/-10mm for COLL2 and +/-5mm for COLL3 and COLL8  
Event rate is 110Hz

Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 06:44** Tqrkovsky, Beni, Yoshi  
**18GeV pi- run**  
|beamData| -m 1 -v 26 |18GeV pi-040| Pb |0.94 bar|

7.2k counts/spill with 10cmX10cm coincidence  
Collimator jaw setting are +/-3.0mm for COLL2, COLL3 and COLL8.  
Average event rate is 130Hz  
500k events collected

Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 05:52** Tarkovsky, Beni, Yoshi  
**12GeV pi- run**  
|beamData| -m 1 -v 26 |12 GeV pi-039| Pb |2.11 bar|

3.5k counts/spill with 10cmX10cm coincidence  
Collimator jaw settings are +/-10mm for COLL2, COLL3 and COLL8.  
Average events rate is 100Hz  
Collected 325k events

Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 05:17** Beni  
**caliceana got stuck**  

Restarted caliceana.  
Restarted the copy scripts.  
Had to remove Run300659.001-004.bin from the grid/dcache.  
Transfer rate is 3MB/s now.  
Network parameters still have to be set.  
7:00 copying stopped again: Run300659.004.bin had to be removed manually from dcache.

Logbook entry: /CALICEelog/data/2006/42/20.10  
**20.10.2006 05:06** Tarkovsky, Beni, Yoshi  
**8GeV pi- run**  
|beamData| -m 1 -v 26 |8GeV pi-038| Pb |3 bar|

3.7k counts/spill for 10cmX10cm coincidence  
Collimator jaw settings are +/-10mm for COLL2, COLL3 and COLL8.  
Average events rate is 120Hz  
Collected 300k events

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 05:02 Tarkovsky, Beni, Yoshi  
**ahcGain**

2006/20 ahcGain -m 1

2 configurations
2 minutes
23k events

Logbook entry: [CALICE eLogbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/elogbook)

20.10.2006 04:58 Tarkovsky, Beni, oshi  
**junk run**

300661 beamData -m 1 -v 26 $8 GeV$ pi-0388mm Pb air 3 bar

just beginning of this run, beam is lost.
This is junk run.

Logbook entry: [CALICE eLogbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/elogbook)

20.10.2006 04:16 Tarkovsky, Beni, Yoshi  
**10GeV pi- run**

300660 beamData -m 1 -v 26 10GeV pi-0148mm Pb air 2.6 bar

13k counts/spill for 10cmX10cm coincidence
Collimator setting are +/-10mm for COLL2, COLL3 and COLL8.
Average events rate is 130Hz
Collected 300k events

Logbook entry: [CALICE eLogbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/elogbook)

20.10.2006 03:19 Tarkovsky, Beni, Yoshi  
**15GeV pi- run**

300659 beamData -m 1 -v 26 15GeV pi-0168mm Pb air 1.35 bar

7k counts/spill for 10cm X 10cm coincidence
Collimator jaw setting are +/-3.0mm for COLL2, COLL3 and COLL8.
Average event rate is 140Hz
Sometimes, ECAL first layer is very noisy and it increases mean Ecal energy.
(It corresponds to roughly 10% of whole events.)
This run collected 400k events.

Logbook entry: [CALICE eLogbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/elogbook)

20.10.2006 02:40 Tarkovsky, Beni, Yoshi  
**20 GeV pi- run**

300658 beamData -m 1 -v 26 20GeV pi-0158mm Pb air 0.76 bar

6k particles/spill for 10cm X 10cm coincidence
Collimator jaw is setting as +/-2mm for COLL2, COLL3 and COLL8.
Average events rate is 130Hz
300k events were collected.

Logbook entry: [CALICE eLogbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/elogbook)

20.10.2006 02:28 Tarkovsky, Beni, Yoshi  
**junk**

300657 beamData -m 1 -v 26 20GeV pi-0158mm Pb air 0.76 bar

This run is 21k particle/spill for 10cm x 10cm coincidence
->Stopped with a few minutes.
Collimator jaw was +/-3mm for COLL2, COLL3 and COLL8.
Junk run

Logbook entry: CALICElog/data/2006/42/20.10
2010.2006  Tarkovsky, Beni, Yoshi  18GeV pi- run
02:00
300656 beamData -m 1 -v 26 18 GeV pi- 040 mm Pb air 0.94 bar

Average event rate is 130Hz
7k particles/spill for 10cm x 10cm coincidence
200k events

Logbook entry: CALICElog/data/2006/42/20.10
2010.2006  Tarkovsky, Beni, Yoshi  ahcGain
01:57
300655 ahcGain -m 1

Stopped with a few minutes because beam has come back.

Logbook entry: CALICElog/data/2006/42/20.10
2010.2006  Tarkovsky, Beni, Yoshi  18GeV pi- run
01:21
300654 beamData -m 1 -v 26 18GeV pi- 040 mm Pb air 0.94 bar

Average event rate is 120Hz
7k particles/spill for 10cm x 10cm coincidence
After 260k events, beam is lost and this run was stopped.

Logbook entry: CALICElog/data/2006/42/20.10
2010.2006  >  HCAL pedestal shift (part 2)
01.17

HCAL pedestals October 18th 8 pm

The pedestals have shifted for ~20 channels. The actual plot looks like the one from October 18th.

Between the two plots work on CMBs and cooling fans was done.
Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 01:16 >

**HCAL pedestal shift (part 1)**

**HCAL pedestals 17th October 8 am**

Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 00:34

Tarkovsky, Beni, Yoshi

**12 GeV pi- run**

300653 beamData -m 1 -v 26 12GeV pi-0398mm Pb air 2.11 bar

average events rate is 110Hz
3.6k particles/spill for 10cm x 10cm coincidence.

collected 300k events
Logbook entry: /CALICEelog/data/2006/42/20.10
20.10.2006 00:03  shift start

Beni
Yoshinari Mikami
Evgeny Tarkovsky
Benjamin Lutz

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 23:45  -8 GeV pion

| 300652 | -8 GeV pion | m 1 -v26 8 GeV pion | 038 mm Pb Air 3.0 bar |

Average events rate is 130Hz, 4.7k particles/spill for 10cm x 10cm coincidence. Ecal noisy layers; #1, #2 collected 300k events

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 23:30  -8 GeV pion

| 300651 | beamData -m 1 -v26 -8 GeV pion | 038 mm Pb Air 1-3 bar Cerenkov in transition |

Run stopped after 120 kevts after Cerenkov stabilized

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 22:50  -18 GeV pion

| 300650 | beamData -m 1 -v26 -18 GeV pion | 040 mm Pb Air 0.94 bar |

stopped after 300 kevts

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 22:02  -12 GeV pion

| 300649 | beamData -m 1 -v26 -12 GeV pion | 039 mm Pb Air 2.11 bar |

Run stopped after 310 kevts

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 21:21  -8 GeV pion

| 300648 | beamData -m 1 -v26 -8 GeV pion | 038 mm Pb Air 3.00 bar |

stopped after 290 kevts

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 21:02  -8 GeV pion

| 300647 | beamData -m 1 -v26 -8 GeV pion | 038 mm Pb Air 3.0 bar Cerenkov in transition |

stopped at 130 kevts after Cerenkov stabilized

Logbook entry: /CALICEelog/data/2006/42/19.10
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.10.2006</td>
<td>20:20</td>
<td>Boudry, Iervolino, Meyer</td>
<td>Bend6 flips continuously between 89 and 39 A (18 GeV). This may be a measurement/read error.</td>
</tr>
</tbody>
</table>

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**20:19**  
**Boudry, Iervolino, Meyer**  
**-18 GeV pion**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 20:19  | Boudry, Iervolino, Meyer | 30064 beamData \(-\) \(m\) 1 \(-\) \(v\) 26 \(-\) 18 GeV pion 040 \(\text{Pb}\) Air 0.94 bar  
stopped at 260 kevts |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**20:42**  
**Boudry, Iervolino, Meyer**  
**-18 GeV pion**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 20:42  | Boudry, Iervolino, Meyer | 30064 beamData \(-\) \(m\) 1 \(-\) \(v\) 26 \(-\) 18 GeV pion 040 \(\text{Pb}\) Air 0.94 bar  
bend6 and quad12 tripped. Stopped run! 202 kevts |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**18:51**  
**Boudry, Iervolino, Meyer**  
**-12 GeV pion**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 18:51  | Boudry, Iervolino, Meyer | 30064 beamData \(-\) \(m\) 1 \(-\) \(v\) 26 \(-\) 12 GeV pion 039 \(\text{Pb}\) Air 2.11 bar  
Run stopped after 318 kevts |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**18:04**  
**Boudry, Iervolino, Meyer**  
**-8 GeV pion**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 18:04  | Boudry, Iervolino, Meyer | 30064 beamData \(-\) \(m\) 1 \(-\) \(v\) 26 \(-\) 8 GeV pion 038 \(\text{Pb}\) Air 3 bar  
Run stopped at 305 kevts |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**17:58**  
**Boudry, Iervolino, Meyer**  
**ahcCmNoise**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 17:58  | Boudry, Iervolino, Meyer | 30064 ahcCmNoise \(-\) \(m\) 1 \(-\) \(v\) 50000  
\(\text{~42000 events}\) |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**17:50**  
**Boudry, Iervolino, Meyer**  
**crcNoise run**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 17:50  | Boudry, Iervolino, Meyer | 30064 crcNoise \(-\) \(m\) 1  
60 kevents |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)  
**19.10.2006**  
**17:35**  
**Boudry, Iervolino, Meyer**  
**ahcGain**  

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Authors</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 19.10.2006 | 17:35  | Boudry, Iervolino, Meyer | 30064 ahcGain \(-\) \(m\) 1  
Completed |

**Logbook entry:** [CALICEelog/data/2006/42/19.10](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)
CALICE eLogbook

19.10.2006 17:16  Boudry, Iervolino, Meyer  aheGain run

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 16:59  Boudry, Iervolino, Meyer  8 GeV pions

Stopped at ~75 kevents after beam loss

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 15:15  elena popova  -6 GeV pion

Stopped at 305 kevents

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 14:21  Marius  beam tuning run -18 GeV pion

10x10 coincidence rate: 6K

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 14:06  Marius  beam tuning run -12 GeV pion

10x10 coincidence rate: 4K

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 13:54  Marius  beam tuning run -8GeV pion

10x10 coincidence rate: 4K

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 13:43  Marius  beam tuning run -8 GeV pion

62 of 358 28.09.2007 15:06
Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 13:37 Marius reduced T4 intensity
The machine control has reduced the intensity of target 4 (T4) because the third experiment on this target do not take data anymore:
I/E11:
old value 40
new value 23

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 13:36 Marius summary -8 GeV pion
1. 300628 300K
2. 300629 300K
3. 300630 400K
4. 300631 250K
sum 1.25 Million
but only ~40% pions
the rest are muons, pedestal, electrons

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 12:29 Boudry -6 GeV
stopped after 250K

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 12:00 Marius copy script restarted
copy script is working again

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 11:18 Marius copy script
copy script is not working since DESY was offline.
reboot of caliceana did not help.

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 11:09 Marius -6 GeV pion
10x10 coincidence rate: 10K
DAQ av. event rate: ~80Hz
stopped after 400K

Logbook entry: [CALICElog/data/2006/42/19.10]
19.10.2006 10:01 Marius -6 GeV pion

http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs/log...
300629 beamData -m 1 -v 26 -6 GeV pion 0138 mm Pb air 3 bar

10x10 rate: 2.0K
DAQ av. event rate: ~80Hz
10:25 no beam
10:35 beam back
11:00 collimator06 shortly out of beam reference: -15/15 instead of -30/30
stopped after 300K

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 09:10 Marius 
-6 GeV pion

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 09:01 Marius
beam tuning for -6 GeV
increase from 50 particles to 1.7K particles in the 10x10 coincidence
bend 5 tuned from -29.3A to -28.5A
stored in file 013

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 09:00 Marius
ASIC check

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 07:40 Zelesak/Tarkovsky/Yoshi
6 GeV pi- run

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 07:38 Zelesak/Tarkovsky/Yoshi
ahcCmLedVcalibScan

Logbook entry: /CALICEelog/data/2006/42/19.10
19.10.2006 07:38 Zelesak/Tarkovsky/Yoshi
ahcCmLedVcalibScan
19.10.2006 07:36 Zelesak/Tarkovsky/Yoshi  ahcPmLedVcalibScan

38k events in 38 configuration with 6 minutes.

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 07:34 Zelesak/Tarkovsky/Yoshi  ahcGain

132k events in 11 configuration with 15 minutes.

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 05:40 Zelesak/Tarkovsky/Yoshi  20 GeV pi- run

10k particles/spill for 10cm X 10cm trigger
Collimator jaw are setting as +/- 2.0 for COLL2, COLL3 and COLL8.
Average event rate is 135Hz.
This run collected 650k events.

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 04:26 Zelesak/Tarkovsky/Yoshi  15 GeV pi- run

15k particles/spill for 10cm X 10cm trigger.
Collimator jaw is setting as +/-3.0 for COLL2, COLL3 and COLL8.
Average event rate in Run is 140Hz.
This run collected 600K events.

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 03:06 Zelesak/Tarkovsky/Yoshi  10GeV pi- run

12k particles/spill for 10cm X 10cm trigger.
Collimator jaw setting for COLL2, COLL3 and COLL8 are +/- 7.0
Event rate is 120Hz.
Additional ECAL noisy layer #9
This run collected 600k events.

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 02:36 Zelesak/Tarkovsky/Yoshi  ahcGain

Logbook entry: /CALICEelog/data/2006/42/19.10

19.10.2006 01:25 Zelesak/Tarkovsky/Yoshi  20GeV pi- run

(300615 is junk run.)
Event rate: 140 Hz
10k particles/spill for 10cm X 10cm trigger
Collimator Jaw setting is +/- 2.0 for COLL02, COLL03 and COLL08.

This run collected 600k events.

Logbook entry: /CALICEeLogbook/data/2006/42/19.10
19.10.2006 Niels -15 GeV pion
300614 beamData -m 1 -v 26 -15 GeV pion 016 m Pb air 1.35 bar

ECAL noisy layers: #0, #1, #2, #12 and #21
COLL02, COLL03 and COLL08 has set for BeamRef_Jaw_1 and BeamRef_Jaw_2 as -2.7 and 2.7
10x10 coincidence rate: 10k particles/spill
event rate 140 Hz
This run had 600k events

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Niels pions -10 GeV
22:41 beamData -m 1 -v 26 -10 GeV pion 014 mm Pb air 2.6 bar

Run stopped after 600 keV.

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Niels -10 GeV pion
22:33 beamData -m 1 -v 26 -10 GeV pion 014 mm Pb air 2.6 bar

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Niels pions -10 GeV
22:30 beamData -m 1 -v 26 -10 GeV pion 014 mm Pb air 3.0 -> 2.6 bar wrong Cherenkov

Run stopped after 45 keV.

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Niels test run pions -6 GeV
21:42 beamData -m 1 -v 26 -6 GeV pion 013 mm Pb air 3 bar beam tuning run

Very low trigger rate of 80 counts/spill in 10x10

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Marius beam tuning run -20 GeV
20:59 beamData -m 1 -v 26 -20 GeV pion 015 mm Pb air 2.6 bar beam tuning run

10x10 coincidence rate: 4.7K

Logbook entry: /CALICEeLogbook/data/2006/42/18.10
18.10.2006 Marius Problem with loading beam files
20:55
Problem with loading beam files/CESAR:
Sometimes it is not possible to load a beam optic file
Solution: close CESAR and restart

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:41 Marius
beam tuning run -6 GeV
300608 beamData -m 1 -v 26 -6 GeV pion Pb air 2.6 bar
10x10 coincidence rate: 200

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:31 Marius
beam tuning run
300607 beamData -m 1 -v 26 -10 GeV pion Pb air 2.6 bar
10x10 coincidence rate: 6.2K

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:28 Marius
put absorber 8mm lead in

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:27 Marius
closed collimator to reduce beam spot

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:26 Marius
beam tuning run
changing collimator, trim... to adjust rate and beam spot
rate in the 10x10 coincidence: 11K

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:25 Marius
beam tuning
changing collimator, trim... to adjust rate and beam spot

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 20:00 Marius
SPS is restarting
SPS is restarting
supercycle still: 14.4 s

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 19:03 Marius
pedestal run
Logbook entry: CALICEelog/data/2006/42/18.10
18:38 Marius
new AHC.cfg

I have decided to make a new AHC.cfg:
- no mapping changes
- but vcalib change in the tailcatcher frontend
- new physicsmode hold value for module 19 (from 60 to 62)

1. AHC.cfg
2. in this file you have to specify which
4. configuration file should be used for which frontend
5. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM

5 0 AHCAL DAC_module04.dat 60 32 14 42000 46000
5 1 AHCAL DAC_module05.dat 68 38 14 42000 46000
5 2 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 3 AHCAL DAC_module08.dat 65 32 19 42000 46000
5 4 AHCAL DAC_module09.dat 66 34 15 42000 46000
5 5 AHCAL DAC_module11.dat 65 34 15 42000 46000
5 6 AHCAL DAC_module12.dat 67 34 19 42000 46000
9 1 AHCAL DAC_module13.dat 68 35 17 42000 46000
9 2 AHCAL DAC_module14.dat 62 31 14 42000 46000
9 4 AHCAL DAC_module15.dat 69 39 13 42000 46000
9 5 AHCAL DAC_module17.dat 60 33 13 28000 32000
9 7 AHCAL DAC_module18.dat 70 33 14 42000 46000
15 3 AHCAL DAC_module21.dat 62 33 12 28000 32000
15 4 AHCAL DAC_module22.dat 60 33 13 28000 32000
15 7 AHCAL DAC_module19.dat 62 34 15 28000 32000
17 0 AHCAL DAC_module16.dat 61 33 11 28000 32000
17 1 AHCAL DAC_module20.dat 60 33 12 28000 32000
17 3 AHCAL DAC_module10.dat 67 35 17 42000 46000
17 4 AHCAL DAC_module01.dat 62 34 14 42000 46000
17 5 AHCAL DAC_module02.dat 65 32 13 42000 46000
17 6 AHCAL DAC_module01.dat 67 35 18 46250 53000
19 1 AHCAL DAC_module07.dat 62 32 16 42000 46000
19 6 AHCAL DAC_module23.dat 60 33 12 28000 32000
12 1 PIN 47
12 5 PIN 46
10 0 PMT 1
12 4 TCMT DAC_tcmt1.dat 46 19 14 9500 10000
12 2 TCMT DAC_tcmt2.dat 59 33 16 12000 15500
1. end of AHC.cfg file

Logbook entry: CALICEelog/data/2006/42/18.10
18:03 Marius
physics mode led holdscan

=> module 22 hold in physics mode: 60 ticks, no change needed
module 19 hold in physics mode: 62 ticks, change needed
pins are not looking good: peak maximum seems to be dependent on the light amplitude

Logbook entry: CALICEelog/data/2006/42/18.10
17:14 Marius
led calibration
first run with the new described way of performing the vcalibscans... please check!!

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 17:13 Marius
new ahcC(P)mLedVcalibScan methods

ahcCmLedVcalibScan: 28 configuration; each 1000 events
1.) absolute vcalib settings for pedestal determination from vcalib=0 to 9000 in steps of 1000
2.) relative vcalib settings for the medium vcalib range 18 points = 0,250,500,750,1000,1250,1500,2000,2250,2500,2750,3000,3250,3500,4000,5000,6000,7000
these settings + the calibration mode vcalib value from AHC.cfg

ahcPmLedVcalibScan: 38 configuration; each 1000 events
1.) absolute vcalib settings for pedestal determination from vcalib=0 to 9000 in steps of 1000
2.) relative vcalib settings for the medium vcalib range 18 points = 0,250,500,750,1000,1250,1500,2000,2250,2500,2750,3000,3250,3500,4000,5000,6000,7000
these settings + the calibration mode vcalib value from AHC.cfg
3.) absolute vcalib settings for saturation determination starting from vcalib=56500 to 65500 in steps of 1000

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 17:12 Marius
AHCAL ramped back to working HV: nominal+0.6V
AHCAL ramped back to working HV: nominal+0.6V (not module 1 & 2)

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 17:10 Marius
321055 ahcCmLedVcalibScan e 3000 special
intercalibration run for tailcatcher
set vcalib for calibration mode to the same value as used in physics mode

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 17:09 Marius
new led vcalibscans debug runs

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 16:48 Marius
detailed vcalibscan
Detailed vcalibscan study to understand pedestal vcalib dependence:

ahcCmLedVcalibScan:
for each configuration: 2000 events

ahcPmLedVcalibScan:
for each configuration: 1000 events
341 configurations in total:
1.) 0-26 configuration: vcalib: 0-26K in 1000 steps
2.) 27-231 configuration: 26.1K-46.5K in 100 steps
3.) 232-240 configuration: 47.5K-55.5K in 1000 steps
4.) 241-340 configuration: 56.5K-65.5K in 100 steps

in the first try there was a bug:
step 4.) not starting from 56.5K but from 57.4K

runs with the bug:

<table>
<thead>
<tr>
<th>Run No.</th>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>321052</td>
<td>ahcCmLedVcalibScan special</td>
<td>vcalibscan with bug/AHCAL at nominal+0.3V</td>
</tr>
<tr>
<td>321053</td>
<td>ahcPmLedVcalibScan special</td>
<td>vcalibscan with bug/AHCAL at nominal+0.3V</td>
</tr>
<tr>
<td>321060</td>
<td>ahcCmLedVcalibScan special</td>
<td>vcalibscan hopefully without bug/AHCAL at nominal+0.6V; due to time constraints only 1000 events/configuration</td>
</tr>
<tr>
<td>321062</td>
<td>ahcPmLedVcalibScan special</td>
<td>vcalibscan hopefully without bug/AHCAL at nominal+0.6V</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 13:19 Marius
CMB exchange

2 CMBs have been exchanged and they are working now:
old CMB => new CMB:
CMB 10 => CMB06 = module 2 stack position 27
CMB 07 => CMB05 = module 7 stack position 21

Logbook entry: /CALICEelog/data/2006/42/18.10
18.10.2006 13:00 Marius
additional fan installation

in addition to the 4 existing fans we have installed 3 more on the VFE electronic side.

Logbook entry: /CALICEelog/data/2006/42/17.10
17.10.2006 08:23 Marius
gain calibration run

Logbook entry: /CALICEelog/data/2006/42/17.10
17.10.2006 08:10 shift crew
beam stopped

no beam for the next 36h due to a long MD/machine development

Logbook entry: /CALICEelog/data/2006/42/17.10
17.10.2006 08:00 shift crew
10 GeV pion debug run

try to reduce high rate; only 17K events

Logbook entry: /CALICEelog/data/2006/42/17.10
17.10.2006 07:31 shift crew
Pion 10GeV

Very high 10x10 trigger rate! ~1mio ev/spill!

-> stopped after 50K events
Logbook entry: /CALICEelog/data/2006/42/17.10

17.10.2006 07:09 shift crew

Pion 20GeV

Logbook entry: /CALICEelog/data/2006/42/17.10

17.10.2006 06:50 shift crew

Pion 20GeV

Logbook entry: /CALICEelog/data/2006/42/17.10

17.10.2006 03:26 shift crew

Pion 6GeV

Logbook entry: /CALICEelog/data/2006/42/17.10

17.10.2006 03:20 shift crew

Pion 6GeV
stopped again, same problem: ECAL noisy 1st layer, there was no beam at the beginning (?)
only 7500 events -> garbage run!

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 02:49
Pion 6 GeV
stopped after (only) 2500 events, we could see again ECAL '1st layer noisy' problem...
-> garbage run

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 02:22
Pion 15 GeV
same setup as previous run
Question: why can I not put Location CERN if I type a run info NOT in "insert new run info" button way?
stopped after 200K

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 01:54
Pion 15 GeV
10x10 rate: 7.5 kHz
Averaged event rate in run: 120 Hz
Run stopped after 200K events due to noisy 1st layer in ECAL
histo hECALHitsPerLayer: ECAL energy in first layer (bin number 0) > 10 times more hits (mips) than in the other layers
due to ECAL Safety Run taken before???

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 00:41
Pion 10 GeV
10x10 rate: 3.5 kHz
Averaged event rate in run 120 Hz
Run stopped after 310K events

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 00:12
Zalesak, Tarkovsky
new shift

Logbook entry: CALICE elog/data/2006/42/17.10
17.10.2006 00:11
Shift Crew
Pion 30 GeV
300592 beamData -m 1 -V 26 30 GeV pion 022 Smm Pl air 0.338

10x10 rate: 9KHz
Averaged event rate in run: 140 Hz
Run stopped after 205K events

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 23:45 Jean-Yves Niels Michal 15 GeV electron
300591 beamData -m 1 -v 26 15 GeV electron 027 air air 1.35 bar

10x10 rate: 9KHz
Averaged event rate: 120 Hz
Run stopped after 170K events

Logbook entry: /CALICEelog/data/2006/42/16.10
300589 beamData -m 1 -v 26 10 GeV electron 018 air air 2.6 bar

very high initial trigger rate with settings of file 018 (250K/spill). Closed COL3 and COL8 from +/-10mm to +/-4mm. These settings stored as file 227.

10x10 rate: 10KHz
Averaged event rate in run: 135 Hz
Run stopped after 150K

Logbook entry: /CALICEelog/data/2006/42/16.10
300588 beamData -m 1 -v 26 6 GeV electron 030 Pl 3 bar

10x10 rate: 6.5 KHz
Averaged event rate in run: 130 Hz
Stopped after 170K

Logbook entry: /CALICEelog/data/2006/42/16.10
300587 beamData -m 1 -v 26 6 GeV pion+ 029 Pl air 3 bar

10x10 rate: 150Hz
Averaged event rate in run: 17 Hz
Problem with QUAD16 (current 0.3) during a couple of seconds around event 72230
Run stopped after about 200K

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 17:40 Jean-Yves Niels Michal 6 GeV pion +
300586 beamData -m 1 -v 26 6 GeV pion+ 029 Pl air 3 bar

10x10 rate: 150
Averaged event rate in run: 12Hz
Run stopped after 78K because of the pedestal oscillator set back to 10 Hz

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 16:33 Jean-Yves Niels Michal 20 GeV pion+

| beamData | -m 1 -v 26 | 20 GeV pion+ | 019 | 0.76 bar |

10x10 rate: 12K
averaged event rate in run: 84Hz
stopped after 300K

Logbook entry: /CALICEelog/data/2006/42/16.10

16.10.2006 15:19 Marius 15 GeV pion+

| beamData | -m 1 -v 26 | 15 GeV pion+ | 027 | 1.35 bar |

10x10 rate: 11K
average DAQ event rate: ~90Hz
physics run
stopped after 300K

Logbook entry: /CALICEelog/data/2006/42/16.10

16.10.2006 15:01 Marius access
dismount Igor Tyapkins detector
access end at 15:20

Logbook entry: /CALICEelog/data/2006/42/16.10

16.10.2006 15:00 Marius 15 GeV pion+ debug run

| beamData | -m 1 -v 26 | 15 GeV pion+ | 027 | 1.35 bar wrong |

10x10 rate: 11K
beam tuning run

Logbook entry: /CALICEelog/data/2006/42/16.10

16.10.2006 14:57 Marius 6 GeV pion+ debug run

| beamData | -m 1 -v 26 | 6 GeV pion+ | 029 | 1.35 bar wrong |

10x10 rate: 250 particles/spill
change absorber to 4mm Pb
300 particles/spill
but too many electrons
low DAQ rate: ~10 Hz
beam tuning run

Logbook entry: /CALICEelog/data/2006/42/16.10

16.10.2006 14:28 Marius 30 GeV pion+ debug run

| beamData | -m 1 -v 26 | 30 GeV pion+ | 022 | 1.35 bar wrong |

rate in the 10x10 coincidences:
- 50K
- close collimator
- 10K
beam tuning run

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 14:24 Marius

20 GeV pion+ debug run

beamData-m 1 -v
20 GeV pion+ 0198mm Pb air 1.35 bar (changing during the first part of run)

rate in the 10x10 coincidences:
- 84K at the beginning of the run
- close collimator
- 13K
- close more collimator
- 11K

beam tuning run

Logbook entry: CALICEelog/data/2006/42/16.10

16.10.2006 13:37 Philippe

Monitor stuck again. An error message in the window were the sender was launched may be related to this:

SysError in <TUnixSystem::UnixSend>: send (Connection timed out)
Error in <TUnixSystem::SendRaw>: cannot send buffer

*** Break *** write on a pipe with no one to read it
SysError in <TUnixSystem::UnixSend>: send (Broken pipe)

Killed. Restarted. OK

Logbook entry: CALICEelog/data/2006/42/16.10

16.10.2006 13:27 shift crew

Event Display from pion runs at 10 GeV Run 300579 - TCMT

Logbook entry: CALICEelog/data/2006/42/16.10

16.10.2006 13:27 shift crew

Event Display from pion runs at 10 GeV Run 300579 - Hcal
Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 13:26 shift crew
Event Display from pion runs at 10 GeV Run 300579 - Ecal

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 13:24 shift crew
Event Display from pion runs at 10 GeV Run 300580 - TCMT
Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 13:24 shift crew
Event Display from pion runs at 10 GeV Run 300580 - HCal

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 13:21 shift crew
Event Display from pion runs at 10 GeV Run 300580 Ecal
Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 13:17 Marius 10GeV pion
3mm lead air 2.6 bar
10 GeV pion 0188
stopped after 175K

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 12:39 Marius beam property
beam property: half of the events are muon data
keep in mind for statistics assumptions
cerenkov gives a better ratio

Logbook entry: /CALICEelog/data/2006/42/16.10

Logbook entry: /CALICEelog/data/2006/42/16.10
16.10.2006 11:53 Marius 10GeV pion
3mm lead air 2.6 bar AHCAL HV: nominal+0.6V
the noise is comparable to the HV setting: nominal+0.3V
=> we will take the beam scan at nominal+0.6V
12:40: no beam from CPS
12:50: beam back from CPS
12:55: beam gone again
12:56: beam back
stopped after 250K
50% muons
50% pions
**Logbook entry: /CALICEelog/data/2006/42/16.10**

**16.10.2006 11:46** Marius

**change AHCAL HV settings: nominal+0.6V**

filename: CERN_131006_optimised.txt

nominal+0.6V

module 142 on nominal
TCMT at nominal+0.3V

//HV # ; maxVoltage ; maxCurrent ; initVoltage ; comment
1 ; 40.5 ; 200 ; 10.00 ; mod 4a
2 ; 40.3 ; 300 ; 10.00 ; mod 4b,3a
3 ; 69.8 ; 200 ; 10.00 ; mod 5a
4 ; 41.7 ; 300 ; 10.00 ; mod 5b,18b
5 ; 71.9 ; 200 ; 10.00 ; mod 6a
6 ; 43.5 ; 200 ; 10.00 ; mod 6b
7 ; 43.3 ; 300 ; 10.00 ; mod 8a,15b
8 ; 43.4 ; 200 ; 10.00 ; mod 8b
9 ; 42.5 ; 300 ; 10.00 ; mod 9a,14a
10 ; 42.8 ; 300 ; 10.00 ; mod 9b,19a
11 ; 40.5 ; 300 ; 10.00 ; mod 11a,17b
12 ; 45.7 ; 210 ; 10.00 ; mod 11b
13 ; 41.2 ; 300 ; 10.00 ; mod 12a,15a
14 ; 40.7 ; 300 ; 10.00 ; mod 12b,20b
15 ; 41.3 ; 300 ; 10.00 ; mod 13a,13b
16 ; 42.1 ; 300 ; 10.00 ; mod 14b,7a
17 ; 74.9 ; 200 ; 10.00 ; mod 17a
18 ; 41.4 ; 300 ; 10.00 ; mod 18a,21a
19 ; 44.2 ; 200 ; 10.00 ; mod 19b
20 ; 78.3 ; 200 ; 10.00 ; mod 20a
21 ; 43.7 ; 200 ; 10.00 ; mod 21b
22 ; 47.2 ; 200 ; 10.00 ; mod 22a
23 ; 73 ; 200 ; 10.00 ; mod 22b
24 ; 80 ; 200 ; 10.00 ; mod 23a
25 ; 81 ; 200 ; 10.00 ; mod 23b
26 ; 0.6 ; 200 ; 0.00 ; free
27 ; 0.6 ; 200 ; 0.00 ; free
28 ; 74.8 ; 200 ; 10.00 ; mod 16a
29 ; 43.9 ; 200 ; 10.00 ; mod 16b
30 ; 42.2 ; 300 ; 10.00 ; mod 7b,10b
31 ; 45.5 ; 200 ; 10.00 ; mod 10a
32 ; 38 ; 200 ; 10.00 ; mod 3b
33 ; 66.70 ; 300 ; 10.00 ; mod 2a
34 ; 64.70 ; 300 ; 10.00 ; mod 2b
35 ; 65.90 ; 300 ; 10.00 ; mod 1a
36 ; 67.30 ; 200 ; 10.00 ; mod 1b
37 ; 56.5 ; 100 ; 10.00 ; TCMT 1a
38 ; 46.0 ; 150 ; 10.00 ; TCMT 1b
39 ; 67.3 ; 150 ; 10.00 ; TCMT 2a
40 ; 76.3 ; 150 ; 10.00 ; TCMT 2b

**Logbook entry: /CALICEelog/data/2006/42/16.10**

**16.10.2006 11:46** Marius

**run 300578 stopped**

run 300578 stopped after ~200K

we see in the online monitor around ~12 noise hits in the AHCAL

**Logbook entry: /CALICEelog/data/2006/42/16.10**

**16.10.2006 11:37** Philippe

Quad 12 failed. Back to normal after a "Set to BeamRef"

**Logbook entry: /CALICEelog/data/2006/42/16.10**

**16.10.2006 11:15** Marius

**trim04 fixed**

trim04 fixed

**Logbook entry: /CALICEelog/data/2006/42/16.10**

**16.10.2006 10:58** Marius

**status: collimator03 and trim04**
control room called:
- collimator03 has been repaired
- trim04 is gonna be debugged during ongoing run = fluctuating currents

=> this gives us fluctuating trigger rates between ~230Hz and ~10Hz

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
16.10.2006 10:50 Marius 10GeV pion
300578 beamData -m 1 -v 26 10GeV pion 0188mm Pbir 2.2 bar at the start; then 2.6 bar
2K coincidences in 10x10
DAQ rate:
average event rate: ~60Hz
trigger rate: peak value at ~260Hz
AHCAL is still running with nominal+0.3V; file: CERN_141006_optimised.txt

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
16.10.2006 10:21 Marius 10 GeV pion+ debug run
300577 beamData -m 1 -v 26 10 GeV pion+ 0188mm Pbir 2.6 bar (still changing)
experts are working on trim04
and collimator3
3K particles/spill in the 10x10 coincidence
50% electrons / 50% pions
AHCAL is still running with nominal+0.3V; file: CERN_141006_optimised.txt

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
16.10.2006 10:11 Marius 10 GeV pion+ debug run
300576 beamData -m 1 -v 26 10 GeV pion+ 018airair 2.6 bar
bad collimator3 (momentum) out of reference
and trim04 has fluctuating currents
5K in the 10x10 coincidence
& also 5K in 3x3 coincidence
=>
mainly electrons
AHCAL is still running with nominal+0.3V; file: CERN_141006_optimised.txt

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
16.10.2006 10:00 Marius AHCAL at nominal+0.3V
AHCAL is still running with nominal+0.3V; file: CERN_141006_optimised.txt

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
16.10.2006 09:15 Marius pedestal run
AHCAL is still running with nominal+0.3V; file: CERN_141006_optimised.txt

Logbook entry: CALICEelog/data/2006/42/16.10  
16.10.2006 09:13 Marius change of beam energy
run 300570 stopped after 160K
Ilias is changing the beam energy for us to low energy

Logbook entry: CALICEelog/data/2006/42/16.10  
16.10.2006 05:04 shift crew Pion 30 GeV
300570 beamData -m 1 -v 26 30 GeV pion 203 Pb 4mm Cu 400 mm 0.338

Logbook entry: CALICEelog/data/2006/42/16.10  
16.10.2006 01:24 shift crew Pion 40 GeV
300569 beamData -m 1 -v 26 40 GeV pion 201 Pb 4mm Cu 400mm 0.19 bar

Logbook entry: CALICEelog/data/2006/41/15.10  
16.10.2006 01:14 shift crew

Logbook entry: CALICEelog/data/2006/41/15.10  
15.10.2006 23:23 shift crew pion 50 GeV
300568 beamData -m 1 -v 26 50 GeV pion 204 Pb 4mm Cu 400 mm 0.12 bar continued from Run 300567
20Hz event rate
run stopped at 140K events

Logbook entry: CALICEelog/data/2006/41/15.10  
15.10.2006 21:12 shift crew Pion 50 GeV
300567 beamData -m 1 -v 26 50 GeV pion 204 Pb 4mm Cu 400 mm 0.119
30 Hz event rate, 300 particles per spill
Run stopped at 170K
Magnet problem: QUAD15 QUAD12 and TRIM4 Current->0 for the last ~5minutes

Logbook entry: CALICEelog/data/2006/41/15.10
15.10.2006 shift crew
Pion 80GeV

300566 beamData -m 1 -v 26 80 GeV pion Pb Cu 400 mm 0.0989 bar

Stopped at 50K event.
Connection with the Ecal stage control

Logbook entry: [CALICE logbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs)

15.10.2006 20:33 shift crew
Pion 80 GeV

300565 beamData -m 1 -v 26 80 GeV pion Pb Cu 400 mm 0.0989 bar

HI voltag optimized
Stopped at 170K event because there is no beam, interlock problem.

Logbook entry: [CALICE logbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs)

15.10.2006 18:52 shift crew
Pion+ 80 GeV

300564 beamData -m 80 GeVPion Pb Cu 400mm 0.0989 bar

#92 per spill, Hcal is optimized voltage

Problem with magnet (instability), the run is stopped at 120K event.
50 Hz average rate

Logbook entry: [CALICE logbook](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs)

15.10.2006 18:50 Marius

AHCAL HV settings: nominal+0.3V

The last cycle of beam energy scan we will do with nominal+0.3V

filename: CERN_141006_optimised.txt
nominal+0.3V
module 162 at nominal HV and
TCMT at nominal+0.3V

// HV # ; maxVoltage ; maxCurrent ; initVoltage ; comment
1 ; 40.2 ; 150 ; 10.00 ; mod 4a
2 ; 40.0 ; 250 ; 10.00 ; mod 4b,3a
3 ; 69.5 ; 150 ; 10.00 ; mod 5a
4 ; 41.4 ; 250 ; 10.00 ; mod 5b,18b
5 ; 71.6 ; 150 ; 10.00 ; mod 6a
6 ; 43.2 ; 150 ; 10.00 ; mod 6b
7 ; 43.0 ; 250 ; 10.00 ; mod 8a,15b
8 ; 43.1 ; 150 ; 10.00 ; mod 8b
9 ; 42.2 ; 250 ; 10.00 ; mod 9a,14a
10 ; 42.5 ; 250 ; 10.00 ; mod 9b,19a
11 ; 40.2 ; 250 ; 10.00 ; mod 11a,17b
12 ; 45.4 ; 200 ; 10.00 ; mod 11b
13 ; 40.9 ; 250 ; 10.00 ; mod 12a,15a
14 ; 40.4 ; 250 ; 10.00 ; mod 12b,20b
Logbook entry: /CALICEelog/data/2006/41/15.10

15.10.2006 shift crew+Goetz
18:20
We waiting the beam.
The calibration run is still on.

We made a quick access and tried one suggestion to improve on the ECAL pedestal instabilities. It does not seem to be very successful, though.

Logbook entry: /CALICEelog/data/2006/41/15.10

15.10.2006 Shift crew
17:52
ahcCmLedVcalibScan
300563 ahcCmLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/41/15.10

15.10.2006 Shift crew
17:43
PMLedVcalibScan
300562 ahcPMLedVcalibScan -m 1

Logbook entry: /CALICEelog/data/2006/41/15.10

15.10.2006 Shift Crew
17:32
ahcGain
300561 ahcGain -m 1 -t ahcGain

Logbook entry: /CALICEelog/data/2006/41/15.10

15.10.2006 Philippe
15:41
The number of hits in the first Ecal layer changes strongly during runs. Here are some numbers:

Run 300542: 2
Run 300546: 27
Run 300555: 6
Run 300559: 42
Run 300560: 42
Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 15:33 Philippe

Unstable noisy Ecal channels during this shift:

<table>
<thead>
<tr>
<th>Slot</th>
<th>slab</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>4</td>
</tr>
<tr>
<td>17</td>
<td>5</td>
</tr>
</tbody>
</table>

(17,5) is new compared to yesterday. RMS ped can increase up to 10.
(17,4) had the same behaviour as yesterday: moving from time to time up to 15.
The unstable noisy channel from slot 19 was quite quiet today.

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 14:52 Corrupted File

Dear Paul.

my apologies for suspecting too quickly the DAQ (among others) itself at
the origin of the problem. It looks really as if we were facing
here a harddisk error.

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 12:36 Marius 30 GeV pion+

300560 beamData -m 1 -v 26 30 GeV pion+ 203 mm Pb 40 cm Cu 0.338 bar

around ~29/30K event we lost trim04 was out of beam reference for a short time
around ~48K event quad12 for a short time

Stopped at 201K events

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 12:33 Ph.Gris

New run 300560 - Restarted the Monitor GUI (request from George)

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 12:31 Marius stopped run 300559

stopped run 300559 after 80K
for 40 GeV pi+ we have three runs:
300554: 80k
300555: 70k
300559: 80k
sum: ~230K events

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 11:35 Marius caliceana crash

caliceana has crashed again
=> restarted copy script & online monitor

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 11:32 Marius pion+ 40 GeV
Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 11:30 Marius
pedestal run
300557 ahcPmNoise -m 1 -e 50000 stopped after 20000 events

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 11:29 Marius
reload DAC settings
300556 ahcDacScan reload DACs after switching AHCAL off and on

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 11:13 Marius
stopped run 300555
stopped run 300555 after 70K events due to the described strange current fluctuations in the AHCAL HV channels
turn all voltages down
beside try to lower current of TCMT HV channel 2B by reducing the HV for one long discharge SiPM
in slot 12/fe 2/chip 7/ch 8:
DAC values changed from 89 to 200
=> signal still there but RMS reduced from 900 to 400
=> current changed from 73μA to 56μA
new DAC file created with this change: DAC_tcmt2_151006.dat

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 10:45
Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006
10:44

current spikes on all channels

starting yesterday 4pm we see spikes on all HV channels which were not seen before.

problem in the power supply ???

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006
09:29

Marius

pi+ 40GeV

beamData -m 1 -v 26 40 GeV pion+ 2014mm Pb Cu 40cm 0.19 bar

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 Ph.Gris
Run number 300554 - after 5000 s: the Ecal energy increased (1100 mips compared to an average of about 800). The interesting point is that the unstable noisy Ecal channel (see yesterday elog) namely (slot 17, slab 4) and (slot 19, slab 3) were quiet at the moment!
Looking at the Power Supply slow control of the Ecal, saw that the connection was lost for -200 V. With Marius, went to disconnect and reconnect the plug of the green box. Close the GUI. It was not enough: the PC was stuck. Switched it off and on. The slow control is back to normal.
The Ecal energy is back to normal (around 800 mips).

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 Marius
problems with file 003 of Run300544
Roman has reported a corrupted file in run 300545:
- the check tool of Paul gets the same error message
=> do not delete this file, because it covers the bad section/block now
=> on tuesday (machine day) we will run the diskcheck over this partition
=> hopefully Roman can convert only the first three files (000-002). in this case we would have lost "only" ~40K events for the 30 GeV pi+ point

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 caliceana crash
Caliceana has crashed...
We hope we have set it up correctly again for copying!!

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 Marius
new shift
New shift: P. Gris, Erika, Marius
8:00-16:00

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 shift crew
Pions 40 GeV
300554 beamData -m 1 -v 26 40 GeV pi+ H6B.201 4mm Pb 50cm Cu 0.19 bar
240 hits/spill in 10x10cm² trigger
DAQ rate: 20 Hz

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 shift crew
Pions 50 GeV
300553 beamData -m 1 -v 26 50 GeV pi+ H6B.204 4mm Pb 50cm Cu 0.12 bar
300k events
350 hits/spill in 10x10cm² trigger
DAQ rate: 25Hz

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 shift crew
Access to switch on tripped chamber
Hi there,

I have run the converter over the doubtful run 300545. Indeed it dies towards the end of file Run300545.003.bin with the error message

```
Corrupted File Run300545.003.bin - further investigations
```

CRCVLinkEventDataSource::ProcessMyDataType> Somebody has stolen a CRC board
RcdReader::read() Too many words in record 84411378 > 100000
RcdReaderBin::close() Closed file

The funny error message from the converter means that it has detected a wrong number of crc boards as extracted via

```
std::vector<const CrcLocationData<CrcVlinkEventData>*>* v(accessor->access< CrcLocationData<CrcVlinkEventData> >());
```

and also the RcdReader detected the problem.

It seems indeed that the file is broken, the position at which the converter fails corresponds very good to the position at which the various copy attempts failed.

I checked the log files for this run i.e.

```
/srv/calice/data00/data/cernCombinedJul06/log/Log1160828668.out_calice00
```

```
/srv/calice/data00/data/cernCombinedJul06/log/Log1160828524.out_calice02Trg
```

but could not see anything particularly wrong (but it is of course possible that I have missed something). Also the shift crew reported no observation for example in the online monitor or any other information available online.

The exact event numbers where the problem occurs I will give tomorrow. The problem needs to investigated further whether it is a DAQ failure (what I think) or a disk problem of the diskarray in the control room or ...? Hints are welcome.

At least the copying problem became less mysterious.

Cheers,

Roman

---

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 02:16 shift crew
pions 80 GeV

300552 beamData -m 1 -v 26 80 GeV pi+H6B.2024mm Pb 50cm Cu 0.09 bar

300k events
1600 hits/spill in 10x10cm2 trigger
DAQ rate: 55 Hz
DC2 tripped; not working in this run

---

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 02:13 shift crew
pedestal run HCAL PM

300551 ahcPmNoise -m 1

30k events

---

Logbook entry: /CALICEelog/data/2006/41/15.10
15.10.2006 02:10 shift crew
pedestal run HCAL CM

300550 ahcCmNoise -m 1

30k events

---

Logbook entry: /CALICEelog/data/2006/41/15.10
HCAL CM light scan

Logbook entry: /CALICEelog/data/2006/41/15.10

HCAL PM light scan

Logbook entry: /CALICEelog/data/2006/41/15.10

HCAL calibration

Logbook entry: /CALICEelog/data/2006/41/14.10

CMB module 7

Logbook entry: /CALICEelog/data/2006/41/15.10

Corrupted File Run300545.003.bin

Hi there,

it looks as if we have produced at least one corrupted file this evening namely Run300545.003.bin

I noticed the problem as the grid transfer failed repeatedly at the same position in the file.

A usual scp to one of our machines in the control room lead to an Input/Output Error as well and even a normal cp failed i.e.

```
[caliceon@caliceana caliceon]$ cp -v /srv/calice/data00/data/cernCombinedJul06/run/Run300545.003.bin /tmp/testfile
'/srv/calice/data00/data/cernCombinedJul06/run/Run300545.003.bin' -> '/tmp/testfile'
cp: reading '/srv/calice/data00/data/cernCombinedJul06/run/Run300545.003.bin': Input/output error
```

The number of bytes copied until then corresponds to the position at which the grid transfer fails.

I think we need to investigate this, first by inspecting the file on the control room disk itself.

The grid transfer was stopped due to the observation of the problem and it will be resumed now with the next run. Thus no files of the run 300454 will be available for analysis.

Cheers,

Roman
Logbook entry:  CALICElog\(\text{data}/2006/41/14.10\)

**15.10.2006** shift crew

**00:21**

S. Schäetzle, F. Salvatore, N. Wattimena

Logbook entry:  CALICElog\(\text{data}/2006/41/14.10\)

**14.10.2006** new shift crew

Logbook entry:  CALICElog\(\text{data}/2006/41/14.10\)

**20GeV pi Beam data**

Nicola/Michal/Yoshi

**21:09**

300546 beamData -m 1 -v 26 20GeV pi H6B.205 4mm 40cm Cu 0.76 bar

110k events

48 particles/spill for 10cm x 10cm trigger at beginning of the run.

Average run rate is 10Hz.

00:00 beam magnet TRIM04 - current gone crazy! Clicked 'Refresh' and 'Set to beam current' several times before it got back to normal.

Logbook entry:  CALICElog\(\text{data}/2006/41/14.10\)

**14.10.2006**

[**Fwd: News on calice data**]

Hi there,

it looks as if we have overcome the difficulties with the desy mass storage we have faced last week.

All runs of this period are shipped into and all but one run (Run300515 still running at polgrid - llr) have been converted (hcal and combined runs).

Combined Runs >= 300440
Hcal Runs >= 320707

The more all combined runs (binaries and converted files) taken in this period until this minute (Run300441 - 300542) are available on the grid.

The converter is no more behind but parallel to the data taking.

Important Remarks

---------

In case of future problems with the DESY mass storage I will redirect the data to another site, e.g. LAL where we have a certain amount of disk space available. This means that it is possible that for a limited amount of time the data won't be available on the desy mass storage. In such a case they will be *only* available via the grid which in particular concerns DESY colleagues who benefit from the fact that they have the data are on-site. Data availability via the grid is the *default* option and problems with that I will handle with highest priority!!! Like that we can maintain the availability of the data for *everyone* in calice more or less independent of the site where the data are stored. I should have considered this option already earlier this week but anyway..

This means that I ask you once more to become member of the vo calice. In case of problems I will provide as much support as I can.

In general, it is highly desirable to have a second major site at hand for the storage of our data. In France cc lyon has promised us to provide disk space but we (i.e. I) have to push for it. In general it would be good that our requests will be backed-up by people who are more mighty than me. Other sites are welcome as well.

To be clear DESY will remain the default storage site.

Cheers,

Roman
Logbook entry: CALICEelog/data/2006/41/14.10
14.10.2006 16:16

A tip for desy colleagues

Dear Colleagues,

in order to overcome the long waiting time for freshly copied files which we/you're suffering from there is another option to access the files.

Instead of giving the path as

/pnfs/desy.de/....

you can give the url of the file in the dcache system

e.g.


after the usual export LD_PRELOAD

An example steering file can be found under

/afs/desy.de/user/p/poeschl/flc/calice/theconv_write.steer

I use this method to convert data as they come in from cern allowing me to keep the pace of the data taking with the conversion.

It looks as if this method works for fresh data and old data. as I have also retrieved successfully an older file.

Maybe this helps.

Although I have announced that grid access will have priority this should not been that the desy internal access will be neglected completely. Problems on this side might also point at general problems.

Cheers,

Roman

Logbook entry: CALICEelog/data/2006/41/14.10
14.10.2006 14:49

Marius

30 GeV pion

300545 beamData -m 1 -v 26 30 GeV pion 2034mm Pb Cu 40cm 0.338 bar DAQ rate 12Hz

oscillator trigger off (hopefully, but software trigger is of course still on)

CAUTION: first 14K events had wrong quadropole settings in beamline

Event rate: 10Hz
120 particles/spill at 10cmx10cm trigger
Additional ECAL noisy layer #0 (In total, 4 layers are noisy: #0, #2, #14 and #23.)

@109000 events collimator D10 fails -> restored after few minutes. Probably only problem with the readout.

@145000 events, problems with magnets: restored after 10 spills

Run stopped at 240K events

Logbook entry: CALICEelog/data/2006/41/14.10
14.10.2006 14:46

Nicola

Hcal Event Display calibration updated

The event display for the HCAL has been update with the MIP calibration from runs: 300486,300487,300489,300492. Now it makes sense to look at the HCAL plots in the Event Display.

Logbook entry: CALICEelog/data/2006/41/14.10
too many pedestals

online monitor results:
- Nicolas new pip calibration gives us a much better view about our detector
- we have too many pedestals in the files collected with low beam frequencies
  => run 300543 has only ~90K beam events and ~90K pedestal events

  => try to turn off oscillator trigger in DAQ (20 Hz)
  => start new run 300545: trigger rate decreased to 12 Hz
  => software trigger is of course still in
  => online monitor shows a much better ratio between beam & pedestal events

Logbook entry: CALICEelog/data/2006/41/14.10

30 GeV pion

too many pedestals at this beam trigger frequency

Logbook entry: CALICEelog/data/2006/41/14.10

Erik

no beam

Run 300543 comments:
12:20 no beam
12:25 beam back
13:30 collimator 10 still sometimes at lower values than the selected +25
14.10.2006 caliceon@calicehcalsc03.cern.ch (CALICE user)

inner module in HCAL

After the cool down after the fan installation the temperature is stabilizing to approx 4-5 degrees lower than yesterday.

Logbook entry: /CALICEelog/data/2006/41/14.10

14.10.2006
11:50
temperature decrease after cooling (fwd)

Logbook entry: /CALICEelog/data/2006/41/14.10

14.10.2006
11:49
top to bottom variation

After cooling the VFE electronics for about 20h the difference between top and bottom of each module is below half of a degree while the gradient between modules in the stack has reduced from 8 to 4 degrees.
Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 11:25
Marius
online monitor shows an increase in the ECAL energy for ~2 minutes
but we have not seen any changes in the beam monitor PC
and the AHCAL response stays stable
maybe a noise feature

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 11:18
Marius
temperature development
the outer modules are increasing their temperature due to the daily temperature increase,
but the
more inner modules have still a decreasing temperature gradient
=> we hope for a more flat temperature distribution vs. layer number

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 11:08
Marius
30 GeV pion
300543 beamData -m 1 -v 26 30 GeV pion 2034mm Pb 40cm Cu 0.338 bar
100 particles/spill in the 10x10 coincidence

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 09:56
Marius
good beam / stable response
good beam / stable response until now
10:15 no beam
10:22 beam back
10:45 collimator 10 is fluctuating for +25 between +24.1 - +24.6
stopped run 300542 after 235K events

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 08:24
Marius
temperature development

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<td>24.2</td>
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</table>

Stack position (S1, S3, S5)
### Logbook entry: /CALICEelog/data/2006/41/14.10

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\[ \text{av}(T1/T3) = \text{lower part of AHCAL (B)} \]
\[ \text{av}(T3-T5) = \text{upper part of AHCAL (A)} \]

module 21: T5 not working; shows 117°C (correction: I guess I have meant stack position 21 & module 7)

success of cooling: reduce the highest temperatures from 30° to 28.5°
since midnight the slope has changed... starts to stabilize

---

**14.10.2006 08:13** Marius

new shift

Erika, P. Gris, Marius

---

**Logbook entry:** /CALICEelog/data/2006/41/14.10

**14.10.2006 08:00**

shift crew pions 40 GeV

300542 beamData -m 1 -v 26 40 GeV pi H6B.201.4mm Pb 50cm Cu 0.19 bar

first ~9000 events only pedestal/no beam
240 hits/spill in 10x10cm²

---

**Logbook entry:** /CALICEelog/data/2006/41/14.10

**14.10.2006 07:56**

shift crew module 10 sees light

CMB 2 connected to power socket 35 (socket 20 is broken)
=> module 10 now sees calibration light

---

**Logbook entry:** /CALICEelog/data/2006/41/14.10

**14.10.2006 06:03**

shift crew HCAL PM light scan

300541 ahcPmLedVcalibScan -m 1
Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
05:54  
300540 ahcCmLedVcalibScan -m 1

HCAL CM light scan

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
05:50  
300539 ahcPmNoise -m 1
30k events

HCAL PM pedestal run

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
05:47  
300538 ahcCmNoise -m 1
30k events

HCAL CM pedestal run

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
05:31  
300537 ahcGain -m 1

HCAL calibration

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
04:00  
300536 beamData -m1 -v 26 40 GeVpi H6B.201 4mm Pb 40cm Cu 0.19 bar

pion 40 GeV

like run 300535
85k events (last 5 min with low intensity beam due to booster problem)

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
03:35  
300534 beamData -v 26 -m 1 50 GeVpi H6B.204 4mm Pb 40cm Cu 0.19 bar

pion 50 GeV

230 hits/spill in 10x10cm2 trigger
DAQ rate: 25 Hz
30k events
no beam in middle of run for ca. 10 minutes

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006  shift crew
00:38  
300533 beamData -v 26 -m 1 50 GeVpi H6B.204 4mm Pb 40cm Cu 0.12 bar

pion 50 GeV

300 hits in 10x10 cm2 trigger
DAQ rate: 30 Hz
300k events

Logbook entry: /CALICEelog/data/2006/41/14.10
14.10.2006 shift crew
00:00 new shift crew
Nanda Wattimena, Michele Faucci Giannelli and Sebastian Schaetzel

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 Yoshi/Michal/Nicola pion run
23:29

300533 beamData -m 1 -v 26 80GeV pi H6B.202
(300532 is garbage)
Lots of events deposit energy in the tail catcher: 80 GeV pions are energetic enough to
traverse HCAL with low interaction.
880 particles/spill (3cmx3cm)
ECAL noisy layers #2, #14, #23
Average event rate in Run; 80Hz
Secondary beam is 120 GeV
run stopped after 300k events

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 Yoshi/Michal/Nicola pion run
23:13 Erika Beam Info
It has been decided to leave the secondary momentum to H6 to

+120 GeV till Monday morning.

We have created tertiary files from the secondary 120 to lower momentum pions,
We will use 400 mm Cu target to spread the beam energy before the spectrometer magnet
which selects
the momentum to our experiment. We have inserted ‘mm Pb absorber to clean up the beam
from electrons and have as pure pions as possible.
The beam is very well focused to our 3x3 cm2 coincidence. The momentum collimators are
all closed
to give better than 1% Dp/p. (C3=C8=C2=+/−10mm)
The position collimators are left wide open. The MWPC spectrum tells us the beam profile
is gaussian
in our area.
The possible momentum points for the w.e. are:80,50,40,30,20 GeV.

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 Yoshi/Michal/Nicola pion run
23:10 Marius AHCAL HV settings
we have decided to increase the voltage for all modules by +0.6V; but modules 1&2 stay at
nominal
the tailcatcher channels are increased by 0.3V, since their SIPMs are different optimised
the temperatures are still decreasing since our fans are running... we hope for an
equilibrium tomorrow

filename to load (in case): CERN_131006_optimised.txt
//HV # ; maxVoltage ; maxCurrent ; initVoltage ; comment
1 ; 40.5 ; 200 ; 10.00 ; mod 4a
2 ; 40.3 ; 300 ; 10.00 ; mod 4b,3a
3 ; 69.8 ; 300 ; 10.00 ; mod 5a
4 ; 41.7 ; 300 ; 10.00 ; mod 5b,18b
5 ; 71.9 ; 200 ; 10.00 ; mod 6a
6 ; 43.5 ; 200 ; 10.00 ; mod 6b
7 ; 43.3 ; 300 ; 10.00 ; mod 8a,15b
8 ; 43.4 ; 200 ; 10.00 ; mod 8b
9 ; 42.5 ; 300 ; 10.00 ; mod 9a,14a
10 ; 42.8 ; 300 ; 10.00 ; mod 9b,19a
11 ; 40.5 ; 300 ; 10.00 ; mod 11a,17b
12 ; 45.7 ; 210 ; 10.00 ; mod 11b
13 ; 41.2 ; 300 ; 10.00 ; mod 12a,15a
14 ; 40.7 ; 300 ; 10.00 ; mod 12b,20b
15 ; 41.3 ; 300 ; 10.00 ; mod 13a,13b
16 ; 42.1 ; 300 ; 10.00 ; mod 14b,7a
17 ; 74.9 ; 200 ; 10.00 ; mod 17a
18 ; 41.4 ; 300 ; 10.00 ; mod 18a,21a
19 ; 44.2 ; 200 ; 10.00 ; mod 19b
Logbook entry: CALICEelog/data/2006/41/13.10
13.10.2006 22:38  shift crew  pion beam tuning run
300531 beamData -m 1 -n 0 -e 250000 -v 26 80GeV pi H6B.202 4mm Pb Cu 0.190 bar
2600 particles/spill (3x3) and the average events rate is 100Hz at the beginning.
10cmX10cm trigger, collimator is full open.

Logbook entry: CALICEelog/data/2006/41/13.10
13.10.2006 19:47 Marius  LED physics mode hold
the problem with the hold for the led in physics mode has been solved.
it was my mistake: i have compared it with the hold values of the modified ASIC readout
tests!
sorry for this!
here the comparison:
mod old_hold new_hold
1  67  67
2  65  65
3  62  62
4  60  60
5  68  68
6  64  64
7  62  62
8  66  65
9  67  66
10  67  67
11  66  65
12  68  67
13  69  68
14  63  62
15  70  69
good reproducibility

Logbook entry: CALICEelog/data/2006/41/13.10
13.10.2006 19:20 Marius  new AHC.cfg
since we have stopped the muon calibration, therefore we will not use anymore the
coincidence of the two 100x100 counters, but the 10x10 or 3x3. Therefore the hold values have to set
back to the longer hold values:
filename: AHC_CERN_131006_300529_321023.cfg
1. AHC.cfg
2. 
3. in this file you have to specify which
4. configuration file should be used for which frontend
5. 
6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_
CM Vcalib_PM

1. holdValues in physicsmode for module 22 & 19 not determined
2. CM Vcalib_PM

3. DAC_module04.dat  60  32  14  42000  46000
4. DAC_module05.dat  68  38  14  42000  46000
5. DAC_module06.dat  64  34  16  42000  46000
6. DAC_module07.dat  65  32  19  42000  46000
7. DAC_module08.dat  64  34  17  42000  46000
8. DAC_module09.dat  66  34  16  42000  46000
9. DAC_module10.dat  65  34  15  42000  46000
10. DAC_module11.dat 68  39  13  42200  46000
11. DAC_module12.dat 62  33  14  42000  46000
12. DAC_module13.dat 68  39  12  42200  46000
13. DAC_module14.dat 60  33  14  42000  46000
14. DAC_module15.dat 60  33  15  42000  46000
15. DAC_module16.dat 60  33  16  42000  46000
16. DAC_module17.dat 60  33  18  46250  53000
17. DAC_module18.dat 60  33  13  28000  32000
18. DAC_module19.dat 60  33  13  28000  32000
19. DAC_module20.dat 60  33  12  28000  32000
20. DAC_module21.dat 60  33  12  28000  32000
21. DAC_module22.dat 60  33  13  28000  32000
22. DAC_module23.dat 60  33  12  28000  32000

I see for some modules/frontends saturation in the physics mode led vcalibscan; this is surprising for me, since this was never observed in the last run period. Maybe this is correlated with the observed longer shaping time!? Since this effect is not observed in calibration mode (means the hold is still the same as before), I can only think of a longer led pulse or of different kind of SiPMs!?

We see this effect in module 5, 6 (old modules) and 20, 21, 22 (new modules).

This needs better investigations. And it is important since we have set up the readout electronics like that we can see the ASIC saturation, which seems to be not the case for these channels.

I just have checked once more the ASIC settings with which we are running:

in physics mode
AHCAL/TCMT frontends:
shaping: YYYY
gain: NYNY
injection resistor enabled

pin:
shaping: NYYY
gain: NNNY
injection resistor enabled

pet:
shaping: YYY
gain: NYYY
injection resistor enabled

this should be ok
Dear Colleagues,

it looks as we're still suffering from the 'pnfs problems' desy has announced yesterday. According to a phone conversation I had with Patrick they are about to establish the services one after the other.

The data seem to be available via the grid, but not from inside desy (and I think to have understood why it is like that).

Concerning the grid processing mentioned in an earlier posting some jobs of long runs failed with 'disk quota exceeded' at least one other job was killed by the local administrator after it has occupied ~50 GByte of disk space in the home directory.

In general, all runs until 300503 (except 300447 crashed due to the stop of the srm-dcache service this morning at 830h) have been processed and are available as lcio files.

Runs 300453, Run 300454 (very long ones) show error messages in the log output, so they will have to be reprocessed.

Processing will resume as soon as desy it informs me that the dcache service is back.

Clear advice: Don't try to touch data (even not the binaries until) I announce that it is possible.

On the other hand shipping the data into desy seems to work well.

Sorry for all the trouble.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 15:31 Marius gain calibration
300518 ahcGain -m 1 first run after runType change / please check
300519 ahcGain -m 1
300520 ahcCmLedVcalibScan -m 1 first run after runType change / please check
300521 ahcPmLedVcalibScan -m 1 first run after runType change / please check

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 15:09 installation of cooling fans
the temperature on the CMB decreases after the installation of cooling fans below the electronics on both sides
The analysis feedback from Beni & Niels leads to following changes:

**change in the ahcGain runType:**
- try to collect both kinds of pedestals:
  1. tcalib send to CMB (low vcalib -1000 from AHC.cfg value)
  2. tcalib not send to CMB (vcalib at -1001 from AHC.cfg value)

vcalib settings for: -1000,-500,-375,-250,-125,0,125,250,375,500,-1001

(the same is done for the tailcatcher frontends, but since the led system is different the last vcalib is +1001 instead of +1000)

therefore the ahcGain run gets one additional configuration at the end, in which we collect the second type of pedestal (12K)

=> ahcGain has now 132K events in total (time needed 17min)

**change in ahcCmLedVcalibScan & ahcPmLedVcalibScan (only for AHCAL, not TCMT):**
- first configuration without sending tcalib (monitor second type of pedestals); vcalib at -1001
- second configuration with sending tcalib (monitor first type of pedestals); vcalib at -1000

vcalib settings for ahcCmLedVcalibScan:
-1001,-1000,-500,-250,0,250,500,1000,1500,1750,2000,2500

vcalib settings for ahcPmLedVcalibScan:
-1001,-1000,-500,-250,0,250,500,1000,1250,1500,1750,2000,2500
then:
20 configurations in 500 steps
10 configurations in 1000 steps

since each configuration has only 1000 respectively 2000 events it does not lead to a significant increase in data taking time

---

Reduce runsize from 1million to 250K events:
GUI option is changed to split the runs in smaller samples to speed up the processing
Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 15:00 Marius first try of cooling
we have installed two rack fan-units under each electronic installation:
2 under the VFE
2 under the CMs
we see in the slow control temperature plots at least a fall in the VFE temperature
sensors of ~2 degree

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 14:15 Ph.Gris Monitor GUI
The monitor GUI got stuck. Killed it and restarted it. Restarted also the sender.

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 11:45 Erika HCAL central module
The HCAL modules have been warming up since we left the power on continuously for 2 days.
We do observe a T gradient along the stack, especially for those module which have no air
gap in between subsequent layers.
HELP: we need cooling!

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 11:42 last HCAL module in stack
Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006
11:41

HCAL temperature gradient

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006
11:38

Marius
muon calibration

300517 beamData -m 1 -n 0 -e 1000000 -v 19 muon HCAL: nominal+0.3V
stopped after 500k

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 10:16 Marius  muon calibration

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 10:25 unstable beam
access to area granted: switch on driftchambers
11:30 TCMC HV is OFF. access granted to check power off in the LED system if TCMC.
run stopped after ~200K events
reload DACs

13.10.2006 09:17 Marius  muon calibration

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 10:00 no beam
10:03 beam back
10:13 DAQ crash??? stopped after 180K

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 08:25 Marius  muon calibration

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 08:05 Marius  new shift
P. Gris, Erika, Marius

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 06:38 shift crew

Logbook entry: /CALICEelog/data/2006/41/13.10

13.10.2006 04:45 Copy and Converter Status
Dear Colleagues,

copying of data into desy went smoothly during the whole day.

Reading back was hampered this afternoon by a 'pnfs failure' of the desy dcache system and I still have the impression that there are some problems.

To keep up with the data taking I decided to use the grid for the conversion which speeded up things quite a bit (I have concentrated on the 300xxx runs first). A few long runs are still missing maybe still a lot of data transfer since my scripts are still not ultraclever. So far I had no job which failed but I am not sure what happens with the long runs since they also occupy a considerable amount of disk space on the Workernode. There is a good chance that during tomorrow we will have processed all the files which are missing.

I think that is it what is to be said for the 930h meeting to which I won't make it this time.

Unfortunately this data management business is hard these days but it seems that we're about to recover from the problems.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 04:39 shift crew muon run
300510 beamData -m1 -v19 muon +0.6V
muon calibration at HV = nominal +0.6V

~10500 events per spill in the 10x10 cm² trigger
~9700 events per spill in the 100x100 cm² trigger

1M events

Wrong collimator settings!
Use this run only for ECAL calibration!

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 04:24 shift crew gain run
300508 ahcGain +0.3V
gain calibration at HV = nominal +0.3V

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 04:20 shift crew pedestal run
300507 ahcPmNoise +0.3V
physicsmode pedestal run at HV = nominal +0.3V

50k events

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006 02:20 shift crew muon run
300505 beamData -m1 -v19 muon +0.3V
continued muon calibration at +0.3V

~22500 events per spill in the 10x10 cm² trigger
~21000 events per spill in the 100x100 cm² trigger

1M events

Wrong collimator settings!
Use this run only for ECAL calibration!

Logbook entry: /CALICEelog/data/2006/41/13.10
13.10.2006
01:50
shift crew
muon run

300504 beamData -m1 -v13 muon +0.3V
continue muon calibration run at HV = nominal + 0.3V
HV for DC2 tripped, maybe also for DC1. Will be reseted when the beam is gone.

Very high trigger rates in the beginning (6M per spill in the 100x100 cm^2 trigger)
-> close beam shutter
run stopped after 350k events

Logbook entry: /CALICEelog/data/2006/41/12.10
13.10.2006
01:48
Sebastian Schaetzel, Fabrizio Salvatore, Nanda Wattimena

Loaded new DAC settings for the TCMT

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006
23:57
Goetz/Michal/Nicola/Yoshi
PCB test finished

PCB test is done.
ECAL PCB is returned normal position (X=4000, Y=1300) test PCB is removed, all modules are reconnected, fans are reinstalled and switched on.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006
23:33
Goetz/Michal/Nicola/Yoshi
PCB test

X=4300, Y=1000
trigger setting is back to 3x3cm2.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006
23:24
Goetz/Michal/Nicola/Yoshi
PCB test

X=4450, Y=1000
tigger setting is changed as 10x10 cm2.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006
23:14
Goetz/Michal/Nicola/Yoshi
PCB test

X=4600, Y=1000
This run stopped with 10k events.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006
23:09
Goetz/Michal/Nicola/Yoshi
PCB test

X=4600, Y=1000
This run stopped with 10k events.
Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 22:07 Goetz/Michal/Nicola/Yoshi electron beam test
300498 beamData -m 1 -v 28 100GeV electron H6B.706 air 3mm Pb
This run is stopped with 9k events.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 21:41 Goetz/Michal/Nicola/Yoshi electron beam test
300497 beamData -m 1 -v 28 100GeV electron H6B.705 air 3mm Pb
This run is stopped with 10k events.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 21:19 Goetz/Michal/Nicola/Yoshi electron beam test
300496 beamData -m 1 -v 28 100GeV electron H6B.704 Air6mm Pb
This run is stopped at 6k events.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 21:14 Goetz/Michal/Nicola/Yoshi electron test
300495 beamData -m 1 -v 28 100GeV electron H6B.704 air3mm Pb
This run is stopped with a few minutes to change target.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 21:10 Goetz/Michal/Nicola/Yoshi electron test (test PCB)
300493 beamData -m 1 -v 28 100GeV electron H6B.704 air 3mm Pb
300493 is junk run
A small test PCB (2*2 pads) was installed in the empty alveola in slot for the layers 20 and 21 (of 0-29) above the fully equipped central PCBs. This position should correspond to 6.1 X0 the maximum for (100 GeV) should be at ~6.6 X0. The PCB features readout chips behind the pads. The idea was to place the readout chip in the shower maximum and to verify, that the shower electrons do not create signals directly when passing through the chips.

The ECAL was lowered as far as possible (6cm). The range was limited by the HCAL support bar. In y direction the beam was hitting the ECAL in between the central PCB and the test PCB. In x-direction, the beam was centred on the first wafer (from the left) of the central PCBs.

The PCB was connected to Slot 19 Fe3, The test PCB prevented the installation of the fans. To reduce the heat, all PCBs of the even layers were disconnected.

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 18:27 Michal/Nicola/Yoshi muon calibration run
300492 beamData -m 1 -n 0 -e 1000000 -v 19 muon 1mx1m HCAL and TC operated at Nominal voltage +0.3 V
20:00 The beam is stable and the spill rate stays always at about 14K events per spill
Run stopped at 498K events

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 18:20 Michal/Nicola/Yoshi
em noise run
300490 emcNoise 50K events

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 18:15 Michal/Nicola/Yoshi
18:15 Access to beam area for TC operation

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 15:52 Michal/Nicola/Yoshi
muon calibration run
300489 beamData -m 1 -n 0 -e 1000000 -v 19 muon
HV is setting as nominal+0.3V
Run stopped after 500K events

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 14:40 Marius
muon calibration run
300487 stopped after 250K
300488 beamData -m 1 -n 0 -e 1000000 -v 19 muon
ge garbage

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 13:20 Marius
muon calibration
300486 beamData -m 1 -n 0 -e 1000000 -v 19 muon
nominal+0.3V
longer supercycle: ~50Hz trigger/DAQ rate
TCMT slot 12 fe 2 lost two chips:
Vishnu has checked the cable connection & has reconnected the scsi cable on the VFE
=> channels recovered
stopped run to reload DAC
stopped after 250K

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:59 Marius
pedestal stability
300485 ahcPmLedVcalibScan -m 1 special
vcalibscan
calib settings: 1000,2000,... 10000
CMB on
stopped after 15 configurations

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:55 Marius
pedestal stability
300484 ahcCmLedVcalibScan -m 1 special
vcalibscan
calib settings: 1000,2000,... 10000
CMB on
stopped after 12 configurations

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:51 Marius  pedestal stability checks
300483 ahcPmLedVcalibScan -m 1 special vcalib settings
vcalib settings: 1000,2000,...,10000
CMB off
stopped after 12 config

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:46 Marius  pedestal stability
300482 ahcCmLedVcalibScan -m 1 special vcalibscan
vcalib settings: 1000,2000,...,10000
CMB off

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:34 Marius  pedestal stability
300481 ahcCmNoise -m 1 -e 25000 pedestal stability checks / CMB off

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:30 Marius  pedestal stability
300480 ahcPmNoise -m 1 -e 25000 pedestal stability check / CMB off

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:28 Marius  pedestal run
300479 ahcCmNoise -m 1 -e 25000 pedestal stability check/CMB on

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:20 Marius  pedestal studies
300478 ahcPmNoise -m 1 -e 25000 pedestal stability checks / CMB on

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 12:12 Marius  copying, converter et al.

Hi there,
at the moment copying into desy works well after desy it has disabled dcache41 from the data transfer.
The problem here is that the dcache41 is also configured for cms matters and obviously they create a lot of failing write requests which makes the machine slow after a while. Unfortunately we are also assigned from time to time to this machine for the data transfer. DESY It is looking for a stable solution.

It seems that we are the first project who is using the whole data transfer chain 24/24h 7d/7d. We are encountering all the weaknesses hidden in the system. The constant use is still something different than the games the lhc experiments are playing from time to time (called system challenge) which is nothing else what we are doing.

After all they have realized that our actions are important to optimize the performance of their system and we have the whole desy it on alert now for us :-) .

During today I will watch the transfer and react if necessary. I will tell you when the task can be handed back to the shift crew.

The converters have been restarted at ilc-log01 after Sebastian has restarted the db at desy after he has adjusted the timeout on flccaldb01. Also this I will watch closely during today.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/41/12.10 12.10.2006 11:10 Marius pedestal @ nominal 0.9V

Logbook entry: /CALICEelog/data/2006/41/12.10 12.10.2006 11:09 Marius LED calibration mode holdscan

Logbook entry: /CALICEelog/data/2006/41/12.10 12.10.2006 11:07 Marius reload DAC after turning power down

Logbook entry: /CALICEelog/data/2006/41/12.10 12.10.2006 11:06 Marius led physics mode holdscan

Logbook entry: /CALICEelog/data/2006/41/12.10 12.10.2006 10:54 Marius new AHC.cfg file due to update holdvalues; NO mapping change

filename: AHC_CERN_121006_300475_321022.cfg

new holdvalues determined by Sebastian and Nanda
1. AHC.cfg
2. 
3. in this file you have to specify which configuration file should be used for which frontend
4. 
5. 
6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_
1. holdValues in physicsmode for module 22 & 19 not determined

5 0 AHCAL DAC_module04.dat 60 32 2 42400 46000
5 1 AHCAL DAC_module05.dat 68 38 2 42000 46000
5 2 AHCAL DAC_module06.dat 64 34 4 42000 46000
5 3 AHCAL DAC_module08.dat 65 32 7 42000 46000
5 4 AHCAL DAC_module09.dat 66 34 3 42000 46000
5 5 AHCAL DAC_module11.dat 65 34 3 42000 46000
5 6 AHCAL DAC_module12.dat 67 34 7 41800 46000
9 1 AHCAL DAC_module13.dat 68 35 5 42000 46000
9 2 AHCAL DAC_module14.dat 62 31 2 42000 46000
9 4 AHCAL DAC_module15.dat 69 39 1 42200 46000
9 5 AHCAL DAC_module17.dat 60 33 1 28000 32000
9 6 AHCAL DAC_module18.dat 66 34 3 42000 46000
15 3 AHCAL DAC_module21.dat 62 33 0 28000 32000
15 4 AHCAL DAC_module22.dat 60 33 1 28000 32000
15 7 AHCAL DAC_module19.dat 60 34 3 28000 32000
17 0 AHCAL DAC_module16.dat 67 35 5 42000 46000
17 1 AHCAL DAC_module20.dat 60 33 0 28000 32000
17 3 AHCAL DAC_module10.dat 67 35 5 42000 46000
17 4 AHCAL DAC_module03.dat 62 34 2 42000 46000
17 5 AHCAL DAC_module02.dat 65 35 1 42000 46000
17 6 AHCAL DAC_module01.dat 67 35 6 46250 53000
19 1 AHCAL DAC_module07.dat 62 31 4 42000 46000
19 2 AHCAL DAC_module23.dat 60 33 0 28000 32000
12 1 PIN 47
12 5 PIN 46
12 4 TCMT DAC_tcmt1.dat 46 19 2 9500 10000
12 2 TCMT DAC_tcmt2.dat 59 33 4 14000 15500
1. end of AHC.cfg file

Logbook entry: CALICEelog/data/2006/41/12.10
12.10.2006
10:10 Marius
beam still gone
CPS is off: no beam before 12:00
we are using the time for area access and understanding the runs of last night

Logbook entry: CALICEelog/data/2006/41/12.10
12.10.2006
07:16 shift crew
gain run
300471 ahcGain +0.3V
gain calibration @ +0.3V
300472 ahcGain corrupt

Logbook entry: CALICEelog/data/2006/41/12.10
12.10.2006
07:11 shift crew
pedestal run
300470 ahcPmNoise +0.3V
physics mode pedestal @ +0.3V
50k events

Logbook entry: CALICEelog/data/2006/41/12.10
12.10.2006
06:48 shift crew
calibration runs
300464 ahcGain +0.6V
300466 ahcCmLedVcalibScan +0.6V
300468 ahcPmLedVcalibScan +0.6V
went back to +0.6V to repeat the gain calibration. The last one (300451) did open a new run file
after a few minutes; and did not stop. So do not use that run!

Logbook entry: CALICEelog/data/2006/41/12.10
CALICE eLogbook

12.10.2006 06:34 shift crew vcalib scan

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>300457</td>
<td>ahcCmLedVcalibScan +0.3V</td>
</tr>
<tr>
<td>300460</td>
<td>ahcCmLedVcalibScan +0.3V</td>
</tr>
<tr>
<td>300462</td>
<td>ahcPmLedVcalibScan +0.3V</td>
</tr>
</tbody>
</table>

Runs do not stop automatically, instead a new file is opened and the run starts again. Take care: the new CMBs (=module 16-23) are not correctly tuned for physicsmode data!

Logbook entry: /CALICEelog/data/2006/41/12.10

12.10.2006 06:23 shift crew no beam

changed hcal HV to +0.3V
No beam from PS. No time estimation.

Logbook entry: /CALICEelog/data/2006/41/12.10

12.10.2006 06:05 shift crew gain run

300457 ahcGain nominal
gain calibration @ nominal voltage

Logbook entry: /CALICEelog/data/2006/41/12.10

12.10.2006 06:00 shift crew pedestal run

300457 ahcPmNoise nominal
physics mode pedestal run @ nominal voltage
50k events

Logbook entry: /CALICEelog/data/2006/41/12.10

12.10.2006 04:06 shift crew muon run

300454 beamData -m 1 -v 19 muon nominal
continued run 300453 after 1M events
still at nominal voltage
~2400 events per spill in the 10x10 cm^2 trigger
~7300 events per spill in the 100x100 cm^2 trigger
1M events

Logbook entry: /CALICEelog/data/2006/41/12.10

12.10.2006 03:52 caliceon@calichecalsc03.cern.ch (CALICE user) nominal voltage
module 2a strange current fluctuations
Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 03:43 shift crew calicana crash
calicicana did not react anymore -> rebooted and restarted copy scripts

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 03:03 Roman Poeschl Copy Script and Converter
Hi there,

the data transfer to desy has been resumed successfully.

All data between Run320744 and Run320121 have been transferred to desy this evening using the 'usual' grid transfer.

In addition all new runs taken today (>300441) have been transferred into the desy dcache.

Finally, I have relaunched the converter job on the ilc-log01 at desy. In fact there are two jobs running, one which is converting the data blocked due to the 'crisis' in the data transfer and one which is processing the 'fresh' data.

The conversion is based on the new s/w releases as announced in the s/w list. This has no practical consequence for the users who have worked already with the files converted with v04-02-xx versions of the converter.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/41/12.10
12.10.2006 02:06 shift crew muon run
300453 beamData -m 1 -v 19 muon nominal HCAL voltage
~2400 events per spill in the 10x10 cm^2 trigger
~7000 events per spill in the 100x100 cm^2 trigger
1M events
Logbook entry: /CALICEelog/data/2006/12/10
12.10.2006 01:47 shift crew gain run
300451 ahcGain +0.6V

run does not stop after 120k events!
repeated in run 300464 -> Use that run instead!

Logbook entry: /CALICEelog/data/2006/12/10
12.10.2006 01:44 shift crew pedestal run
300450 ahcPmNoise +0.6V

physicsmode pedestal with +0.6V
50k events

Logbook entry: /CALICEelog/data/2006/12/10
12.10.2006 00:11 shift crew muon run
300448 beamData -m 1 -n 0 -v 19 muon +0.6V

continued run 300447
hcal sipm voltage = nominal +0.6V
~2300 events per spill in the 10x10 cm^2 trigger
~6900 events per spill in the 100x100 cm^2 trigger
run stopped after 1M events

Logbook entry: /CALICEelog/data/2006/12/10
12.10.2006 00:00 shift crew new shift
Nanda Wattimena and Sebastian Schaetzel on shift
elog location can be "Testbeam" or "Tent", "CERN" dissappeared

Logbook entry: /CALICEelog/data/2006/11/10
11.10.2006 22:30 Marius observations: led & noise

noise:
slot 15 fe 4B / module 22 has low noise
slot 9 fe 5B / module 17 has high noise

led/cmb:
slot 9 fe 5 / module 17 has high light amplitude (~factor 2)
slot 17 fe 3 / module 10 the CMB is off
slot 19 fe 1 / module 07 the CMB is off
slot 12 fe 1 / pin1: ~80 channels in the first half are in saturation
slot 12 fe 5 / pin2: only first half of side A sees light

the hold for the led runs in physicsmode is not optimised
=> until now: monitoring points and collected vcalibscans in physicsmode are not optimal

Logbook entry: /CALICEelog/data/2006/11/10
11.10.2006 21:35 Yoshi/Nicola muon run
HCAL HV is setting as nominal+0.6V for all modules.
ECAL has low statistics: lots of events are just noise: geometrical efficiency?
Beam is off for a few minutes after 550k events. (After that, event rate increased roughly 10%).

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 21:32 Marius
300441 beamData -m 1 -n 0 -v 19 muon
debug run

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 20:16 Marius
300444 ahcPmNoise -m 1
pedestal @ nominal voltage
60K events @ nominal voltage

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 20:13 Marius
300443 beamData -m 1 -v 19 debug run

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 18:58 Marius
300442 beamData -m 1 -v 19 muon
reduced number of ped/LED configurations. 1 every 50000 events.
HCAL voltage nominal+0.6V (all but modules 1,2 at nominal)
stopped after 500K

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 18:58 Marius
300441 beamData -m 1 -n 0 -v 19 muon
muon run
too much LED data
HCAL set to nominal+0.6V for all modules but 1 and 2 which will be kept at nominal.
we had ped/led configuration turned on every 10000 events. run stopped after 200 kev

Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 18:52 Marius
300441 beamData -m 1 -n 0 -v 19 muon
muon run
Logbook entry: CALICEelog/data/2006/41/11.10
11.10.2006 18:44
Hi there,
in case you need it please note my french mobile phone number
+33-668-501628

Preferably call this before the (known) german one which is still valid.

Cheers,
Roman

Logbook entry: CALICEelog/data/2006/41/11.10
11.10.2006 18:37
Marius
physics mode holdscan

Logbook entry: CALICEelog/data/2006/41/11.10
11.10.2006 18:36
Marius
system debug run; stopped before run has finished

Logbook entry: CALICEelog/data/2006/41/11.10
11.10.2006 18:29
Dear Colleagues,
it seems that the copying works again.

DESY IT has setup a dedicated pool for us which currently comprises 500 GBytes and acts as a transition pool from which the data are stored to tape. There might be more space added during tomorrow.

At the moment the data are transferred at the usual speed between 15 and 20 MByte/s.

The problem was that our data were assigned to a default pool which is usually used for test purposes and which is shared by several groups. In August/September there was not much traffic to this pool such that our data were propagated to the pool and to tape as desired. In the last weeks however several other pools showed failures such that a lot of data of other groups ended up on 'our' pool. Some groups declared their data to be precious such that they could not be flushed to tape. All this together lead to the bottleneck we were facing during the last five days.

I will observe the data transfer this evening and tonight and push for a setup which is supposed to be failsafe at least for the next three weeks.

In addition I will test the data access this evening.

Sorry for all the inconvenience,

Roman
Logbook entry: /CALICEelog/data/2006/41/11.10

11.10.2006  14:59  CMB mapping

CMB module/stack position mapping from now on.
The mapping for the previous run period can be found at

PIN diodes belonging to stack position 1-19 are read out in slot 12 frontend 1.
PIN diodes belonging to stack position 21-29 are read out in slot 12 frontend 5.

Fixes for old CMBs:
module 4 not enough light -> increased vcalib value to start with
module 7 too much light in LED 10 -> LED width was 18ns; reduced it to 10ns
No light in module 2!

Logbook entry: /CALICEelog/data/2006/41/11.10

11.10.2006  02:02  Marius

320996 beamData -v 2 -m 1 nominal+0.3V
last point in our voltage scan.
we leave the run for the rest of the night at 0.3V

Logbook entry: /CALICEelog/data/2006/41/11.10

11.10.2006  01:53  Marius

Intercalibration scan
320996 ahcCmLedVcalibScan nominal+0.3V
320995 ahcPmLedVcalibScan nominal+0.3V
we take the two intercalibration at one voltage only since it has already been confirmed
that, as expected, the electronics intercalibration does not depend on the SiPM voltage

Logbook entry: /CALICEelog/data/2006/41/11.10

11.10.2006  01:08  Marius

voltage steps
nominal, nominal+0.6, nominal+0.9V
Logbook entry: /CALICEelog/data/2006/41/11.10
11.10.2006 01:03  Erika  
**gain runs**

- 320991 ahcGain nominal+0.9V
- 320992 ahcGain nominal+0.6V
- 320993 ahcGain nominal+0.3V

Logbook entry: /CALICEelog/data/2006/41/10.10
11.10.2006 00:31  Erika

same trigger and conditions as in previous run. SiPM voltage increased by 0.9V also for TCMC

Logbook entry: /CALICEelog/data/2006/41/10.10
11.10.2006 23:59  Erika

same trigger and conditions as in previous run. SiPM voltage increased by 0.6V also for TCMC

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 23:45  Marius  
**HoldScan result of run 320986**

hold values are on the 1 tick level equivalent to the old values except module 3 & 10: 2 respectively 3 ticks difference

remarks:
- module 1 & 2 were off due to HV problems
- PMT is not visible: reason unknown (but we see it in the later runs)
Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 23:24 Erika  muons @ nominal voltage
320988 beamData -v 2 -m 1 SiPM at nominal voltage
hold values for HCAL and TCMC adjusted according to the result of hold scan 320986
trigger on 20x20, we keep the same hold as for the 10x10 case (2 ticks are not
significant)
pedestal oscillator during spill turned OFF
module 16b, no HV. another HV channels broken.

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 22:52 Erika  hold scan result
the relative timing between the triggers in our system is unchanged.
Coincidence 10x10 and 3x3 are the first.
the single 20x20 counter comes 12.5 ns after (2 ticks of hold less than 10x10)
the 100x100 coincidence is shifted of about 75 ns (12 hold ticks less than 10x10)

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 22:43 Erika  module 1a off
we have recovered some of the HV channels, just one missing. For tonight we will run with module 1a off.

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 22:39 Erika
change voltage 20x20 trigger counter
to reduce noise on the 20x20 trigger counter reduced HV from 1600V to 1550V channel 22 CAEN power supply (cable 23).
noise reduced to 2-3 Hz.

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 18:40 Marius
gain run
320987 ahcGain forgot to set -m 1 option
stopped before official runEnd after 6 configurations

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 17:01 Erika
320986 beamHoldScan -m 1 -v 26 muon module
1 and 2 are OFF
hold scan using 10x10 cm trigger.
the 20x20 have 10Hz noise, not seen in the past, which adds as pedestal events to the beam data in spill. Better not to use this single counter in the future.

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 16:23 Erika
hold scan second try
320985 beamHoldScan -m 1 -v 2 muon module
1 and 2 are OFF

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 15:06 Marius
DAQ code modification for TCMC
the TCMC has two LED boards:
1) needs a short Tcalib pulse width ~12.5 ns (TCalibWidth = 1 tick)
2) has a pulser on board and needs longer pulse width of ~68.75 ns (TCalibWidth = 10 ticks)
Next year only the second version will be available.
To allow flexibility in the DAQ we made the following modifications:
AhcConfiguration.hh
hardcoded if: set for slot 12, fe 2
TCalibWidth = 10
else: TCalibWidth = 1

this has to be changed in case of mapping/cabling changes

Logbook entry: /CALICEelog/data/2006/41/10.10
10.10.2006 14:42 Erika
no beam
Problem with access chain:
interlock of H6A area fails often.
no time estimate

Logbook entry: /CALICEelog/data/2006/41/10.10
Hi there,

apparently someone has restarted the copy script.

I will stop it again and it should NOT be restarted until I give the green light.

Apparently there are still problems at DESY since the transfer works and doesn't work in an alternating way.

I will keep you informed.

Cheers,

Roman

---

Logbook entry: /CALICEelog/data/2006/41/10.10

10.10.2006
12:47

Erika

stop run

hold scan stopped at the 3rd configuration too high statistics. would take too long.
reduced statistics per point to 10000 events.
Beam off again due to too high radiation.

---

Logbook entry: /CALICEelog/data/2006/41/10.10

10.10.2006
12:43

Erika

new FE mapping

1. format: slot fe detectorType filename
   Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM
2. 5 0 AHCAL DAC_module04.dat 51 32 13 42400 46000
   5 1 AHCAL DAC_module05.dat 60 38 13 42200 46000
   5 2 AHCAL DAC_module06.dat 56 34 16 42000 46000
   5 3 AHCAL DAC_module08.dat 57 32 19 42000 46000
   5 4 AHCAL DAC_module09.dat 58 34 15 42000 46000
   5 5 AHCAL DAC_module10.dat 59 34 18 41800 46000
   9 1 AHCAL DAC_module13.dat 60 35 18 42000 46000
   9 2 AHCAL DAC_module14.dat 54 31 14 42000 46000
   9 4 AHCAL DAC_module15.dat 61 39 12 42200 46000
   9 5 AHCAL DAC_module17.dat 60 33 15 28000 46000
   9 7 AHCAL DAC_module18.dat 70 33 15 42000 46000
   15 3 AHCAL DAC_module21.dat 70 33 15 28000 46000
   15 4 AHCAL DAC_module22.dat 70 33 15 28000 46000
   15 7 AHCAL DAC_module19.dat 70 34 15 28000 46000
   17 0 AHCAL DAC_module16.dat 70 33 15 28000 46000
   17 1 AHCAL DAC_module20.dat 70 33 15 28000 46000
   17 3 AHCAL DAC_module10.dat 67 35 14 42000 46000
   17 4 AHCAL DAC_module03.dat 62 34 12 42000 46000
   17 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
   17 6 AHCAL DAC_module01.dat 67 35 18 46250 53000
   19 1 AHCAL DAC_module07.dat 62 31 16 42000 46000
   19 6 AHCAL DAC_module23.dat 70 33 15 28000 46000
12 1 PIN 50
12 5 PIN 50
15 0 PMT 1
12 4 TCMT DAC_tcmt1.dat 46 19 14 9500 6000
12 2 TCMT DAC_tcmt2.dat 46 19 14 15000 15000

---

Logbook entry: /CALICEelog/data/2006/41/10.10

10.10.2006
12:31

Erika

hold scan

Hold scan with the 20x20 trigger
due to HV problems 2 modules are not powered
we have chosen modules 1 and 2
HV-channel 28 broken?

-> Hardware reset of the HV power supply cured the problem.

1/2 modules becomes noisy

from 23:00 the current of module 17b starts to fluctuate. No evidence of one or more noisy SiPM in the online histos.

hold scan
start hold scan over night. beam condition very bad. ~30 ev / spill maybe useless.
==> confirmed useless: no beam over night in our area

Logbook entry: CALICEelog/data/2006/40/05.10
05.10.2006 19:48 Erika
muon run

Logbook entry: CALICEelog/data/2006/40/05.10
05.10.2006 18:30 Marius
mapping for NEW installation

Logbook entry: CALICEelog/data/2006/40/05.10
05.10.2006 17:31 Marius
pedestal run

Logbook entry: CALICEelog/data/2006/40/05.10
05.10.2006 17:29 Marius
ASIC charge injection

hold value for internal charge injection in CM: 11
hold value for internal charge injection in PM: 70
unchanged in comparion to last run period
### Logbook entry: /CALICEelog/data/2006/40/05.10

**5.10.2006 Marius**

**AHCAL DAQ runtype changes**

1.) In former time before we have used the AHC.cfg file we have used the version number to set for example the number of steps in a vcalibscan. These standard settings are not useful anymore and have been set to 0 now for the following runTypes:

<table>
<thead>
<tr>
<th>RunType</th>
<th>Old Default v</th>
<th>New Default v</th>
</tr>
</thead>
<tbody>
<tr>
<td>ahcCmLed</td>
<td>38</td>
<td>0</td>
</tr>
<tr>
<td>ahcCmLedVcalibScan</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ahcCmLedHoldScan</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>ahcPmLed</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>ahcPmLedVcalibScan</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>ahcPmLedHoldScan</td>
<td>65</td>
<td>0</td>
</tr>
</tbody>
</table>

2.) For the following runs you have now the possibility to go to a shorter number of events per acquisition. This has the advantage that during debugging you see more fasten changes in the online histograms:

- ahcPmNoise
- ahcCmLed
- ahcCmLedVcalibScan
- ahcCmLedHoldScan
- ahcPmLed
- ahcPmLedVcalibScan
- ahcPmLedHoldScan
- ahcExpert

To do so just add at runStart -v 2 e.g. runStart -t ahcPmLed -v 2

3.) ahcGain run has now 10 configuration instead of 6 to split the statistic over more vcalib settings:

- New relativ vcalib settings for the AHCAL:
  - -1000,-500,-375,-250,-125,0,125,250,375,500
- New relativ vcalib settings for the TCMT:
  - +1000,-100,-75,-50,-25,0,25,50,75,100

The total statistic of 120K has not changed, therefore each configuration has 12K events. In addition we switch the tcalib off for the first configuration (relativ vcalib ==/+1000), therefore we should get absolutely no light to the tiles and therefore we should have a true pedestal.

This last change is also valid for the AHCAL and the following runTypes (not for the TCMT):

- ahcCmLedVcalibScan
- ahcPmLedVcalibScan

### Logbook entry: /CALICEelog/data/2006/40/04.10

**4.10.2006 19:40**
Logbook entry: /CALICElog/data/2006/40/04.10
04.10.2006
19:40
new modules installed

Logbook entry: /CALICElog/data/2006/40/04.10
04.10.2006
19:39
new modules installed
03.10.2006 14:36 Marius  
**voltage drop**

Conclusion of voltage measurement:
1. 100mV drop over the cable from HV distribution to the VFE
2. 100mV drop on the VFE due to 100KOhm resistor (corrected for the 10MOhm internal multimeter resistivity)...
   measured without SiPM connected
3. a normal SiPM draws 500-800nA which means an additional voltage drop of 50-80 mV.
   A high current one up to 100 - 120 mV.... measured with SiPM connected

=> overall voltage drop between 200-300mV

03.10.2006 09:47 Erika  
**noise with new HABs**

As a result of the HAB change we have calculated:
with SiPM off a change from 2 to 0.1 noise hits / 13 modules
with SiPM at ITEP V a change from 19.5 to 10.7 noise hits / 13 modules

02.10.2006 16:37 Erika  
**HAB EXCHANGE**

All HABs of modules 1-15 exchanged with new one.
RMS drop from ~35 to ~27. All modules work again.

02.10.2006 16:33 Erika  
**HAB EXCHANGE**

All HABs of modules 1-15 exchanged with new one.
RMS drop from ~35 to ~27. All modules work again.
Logbook entry: /CALICEelog/data/2006/39/29.09

29.09.2006 14:08  Erika  short list of good runs for HCAL analysis

This list is a selection of the runs for a first HCAL analysis.
Don't forget: there are many more runs available!!!

<table>
<thead>
<tr>
<th>E [GeV]</th>
<th>run#</th>
<th>quality 1</th>
<th>quality 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>320605</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>320678  320674</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>320671  320673</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>320666  320670</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>320665  320662</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>320664  320660</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) possible high pion contamination

<table>
<thead>
<tr>
<th>E [GeV]</th>
<th>run#</th>
<th>quality 1</th>
<th>quality 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>320629  **320641</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>320625  **320638</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>320623  **320637</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>320627  **320639</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>320628  **320640</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(**) taken with 4mm lead absorber instead of 8mm as in column "quality 1"

Logbook entry: /CALICEelog/data/2006/39/29.09

29.09.2006 12:05  more test for new operation mode

Continuation of the studies of yesterday with injection resistor (Rinj) OFF
try new gain higher than in run 320728

Logbook entry: /CALICEelog/data/2006/39/29.09

29.09.2006 10:24  caliceon@calicehcalsc03.cern.ch (CALICE user)  new installation

! only the CMB for the first 10 modules are connected for the time being.
Logbook entry: /CALICEelog/data/2006/39/28.09

28.09.2006 16:30 Sven insert new run info

now with more flexibility !!

Logbook entry: /CALICEelog/data/2006/39/28.09

28.09.2006 16:07 Roman Copy script restarted

Hi,

as agreed with Marius I have tidied up a bit the copying processes on caliceana and after that restarted the copy script for the hcal runs.

Roman

Logbook entry: /CALICEelog/data/2006/39/28.09

28.09.2006 14:38 automatic pedestal run

320728 ahcPmLedVcalibScan try to compensate gain decrease due to Rinj off changing gain setting from 0.5pF to 1.1pF

Logbook entry: /CALICEelog/data/2006/39/28.09

28.09.2006 14:04 Doerte David assembling status

Cassette no. 16 is finally repaired, the upper half gets new tiles. Cassette no. 21 and 22 are ready and tested in the black tent. Cassette no. 23 will be finished tomorrow. Cassettes 17 to 20 are taken out of the DESY test beam and (will be) brought to the hall, already in the third wooden transport box. In the hall all cassettes a total of 8 ones will be put in the box to be shipped to CERN in the morning of October 2th.

A lot of tiles for cassette no. 24 had long discharge. That is why no cassette no. 24 was assembled in the moment. New spare tiles are now on the way to DESY.

this morning cassettes work in progress: 22 - 23
cassettes ready: 16, 21

Cassettes at DESY test beam: 17 - 20

Cassettes at CERN test beam: 1 - 15

Logbook entry: /CALICEelog/data/2006/39/28.09
28.09.2006 13:28
Sven

update of "insert new run info"
The MUST fields are now only "run #" and "run type"

Logbook entry: /CALICEelog/data/2006/39/28.09
28.09.2006 09:15
injection resistor off, nominal V

Logbook entry: /CALICEelog/data/2006/39/27.09
27.09.2006 17:12
checks for the new physics mode without injection resistor

Logbook entry: /CALICEelog/data/2006/39/27.09
27.09.2006 13:17

Vcalib scan studies

New long Vcalib scan, nominal V:
0<Vcalib<41000 in steps of 1000
41000<Vcalib<65500 in steps of 50
1000 (2000) events per point in Pm (Cm) mode
Logbook entry: /CALICEelog/data/2006/39/27.09
27.09.2006
10:22

CMB studies

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Voltage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>320714</td>
<td>ahcCmLedholdScan</td>
<td>+0.6 V</td>
<td>V, too low light</td>
</tr>
<tr>
<td>320715</td>
<td>ahcPmLedholdScan</td>
<td>+0.6 V</td>
<td></td>
</tr>
<tr>
<td>320716</td>
<td>ahcCmLedholdScan</td>
<td>+0.6 V</td>
<td>V, too high light</td>
</tr>
<tr>
<td>320717</td>
<td>ahcCmLedholdScan</td>
<td>+0.6 V</td>
<td>ok</td>
</tr>
<tr>
<td>320718</td>
<td>ahcPmLedholdScan</td>
<td>nominal V</td>
<td></td>
</tr>
<tr>
<td>320719</td>
<td>ahcCmLedholdScan</td>
<td>nominal V</td>
<td></td>
</tr>
</tbody>
</table>

we see all holds in Cm mode unchanged
in Pm mode max 1 tick change, but in general reproducible values

Logbook entry: /CALICEelog/data/2006/39/25.09
25.09.2006
10:52

voltage scan

Logbook entry: /CALICEelog/data/2006/39/25.09
25.09.2006
10:12

Erika
pedestal runs

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Voltage</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>320707</td>
<td>ahcPmNoise-e 50000</td>
<td>nominal V</td>
<td></td>
</tr>
<tr>
<td>320708</td>
<td>ahcPmNoise-e 50000</td>
<td>+0.3 V</td>
<td></td>
</tr>
<tr>
<td>320709</td>
<td>ahcPmNoise-e 50000</td>
<td>+0.6 V</td>
<td></td>
</tr>
<tr>
<td>320710</td>
<td>ahcPmNoise-e 50000</td>
<td>+0.9 V</td>
<td></td>
</tr>
<tr>
<td>320711</td>
<td>ahcPmNoise-e 50000</td>
<td>-0.3 V</td>
<td></td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/39/25.09
25.09.2006
10:08

Erika
new AHC.cfg file

Logbook entry: /CALICEelog/data/2006/39/28.09
28.09.2006
15:06
new AHC.cfg file:
5 0 AHCAL DAC_module04.dat 60 32 13 42000 46000
5 1 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 2 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 3 AHCAL DAC_module08.dat 66 32 19 42000 46000
5 4 AHCAL DAC_module09.dat 67 34 15 42000 46000
5 5 AHCAL DAC_module11.dat 66 34 14 42000 46000
5 6 AHCAL DAC_module12.dat 68 34 18 41800 46000
9 1 AHCAL DAC_module13.dat 69 35 18 42000 46000
9 2 AHCAL DAC_module14.dat 63 31 14 42000 46000
9 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
9 5 AHCAL DAC_module17.dat 70 34 15 42000 46000
9 7 AHCAL DAC_module18.dat 70 34 15 42000 46000
15 1 AHCAL DAC_module19.dat 70 34 15 42000 46000
15 2 AHCAL DAC_module20.dat 70 34 15 42000 46000
15 3 AHCAL DAC_module21.dat 70 34 15 42000 46000
15 4 AHCAL DAC_module22.dat 70 34 15 42000 46000
15 5 AHCAL DAC_module23.dat 70 34 15 42000 46000
15 6 AHCAL DAC_module24.dat 70 34 15 42000 46000
15 7 AHCAL DAC_module25.dat 70 34 15 42000 46000
17 0 AHCAL DAC_module16.dat 70 34 15 42000 46000
17 1 AHCAL DAC_module07.dat 62 31 16 42000 46000
17 3 AHCAL DAC_module10.dat 67 35 14 42000 46000
17 4 AHCAL DAC_module03.dat 62 34 12 42000 46000
17 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
17 6 AHCAL DAC_module01.dat 67 35 18 46250 53000
12 1 PIN 50
1. 12 2 Pin 5015 0 PMT 1
12 3 TCMT DAC_tcmt.dat 46 19 14 9500 9500
12 4 TCMT DAC_tcmt.dat 46 19 14 9500 9500
15 0 PMT
the items commented out are not connected yet

Logbook entry: /CALICEelog/data/2006/39/25.09
25.09.2006 caliceon@calichealsc03.cern.ch (CALICE user) new installation

Logbook entry: /CALICEelog/data/2006/38/18.09
18.09.2006 Sebastian Schaezelt absorber studies
repeat runs from Sep 14
2018ahcBeam -v 3 3Gevpositrons absorber run, stage position=(0,10), 25k events, ordinary orientation
events 1-20k: good beam quality, 40Hz DAQ rate
events 20k+: 2Hz DAQ rate (injection to DORIS, seems to affect test beam rate)
12 1 AHCAL DAC_module18.dat 65 32 4 42000 46000
Logbook entry: CALICEelog/data/2006/37/14.09
14.09.2006 17:39 Sebastian Schaetzel  absorber studies
2.5cm lead + 1.6cm steel 20x20cm²
in front of cassette 18
no air gap between steel and cassette

\[
\begin{align*}
&\text{\( y=20\text{cm} \)} &\text{\( \text{beam} \)} \\
&\text{\( y=0 \)} &\text{\( \text{beam} \)} \\
&\text{\( 10\text{cm} \)} &\text{\( 0 \)} &\text{\( 10\text{cm} \)}
\end{align*}
\]

<table>
<thead>
<tr>
<th>201881</th>
<th>ahcBeam-v13</th>
<th>3Gev electron</th>
<th>absorber run, stage position=(0,10), 50k events, ordinary orientation</th>
</tr>
</thead>
</table>

module 18 in Slot 12, FE1 (other modules off)
DAQ rate=50Hz
collimator top=+10
other collimators=+15
beam trigger HV channel 2=2100V, channel3=1850V

Logbook entry: CALICEelog/data/2006/37/14.09
14.09.2006 09:44 Sebastian Schaetzel  access to modify stage for flipped cassette test

Logbook entry: CALICEelog/data/2006/37/14.09
14.09.2006 09:16 Sebastian Schaetzel  stable beam conditions for last runs

Logbook entry: CALICEelog/data/2006/37/14.09
14.09.2006 09:15 Sebastian Schaetzel  undefined Stage Position (171,171)
CALICE eLogbook

during ahcBeamStageScan run 201877
this position is not in ~/online/StagePositions.dat
-> maybe because I left last line empty (don’t do this)!
but all relevant positions scanned -> ok

Logbook entry: /CALICEelog/data/2006/37/13.09
13.09.2006 18:35 Marius
short interruption due to DAQ firmware test
started again

13.09.2006 17:51 Sebastian Schaeztel
MIP calibration

13.09.2006 15:12 Marius
DAQ at DESY testbeam
This week we have updated the daq software & firmware at DESY with the version used at CERN.
On one hand we have increased the data taking rate by a factor of 3 when the beam is in good condition on the other hand we have some bad readouts, which are at the moment not understood.

Logbook entry: /CALICEelog/data/2006/37/11.09
12.09.2006 14:56 MIP calibration
11.09.2006 18:08 Sebastian Schaetzel

Logbook entry: /CALICEelog/data/2006/37/11.09

201852 ahcBeamStageScan -v 13 3Gev electron 1.96M events, stopped at position x=240, y=60

11.09.2006 09:59 Sebastian Schaetzel

bad DESY II performance over weekend
no beam for most of the time

DESY II plots are in http://www-mpy.desy.de/24h/html/desy.48h.160.html

08.09.2006 08:45: George, Yoshi

run with drift chambers only
beamfile:H6B.702 extrapolated at +15 GeV/c, target is 6mm Pb,

310070 beamData ecal run 15 GeV centered 0deg

collecting at around 12Hz rate, left running overnight unattended

this morning we found that the run contains
GARBAGE, bad luck, slow control switched off ecal 15 min after start
400k of events with ecal off, run contains only data from drift chambers

Addendum Roman 11/9/06: All the runs between 310047 and 310070 were taken at 0 degree impact angle.

08.09.2006 18:59 Marius

MIP calibration

201844 ahcBeam -v 13 3Gev electron position check x=-450 y=-497
stage calibrated

201847 ahcBeamHoldScan -v 13 3Gev electron holdScan: hold=4
Logbook entry: /CALICEelog/data/2006/36/08.09
08.09.2006 10:45 George, Yoshi
SHUT DOWN
SHUT DOWN EVERYTHING
- scintillators HV off
- drift chambers HV/LV off
- ecal off, power supply off
- ecal stage off, fans off
- daq off, crates off
- ecal moved out of the beam (40cm to the left)

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 23:59 George, Yoshi
Ecal run-garbage
runs 310066 - 67 - 68 - 69 are garbage, resolving problem with Ecal slow control

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 22:19 George, Yoshi
ECAL run
beamfile:H6B.700 extrapolated at +30 GeV/c,
target is 3mm Pb,
310065 beamData ecal run 30 GeV e?  centered 0deg
collecting at around 18Hz rate. collected 100k events.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 20:35 George, Yoshi
ECAL run
beamfile:H6B.701 extrapolated at +20 GeV/c,
target is 6mm Pb,
310064 beamData ecal run 20 GeV e?  centered 0deg
collecting at around 15Hz rate. 122k collected

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 19:43 Sebastian Schaetzel
DESY testbeam MIP calibration run
DAC.cfg:
//slot fe detectorType filename
12 1 AHCAL DAC_module18.dat
12 2 AHCAL DAC_module17.dat
12 3 AHCAL DAC_module19.dat
12 4 AHCAL DAC_module20.dat
beam rate: 18 Hz
all collimators at 15, except "upper": at 10 (wouldn't open further)

Logbook entry: CALICEelog/data/2006/36/07.09
07.09.2006 16:28 ecal run
beamfile:H6B.702 extrapolated to +15 GeV/c,
target is 6mm Pb

310063 bea...centered 0deg
collecting at about 12Hz rate. 160k collected

Logbook entry: CALICEelog/data/2006/36/07.09
07.09.2006 12:51 George, Jean-Yves ecal run
beamfile:H6B.701 extrapolated at +20 GeV/c,
target is 3mm Pb,

310060 bea...centered 0deg
collecting at around 15Hz rate. 18k collected
play with collimators, run 310061 is garbage, no improvement

310062 bea...centered 0deg
160k events collected

Logbook entry: CALICEelog/data/2006/36/07.09
07.09.2006 11:40 George, Jean-Yves ecal run
310059 bea...centered 0deg
new secondary beam at +80 GeV (beamfile H6B.021)
beamfile:H6B.700 extrapolated at +30 GeV/c,
target is 3mm Pb,
collecting at around 15-18Hz events rate.
105k events collected

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 10:45
ecal run - garbage
310057 garbage run
310058 garbage run
Ilias called, 50 GeV secondary beam is not available anymore

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 08:26
Yoshi+George+Jean-Yves
Ecal run
beam file: H6B.034, target is 6mm Pb, operated with around 35Hz events rate. This run collects 201580 events.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 08:09
Roman+Yoshi
Last night shift was successful. We could take low energy electron data which cover from 20GeV to 10GeV.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 07:30
Roman+Yoshi
ECAL run
beam file: H6B.037, target is 6mm Pb, operated with around 35Hz events rate. This run collected 150k events.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 06:33
Roman+Yoshi
ECAL run
beam file: H6B.034, target is 6mm Pb, operated with around 35Hz events rate. This run collected 125k events.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 06:25
Roman
grid-bdii.desy.de down
It seems that the grid-bdii at desy is down. Therefore the copy script stopped.
I changed the bdii host to grid01.lal.in2p3.fr by export LCG_GFAL_INFOSYS=grid01.lal.in2p3.fr:2170
in ~/cp_ecal/grid_cp.sh. Please leave it like that until further notice.

Logbook entry: /CALICEelog/data/2006/36/07.09
07.09.2006 06:25
Roman
grid-bdii.desy.de down
It seems that the grid-bdii at desy is down. Therefore the copy script stopped.
I changed the bdii host to grid01.lal.in2p3.fr by export LCG_GFAL_INFOSYS=grid01.lal.in2p3.fr:2170
in ~/cp_ecal/grid_cp.sh. Please leave it like that until further notice.

Logbook entry: /CALICEelog/data/2006/36/07.09
ECAL run

07.09.2006
05:52
Roman+Yoshi

beamfile:H6B.035, target is 6mm Pb, operated with around 55Hz events rate.
This run collected 125k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
04:58
Roman+Yoshi

beamfile:H6B.037, target is 6mm Pb, operated with around 40Hz events rate.
This run collected 125k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
03:54
Roman+Yoshi

beamfile:H6B.034, target is 6mm Pb, operated with around 35Hz events rate.
This run collected 125k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
03:09
Roman+Yoshi

We setup a 12GeV electron beamfile as H6B.037 with opening collimator.
beamfile:H6B.037, target is 6mm Pb, operated with around 40Hz events rate.
This run collected 125k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
02:36
Roman+Yoshi

beamfile:H6B.036, target is 6mm Pb, operated with around 10Hz events rate.
We found the beamfile H6B.036 is using too close collimator (maybe due to too quick setup).
This run is stopped at 10k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
02:04
Roman+Yoshi

beamfile:H6B.035, target is 6mm Pb, operated with around 55Hz events rate.
This run collected 100k events.

Logbook entry: /CALICEelog/data/2006/36/07.09

ECAL run

07.09.2006
01:32
Roman+Yoshi

beamfile:H6B.035, target is 6mm Pb, operated with around 50Hz events rate.
At the beginning of run, layer3 is completely illuminated. It seem to be gone away short

Logbook entry: /CALICEelog/data/2006/36/07.09
Beam is lost after 100k events.

Logbook entry: /CALICEeLog/data/2006/36/07.09
07.09.2006 00:31 Roman+Yoshi
ECAL run

beamfile: H6B.033, target is 3mm Pb, operated with around 80Hz events rate.
This run collected 300k events.

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 23:39 George
ecal run

beamfile H6B.032 loaded, 30 GeV e, collecting at good rate (>100Hz)
run stop at collecting 300k events

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 23:29 George
ecal run

beam is back, collecting at 150 Hz, stop run at 150k events

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 22:29 George
ecal run

Ilias called, until Thu 7 Sep 09:00 we can use the 50 GeV secondary beam
beamfile H6B.030 loaded, 45 GeV e, collecting at good rate (>100Hz)
beam lost again, "vacuum problem"
stop run, about 45k events collected

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 21:12 George
garbage
run 310042 - garbage

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 19:55 George
ecal run

beam is back, collecting at about 27 Hz
beam is lost at 9pm, we stop the run. 110k events collected.

Logbook entry: /CALICEeLog/data/2006/36/06.09
06.09.2006 18:30 George, Wenbiao  
ecal run - garbage

try at e- 45 GeV, beamfile loaded, start run 310039 & 310040 (garbage)
no luck, no beam, stop run
message at the beam monitor
" extraction problem - no time estimate - expert called"
waiting for the beam ....

Logbook entry: /CALICEelog/data/2006/36/06.09

06.09.2006 18:10 Doerte David  

assembling status

Tiles for modules up to no. 24 are at DESY.
Tiles for no. 22 are being tested.

It seems to be clear, that we get the machine for stripping the coax cable on Friday and the following week.
cassettes work in progress: 16, 21
cassettes at DESY test beam: 17 - 20
cassettes at DESY test beam: 1 - 15

Logbook entry: /CALICEelog/data/2006/36/06.09

06.09.2006 16:06 George 

ecal run

310038 beamData ecal run 40 GeV e- centered 0 deg
beam stays stable, collecting at about 20-25 Hz
stop run at 250k events, beam was stable for the last 3 hrs

Logbook entry: /CALICEelog/data/2006/36/06.09

06.09.2006 15:23 Jean-claude  

New run (310037 garbage) after problem on the +6V power on ECAL slow control
stop the slow control, restart run, stop run. Restart slow control ecal, restart run
Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  Jean-claude
14:39
Almost all the time, there is at least one very noisy layer
the layer number change by period... cable, plugging, VME board ??

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  Jean-Claude, George
14:04
ecal run
beam comes and goes ...
two periods with mean energy in ECAL different by few %, 65k collected

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  Kurt and Sasha
13:26
ecal run
unstable beam collecting at low rate (below 15 Hz),
stop run there is no beam for 1 hr, 35k events collected

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  Jean-Claude, Georges
12:24
ecal run
the beam is unstable and the rate is very low ... (about 10 Hz), 13k collected

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  jeanclaude
11:19
starting at 11H10 ... no progress
beam again unstable

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  jeanclaude georges and wenbiao
09:29
no beam until 11H !!  coffee break

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  jeanclaude
09:22
ecal run
beam is very unstable
we stop the run 310033 at about 45000 events
now waiting for beam

Logbook entry: /CALICEeLogbook/data/2006/36/06.09
06.09.2006  jeanclaude
08:58
ecal run 40 GeV
stable run 40 GeV electron, rate about 15 Hz
layer 9 very noisy
Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 08:43 jeanclaude

\[ \text{test rate at 40} \]
\[ \text{beamData ecal run 40 GeV e- } \]
\[ \text{centered just a try at 40} \]

Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 08:08 Roman+Yoshi

\[ \text{Ecal Run} \]
\[ \text{beamData ecal run 50 GeV e- } \]
\[ \text{centered beam gone after 10 Min.} \]

Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 07:52 Roman+Yoshi

\[ \text{Ecal Run} \]
\[ \text{beamData ecal run 50 GeV e- } \]
\[ \text{centered beam gone after 10 Min.} \]

We're still in the 20 Min. mode. What we're doing right now is more useful for us to get familiar with everything rather than that we take reasonable data.

Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 07:05 Roman+Yoshi

\[ \text{Beam Operation starts} \]
\[ \text{The problems with the converter persists} \]
\[ \text{We're still in the 20 Min. mode.} \]
\[ \text{For testing purposes we set up a 80 GeV Pion file} \]
\[ \text{603. Spill counter 600 Hz, DAQ 30 Hz.} \]

Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 06:08 Yoshi + Roman

\[ \text{On rates ....} \]
\[ \text{The spill counter rate indicates ~200 Hz rate at} \]
\[ \text{45 GeV e-. With this we cannot work, the more the beam goes away every 20 Min.} \]
\[ \text{yoshi and roman} \]

Logbook entry: /CALICEelog/data/2006/36/06.09
06.09.2006 05:37 Yoshi + Roman

\[ \text{We have beam but ...} \]
\[ \text{Ok, we were a bit stupid by thinking that we get no beam since the 'Beam On\ Procedure in the access panel in CESAR indicated 'all safety chains unsafe'. After rethinking and checking the rates we see that we get beam.} \]
\[ \text{but ...} \]
\[ \text{Due to the persisting overheating problem of the 'Wobbling T4 Bend 2' beam lasts only for 20 Minutes and then it disappears for 10 Minutes. It will stay like this until an expert has fixed it. We try to make as much use as possible of the situation but of course can take not many physics data.} \]
\[ \text{Yoshi and Roman} \]
\[ \text{BTW: Just to prevent other people from doing the same mistake. Click 'Beam On' in the Access Control Panel *only* after an access!!!!} \]
\[ \text{On the other hand the log messages in this panel are completely misleading!!!!} \]
Logbook entry: CALICEelog/data/2006/36/06.09
06.09.2006 04:56 Roman + Yoshi Still no data taking
Beam was declared stable for a few minutes but operation suffered from an overheating converter connected to the T4 target.
We got aware of the problem since the 'Beam On' procedure failed.
Waiting for further instructions from control room.
Yoshi + Roman

Logbook entry: CALICEelog/data/2006/36/06.09
06.09.2006 01:56 Roman Steady Beam losses
SPS suffers from 'heavy beam losses'.
Reason unknown (Is it me?)
No time estimate.
Roman

Logbook entry: CALICEelog/data/2006/36/05.09
05.09.2006 22:24 Roman New Beamfile H6B.020
Hi there,
Earlier this evening, Ilias has provided us with a new beamfile.
It delivers a secondary beam with 120 GeV Pions which can be extrapolated down to 40 GeV electrons (at most). This is not exactly what we want.
We take what we get for tonight and renegotiate the issue tomorrow.
Cheers,
Roman

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 16:26 Roman emcNoise run
emcNoise running 310026 emcNoise running overnight, about 8.5M collected

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 16:25 Roman NO BEAM
No beam from Mon 4 Sep 08:00 to Tue 5 Sept 24:00

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 13:50 Marius DAQ setup change for ECAL standalone run
-include in GUI the -n option to limit the number of events per run
-include ECAL crate readout again
-new AHC.cfg without any specified module to reduce the readout filename: AHC_CERN_040906_300441_320707.cfg
-using ECAL standalone Run numbers: 31*****

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 10:16 Roman Copy scripts restarted
Hi there,
during the phone meeting I have restarted the copy scripts.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 07:52 Jaroslav, Kurt No data acces
At about 7:30 we lost the communication to our data mounted on /srv/calice/data00/,, due to this DAQ and TestBeamControl GUI stopped running, no new data recorded

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 07:06 Jaroslav, Kurt Pions 80 GeV
320706 beamData -d -m 1 -v 26 80 GeV pion 0 80k events
Back to nominal HV: CERN_standart.txt
120 Hz @ 7.2k/spill (1.7k/spill 100x100)
file: 099
absorber: 8mm lead
target: air
cerenkov: 0.034bar

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 06:26 Jaroslav, Kurt Pions 30 GeV
320705 beamData -d -m 1 -v 26 30 GeV pion 0 468k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
119 Hz @ 5.4k/spill (0.8k/spill 100x100)
file: 098
absorber: 8mm lead
target: air
cerenkov: 0.32bar

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 05:18 Jaroslav, Kurt Pions 30 GeV
320704 beamData -d -m 1 -v 26 30 GeV pion 0 232k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
119 Hz @ 5.4k/spill (0.8k/spill 100x100)
file: 098
absorber: 8mm lead
target: air
cerenkov: 0.32bar

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 04:42 Jaroslav Data copy script
Since last crash (@ 2am) of caliceana the data copy script had not run.
At 4:22 I started script manually from dir caliceana:/home/caliceon/cp_hcal/ as ./cp_hcal.pl
Unfortunately I have forgot the script to be nohupped.
Therefore I have been adding a script output from the terminal to nohup.out by hand.
It is valid from run #320696 to .....

Logbook entry: /CALICEelog/data/2006/36/04.09
04.09.2006 04:03 Jaroslav, Kurt Pions 40 GeV
From Cherenkov OFF plot seems to be pions about only 60% of events ->
increased number of ev to 500k

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 03:39 Jaroslav, Kurt
LED calibration
No beam => do LED calibration
320700 ahcGain -m 1
320701 ahcCmLedVcalibScan -m 1
320702 ahcFmLedVcalibScan -m 1

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 03:29 Jaroslav, Kurt
No beam
Vacuum problem with extraction septum

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 03:25 Jaroslav, Kurt
Pions 40 GeV
320699 beamData -d -m 1 -v 26 -40 GeV pion 0 0 10k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
115 Hz @ 7k/spill (7k/spill 100x100)
file: 096
absorber: 8mm lead
target: air
cerenkov: 0.19 bar
stopped after 10k events, no beam

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 02:38 Jaroslav, Kurt
Pions 50 GeV
320698 beamData -d -m 1 -v 26 -50 GeV pion 0 0 300k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
115 Hz @ 5.4k/spill (1.0k/spill 100x100)
file: 095
absorber: 8mm lead
target: air
cerenkov: 0.11 bar

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 02:10 Jaroslav, Kurt
caliceana crashed
a complete freeze
no ctrl-alt-del
we did hard reset

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 01:48 Jaroslav, Kurt
Pions 60 GeV
320697 beamData -d -m 1 -v 26 -60 GeV pion 0 0 305k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
115 Hz @ 5.7k/spill (1.2k/spill 100x100)
file: 097
absorber: 8mm lead
target: air
 cerenkov: 0.076bar

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 01:23 shift crew  Pions 80 GeV
32069 beamData -d -m 1 -v 26 -80 GeV pion  140k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
120 Hz @ 8.3k/spill (2k/spill 100x100)
file: 099
absorber: 8mm lead
target: air
cerenkov: 0.04bar

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 01:16 shift crew  No beam
No beam from CPS

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 01:06 Roman  Copy scripts restarted
Hi there,
apparently caliceana has crashed again this evening.
I have restarted the copy scripts.
Happy Nightshift,
Roman

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 00:48 shift crew  Pions 80 GeV
32069 beamData -d -m 1 -v 26 -80 GeV pion  200k events
Run with reduced HV (HCAL) = Vnominal - 0.3V
120 Hz @ 8.5k/spill
file: 099
absorber: 8mm lead
target: air
cerenkov: 0.04bar

Logbook entry: CALICEelog/data/2006/36/04.09
04.09.2006 00:00 shift crew  new shift crew
Jaroslav Zalesak and Kurt Francis

Logbook entry: CALICEelog/data/2006/35/03.09
03.09.2006 23:24 Hendrik  Pions 80 GeV
32069 beamData -d -m 1 -v 26 -80 GeV pion  605k events
120 Hz @ 8.5k/spill

Logbook entry: CALICEelog/data/2006/35/03.09
03.09.2006 22:31 Hendrik  Beam break
And another break; only 8 min; run not stopped.
And another break; 5 min; no fun at all

Logbook entry: CALICEelog/data/2006/35/03.09
03.09.2006
21:59
Hendrik

Pions 60 GeV

```
320693 beamData -d -m 1 -v 26 -60 GeV pion | 0 | 480k events
120 Hz @ 10k/spill
some breaks so some more pedestals
```

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
21:00
Hendrik

High currents in Module 7a

High currents seen in Module 7a for several short times of 1-2 s. Currents increase by 20 mA and decrease again. Happens ~2 times per hour.

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
20:48
Hendrik

vacuum fault

No beam, vacuum fault, expert arriving
Let run 320692 continue stoped after a while. Break of 1h

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
19:56
Hendrik

Pions 60 GeV

```
320692 beamData -d -m 1 -v 26 -60 GeV pion | 0 | 200k events
120 Hz @ 10k/spill
More pedestals due to beam loss
```

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
18:46
Hendrik

Pions 50 GeV

```
320691 beamData -d -m 1 -v 26 -50 GeV pion | 0 | 560k events
130 Hz @ 13k/spill
```

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
17:43
Hendrik

Calibration Runs

```
320682 ahcGain -m 1 0 0
320683 ahcCmLedVcalibScan -m 1 0 0
320684 ahcPmLedVcalibScan -m 1 0 0
320685 ahcCmLedVcalibScan -m 1 0 0
320686 ahcPmLedVcalibScan -m 1 0 0
320687 ahcCmLedVcalibScan -m 1 0 0
320688 ahcPmLedVcalibScan -m 1 0 0
320689 ahcGain -m 1 0 0
320690 ahcGain -m 1 0 0
```

For Nanda;-) Have fun in analysing.

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006
17:40
Hendrik

Vacuum problems

Problem with vacuum ZS time estimation 45 min

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 17:29 Hendrik  Pions 50 GeV

320680 beamData -d -m 1 -v 26 -50 GeV pion 40k events
130 Hz @ 13k/spill

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 16:12 Hendrik  pions 40 GeV

320680 beamData -d -m 1 -v 26 -40 GeV pion 600k events
130 Hz @ 13k/spill
small fraction of el tagged with cherenkov (as expected)

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 16:09 Hendrik  new shift

new shift crew: Hendrik, Sebastian, Wenbiao

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 14:57 Marius  30 GeV pion

electron program finished
continue with hadron program:

320679 beamData -m 1 -v 26 -30 GeV pion
file: 098
absorber: 8mm lead
target: air
cerenkov: 0.33bar
10x10 coincidence: 8K /spill
100x100 coincidence: 1K /spill
DAQ rate: 120Hz
stopped after 525K

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 10:33 Marius  10 GeV electron cont.

320678 beamData -m 1 -v 26 -10 GeV electron
file: 034
target: 6mm lead
cerenkov: 3bar
10x10 coincidence: 460 /spill
100x100 coincidence: 340 /spill
DAQ rate: 35Hz
stopped after 500K

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 10:07 Marius  no beam; LED calibration

no beam
stopped run 320674 after 15K of beam events
=> do LED calibration

320675 ahcCmLedVcalibScan -m 1
320676 ahcPmLedVcalibScan -m 1
320677 ahcGain -m 1

Logbook entry: /CALICEelog/data/2006/35/03.09

03.09.2006 09:37 Marius  10 GeV electrons
320674 beamData -m 1 -v 26 -10 GeV electron
file: 034
change target to 6mm lead
cerenkov: 3bar increasing from 1.35 bar during the first minutes of datataking
10x10 coincidence: 460 /spill
100x100 coincidence: 340 /spill
DAQ rate: 35Hz

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 09:00 Marius
copy scripts restarted

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 08:44 Marius
restart electron program
320674 beamData -m 1 -v 26 -15 GeV electron
file: 035
10x10 coincidence: 800 /spill
100x100 coincidence: 400 /spill
DAQ rate: 50Hz
online monitor: change in HCAL energy
maybe related due to problems with magnet BEND2
=> run stopped after 29K
restart run:
320674 beamData -m 1 -v 26 -15 GeV electron
file: 035
same conditions like at run 320672

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 08:43 Marius
new shift 8:00-16:00
new shift 8:00-16:00: Erika, P.Mikes, Marius

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 08:42 Marius
recovered from power glitch
recovered from power glitch:
- Sebastian has turned PS in area on
- DAQ and SC computers has started
- SiPM currents fine

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 07:25 shift crew
power restored by expert
failure in PS 48

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 06:00 shift crew
keyed access to switch off HCAL
also flat band cables removed from HV power distribution boxes

Logbook entry: /CALICEelog/data/2006/35/03.09
03.09.2006 03:33 shift crew
power glitch in barracks
all computers off, called machine control room, they call expert
The detector area is still fully powered but we have no control over
the SiPM HV. Decided to leave HV on because never lost DAC settings before.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Crew</th>
<th>Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>03.09.2006</td>
<td>01:17</td>
<td>shift crew</td>
<td>new run: electrons 15 GeV</td>
<td>beamData -m 1 -v 166B.035 15 GeV 10x10 cm2 trigger stopped by power glitch after 370k events</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>absorber: air secondary target: 3mm lead Cherenkov pressure: 1.35 bar trigger counts/spill: 800(10) DAQ rate: 50 Hz</td>
</tr>
<tr>
<td>03.09.2006</td>
<td>00:36</td>
<td>shift crew</td>
<td>new run: electrons 20 GeV</td>
<td>beamData -m 1 -v 26 H6B.033 20 GeV 10x10 cm2 trigger 140k events</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>absorber: air secondary target: 3mm lead Cherenkov pressure: 0.77 bar trigger counts/spill: 1800 DAQ rate: 80 Hz</td>
</tr>
<tr>
<td>03.09.2006</td>
<td>00:28</td>
<td>shift crew</td>
<td>HCAL calibration run</td>
<td></td>
</tr>
<tr>
<td>03.09.2006</td>
<td>00:05</td>
<td>Hendrik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03.09.2006</td>
<td>00:03</td>
<td>Hendrik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03.09.2006</td>
<td>00:00</td>
<td>shift crew</td>
<td>new shift crew</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Jaroslav Zalesak and Sebastian Schaetzel</td>
<td></td>
</tr>
<tr>
<td>02.09.2006</td>
<td>23:43</td>
<td>Hendrik</td>
<td>beam problem</td>
<td>Problem with extraction setup; expert working; no time estimate</td>
</tr>
<tr>
<td>02.09.2006</td>
<td>22:08</td>
<td>Hendrik</td>
<td>electron 20 GeV</td>
<td></td>
</tr>
</tbody>
</table>
HCA energy drop at approx 2500s from start. Recovered after 200s.

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 20:35 Hendrik  electron 30 GeV
320664 beamData -m1 -v26 -t -30 GeV electron 0 0 605k events
sometimes no connection to collimators (blue text) no settings lost so far
120Hz@ 5k/spill

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 19:44 Hendrik  electron 40 GeV
320664 beamData -m1 -v26 -t -40 GeV electron 0 0 170k events

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 19:32 Hendrik  Gain Run
No beam for 5 min
320664 ahcGain -m 1 -t 0 0

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 18:55 Hendrik  electron 40 GeV
320664 beamData -m1 -v26 -t -40 GeV electron 0 0 240k events

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 18:44 Hendrik  Gain Run
320664 ahcGain -m 1 -t 0 0

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 17:29 Hendrik  electron 45 GeV
110Hz@ 23k/spill
pedestal slot 9 channel 1033 has moved -80 channels
Not the only one in this region but the highest, some are increased some decreased
pedestal RMS is also increased to 1000 (since long?)
TCMT pedestals in last chip still below 0.

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 16:20 Hendrik  Cherenkov counter tests
Cherenkov counter tests
320654 beamData -m1 -v26 -t -30 GeV electron 0 0 pressure set to 0.33, read 0.3335
320655 beamData -m1 -v26 -t -30 GeV electron 0 0 pressure set to 0.31, read 0.3154
320656 beamData -m1 -v26 -t -30 GeV electron 0 0 pressure set to 0.35, read 0.3454
320657 beamData -m1 -v26 -t -30 GeV electron 0 0 pressure set to 0.37, read 0.3634
320658 beamData -m1 -v26 -t -30 GeV electron 0 0 pressure set to 0.39, read 0.3811
ok, pressure can be read to a precision of 0.005 not more
run ratio e/pi
320654  2.00
320655  1.75
320656  2.36
320657  2.79
320659  3.18
ignore Cherenkov for electron beam, because its efficiency for electron tagging at high E
is low.

Logbook entry: /CALICEelog\data/2006/35/02.09
02.09.2006 15:52 Marius
changes in the TCMT DAC file
Kurt has implemented for some channels new DAC settings.
New file: DAC_tcmt_020906.dat

Logbook entry: /CALICEelog\data/2006/35/02.09
02.09.2006 15:29 Marius
GUI/DAQ update
Since one of the biggest problem during shifts was the failing communication to the CERN database
to get the beam device settings, we have implemented an additional button in the GUI:

Enable CERN db readout
This button is by default activated which means that the beam device settings are requested by the DAQ.
The procedure is the following:
The following can happen at the "run Start" and at the "run End" as well, because for both a request to the CERN db is sent.
If you see in the logfile output in the bottom right corner that the DAQ is stucked during the execution of the command getNewBeamData (stucked means no new output line for 1.5 minutes), you have to:
- klick on "DAQ ShutDown"
- klick on "PANIC"
- close the GUI
- start it again from the online directory by typing TestBeamControl.pl
- try to start your run again with the button enable!!!
If the DAQ is stucked again, follow the same commands and try the next run start without the CERN db readout (disable the button). If this time the run starts without problems, make it clear in both logbooks that the CERN db informations are missing!
If it does not help, please call an expert!
Please try at the next "run start" the CERN db readout again!
Thanks for reporting this problem!

Logbook entry: /CALICEelog\data/2006/35/02.09
02.09.2006 15:15 Marius
TDC0 warnings
Paul called us:
It is not at all an error! It is only a warning, which means that the TDC buffer was full before the CRC buffer (2000 events) has been filled. In this case the DAQ starts the readout.
Therefore only the average readout rate is effected, but we do not loose any data.
I had a look through the logfiles and it seems to me that this warning has appeared in the last 24h more frequently than before, but there are also logfiles with the same warning during the ecal runs last week.
I had also a fast look to the analysis output of the online monitor, which gives the multiplicities of the chambers. For a run from yesterday in which no TDC warnings appeared I got a mean multiplicity of 2.3 and for a run from today I get a mean of 2.6. This is not significant.
Since this warning is not disturbing the data taking at all, we are continuing and we will try to have an eye on it.

Logbook entry: /CALICEelog\data/2006/35/02.09
02.09.2006 13:25 Marius
electron beam tuning
monitor shows us that it is a pion beam
stopped after 100k

try to get now electrons:

stopped after 175k

stopped after 75k

stopped after 70k

stopped after 75k

stopped after 51k

stopped after 30k

Logbook entry: CALICEelog/data/2006/35/02.09
10:51 Marius
Erika is setting up the electron files
in the meantime the DAQ is performing LED calibration
stopped after 100k
320643 ahcFmLedVcalibScan -m 1 at a certain vcalib the CMB in layer 1 stops to work
320644 ahcFmLedVcalibScan -m 1 repeat to xcheck this behaviour; happened at configuration 41
320645 ahcGain -m 1 => behaviour for CMB in layer 1 is explained: due to the higher start vcalib value for this module
the scan extends over the vcalib max of 65535 and goes therefore back to zero light

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 10:01 Marius pion 30 GeV
load file: 098
pion 30 GeV
cerenkov 0.33
target: air
absorber: 4mm lead
320641 beamData -d -m 1 -v 26 -30 GeV pion
trigger counts/spill: 10k
DAQ rate: 125 Hz
stopped after 350K

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 10:00 Marius TDC0 warnings
we get in the error log-file some warnings from the TDC0:
TDC0 almost full
key access:
- check noise from the DCs
  => all fine
- check discriminators
  => fine
- adjust the discriminator threshold for DC0 from 30mV to 60mV to equalize it to the discriminator threshold used for DC1 & DC2
- reboot of VME crate
  => next run gives still the same warnings
  => no success
  => we suspect the higher amount of observed bad readouts is correlated to this feature
  => try to get advise from Paul

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 08:47 Marius 80 GeV pion
load file: 099
pion 80 GeV
cerenkov 0.03
target: air
absorber: 4mm lead
320640 beamData -d -m 1 -v 26 -80 GeV pion
trigger counts/spill: 10k
DAQ rate: 123 Hz
stopped after 350K

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 08:15 Marius pion 60 GeV
load file: 097
pion 60 GeV
cerenkov 0.08
target: air
absorber: 4mm lead
320639 beamData -d -m 1 -v 26 -60 GeV pion tdc
report warnings: almost full
trigger counts/spill: 8.5k
DAQ rate: 122 Hz
stopped after 320K

08:06 Marius
new shift 8:00-16:00
Erika, P.Mikes, Marius

07:18 shift crew
new run: negative pions 40 GeV
320638 beamData -m 1 -v 26 H6B.096 40 GeVpi-10x10 cm2 trigger 300k events
absorber: 4mm lead
secondary target: none (air)
Cherenkov pressure: 0.1896 bar
trigger counts/spill: 10k
DAQ rate: 125 Hz

06:30 shift crew
new run: negative pions 50 GeV
320637 beamData -m 1 -v 26 H6B.095 50 GeVpi-10x10 cm2 trigger 300k events
absorber: 4mm lead
secondary target: none (air)
Cherenkov pressure: 0.1178 bar
trigger counts/spill: 10k
DAQ rate: 125 Hz

05:55 shift crew
beam recovered, negative pions 30 GeV
320636 beamData -m 1 -v 26 H6B.098 30 GeVpi-10x10 cm2 trigger 140k events
absorber: 8mm lead
secondary target: none (air)
Cherenkov pressure: 0.32 bar (0.30 for first 70k events of run)
trigger counts/spill: 5300
DAQ rate: 110 Hz

03:02 shift crew
beam recovery delayed further
no beam for at least one more hour

02:08 shift crew
beam recovery delayed
new message from machine crew:
beam dump kicker problem, called expert,
o no time estimate

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
HCAL calibration runs
01:41
320630 ahcGain
320631 ahcCmLedVcalibScan
320632 ahcFmLedVcalibScan
320633 ahcCmNoise 10k events
320634 ahcFmNoise 10k events

After run 320634, all CMBs answer to the "CHECK" button in the SlowControl panel.

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
beam lost
01:40
injection kicker problems
expect beam back in 30 min

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
converter restarted
01:25
Roman has restarted the converter

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
converter stopped on ilc-log01.desy.de
00:56
informed Roman by e-mail

end of ilc-log01.desy.de:/scratch/conv_cern/nowup.out:
Runnumber is 320623
CrcVlinkEventDataReader::ProcessMyDataType> fe number from CrcVlinkFeData does not agree with the expectation (record corrupt) for crate=172 slot=12 component=8 FE=2 in event 2952
CrcVlinkEventDataReader::ProcessMyDataType> fe number from CrcVlinkFeData does not agree with the expectation (record corrupt) for crate=172 slot=12 component=8 FE=2 in event 12673
CrcVlinkEventDataReader::ProcessMyDataType> fe number from CrcVlinkFeData does not agree with the expectation (record corrupt) for crate=172 slot=12 component=8 FE=2 in event 33659
Return status = 256
Something weird during creation of temporary file has happened
Conversion stopped at Fri Sep 1 21:35:37 2006

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
new run: negative pions 30 GeV
00:42
320629 beamData -m 1 -v 26 H6B.098 30 GeV pi-10x10 cm2 trigger 360k events
absorber: 8mm lead
secondary target: none (air)
Cherenkov pressure: 0.32 bar
trigger counts/spill: 6000
DAQ rate: 115 Hz
magnet QUAD11 is flaky: have to reset currents frequently

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
zero spikes in middle drift chamber
00:20
see printout of online histograms, page 18

The postscript file is semi-corrupt; e.g., not possible to save individual pages.

Where do these spikes come from?

Logbook entry: /CALICEelog/data/2006/35/02.09
02.09.2006 shift crew
00:00 Jaroslav Zalesak and Sebastian Schaetzel

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 23:34 Hendrik 80 GeV Pions
320628 BeamData -m -v26 - b -t -80 GeV Pions 0 510k events
file F049: Absorber Air, Target 8mm lead
120 Hz @ 13k/spill

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 23:21 Gain run
320627 ahcGain -m - b -t

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 21:58 Hendrik 60 GeV Pions
320626 BeamData -m -v26 - b -t -60 GeV Pions 0 600k events
file F097: secondary beam with absorber=8mm lead, Target=air
100 Hz @ 10k/spill
TCMT: about 30 bad readouts

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 20:43 Hendrik 40 GeVPions
320625 BeamData -m -v26 - b -t -40 GeVPions 0 575k events
file F096: secondary beam with absorber=8mm lead, Target=air
120 Hz @ 8k/spill
8 HCAL pedestals have moved significantly (+50 chan), recovered at data taking
TCMT:
slot 12 last chip pedestal -80 channels down
some 40 bad readouts

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 19:26 Hendrik 50 GeV Pions
320623BeamData -m -v26 -b -t -50 GeVPions 600k events
file F095 secondary beam with absorber=8mm lead, Target=air
120 Hz @ 9k/spill
8 HCAL pedestals have moved significantly (+-50 chan)
TCMT:
slot 12 last chip pedestal -80 channels down
some 20 bad readouts

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 19:04 Hendrik Beam tuning Run
320622BeamData -m -v26 -b -t -30 GeVPions tuning 1
file F098 secondary beam with absorber=4mm lead Target=air
40k events collected, 110 Hz @ 6k/spill

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 18:29 Hendrik SiPM long discharge
320621 beamData -m -v26 -b -t -80 GeVPions tuning 1
file F099 secondary beam with absorber=8mm lead Target=air
90k events collected, 120 Hz @ 14k/spill

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 16:51 Hendrik beam tuning
absorber 8mm lead
320617 beamData -m -t -b -v26 50 GeVPions tuning 0 beam tuning

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 16:39 Hendrik LEDscan
320614 ahcCmVcalibScan -m1 -b -t
320615 ahcPmVcalibScan -m1 -b -t
stopped for beam tuning by Erika at configuration 30

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 13:38 Marius 6 GeV electron
CALICE eLogbook

load 6 GeV file: 023
without absorber
Cerenkov going to 3.0 bar
320610 beamData -m 1 -v 26 6 GeV electron/pion
10x10 coincidence: 8.5K
100x100 coincidence: 300
DAQ rate: 120 Hz

14:10 for 10 min no beam
14:07 beam back
stopped after 250K

move absorber 4mm lead in
open momentum collimator from +-5 to +-6
320611 beamData -m 1 -v 26 6 GeV electron/pion
10x10 coincidence: 200
100x100 coincidence: 190
DAQ rate: 20 Hz

15:10 for 5 min no beam

high current in channel 7
=> stopped after 49K events
reload DAC settings
=> no change
DAQ crashed during CERN db readout

320612 beamData -m 1 -v 26 6 GeV pion
did not start due to CERN db read error
=> no useful data
=> restart slow control processes

320613 beamData -m 1 -v 26 6 GeV pion
beam stopped at 41k

01.09.2006
Marius

20 GeV electron

load 20 GeV file: 015
without absorber
Cerenkov going to 0.74 bar
320607 beamData -m 1 -v 26 20 GeV electron/pion
10x10 coincidence: 10K
100x100 coincidence: 800
DAQ rate: 120 Hz

stopped after 30 events after reaching stable beam conditions
without absorber
Cerenkov going to 0.74 bar
320608 beamData -m 1 -v 26 20 GeV electron/pion
10x10 coincidence: 10K
100x100 coincidence: 800
DAQ rate: 120 Hz

stopped after 100K events

move absorber lead 4mm in
no collimator change; all positions collimator at +-7; all momentum collimator at +-3
cerenkov going to 0.74 bar
320609 beamData -m 1 -v 26 20 GeV pion
10x10 coincidence: 2K
100x100 coincidence: 310
DAQ rate: 80 Hz

stopped after 210K events

Logbook entry: /CALICEelog/data/2006/35/01.09

01.09.2006
Marius
20 GeV electron

loading 20 GeV file: 015
without absorber
Cerenkov going to 0.74 bar
320607 beamData -m 1 -v 26 20 GeV electron/pion
10x10 coincidence: 10K
100x100 coincidence: 800
DAQ rate: 120 Hz

stopped after 30 events after reaching stable beam conditions
without absorber
Cerenkov going to 0.74 bar
320608 beamData -m 1 -v 26 20 GeV electron/pion
10x10 coincidence: 10K
100x100 coincidence: 800
DAQ rate: 120 Hz

stopped after 100K events

move absorber lead 4mm in
no collimator change; all positions collimator at +-7; all momentum collimator at +-3
cerenkov going to 0.74 bar
320609 beamData -m 1 -v 26 20 GeV pion
10x10 coincidence: 2K
100x100 coincidence: 310
DAQ rate: 80 Hz

stopped after 210K events

Logbook entry: /CALICEelog/data/2006/35/01.09

01.09.2006
Marius

change beam energy to 6 GeV

beam tuning
-move beam diagnostic devices in: driftchambers & counters
320604 beamData -m 1 -v 26 6 to 10 GeV electron garbage beam tuning
stopped after 210K

320605 beamData -m 1 -v 26 6 GeV electron/pion
10x10 coincidence: 5K
DAQ rate: 120 Hz
stopped after 100K events

moved absorber 4mm lead in
320604 beamData -m 1 -v 26 6 GeV pion
10x10 coincidence: 100
DAQ rate: 20 Hz

open collimator to +-25
10x10 coincidence: 290
DAQ rate: 25 Hz
stopped after 50K events

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 09:44 Marius
electron run
- remove absorber 4mm lead
- remove beam diagnostic devices: driftchambers & counters
320602 beamData -m 1 -v 26 6 GeV electron

to high rate: 50K in the 10x10 coincidence
=> close C1,C10,C11,C5,C6 = +-6 from +-10
=> good rate: 5K in the 10x10 coincidence
320603 beamData -m 1 -v 26 10 GeV electron
DAQ rate = 120 Hz
stopped after 120K

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 08:38 Marius
beam tuning runs

10x10 coincidence: 850 p/spill
DAQ rate: 60Hz
- increasing cerenkov threshold from 1.35 to 2.8 bar
- reached after 62k events
- run stopped after ~65K

=> difficult to judge the quality: 50/50 electron/pion
- cerenkov stopped after 100K

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 04:30 shift crew
network problems
no outside internet connection
internal network ok (icalice01, calice00, caliceana)
4:25 beam gone, run 320598 stopped
DAQ did not start w/o network

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 02:34 shift crew
beam back, negative pions 15 GeV
320598 beamData -d -m1 -v 26 H6B.016 15 GeV pi-10x10 cm2 trigger 208k events
Secondary target: none (air)
Absorber: 8mm lead
Cherenkov counter pressure: 1.34 bar
500 trigger counts/spill
DAQ rate: 30Hz
16.8 sec CPS supercycle length
35k "pions" (Cherenkov off)
92k "electrons" (Cherenkov on)

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 shift crew
02:22
320597 ahcGain

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 shift crew
01:55
HCAL calibration runs
320592 ahcGain
320593 ahcCmNoise 10k events
320594 ahcCmLedVcalibScan
320595 ahcFmLedVcalibScan
320596 ahcFmNoise 10k events
After run 320596, all CMBs are still answering to the "CHECK" button on the SlowControl panel.

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 shift crew
01:31
HCAL calibration runs
320587 ahcGain
320588 ahcCmNoise 10k events
320589 ahcCmLedVcalibScan
320590 ahcFmLedVcalibScan
320591 ahcFmNoise 10k events

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 shift crew
01:28
beam lost
message from machine crew:
North area power supply fault
Expert called, no beam for 30 min

Logbook entry: /CALICEelog/data/2006/35/01.09
01.09.2006 shift crew
00:00
new shift crew
Jaroslav Zalesak and Sebastian Schaezel on shift

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006
23:53
Absorber 8mm lead
320586 beamData -m1 -d -15 GeV pions 180k events
Cherenkov counter at 1.33 bar
100Hz @ 15kev/spill
approx. 30k pion events (Cherenkov off)
approx. 80k electron events (Cherenkov on)

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

Absorber Air
320587 beamData -m1 -d -15 GeV pion/electron mixture
Cherenkov counter at 1.33 bar
100Hz @ 15kev/spill

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

Absorber 8mm lead
320583 beamData -m1 -d -20 GeV pion/electron mixture
Cherenkov counter pressure changed during run in hope to optimize e/\pi separation
wrong direction try 0.7

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

Absorber 8mm lead
320582 beamData -m1 -d -20 GeV pion/electron mixture
Cherenkov counter at 0.75 bar

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

Absorber Air
320584 beamData -m1 -d -20 GeV pion/electron mixture
Cherenkov counter at 0.75 bar
lot of bad settings, may be forgot to switch off ECAL at online-display
at 200k events restarted

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

beam setup run

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

more or less tuned beam, absorber 8 mm lead

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 hendrik
Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 20:32 hendrik
320576 beamData -m 1 -d 10 GeV pion/electron mixture

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 20:21 hendrik
320571 beamData -m1 -t -d -10 GeV magnet tuning run

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 19:45 Hendrik
320570 ahcGain -m1 -t -d TCMT vcalib back o 9500

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 19:43 Hendrik
320569 beamData -m1 -t -d -10 GeV magnet tuning run

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 19:29 Hendrik
320567 ahcCmLedVcalibScan -m1 -t -d
320568 ahcPmLedVcalibScan -m1 -t -d

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 17:50 Hendrik
320559 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11300
320560 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11400
320561 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11275
320562 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11265
320563 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11260
320564 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11255
320565 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11270 STOPED
320566 ahcGain -m1 -t -d changed vcalib settings for TCMT to 11250

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 16:58 Hendrik
320558 ahcbeam -m -tv2 -10 GeV pion beam magnet tuning run

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 16:50 Hendrik
320557 ahcGain -m1 -t -d TCMT gain run
Logbook entry: CALICEelog/data/2006/35/31.08
31.08.2006 16:39 Hendrik
Gain RUN with modified TCMT settings
TMT vcalib settings to 11750

Logbook entry: CALICEelog/data/2006/35/31.08
31.08.2006 15:50 Marius
change in Supercycle structure
SPS comment: Power limitations on main magnets of the north transfer line force us to change to a longer SC of 16.8 seconds.

Logbook entry: CALICEelog/data/2006/35/31.08
31.08.2006 14:29 Marius
beam back
10X10 coinc: ~1000
file:014
no absorber
320550 beamData -m 1 -v 26 -10 GeV electron/pion mix much more electrons than pions
10X10 coinc: ~220
100X100 coinc: ~150
file:014
absorber: 4mm lead
320551 beamData -m 1 -v 26 -10 GeV pion
=> we do not see the driftchambers
=> restart DAQ
320552 beamData -m 1 -v 26 -10 GeV pion
=> still no TDC
320553 beamData -m 1 -v 26 -10 GeV pion
=> not started/garbage
320554 beamData -m 1 -v 26 -10 GeV pion
=> include ECAL crate again in the readout
320555 beamData -m 1 -v 26 -10 GeV pion
=> still no TDC
key access: DC HV ok; but LV disabled
go back to AHCAL crate readout alone
320556 beamData -m 1 -v 26 -10 GeV pion
but: no beam

Logbook entry: CALICEelog/data/2006/35/31.08
31.08.2006 13:32 Marius
no beam for the next 1 hour
Septum PC problems

Logbook entry: CALICEelog/data/2006/35/31.08
31.08.2006 13:26 Marius
AHCAL/TCMT calibration runs
Since the HCAL SC displays works now in its complete beauty we have realised that during the ahcPmLedVcalibScan some channels are rising over their current limit and become red! This is not a problem and even expected, because we are injecting a huge amount of light. We have observed this feature for the following channels:

4A
9A
12A

If you recognise a red light for these channels during a vcalib scan, do not worry! Everything is fine!

Logbook entry: /CALICEelog/data/2006/35/31.08

31.08.2006 13:06  
Marius  
beam back.... and gone

300440 beamData -m 1 -v 2 -10 GeV trigger 20x20; file H6B.014

=> Beam disappeared after some spills again
=> no useful data

I have realised that we are still taking data with the combined run number scheme => change on all needed DAQ machines(calice00 & calice02) to cernAhcalJul06, which means that all the AHCAL/TCMT stand alone runs will start with 32****
sorry my mistake

Logbook entry: /CALICEelog/data/2006/35/31.08

31.08.2006 10:11  
Marius  
no beam from SPS

we are still waiting for the beam!
we are ready to start beam tuning:
- CMB fuses exchanged & still working
- led calibration done
- ECAL is beside the beam & out of the DAQ readout

but SPS comment indicates problems:
Power converter problem in the North
11:52 Problems with beam dump & septa

Logbook entry: /CALICEelog/data/2006/35/31.08

31.08.2006 08:12  
Marius  
AHCAL/TCMT LED calibration

300426 ahcCmLedVcalibScan -m 1
300427 ahcPmLedVcalibScan -m 1
300428 ahcGain -m 1

=> three layers without CMB power module: 1,8,10
SLOT/FE: 5/0, 15/5, 15/1
layer: 1, 8, 14

=> get access to check cable connections: everything fine
300428 ahcGain -m 1 CMB in layer 1 seems to work again
300429 ahcPmLedVcalibScan -m 1 stopped due to decision to get key access to replace fuses

Fuse replacement for the fuses for CMB in layer 8 & 14: try now the new 3A

300430 ahcDacScan
300431 ahcCmLedVcalibScan -m 1
300432 ahcPmLedVcalibScan -m 1
300433 ahcGain -m 1

=> it looks like that the PM vcalib setting for module 1 (slot 5/ fe0) is not optimised anymore

300434 ahcGain -m 1 waiting for the beam
300435 ahcFmNoise -e 50000 -m 1 waiting for the beam
300436 ahcCmNoise -e 50000 -m 1 waiting for the beam
300437 ahcGain -m 1 waiting for the beam
300438 ahcCmLedVcalibScan -m 1 waiting for the beam
Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 08:12 Marius
new shift 8:00 - 16:00
Erika, L. Morin, Marius

Logbook entry: /CALICEelog/data/2006/35/31.08
31.08.2006 08:08 Marius
getting ready for the beam
new AHC.cfg file after tail catcher tuning
Kurt has provided us with new vcalib settings for the tail catcher frontend
new AHC.cfg: AHC_CERN_310806_300426_320545.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

5. 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
6. 1 AHCAL DAC_module04.dat 60 32 13 42000 46000
7. 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
8. 3 AHCAL DAC_module03.dat 62 34 12 42000 46000
9. 4 AHCAL DAC_module05.dat 68 38 13 42000 46000
10. 5 AHCAL DAC_module06.dat 64 34 16 42000 46000
11. 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
12. 1 AHCAL DAC_module09.dat 67 34 15 42000 46000
13. 2 AHCAL DAC_module11.dat 66 34 14 42000 46000
14. 3 AHCAL DAC_module13.dat 69 35 18 42000 46000
15. 4 AHCAL DAC_module12.dat 69 35 15 42000 46000
16. 5 AHCAL DAC_module14.dat 63 31 14 42000 46000
17. 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
18. 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
19. 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
20. 0 PIN 50
21. 5 PMT 1
22. 2 TCMT DAC_tcmt.dat 46 19 14 9500 9500

1. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/35/30.08
30.08.2006 18:26 Kurt Francis
TCMT LED calibration
use configfile: AHC_CERN_300806_300420_320545.cfg

1. AHC.cfg
2.
3. in this file you have to specify which
4. configuration file should be used for which frontend
5.
6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

7.
8.
12 2 TCMT DAC_tcmT.dat 46 19 14 9500 9500
1. end of AHC.cfg file

| 300429 | ahcGain | TCMT          |
| 300428 | ahcGain | TCMT          |
| 300427 | ahcGain | TCMT          |
| 300426 | ahcGain | TCMT          |
| 300425 | ahcGain | TCMT          |

DAQ getting ready for AHCAL/TCMT run

Logbook entry: /CALICEelog/data/2006/35/30.08
30.08.2006 16:42 Marius

DAQ changes for the AHCAL/TCMT run:
- The DAQ does not read anymore the ECAL crate & the stage position of the ECAL movable table.
- The GUI has no ECAL safety run button anymore because the ECAL will be off.
- We still use the socket transfer from the ahcal daq PC (calice02) to the main daq PC (calice00)

=> GUI has to be started from the online directory on the calice00. It will open the socket on the calice02 but not anymore on the ecal daq (calice01)

cd online
TestBeamControl.pl

or click on the icon on the desktop

Logbook entry: /CALICEelog/data/2006/35/30.08
30.08.2006 14:11 Marius

300419 garbage-demo run

Logbook entry: /CALICEelog/data/2006/35/30.08
30.08.2006 10:36

copy script restarted

Dear Colleagues,

I have restarted the copy scripts on caliceana.

I will work on a more robust recovery procedure to restart the scripts after a crash of caliceana.

Until further notice call me in case the scripts need to be restarted.

+49-170-6214905 (mobile) or +33-164-46-8469 (office)

Cheers,

Roman
30.08.2006
08:56
Marius

electronic check runs

check the ASICs:

<table>
<thead>
<tr>
<th>Run</th>
<th>Command</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>300407</td>
<td>ahcCmAsicHoldScan</td>
<td>stopped after 170 configuration</td>
</tr>
<tr>
<td>300408</td>
<td>ahcCmAsicVcalibScan</td>
<td></td>
</tr>
<tr>
<td>300409</td>
<td>ahcFmAsicHoldScan</td>
<td></td>
</tr>
<tr>
<td>300410</td>
<td>ahcFmAsicVcalibScan</td>
<td></td>
</tr>
</tbody>
</table>

and Tailcatcher dedicated led runs

<table>
<thead>
<tr>
<th>Run</th>
<th>Command</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>300411</td>
<td>ahcCmLedVcalibScan -v 2</td>
<td>vcalib start at 10000</td>
</tr>
<tr>
<td>300411</td>
<td>ahcFmLedVcalibScan -v 2</td>
<td>vcalib start at 10000</td>
</tr>
</tbody>
</table>

from here on we decided to read out the tailcatcher alone (no ECAL, no AHCAL) but we are using the combined runnumber space

use new AHC.cfg file for the following runs: AHC_CERN_300806_300413_320545.cfg

1. AHC.cfg
2. in this file you have to specify which configuration file should be used for which frontend
3. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM
4.
5.
6.
7.
8.
9.
10.
11.
12.2 TCMT DAC_tcmt.dat 46 19 14 11000 11000
1. end of AHC.cfg file

<table>
<thead>
<tr>
<th>Run</th>
<th>Command</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>300412</td>
<td>ahcCmLedVcalibScan -v 2</td>
<td>vcalib start at 9000</td>
</tr>
<tr>
<td>300413</td>
<td>ahcFmLedVcalibScan -v 2</td>
<td>vcalib start at 9000</td>
</tr>
<tr>
<td>300414</td>
<td>ahcCmLedVcalibScan -v 2</td>
<td>vcalib start at 11000</td>
</tr>
<tr>
<td>300415</td>
<td>ahcFmLedVcalibScan -v 2</td>
<td>vcalib start at 11000</td>
</tr>
<tr>
<td>300416</td>
<td>ahcFmLedVcalibScan -v 1</td>
<td>vcalib start at 11000</td>
</tr>
<tr>
<td>300417</td>
<td>ahcFmLedVcalibScan -v 1</td>
<td>vcalib start at 11000</td>
</tr>
<tr>
<td>300418</td>
<td>ahcCmLedVcalibScan -v 1</td>
<td>vcalib start at 11000</td>
</tr>
</tbody>
</table>

back to standard AHC.cfg: AHC_CERN_300806_300419_320545.cfg

1. AHC.cfg
2. in this file you have to specify which configuration file should be used for which frontend
3. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM
4.
5.
6.
7.
8.
9.
10.
11.
12.2 TCMT DAC_tcmt.dat 46 19 14 11000 11000
1. end of AHC.cfg file

5 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
5 1 AHCAL DAC_module04.dat 60 32 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 3 AHCAL DAC_module03.dat 62 34 12 42000 46000
5 4 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 5 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
9 1 AHCAL DAC_module09.dat 67 34 15 42000 46000
9 2 AHCAL DAC_module11.dat 66 34 14 42000 46000
9 4 AHCAL DAC_module13.dat 69 35 18 42000 46000
9 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
9 7 AHCAL DAC_module14.dat 63 31 14 42000 46000
15 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
15 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
15 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
15 3 PIN 50
15 0 PMT 1
12.2 TCMT DAC_tcmt.dat 46 19 14 10000 9500
1. end of AHC.cfg file
30.08.2006 08:12  shift crew
ECAL safety run

30.08.2006 07:37  shift crew
coherent noise run at high amplitude (LED)
300406 shell: runStart -t ahcPmLed -e 30000
Vcalib increased to 50000 for all modules except module 1 which has 57000

30.08.2006 07:37  shift crew
switched ECAL off for special HCAL runs

30.08.2006 07:17  shift crew
ECAL at zero degrees

shift summary
Electron runs:
<table>
<thead>
<tr>
<th>energy (GeV)</th>
<th>events</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>90k</td>
</tr>
<tr>
<td>15</td>
<td>50k</td>
</tr>
<tr>
<td>20</td>
<td>60k</td>
</tr>
<tr>
<td>45</td>
<td>140k</td>
</tr>
</tbody>
</table>

Pion runs:
<table>
<thead>
<tr>
<th>energy (GeV)</th>
<th>events</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>160k</td>
</tr>
</tbody>
</table>

HCAL calibration:
3x pedestal CM
3x single-pixel
3x CM light scan
3x pedestal PM
3x PM light scan

other:
calieana crash: copy script hanging

30.08.2006 06:29  shift crew
online histogram and data transfer machine crashed (calieana)
a complete freeze
ping possible; no ssh; no changing to console; no ctrl-alt-bcksp;
no ctrl-alt-del
we did hard reset

online histograms restarted
copy script:
found ~caliceon/cp_comb.pl
script was interrupted while processing run 300386
deleted run 300386 with grid tool according to Roman's description below
restarted copy script
copy script complains that run 300386 is already there?!
grid tools do not list this file anymore...
Call expert later in the morning...
### HCAL calibration runs

<table>
<thead>
<tr>
<th>Time</th>
<th>Crew</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.08.2006 05:55</td>
<td>shift crew</td>
<td>HCAL calibration runs</td>
</tr>
<tr>
<td>300386</td>
<td>ahcCmNoise -e 10000 pedestal calibration mode</td>
<td></td>
</tr>
<tr>
<td>300387</td>
<td>ahcGain single-pixel (12min)</td>
<td></td>
</tr>
<tr>
<td>300388</td>
<td>ahcCmLedVcalibScan light scan calibration mode</td>
<td></td>
</tr>
<tr>
<td>300389</td>
<td>ahcPmNoise -e 10000 pedestal physics mode</td>
<td></td>
</tr>
<tr>
<td>300391</td>
<td>ahcPmLedVcalibScan light scan physics mode</td>
<td></td>
</tr>
</tbody>
</table>

still no beam; we repeat calibration runs for reproducibility test

<table>
<thead>
<tr>
<th>Time</th>
<th>Crew</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>300392</td>
<td>ahcCmNoise -e 10000</td>
<td></td>
</tr>
<tr>
<td>300393</td>
<td>ahcGain</td>
<td></td>
</tr>
<tr>
<td>300394</td>
<td>ahcCmLedVcalibScan</td>
<td></td>
</tr>
<tr>
<td>300395</td>
<td>ahcPmNoise -e 10000</td>
<td></td>
</tr>
<tr>
<td>300400</td>
<td>ahcPmLedVcalibScan</td>
<td></td>
</tr>
</tbody>
</table>

Now also the magnet settings have gone...

<table>
<thead>
<tr>
<th>Time</th>
<th>Crew</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>300401</td>
<td>ahcCmNoise -e 10000</td>
<td></td>
</tr>
<tr>
<td>300402</td>
<td>ahcGain</td>
<td></td>
</tr>
<tr>
<td>300403</td>
<td>ahcCmLedVcalibScan</td>
<td></td>
</tr>
<tr>
<td>300404</td>
<td>ahcPmNoise -e 10000</td>
<td></td>
</tr>
<tr>
<td>300405</td>
<td>ahcPmLedVcalibScan</td>
<td></td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/35/30.08

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.08.2006 05:55</td>
<td>logbook ignore</td>
</tr>
</tbody>
</table>

The logbook created this nice entry for an unknown reason by copying the previous entry. We have deleted the duplicated text but cannot delete the entry as a whole.

Logbook entry: /CALICEelog/data/2006/35/30.08

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.08.2006 05:07</td>
<td>new run Electrons 45 GeV</td>
</tr>
</tbody>
</table>

Run 300384: beamData -d -m 1 -v 26 H6B.395 45 GeVe-10x10 cm2 trigger 140k events

9000 trigger counts/spill
90 Hz DAQ rate; rate had slowed down to 60 Hz averaged over whole run (trigger counter stable)

-> we start new run to see if DAQ rate increases again

Run 300385: DAQ rate 10 Hz; trigger counts = 0

-> beam seems to have gone

Logbook entry: /CALICEelog/data/2006/35/30.08

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.08.2006 04:46</td>
<td>shift crew ECAL communication lost</td>
</tr>
</tbody>
</table>

unplugged/replugged power line
rebooted computer -> communication back

+6V gives high current -> automatic shutdown

Goetz mobile not reachable (Funkloch)
woke up Marius: ECAL safety run has to be running when starting ECAL

Logbook entry: /CALICEelog/data/2006/35/30.08

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.08.2006 02:40</td>
<td>new run Electrons 10 GeV</td>
</tr>
</tbody>
</table>

Run 300383: beamData -d -m 1 -v 26 H6B.599 10 GeVe-10x10 cm2 trigger 140k events

130 trigger counts/spill
13 Hz DAQ rate

Logbook entry: /CALICEelog/data/2006/35/30.08
new run Pions 40 GeV

Logbook entry: /CALICEelog/data/2006/35/30.08
30.08.2006 01:40
Hi there,
I have restarted the copy script (cp_comb.pl).
The problem was that the script tried to copy and register
a file that was already registered. This happens sometimes
after a reboot of the caliceana
Troubleshooting:
1) Try to find out at which run the script hangs by looking into
nohup.out (should be done after a restart of the scripts after the reboot)
2) Don't stop the script
3) cd /home/caliceon/bin
4) . /grid_env.sh
5) lfc-ls -l /grid/calice/tb-cern/native/dat | grep Run<runnumber>
6) Now remove all files which have already been copied of this run by
   lfc-del --vo calice -a lfn:/grid/calice/tb-cern/native/dat/Run<runnumber>.nnn.bin
After that the script should resume copying automatically
If you still see a problem call me (  +49-170-6214905  )
Happy nightshift,
Roman

new run Electrons 15 GeV

magnet Quad05 is flaky and needs frequent resetting

new run Electrons 20 GeV

magnet Quad05 is flaky and needs frequent resetting

New shift

Jaroslav Zalesak and Sebastian Schaetzel with Goetz Gaycken

 discard last events for ECAL: ECAL switched off because crew accidentally changed current
Goetz fixed it, new run 300380
Bend02 and Quad05 fluctuates

29.08.2006

Trygve

30 GeV electrons, 0°

22:33

300378 beamData -d -m 1 -v 26 -t H6B.597-30GeVe-collected

1900 counts/spill, collecting data at 55 Hz

delta E/E = 0.06

Some double particle events observed in event display, but overall data looks fine.

Some shorter periods without beam during the run.

ECAL layer 3 is noisy again.

ECAL slow control communication lost after ~170k events

Manual readout shows everything ok

29.08.2006

Trygve

45 GeV electrons, 0°

21:36

300377 beamData -d -m 1 -v 26 -t H6B.395-45GeVe-265k

9k counts/spill, collecting data at 92Hz

Quad05 keeps fluctuating once in a while.

ECAL energy resolution: delta E/E = 0.05

29.08.2006

Trygve

Access

20:55

20:55 - Access to rotate ECAL back to 0°
21:10 - End of access
21:15 - New access to fix noise problems and replace CMB fuses for modules 8 (1A fuse), 14 (1A) and 15 (4A=2x2A in parallel)
21:30 - End of access

29.08.2006

Trygve

10 GeV electrons

20:07

Magnets looks ok again. Beam was back, but then disappeared again. Since we had started a run before the beam disappeared, we leave it running.

300375 beamData -d -m 1 -v 26 -t H6B.599-10GeVe-34k

First 10 minutes mostly without beam.

Now the noise problem in ECAL layer 11 has disappeared:-)

After we got beam, data looks fine.

29.08.2006

Trygve

10 GeV electrons

19:12

Continue the 10 GeV data taking

300374 beamData -d -m 1 -v 26 -t H6B.599-10GeVe-collected

28k, lots of empty events

150 counts/spill, collecting data at 11 Hz

19:20 ECAL layer 11 is noisy

Beam is going on and off...
19:48 - Beam monitor reports about vacuum problem. No beam for 15 minutes.
19:55 - Lots of magnet error messages: disconnected. Also more problems with fluctuations in quad05.

Error messages disappeared again, but we still contacted the control room. We were advised to reload the beam file. Run stopped.

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
17:56
Trygve
10 GeV electrons

Beam tuning is finished, so we can start to take data again.

First attempt to load beam file failed (when setting quads), but after reloading the file everything looks fine.

<table>
<thead>
<tr>
<th>300373</th>
<th>beamData</th>
<th>-d</th>
<th>-m 1</th>
<th>-v 26</th>
<th>-t</th>
<th>H6B.599</th>
<th>-10GeV</th>
<th>e</th>
<th>collected</th>
<th>45k</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 events/spill, collecting data at 12Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

From the event display it looks like there are fairly much multiparticle events, but the histogram showing energy deposited in the ECAL looks fine.

18:50 ECQL slow control communication lost
-> data still looks good, so we continue data taking

Quad05 fluctuating, but went back to nominal value

ECAL very slow control (running down and look at the displays) showed a total current of 79.4.
Voltages are ok.

To be sure, we stopped the run and reboot ECAL slow control.

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
17:06
Trygve
Calibration

Since we have no proper beam, we do some calibration runs

<table>
<thead>
<tr>
<th>300372</th>
<th>ahecGain</th>
<th>-d</th>
<th>-m 1</th>
<th>-E</th>
</tr>
</thead>
</table>

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
16:19
Nicola
20 GeV electrons, 20°

Run started at 16:18

<table>
<thead>
<tr>
<th>300371</th>
<th>-d m 1</th>
<th>-v 26</th>
<th>-t</th>
<th>beamData</th>
<th>e</th>
<th>20 GeV</th>
<th>20 degrees ECAL</th>
<th>collected</th>
<th>3k</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 counts/spill, collecting data at 26Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Everything looks fine. No noise problem on ECAL
stopped run, to allow for beam tuning

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
16:03
Trygve
New shift

Nicola, Trygve, Wenbiao

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
15:31
l.morin
LED calibration
Calibration run

300367 ahcGain -m 1
300368 abcCmLedVcalibScan -m 1
SMB in layer 3 has higher noise than the rest around 1/3 higher RMS.
CMB in layer 8,14,15 still dead.
300369 abcPmLedVcalibScan -m 1
300370 garbage

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 14:58 Marius
300365 stopped after 270K
change to 20 GeV
file: 598
Cerenkov at 1 bar
=> Cerenkov gives for 95% of the triggers a signal
coincidence in 10x10: 750
coincidence in 100x100: 250
no beams from cps for 15-20 min run stopped after 37K
300366 beamData -m 1 -v 2 20 GeV electron

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 13:31 Marius
electron 30 GeV 20 degree
ECAL at 20° angle
file: 397
target: 3mm lead
absorber: air
electron 30 GeV
1300 coinc in 10x10
300 coinc in 100x100
Cerenkov: started with 2.6 bar
moving to 1 bar
since 15K stable at 1 bar
=> Cerenkov gives for 95% of the triggers a signal
300365 beamData -m 1 -v 2 30 GeV electron

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 12:52 Marius
elog is not editable over the secure connection
Sven has solved it immediately

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 13:28 Marius
elog is not editable over the secure connection
GUI DAQ problems
The last shifts have reported some problems with the DAQ/GUI: they have started a run and have seen
only 20 Hz trigger rate, which corresponds to the oscillator.
A look in the logfile has shown that the shifters have started an ahcBeam run instead of a beamData run. This is already not good, because this exclude the ECAL of reasonable beam data taking. Therefore I have deleted this runType and all other not used runtypes from the run selection list for the shifters.
The second reason why the run has not started probably was that the GUI associates the trigger selection only for the beamData run. This I have changed now to ahcBeam, emcBeam and beamData. If you want to specify the trigger for other beam runs you have to type the correct number in the option field (-v).

Thank you for reporting these errors in a precise way.... it was therefore easy to find the reasons.

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 12:17 Marius back to electron 45 GeV
ECAL at 20° angle
file: 395
target: 3mm lead
absorber: air
electron 45 GeV
6500 coinc in 10x10
1200 coinc in 100x100
Cerenkov: 2.6 bar in the first 70K eventst moving to 0.15 bar in the next 50K events since 120K stable at 0.15 bar
300364 beamData -m 1 -v 26 45 GeV electron

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 11:09 Marius new beam tuning run
300363 beamData -m 1 -v 26 80 GeV pion new collimator tuning

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 11:06 > collimator studies
The collimator sets tested are reported in the plot below.
The conclusion of the scan is:
- only horizontal position of beam was studies
- the beam is off center in the two focous points C3 and C8 by about 3 mm
- it is needed to perform a scan of the bending magnet B3 to focous the beam
- then repeat the same on the vertical allignment

All these scans are made using the 10x10 coincidence as counter (maybe for the next scan the 20x20 should be used)
Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006 10:59 Marius

LED calibration
beam tuning is ongoing with rate checking
300362 ahcGain -m 1
again not finished; stopped after 3.5 configurations

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006 09:18 Marius

pion 80 GeV beam tuning
beam tuning
300358 beamData -m 1 -v 26 -80 GeV pion
9000 coinc/ spill in 10x10
DAQ rate: ~100 Hz
stopped after 44000

300359 beamData -m 1 -v 26 -80 GeV pion
6600 coinc/ spill in 10x10
DAQ rate: ~80 Hz
stopped after 44000

asymmetric collimator settings
300360 beamData -m 1 -v 26 -80 GeV pion
6700 coinc/ spill in 10x10
DAQ rate: ~85 Hz
=> amount of double particle events seem to be less
=> try to get more statistics
=> very often the beam is lost in the SPS
stopped after 66000

300361 beamData -m 1 -v 26 -80 GeV pion
13K coinc/ spill in 10x10
DAQ rate: ~100 Hz
stopped after 53K

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 08:56 Marius
no beam due to SPS cycle change
stopped 300354 after 90000 events although the last 5K were pedestals
do now some led calibration; CMB in layer 8,14,15 still dead

300355 ahcCmLedVcalibScan -m 1 -d
300356 ahcFmLedVcalibScan -m 1 -d
300357 ahcGain

stopped after 4 configurations, because beam is back

Erika is setting up pion 80 GeV
file: 099
tune collimator

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006 08:32 Erika, L. Morin, Marius
new shift 8:00 - 16:00

Erika, L. Morin, Marius

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006 07:59 pion runs

Put the pion run into the logbook. See picture.

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006 07:34 Beni
10 GeV data taking
changing now to 10 GeV electrons
beamfile: H6B.599
changed Cherenkov pressure to 2.6 (was established after 10k events)
10x10 trigger 200 coincidences/spill @ 22.4e11 p on T4

300354 beamData -d -m 1 -v 26 10 GeV e-

average acquisition rate 17 Hz
Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
06:59 Beni

15 GeV data taking
changing now to 15 GeV electrons
beamfile          : H6B.580
changed Cherenkov pressure to 1.35 (was established after 6k events)
10x10 trigger 400 coincidences/spill @ 21.9e11 p on T4
300351 beamData -d -m 1 -v 26 | 5 GeV- - |||50k events
Collimator 3 needed some extra invitation to go to its correct value after 40k events.
-3.5 was -3 instead.
average acquisition rate 28 Hz

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
06:53 Beni

need different vcalib setting and scans for TCMT
The adjustment of vcalib values for the TCMT was not successful until now. We need more
detailed studies when manpower and beam conditions allow. And it looks like if the
ahcPmLedVcalibScan runs in the wrong direction. To be checked.
Marius: already checked: the code is doing the right thing

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
06:20 Beni

20 GeV data taking
changing now to 20 GeV electrons
beamfile          : H6B.598
changed Cherenkov pressure to 0.755
10x10 trigger 800 coincidences/spill @ 21.5e11 p on T4
300352 beamData -d -m 1 -v 26 | 20 GeV- - |||100k events
average acquisition rate 43 Hz

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
06:15 Beni

gain calibration
beam went of just as we wanted to start the 20 GeV run
300351 ahcGain -d -m 1 stopped early as beam came back

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
06:03 Beni

40 GeV data taking
changing now to 40 GeV electrons
beamfile          : H6B.396
changed Cherenkov pressure to 0.183
10x10 trigger 5500 coincidences/spill @ 21.3e11 p on T4
300350 beamData -d -m 1 -v 26 | 40 GeV- - |||100k events
average acquisition rate 110 Hz

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006
05:50 Beni

new AHC.cfg
another TCMT PM vcalib adjustment

file AHC_CERN_290806_300350_320545.cfg

1. AHC.cfg
2. in this file you have to specify which
   configuration file should be used for which frontend
3. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

4. 5 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
5 1 AHCAL DAC_module04.dat 60 32 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 3 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 4 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
5 7 AHCAL DAC_module09.dat 67 34 15 42000 46000
5 8 AHCAL DAC_module11.dat 66 34 16 42000 46000
5 9 AHCAL DAC_module13.dat 69 35 18 42000 46000
5 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
5 4 AHCAL DAC_module03.dat 62 34 12 42000 46000
5 3 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
5 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
5 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
5 3 PIN 50
5 0 PMT 1
5 2 TCMT DAC_tcmt.dat 46 19 14 11450 9000
1. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 05:31 Beni
QUAD05 current setting not stable
We noticed the same effect with QUAD05 like last night. This time we had to decrease the current for 10A and set back to nominal value to get it stable.

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 05:15 Beni
45 GeV data taking
changing now to 45 GeV electrons
beamfile          : H6B.395
absorber          : air
secondary target  : 3mm lead
changed Cherenkov pressure to 0.154
10x10 trigger 10'000 coincidences/spill @ 21.3e11 p on T4
300348 beamData -m 1 -v 26 45 GeV e- 100k, QUAD05 > 0.4A off
300349 beamData -m 1 -v 26 45 GeV e- 95k events
average acquisition rate 120 Hz

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 05:11 Beni
new AHC.cfg
Adjusting Vcalib settings for the TCMT
file AHC_CERN_290806_300348_320545.cfg

1. AHC.cfg
2. in this file you have to specify which
   configuration file should be used for which frontend
3. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

4. 5 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
5 1 AHCAL DAC_module04.dat 60 32 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 3 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 4 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
5 7 AHCAL DAC_module09.dat 67 34 15 42000 46000
5 8 AHCAL DAC_module11.dat 66 34 16 42000 46000
5 9 AHCAL DAC_module13.dat 69 35 18 42000 46000
5 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
5 4 AHCAL DAC_module03.dat 62 34 12 42000 46000
5 3 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
5 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
5 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
5 3 PIN 50
5 0 PMT 1
5 2 TCMT DAC_tcmt.dat 46 19 14 11450 9000
1. end of AHC.cfg file
5 3 AHCAL DAC_module03.dat 62 34 12 42000 46000
5 4 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 5 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
9 1 AHCAL DAC_module09.dat 67 34 15 42000 46000
9 2 AHCAL DAC_module11.dat 66 34 14 42000 46000
9 4 AHCAL DAC_module13.dat 69 35 18 42000 46000
9 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
9 7 AHCAL DAC_module14.dat 63 31 14 42000 46000
15 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
15 4 AHCAL DAC_module15.dat 70 39 12 42000 46000
15 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
15 3 PIN 50
15 0 PMT 1
12 2 TCMT DAC_tcmt.dat 46 19 14 10000 9500
1. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
05:05 Beni shift crew
Kurt Francis joined us

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
04:16 Beni 60 GeV data taking
changing now to 60 GeV pions
beamfile : H6B.097
absorber : 8mm lead
secondary target : air
changed collimator 5 to 3mm (sym)
changed Cherenkov pressure to 0.082
10x10 trigger 9500 coincidences/spill @ 21.3e11 p on T4
300347 beamData -m 1 -v 26 60 GeV pi- 300k events
average acquisition rate 120 Hz

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
03:53 Beni checking for the 300 base coincidences in
100x100 counters
changing now to 10 GeV electrons
beamfile : H6B.599
changed Cherenkov pressure to 1.61
10x10 trigger 150 coincidences/spill @ 21.4e11 p on T4
100x100 trigger 300 coincidences/spill
300343 beamData -m 1 -v 19 10 GeV e- 18k -hold not optimized
average acquisition rate 23 Hz
The online display shows that there are quite some muons that miss the 10x10 coincidence.

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
03:39 Beni calibration runs
300342 ahcGain
300343 ahcCmLedVcalibScan
300344 ahcPmLedVcalibScan
stopped immediately, selected wrong type
300345 ahcPmLedVcalibScan
stopped immediately, selected wrong type

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006
02:58 Beni trigger problem again
This time there were a few triggers recognized every xth spill, but the histogram shows clearly that most of the triggers are ignored.

Tried to do only a shutDown and startUp without panic, but did not work. The DAQ could not start a new run, it got stuck again. Panic necessary. Restart of GUI and startUp, everything looks fine again.

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 02:51 Beni
45 GeV data taking
changing now to 45 GeV electrons
beamfile          : H6B.395
changed Cherenkov pressure to 0.150
10x10 trigger 10'000 coincidences/spill @ 21.2e11 p on T4
300340 beamData -m 1 -v 26 45 GeV e- 30° trigger problem again
300341 beamData -m 1 -v 26 45 GeV e- 30° 260k events
average acquisition rate 120 Hz
Cherenkov efficiency ~30%

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 02:30 Beni
40 GeV data taking
changing now to 40 GeV electrons
beamfile          : H6B.396
changed Cherenkov pressure to 0.190
10x10 trigger 5250 coincidences/spill @ 21.1e11 p on T4
300339 beamData -m 1 -v 26 40 GeV e- 30° 110k events
average acquisition rate 110 Hz
Cherenkov efficiency ~40%

Logbook entry: /CALICEelog/data/2006/35/29.08
29.08.2006 02:15 Beni
caliceana copyscript and network settings
I did a check of the copy scripts and the network settings.

The copy scripts were running, but the network settings were low speed. As I got annoyed of doing everything by hand all the time, I wrote a little script: setNetwork.sh. This can be executed as root only.

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006        Beni        30 GeV
changing now to 30 GeV electrons
beamfile          : H6B.397
changed Cherenkov pressure to 0.338
10x10 trigger 2050 coincidences/spill @ 21.1e11 p on T4
300338 beamData -m 1 -v 26 30 GeV e- 30° Cherenkov over press. first 33k 300k events
average acquisition rate 80 Hz
Cherenkov efficiency ~70%

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006        Beni        20 GeV data taking
after the corrupted last run, we try once again with 20 GeV electrons
10x10 trigger 850 coinc./spill
300337 beamData -m 1 -v 26 20 GeV e- 30° Cherenkov over press. 100k events; Cherenkov over press.
average data acquisition rate is 47 Hz
Last shift forgot to set Cherenkov pressure and we did not realize. Was 2.6 bar (10GeV).

Logbook entry: /CALICEelog/data/2006/35/29.08

29.08.2006        Beni        DAQ trigger problem
Run 300336 did not accept beam triggers. Only the 20 Hz pedestal trigger were collected.
We needed some time to realize what is going wrong.
The problem first appeared as a low rate overall rate (9 Hz) and a maximum trigger rate of 20 Hz.
Additionally we could see nothing in the online analysis.
The picture shows the trigger history for the run.
Try to stop and start a new run --> run stopped but new run does not start
Time for panic, stop GUI; start GUI, startUp and a new run.
Looks like this was successful! Average trigger rate is now 46 Hz and we see reasonable data in the online analysis.
Logbook entry: /CALICEelog/data/2006/35/28.08  
**20.08.2006**  
00:04  
Trygve  
20 GeV electrons

```bash
300336 beamData -m 1 -v26 -t H6B.598 -20GeVe-useless, did not accept beam triggers
700 counts/spill, collecting data at 10Hz
```

Logbook entry: /CALICEelog/data/2006/35/28.08  
**29.08.2006**  
00:03  
Trygve  
New shift crew

Benjamin, Vladimir

Logbook entry: /CALICEelog/data/2006/35/29.08  
**29.08.2006**  
00:00  
Beni

shifters:
Benjamin Lutz
Vladimir Balagura

Logbook entry: /CALICEelog/data/2006/35/28.08  
**28.08.2006**  
23:50  
Trygve  
HCAL gain calibration

```bash
300335 ahcGain -m 1 -t
```

Logbook entry: /CALICEelog/data/2006/35/28.08  
**28.08.2006**  
23:17  
Trygve  
15 GeV electrons

```bash
300334 beamData -m 1 -v 26 -t H6B.580 -15GeVe-30° collected 52k
400 counts/spill, collecting data at 28Hz
```

Little noise on ECAL layer 3 in this run
Data quality looks good

Run ended  at 23:48
Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs\elg\logbook

28.08.2006
20:19
Trygve
Erika left

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs\elg\logbook

28.08.2006
19:44
Erika
Collimators studies
to improve beam quality w.r.t. multiple particle problem.
Starting point 60 GeV secondary beam from file 097
Idea: close collimators upstream to reduce rate below 20kev/spill and use COLL5/6 only to adjust

Settings used:

<table>
<thead>
<tr>
<th>Run #</th>
<th>C10C1</th>
<th>C11C5</th>
<th>C6</th>
<th>C2C3</th>
<th>C8</th>
<th>Targ</th>
<th>Abs</th>
<th>Rate/spill</th>
</tr>
</thead>
<tbody>
<tr>
<td>300188</td>
<td>10</td>
<td>40</td>
<td>1.5</td>
<td>51</td>
<td>5</td>
<td>103</td>
<td>3</td>
<td>Air</td>
</tr>
<tr>
<td>300329</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>103</td>
<td>3</td>
<td>4mm Pb</td>
<td>11K</td>
</tr>
<tr>
<td>300320</td>
<td>40</td>
<td>40</td>
<td>25</td>
<td>103</td>
<td>3</td>
<td>3</td>
<td>340mm Cu</td>
<td>110K</td>
</tr>
<tr>
<td>300331</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4</td>
<td>103</td>
<td>3</td>
<td>4mm Pb</td>
<td>20K</td>
</tr>
<tr>
<td>300332</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>103</td>
<td>3</td>
<td>4mm Pb</td>
<td>7K</td>
</tr>
</tbody>
</table>

Observations from event display:
with all settings we will see some fraction of multi-particle event it is difficult to quantify how many.
the only tertiary beam run (300330) has too low rate.
more invastigations will be tested later

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs\elg\logbook

28.08.2006
19:01
Trygve
10 GeV electrons
run started at 19:00

<table>
<thead>
<tr>
<th>300333</th>
<th>beamData -m 1 -v 26 -t H6B.599 -10GeV e-</th>
<th>collected 259k</th>
</tr>
</thead>
<tbody>
<tr>
<td>170 counts/spill, collecting data at 17Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Quad50 current changed by -1A after 8500 events, fixed
->happened again after 17500 events
Erika contacted control room -> problem apparently fixed
ECAL layer 3 started out less noisy than earlier, but became noisy again during the run.
Data looks good. No second peak from multiple particle events visible.
Towards the end of the run evidence of double particle events started to show up.
Run ended at 23:15

Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs\elg\logbook

28.08.2006
18:03
Trygve
Pion beam tests
New collimator settings
Using 4 mm Pb absorber, -60 GeV secondary beam

<table>
<thead>
<tr>
<th>300329</th>
<th>beamData -m 1 -v 26 -t -60GeV</th>
</tr>
</thead>
<tbody>
<tr>
<td>11000 counts/spill, collecting data at 120 Hz</td>
<td></td>
</tr>
</tbody>
</table>
Lots of showering also in the ECAL.

New collimator settings
Using 400 mm Cu target, -60 GeV secondary beam

<table>
<thead>
<tr>
<th>300330</th>
<th>beamData -m 1 -v 26 -t -60GeV collected 11k</th>
</tr>
</thead>
<tbody>
<tr>
<td>350 counts/spill, collecting data at 15 Hz</td>
<td></td>
</tr>
</tbody>
</table>
Many particles start showering in ECAL. Large muon fraction.

New collimator settings
4mm absorber, -60 GeV secondary beam

<table>
<thead>
<tr>
<th>300331</th>
<th>beamData -m 1 -v 26 -t -60GeV collected 49k</th>
</tr>
</thead>
<tbody>
<tr>
<td>20k counts/spill, collecting data at 120 Hz</td>
<td></td>
</tr>
</tbody>
</table>
Looks better, but still lots of showers starting in the ECAL.
New collimator settings
4mm absorber, -60 GeV secondary beam
-0033|beamData-m 1 -v 26 -l-600GeV-collected 60k
7.5k counts/spill, collecting data at 90 Hz
Looks pretty much like the last one, maybe slightly purer beam.

No clear conclusion => analysis of data needed.

=> More details in separate entry by Erika

Logbook entry: CALICE eLogbook/data/2006/35/28.08
28.08.2006 Trygve 10 GeV electrons
17:27 Collect some more statistics for 10GeV electrons
-00328|beamData-m 1 -v 26 -l-66B.599-400GeV-m -30.52k collected
The beam is going on and off all the time, so the average rate is low.
Since the data collection is so inefficient, we stopped the run and move on to testing of the pion beam settings.

Logbook entry: CALICE eLogbook/data/2006/35/28.08
28.08.2006 new shift
15:48 Nicola, Trygve, Erika
17:15 - Götz makes an access to try to understand ECAL noise.

Logbook entry: CALICE eLogbook/data/2006/35/28.08
28.08.2006 Catherine, Erika ,Marius electron 10 GeV
13:38 - first 6000 sec (2 hour)/~70000 events only pedestal data
- run stopped when beam disappeared again after having collected 195k events

Logbook entry: CALICE eLogbook/data/2006/35/28.08
28.08.2006 Catherine, Erika, Marius led calibration run
12:17 CMB 8,14,15 we leave untouched until we get an indication from the experts what to do
-00326|ahcGain 6 configuration each 20000 evt
-00325|ahcPmLedVcalibScan 42 configuration each 1000 evt
-00324|ahcCmLedVcalibScan 12 configuration each 2000 evt

Logbook entry: CALICE eLogbook/data/2006/35/28.08
28.08.2006 Catherine, Erika, Marius electron 10 GeV
10:59 stopped after 100k
due to loss of ECAL SC communication
=> restarted computer & unplug power cable to usb converter
=> ECAL starts fine
-00321|beamData-m 1 -v 26 10 GeV electron not useful
=> after one minute ECAL communication lost again
=> same procedure again
-00323|beamData-m 1 -v 26 10 GeV electron
stopped after 35000 triggers but only 5K electrons
=> no beam
Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006 09:09 Beni
changing now to 10 GeV electrons
beamfile : H6B.599

use Cherenkov pressure: 1.35
10x10 trigger 200 coincidences/spill @ 31.9e11 p on T4

00320 beamData -m 1 -v 26 10 GeV e-
Cherenkov efficiency ~60%
=> too low
=> change C to 2.6 bar

300320 stopped after 29k events

00321 beamData -m 1 -v 26 10 GeV e-
Cherenkov efficiency ~60% still... no improvement on the online monitoring plot
on the other hand the BetrgHistory gives us ~80% eff
=> has to be understood

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006 08:54 Catherine, Erika, Marius
new shift

Catherine, Erika, Marius

machine development between 8:00 and 16:00
=> only parasitic beam

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006 08:20 Beni
15 GeV data taking

changing now to 15 GeV electrons
beamfile : H6B.580

changed Cherenkov pressure to 1.35
10x10 trigger 600 coincidences/spill @ 31.9e11 p on T4

00319 beamData -m 1 -v 26 10 GeV e-
Cherenkov efficiency ~99%

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006 07:49 Beni
Cherenkov thresholds and efficiencies

We did some Cherenkov studies besides the normal datataking and a short pion/electron comparison
@ 30 GeV

<table>
<thead>
<tr>
<th>energy</th>
<th>pressure</th>
<th>e- detection efficiency</th>
<th>e- detections in pi- run</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 GeV</td>
<td>0.35 bar</td>
<td>99%</td>
<td></td>
</tr>
<tr>
<td>20 GeV</td>
<td>0.76 bar</td>
<td>88%</td>
<td></td>
</tr>
<tr>
<td>30 GeV</td>
<td>0.338 bar</td>
<td>75%</td>
<td>~1%</td>
</tr>
<tr>
<td>40 GeV</td>
<td>0.190 bar</td>
<td>33%</td>
<td></td>
</tr>
<tr>
<td>45 GeV</td>
<td>0.150 bar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 GeV</td>
<td>0.120 bar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006 07:34 Beni
20 GeV data taking
changing now to 20 GeV electrons
beamfile          : H6B.398
changed Cherenkov pressure to 0.76
10x10 trigger 1250 coincidences/spill @ 31.9e11 p on T4
cherenkov efficiency ~95%

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006  06:50    Beni
changing now to 30 GeV electrons
beamfile          : H6B.397
changed Cherenkov pressure to 0.338
10x10 trigger 3100 coincidences/spill @ 31.6e11 p on T4
cherenkov efficiency ~75%

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006  06:29    Beni
changing now to 40 GeV electrons
beamfile          : H6B.396
absorber          : air
secondary target  : 3mm lead
changed Cherenkov pressure to 0.19
10x10 trigger 7500 coincidences/spill @ 31.4e11 p on T4
cherenkov efficiency ~35%

Logbook entry: CALICEelog/data/2006/35/28.08
28.08.2006  05:26    Beni
changing now to 50 GeV electrons
beamfile          : H6B.095
absorber          : 8mm lead
changed collimator 5 to 3mm (sym)
changed Cherenkov pressure to 0.120
10x10 trigger 9500 coincidences/spill @ 31.3e11 p on T4
500k, QUAD05 current variations, see next entry
cherenkov efficiency ~35%

QUAD05 current oscillation
It looks like the power supply of QUAD05 has problems to keep the set current. The current is oscillating around the set value -62.458 from -60.9 to 63.9 which is more than the warning threshold of 0.4. We cannot judge what the real effect of this is.
Set 10 A higher current and went back, as described in logbook. Now it looks stable. Will take a short pion run with same settings as 300314 to estimate the effect of this.
Logbook entry: /CALICEelog/data/2006/35/28.08 05:00 Beni  
Goetz is leaving

Logbook entry: /CALICEelog/data/2006/35/28.08 04:57 Beni  
short Cherenkov study
loaded beamfile H6B.098
absorber 8mm lead
target air
opened collimator 5 and 6 to 5mm (sym)
10'000 10x10 triggers/spill
setCherenkovgas pressure to 0.338

300312 beamData -m 1 -v 26 50 GeV pions 10'47k events
now we change the beam to electrons
beamfile H6B.397
absorber 3mm lead
secondary target air

300313 beamData -m 1 -v 26 50 GeV electrons 10'48k events
looks like we get a 60% electron efficiency and almost no pion contamination

Logbook entry: /CALICEelog/data/2006/35/28.08 04:12 Beni  
45 GeV data taking
changing beamsets to 45 GeV
beamfile: H6B.395

10x10 trigger coincidence rate 14000/spill @ 30.9e11 p on T4

300311 beamData -m 1 -v 26 45 GeV electrons 50'288k

Logbook entry: /CALICEelog/data/2006/35/28.08 04:02 Beni  
noise tuning
Goetz made another short access to do some noise tuning.

Logbook entry: /CALICEelog/data/2006/35/28.08 03:50 Beni  
remark to the access
At the beginning of the access Goetz opened accidentally door 126. Looks like this caused an interlock trip for the whole SPS. The affected interlock chain was reset by the control room crew themselves, so the SPS was running again after 2.5 minutes.
We had to press the "end of access"-key at the door to remove the veto from the door control panel. This can be done only after the door has gone to key access mode, which took some minutes.

Logbook entry: /CALICEelog/data/2006/35/28.08 03:46 Beni  
CMB off
CMB 14 and 15 are off again.
Seems they did not survive the last calibration runs.
28.08.2006 02:38  Beni  key access to change ECAL angle
We make a key access to change the ECAL angle to 30°.
Additionally Goetz is doing some noise tuning of the ECAL.
End of access: 03:46

Logbook entry: /CALICEelog/data/2006/35/28.08

28.08.2006 02:38  Beni  HCAL gain calibration
at the beginning of the access a gain calibration run was started
```
300309 ahcGain -m 1
```
and
```
300310 ahcCmLedVcalibScan -m 1 may be interruped by ECAL noise tuning
```
after the access CMB 14 and 15 are off again

Logbook entry: /CALICEelog/data/2006/35/28.08

28.08.2006 01:54  Beni  15 GeV data taking
changing beamsettings to 15 GeV
```
beamfile: H6B.580
10x10 trigger coincidence rate 630/spill @ 30.3e11 p on T4
```
```
300308 beamData -m 1 -v 26 15 GeV electrons 45° 77k
```

Logbook entry: /CALICEelog/data/2006/35/28.08

28.08.2006 01:06  Beni  beam trimming for north area
Since 23:30 the CERN controlroom did some beam parameter optimization for the north area. We did not ask for this. The symmetry on our target (T4) changed a lot during this period. It looks like they finished now.
At the moment the symmetry is stable near 90%. Multiplicity is alternating 10 and 11. The rate on T4 is now 30e11 p/spill. The rate for 10 GeV electrons is 140 coincidences in the 10x10 triggers.

Logbook entry: /CALICEelog/data/2006/35/28.08

28.08.2006 00:00  Beni  shift start
on duty
Goetz Gayken (shiftleader, ECAL)
Vladimir Balagura (dataquality, beam steering)
Benjamin Lutz (elog, HCAL SC)

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 23:58  Trygve  New shift
```
300307 beamData -m 1 -v 26 -t -10GeV H6B.599 e-
```
630(10) trigger hits/spill
27 Hz DAQ rate

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 19:22  Trygve  Quad14 is back:-)
Quad14 is back:)
Bend02 fluctuates slightly down (down to 362.2, beamref=362.525) turning red once in a while.

Energy changed for some unknown reason, so we stopped the run

Since some problems with the DAQ/GUI has been reported, I have spent the time without beam to try to debug the daq gui a little bit. Unfortunately I am not at all a perl expert, but at least the problem of creating zombie processes seems to be solved!

I hope there are now less problems and that I have not created any new ones. If the second one is the case, please call me: 162542

Remark: Since I have honestly no idea about the language perl tk I am dependent on our friend google. I have discovered that it is a very weird language in sence of terminology. You can find comments like:
"Arguably the best part about IPC is the terminology - it’s not often you get the chance, in all seriousness, to talk about killing your children and reaping them before they turn into zombies."
fuses for CMB in layer 8,14,15 replaced
=> try some calibration runs

300280 ahcGain
300281 ahcCmLedVcalibScan
300282 ahcPmLedVcalibScan

=> without -m the led runs seem to have a 30 Hz higher trigger rate after these runs the fuses are still alive... lets see how long

300283 ahcGain

300284 ahcDacScan
300285 ahcGain

=> still everything alive
300286 ahcGain
300287 ahcCmLedVcalibScan
300288 ahcPmLedVcalibScan
300289 ahcPmLedVcalibScan -m 1
300290 ahcPmLedVcalibScan -m 1

DAQ event collection rate for ahcGain:
- with spill sync: 150 Hz
- without spill sync: 150 Hz

=> suggest to use always with spill sync to be sure that there are no particles in for both vcalib scans we get independent on the spill sync a rate around 125 Hz, because we have to configure more

=> suggest to use always with spill sync to be sure that there are no particles in

All CMBs are still working

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 13:39 Catherine, Erika, Marius
It seems that quad13 was already off during run 300278 : last 3rd of the run shows lower energy for ECAL and higher energy for HCAL

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 13:13 Catherine, Erika, Marius
electron 40 GeV
300278 stopped after 250000 events collected
change to energy: -40 GeV
file: 396
Quad 13 does not accept our settings
=> call to the control room
=> expert has to come in

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 12:36 Erika
NEW GUI display
the new runMonitor information in the GUI looks like this:

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Configurations</td>
<td>24</td>
</tr>
<tr>
<td>Number of Events in Run</td>
<td>299278</td>
</tr>
<tr>
<td>Running time since Run Start</td>
<td>41 min</td>
</tr>
<tr>
<td>Averaged event rate in Run</td>
<td>122 Hz</td>
</tr>
<tr>
<td>Averaged event rate in Config</td>
<td>91 Hz</td>
</tr>
<tr>
<td>Trigger rate</td>
<td>0 Hz</td>
</tr>
</tbody>
</table>

we have reduced the number of info to minimize confusion.
A more accurate description in the shift guide always updated in:
Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 12:28 Marius
300277 stopped after 300000 events collected
change to electron
ergy: -45 GeV
target: Pb 3mm
absorber: air
file: 395

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 12:18 Marius
data copy & converter
-data copying is running fine
-both converter scripts failed yesterday
=> restarted now from runs 300225 and 300226

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 11:37 Marius
300276 stopped after 251000 events collected
change to pion
ergy: -40 GeV
target: air
absorber: 8mm
collimator 5 -+ 3.0
collimator 6 -+ 3.0
file: 096

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 08:07 Catherine, Erika, Marius
new shift
Catherine, Erika, Marius

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 07:20 Beni
noisy layer
We observe a noisy ECAL layer 8 since run 300257. The amplitude/frequency is changing.
300265 and 300269 do not show this effect but all the rest. The energy spectra look reasonable.
Only the number of hits go up. Therefore, we do not expect a big degrade of the data quality.

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 05:59 Beni
DAQ did not start new run
Again the database connection failed during runstart.
We waited 10 minutes.
shutDown, panic, close TestBeamControl
open TestBeamControl again, startUp, runStart
Now the run started, but the database connection seems to be slow.
Is it possible that the database request times out and the DAQ waits forever?
We lost 20 minutes of good beam.
Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 05:50  Beni  CMB 8 & 14 are off
The CMBs 8 and 14 are off. It must have happened between runs 300266 and 300269. Maybe one of the calibration runs killed them. Has to be checked offline.

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 05:38  Beni  10 GeV data taking
changed beam settings to 10 GeV
beamfile H6B.498
10x10 trigger coincidences 140/spill @ 19.9e12 p on T4

<table>
<thead>
<tr>
<th>Run</th>
<th>beamData -d -m 1 -v 26 10 GeV electrons</th>
<th>45° broken, did not start as CERN database timed out</th>
</tr>
</thead>
<tbody>
<tr>
<td>300270</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45° 30k, beam went off</td>
</tr>
<tr>
<td>300272</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45° no beam</td>
</tr>
<tr>
<td>300273</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45° DAQ problems</td>
</tr>
<tr>
<td>300274</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45° Bk dataquality seems bad, jump in ECAL energy</td>
</tr>
<tr>
<td>300275</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45°</td>
</tr>
<tr>
<td>300276</td>
<td>beamData -d -m 1 -v 26 10 GeV electrons</td>
<td>45°</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 05:30  Beni  15 GeV data taking
As the pedestal/led content is increased due to the many brakes we collect some more 15 GeV electrons
10x10 trigger coincidences 380/spill @ 20.0e12 p on T4

<table>
<thead>
<tr>
<th>Run</th>
<th>beamData -d -m 1 -v 26 15 GeV electrons</th>
<th>45° 13k events</th>
</tr>
</thead>
<tbody>
<tr>
<td>300269</td>
<td>beamData -d -m 1 -v 26 15 GeV electrons</td>
<td>45° 13k events</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 05:10  Beni  HCAL calibration runs
This night seems not to be a good night for the machine.
Another 20min without beam, this time extraction problems.

<table>
<thead>
<tr>
<th>Run</th>
<th>ahcGain -d</th>
</tr>
</thead>
<tbody>
<tr>
<td>300267</td>
<td>ahcGain -d</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 04:27  Beni  DAQ problems
The DAQ got stuck during start of run 300264.
We waited longer than 5 min.
After shutdown, panic & restart of the TestBeamControl the DAQ works again.

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 04:15  Beni  15 GeV data taking
continuing with 15 GeV

10x10 trigger coincidences 500/spill @ 22.6e11 p on T4

<table>
<thead>
<tr>
<th>Logbook entry: /CALICEelog/data/2006/34/27.08</th>
<th>Beni</th>
<th>03:52</th>
<th>HCAL calibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>no beam for 20min (septum fault)</td>
<td>-----</td>
<td>------</td>
<td>-----------------</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 03:30 15 GeV data taking

<table>
<thead>
<tr>
<th>Logbook entry: /CALICEelog/data/2006/34/27.08</th>
<th>Beni</th>
<th>03:26</th>
<th>current increase for TCMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>changed beam settings to 15 GeV</td>
<td>-----</td>
<td>------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>beamfile H6B.580</td>
<td>-----</td>
<td>------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>10x10 trigger coincidences 500/spill @ 22.6e11 p on T4</td>
<td>-----</td>
<td>------</td>
<td>---------------------------</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 03:13 shift people

<table>
<thead>
<tr>
<th>Logbook entry: /CALICEelog/data/2006/34/27.08</th>
<th>Beni</th>
<th>02:49</th>
<th>20 GeV data taking</th>
</tr>
</thead>
<tbody>
<tr>
<td>changed beam settings to 20 GeV</td>
<td>-----</td>
<td>------</td>
<td>--------------------</td>
</tr>
<tr>
<td>beamfile H6B.598</td>
<td>-----</td>
<td>------</td>
<td>--------------------</td>
</tr>
<tr>
<td>10x10 trigger coincidences 860/spill @ 22.7e11 p on T4</td>
<td>-----</td>
<td>------</td>
<td>--------------------</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 Beni 01:44 cp scripts restarted
Hi there,

I have restarted the copy scripts on caliceana.

Today they have been started as user root, like this the scripts do not find a file necessary for grid credentials. Thus nothing has been copied today.

The scripts have to be started as user caliceon.

In addition I have set the 'high speed parameters'.

```
[root@caliceana bin]# echo 2500000 > /proc/sys/net/core/wmem_max
[root@caliceana bin]# echo 2500000 > /proc/sys/net/core/rmem_max
[root@caliceana bin]# echo "4096 500000 5000000" >
/proc/sys/net/ipv4/tcp_rmem
[root@caliceana bin]# echo "4096 65536 5000000" >
/proc/sys/net/ipv4/tcp_wmem
```

These have to be set as root user after a restart of caliceana.

Happy Nightshift,

Roman

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 01:35 caliceon@calicehcalsc02.cern.ch (CALICE user)

CMB 15 details

Everything looks fine on the details page, even the temperature stays high. We could confirm in run 300257 that the LEDs do not send light. Switched off and on all the CMBs, no change.

Logbook entry: /CALICEelog/data/2006/34/27.08

27.08.2006 01:33 Beni

CMB 15 off again

Looks like CMB #15 turned off. RE-INIT does not bring the green light back.
Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 01:08 Beni

HCAL calibration runs

beam off again (dump kicker fault)
estimate: a few minutes
estimate: 30 min
estimate: beam hopefully in 15 min
real beam off time 2 hours

300248 ahcGain -d
300249 ahcCmVcalibScan -d
300250 ahcFmVcalibScan -d
300251 ahcGain -d
300252 ahcCmVcalibScan -d
300253 ahcFmVcalibScan -d
300254 ahcGain -d
300255 ahcCmVcalibScan -d
300256 ahcFmVcalibScan -d

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 01:00 Beni

30 GeV
Nothing was changed. Continuing the 30 GeV run to fill up to 250k.
10x10 trigger rate is 2200 coincidences/spill @ 22e11 p on T4

300247 beamData -d -m 1 -v 26 30 GeV electrons 45° 55k events

Logbook entry: /CALICEelog/data/2006/34/27.08
27.08.2006 00:28 Beni

AHCAL calibration runs

No beam (septum fault)
First estimate is 30 minutes.

300244 ahcGain -m 1
300245 ahcCmLedVcalibScan -d -m 1
300246 ahcFmLedVcalibScan -d -m 1

Logbook entry: /CALICEelog/data/2006/34/26.08
27.08.2006
Beni

shift start

on duty
Goetz Gayken (shiftleader, ECAL)
Vladimir Balagura (online Monitor, beam steering)
Benjamin Lutz (elog, HCAL SC)

run 300243 continues

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006
Trygve

21:19

ECAL rotated

Some noise problem in ECAL (Cabling problem). Hopefully fixed, but not entirely understood.

ECAL now at 45 degrees
Target: 3mm Pb
Absorber: Air

Garbage (started run without selecting beamData, stopped almost immediately)

<table>
<thead>
<tr>
<th>Run</th>
<th>Beam Data Parameters</th>
<th>Events Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>300241</td>
<td>-m 1 -v 26 -t -45GeV</td>
<td>301k</td>
</tr>
<tr>
<td>300242</td>
<td>-m 1 -v 26 -t -40GeV</td>
<td>121k</td>
</tr>
<tr>
<td>300243</td>
<td>-m 1 -v 26 -t -30GeV</td>
<td>219k</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006
Trygve

16:05

new shift

Nicola, Trygve

Changing to electron beam
Target: 3mm Pb
Absorber: Air

The ECAL layer which was noisy earlier appears to be fine again.

<table>
<thead>
<tr>
<th>Run</th>
<th>Beam Data Parameters</th>
<th>Events Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>300236</td>
<td>-m 1 -v 26 -t -40GeV</td>
<td>197k</td>
</tr>
<tr>
<td>300237</td>
<td>-m 1 -v 26 -t -15GeV</td>
<td>118k</td>
</tr>
<tr>
<td>300238</td>
<td>-m 1 -v 26 -t -15GeV</td>
<td>60k</td>
</tr>
</tbody>
</table>

Red dot at +6V in ECAL panel -> communication with ECAL voltage control lost. Probably true for all runs 300235 through 300237.
Voltages checked and found ok, so the data collected should be good.

ECAL slow control restarted to re-establish communication

Communication with ECAL voltage control (~200V channel) lost after ~40k events in run 300238, but data looks good.

Noisy ECAL layer has re-appeared.

<table>
<thead>
<tr>
<th>Run</th>
<th>Beam Data Parameters</th>
<th>Events Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>300239</td>
<td>-m 1 -v 26 -t -10GeV</td>
<td>107k</td>
</tr>
</tbody>
</table>

Communication with ECAL voltage control (~200V channel) lost after ~30k events in run 300239, but data looks good.

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006
Marius

beam back

beam is coming back

try to get pions
absorber: 8mm lead
target: sir
pi- = 30 GeV
file: H6B.098

=> absorber changed to 4mm lead due to low rate
collimeter 5: +5.0
collimeter 6: +5.0

<table>
<thead>
<tr>
<th>Run</th>
<th>Beam Data Parameters</th>
<th>Events Collected</th>
</tr>
</thead>
<tbody>
<tr>
<td>300234</td>
<td>-m 1 -v 26 -t -30GeV</td>
<td>11k</td>
</tr>
</tbody>
</table>
DAQ rate 100 Hz
330000 events collected

Logbook entry:  
26.08.2006  13:16  Marius
fuses for CMB in layer 8,14,15 replaced
=> power check successfully

Logbook entry:  
26.08.2006  12:42  Marius
led vcalib scan

Logbook entry:  
26.08.2006  10:38  Marius
30 GeV electrons
beam parameter settings for 30 GeV electrons, using file H6B.397
tertiary electron beam
no beam => gain calibration

Logbook entry:  
26.08.2006  09:38  Marius
45 GeV electron
beam parameter settings for 45 GeV electrons, using file H6B.395
tertiary electron beam
10x10 trigger rate 7000 ev/spill with 20e11 p @ T4
100x100 coincidence 1000 ev/spill

average DAQ event collection rate: 20 Hz
BeTrgHistory: after ~100000 events
460 oscillator triggers
45000 beam coincidence
=> 1% pedestals in the beam configuration
stopped after: 288000 events
26.08.2006 08:54  Marius  15 GeV electrons
beam parameter settings for 15 GeV electrons, using file H68.580
10x10 trigger rate 400 ev/spill with 20e11 p @ T4
100x100 coincidence 300 ev/spill

300223 beamData -d -m 1 -v 26 15 GeV electrons
average DAQ event collection rate: 20 Hz
stopped after ~65000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08
26.08.2006 08:50  Marius  New shift crew
Catherine, Erika and Marius

Logbook entry: /CALICEelog/data/2006/34/26.08
26.08.2006 08:37  Marius  grid copy check
all runs from the last night have been copied

Logbook entry: /CALICEelog/data/2006/34/26.08
26.08.2006 07:37  Beni  10 GeV data taking
beam parameter settings for 10 GeV electrons, using file H68.599
10x10 trigger rate 150 ev/spill with 20e11 p @ T4
100x100 coincidence 280 ev/spill

300221 beamData -d -m 1 -v 26 10 GeV electrons
stopped after ~35000 triggers

300222 beamData -d -m 1 -v 26 10 GeV electrons
stopped after ~70000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08
26.08.2006 07:27  Beni  DAQ gui bug
It just happened that the DAQ gui shows "No run at the moment" even though there is still a run running. The current run button returns the correct run number and the monitor shows the proceeding of the run. No idea how we brought it to do this. It worked well all the time before.
Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 06:23  Beni  10 GeV data taking
beam parameter settings for 10 GeV electrons, using file H6B.599
10x10 trigger rate 150 ev/spill with 20e11 p @ T4
100x100 coincidence 280 ev/spill

stopped after 35'000 events, data quality degrade & beam went off

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 05:28  Beni  20 GeV data taking
the third try to get some 20 GeV electrons
using beam file H6B.598
10x10 trigger rate 730 ev/spill with 20e11 p @ T4
100x100 coincidence 300 ev/spill

stopped after 100'000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 05:00  Beni  AHCAL calibration runs
the beam is off due to kicker problems again
estimate 30 minutes
using the time for more AHCAL calibration

Logbook entry: /CALICEelog/data/2006/34/26.08
20 GeV data taking

beam parameter settings for 20 GeV electrons, using file H6B.598
10x10 trigger rate 790 ev/spill with 20e11 p @ T4
100x100 coincidence 300 ev/spill

stopped after 2'000 events, again the beam is off

Logbook entry: /CALICEelog/data/2006/34/26.08

20 GeV data taking

beam parameter settings for 20 GeV electrons, using file H6B.598
10x10 trigger rate 790 ev/spill with 20e11 p @ T4
100x100 coincidence 300 ev/spill

stopped after 9'800 triggers as the beam went off due to kicker problems

Logbook entry: /CALICEelog/data/2006/34/26.08

20 GeV data taking (accidentally started wrong runtype)

beam parameter settings for 20 GeV electrons, using file H6B.598
10x10 trigger rate 790 ev/spill with 20e11 p @ T4

accidentally started wrong runtype, stopped after a few minutes

Logbook entry: /CALICEelog/data/2006/34/26.08

40 GeV data taking

beam parameter settings for 40 GeV electrons, using file H6B.396
10x10 trigger rate 4000 ev/spill with 20e11 p @ T4
100x100 coincidence 460 ev/spill

stopped after 144'000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08

noise analysis run

Logbook entry: /CALICEelog/data/2006/34/26.08
we closed the beam shutter
and are taking an ahcPmNoise without spill synchronisation to compare the noise with the
data taking
noise

300211 ahcPmNoise -d 40 GeV electrons

stopped after 50,000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 Beni DAC reload
did a DAC reload to check for changes in the noise
no changes in the currents (less than 1 µA and no trend)
The RELOAD HCAL DAQ SETTINGS, which by the way is a reload of DAC settings ;), button
starts a run
which is written to disk. So this gives:

300209 ahcDacScan

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 Beni 45 GeV data taking
beam parameter settings for 45 GeV electrons, using file H6B.395
10x10 trigger rate 7500 ev/spill with 20 cells p @ T4

300208 beamData -d -m 1 -v 26 45 GeV electrons

stopped after 266,000 triggers

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 Beni slowcontrol gui bug
It looks like some channels cannot be displayed in the plot versus time. I enabled 6 but
only 4 are displayed. Looks like there are some missing channels for panel HV 1 - 20, too.

Is this already reported to Sven?
26.08.2006 01:44 caliceon@calicehcalsc02.cern.ch (CALICE user) unexpected HCAL noise level (cont.)

actual HV currents

26.08.2006 01:20 Beni unexpected HCAL noise level

We observe in average 20 hits per event in the HCAL. The reconstructed energy shows a peak around 20 MIPs.

The HV currents are all like earlier this day.

For details see the plots in the ps file.

Logbook entry: /CALICEelog/data/2006/34/26.08

26.08.2006 01:09 Beni 30 GeV data taking
beam setup for 30GeV electrons
beam-file H6B.397
10x10 trigger rate 1400 ev/spill with 20e11 p @ T4
300207 beamData -d -m 1 -v 26 30 GeV electrons
stopped after 250'000 triggers

Logbook entry: CALICE eLogbook/data/2006/34/26.08
26.08.2006 00:23 Beni beam setting studies
beam setup (Goetz is the responsible scientist at the moment)
doing some collimator studies @20 GeV to get a reasonable trigger rate
starting with settings from beam-file H6B.398
10x10 trigger shows a rate of 500 ev/spill with 20e11 protons @ target T4
took reference run for this setting
300208 beamData -d -m 1 -v 26,20 GeV electrons
opening collimator 3 from 3mm to 4mm (sym)
10x10 trigger shows a rate of 660 ev/spill with 20e11 protons @ target T4
300209 beamData -d -m 1 -v 26,20 GeV electrons corrupt
opening collimator 8 from 3mm to 4mm (sym)
opening collimator 8 - 4mm and +5mm
10x10 trigger shows a rate of 1500 ev/spill with 20e11 protons @ target T4
300210 beamData -d -m 1 -v 26,20 GeV electrons
the final data acquisition rate is 33Hz but the beam is already fairly wide spread
Goetz decides to change the energy to get a reasonable rate with good beam conditions

Logbook entry: CALICE eLogbook/data/2006/34/26.08
26.08.2006 00:00 caliceon@calicehcalsc02.cern.ch (CALICE user) shift start
people on duty
Goetz Gayken (shiftleader, ECAL)
Vladislav Balagura (online analysis, beam steering)
Beni Lutz (elog, DAQ steering, HCAL slowcontrol)

Logbook entry: CALICE eLogbook/data/2006/34/25.08
25.08.2006 23:00 Marius CMB lost voltage
Unfortunately three CMB (layer 8,14,15) went off after we started to collect beam data
=> these are again the three channels which had problems already at the start of the testbeam
at CERN... but they have shown no problems during the calibration period (cmb 15 has blown one fuse during debugging with Ivo last week). All three channels were already equipped with 2A fuses.
=> we have to wait for a possibility to make a key access to replace the fuses

Logbook entry: CALICE eLogbook/data/2006/34/25.08
25.08.2006 19:58 Beam parameters tuning
all beam file names will be indicated with the extention number as from the control room beam terminal (H6B.XXX)
300187 beamData -m 1 -v26 -50 GeV secondary/No abs H6B.095
300187 beamData -m 1 -v26 -40 GeV secondary/No abs 096
300188 beamData -m 1 -v26 -60 GeV secondary/No abs 097
From vito counter we observe almost no double particles
300189 beamData -m 1 -v26 -30 GeV secondary/No abs 098
Cher. P=70 mBar
Logbook entry: /CALICEelog/data/2006/34/25.08
25.08.2006 19:52  
Collimator tuning

- Cherenkov pressure set: 100 mBar  
- CMB layers 8, 14, 15 are off for all these runs (possible fuse blown, need access to check)

<table>
<thead>
<tr>
<th>Run</th>
<th>Beam Data</th>
<th>Energy</th>
<th>Target</th>
<th>Lead Absorption</th>
</tr>
</thead>
<tbody>
<tr>
<td>300192</td>
<td>-m 1 -v26 -30GeV secondary/No abs</td>
<td>098</td>
<td>tertiary/No abs/6mm lead</td>
<td>target/electrons</td>
</tr>
<tr>
<td>300193</td>
<td>-m 1 -v26 -80GeV secondary/No abs</td>
<td>099</td>
<td>extrapolated to -40GeV tertiary/No abs/3mm lead</td>
<td>target/electrons</td>
</tr>
<tr>
<td>300194</td>
<td>-m 1 -v26 -50GeV</td>
<td>095</td>
<td>extrapolated to -150GeV tertiary/No abs/3.5mm lead</td>
<td>target/electrons</td>
</tr>
<tr>
<td>300195</td>
<td>-m 1 -v26 -80GeV</td>
<td>099</td>
<td>same as 300198</td>
<td>open collimators</td>
</tr>
<tr>
<td>300196</td>
<td>-m 1 -v26 -50GeV</td>
<td>095</td>
<td>extrapolated to -150GeV tertiary/No abs/3.5mm lead</td>
<td>target/electrons</td>
</tr>
<tr>
<td>300197</td>
<td>-m 1 -v26 -80GeV</td>
<td>099</td>
<td>extrapolated to -150GeV tertiary/No abs/3.5mm lead</td>
<td>target/electrons</td>
</tr>
<tr>
<td>300198</td>
<td>-m 1 -v26 -50GeV</td>
<td>098</td>
<td>extrapolated to -150GeV tertiary/No abs/3.5mm lead</td>
<td>target/electrons</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/34/25.08
25.08.2006 19:07  
daq bad readout

Roman has detected bad readouts of the DAQ since we are working with the new firmware for the tail catcher in the AHCAL crate, slot 12. 

*Pauls check program shows for the run 300161:
- 21 bad readouts in the BE
- 20 bad readouts in the FE2
the Vlink verify shows 23 bad readouts

Roman has verified the same order of magnitude of errors. Roman is flagging these events and all events which were collected before this error has occurred. Paul says that also the events which have been collected after this bad part of the acquisition until the acquisition end have to be flagged as well, because they are not synchronised anymore. This error seems to be limited to the ahcal crate, slot 12, fe 2. Slot 12 is the only 12 slot which is using the new firmware for the tail catcher & fe 2 is the only used frontend.

Since the change back to the old firmware would mean the loss of the tail catcher led monitoring and due to the fact that these bad readouts do not seem to effect the ECAL & the AHCAL frontends we have decided to live with this feature during this run period.

Logbook entry: /CALICEelog/data/2006/34/25.08
25.08.2006 18:32  
SPS problems & tail catcher led runs

The SPS has unfortunately some problems to start up again after the machine development. We have done some led tuning runs for the tailcatcher

<table>
<thead>
<tr>
<th>Run</th>
<th>ahcFmNoise</th>
<th>all detectors on</th>
</tr>
</thead>
<tbody>
<tr>
<td>300177</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300178</td>
<td>ahcCmLedVcalibScan</td>
<td>garbage</td>
</tr>
<tr>
<td>300179</td>
<td>ahcCmLedVcalibScan</td>
<td>-v 2</td>
</tr>
</tbody>
</table>
new AHC.cfg due to vcalib setting changes in the tailcatcher frontend:
filename: AHC_CERN_250806_300182_320545.cfg

1. AHC.cfg
2.
3. in this file you have to specify which configuration file should be used for which frontend
5.
6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

7.
8.
5 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
5 1 AHCAL DAC_module04.dat 60 32 13 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 18 41800 46000
5 3 AHCAL DAC_module03.dat 62 34 12 42000 46000
5 4 AHCAL DAC_module05.dat 68 38 13 42000 46000
5 5 AHCAL DAC_module06.dat 64 34 16 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 16 42000 46000
9 1 AHCAL DAC_module09.dat 67 34 15 42000 46000
9 2 AHCAL DAC_module11.dat 66 34 14 42000 46000
9 4 AHCAL DAC_module13.dat 69 35 18 42000 46000
9 5 AHCAL DAC_module02.dat 65 35 13 42000 46000
9 7 AHCAL DAC_module14.dat 63 31 14 42000 46000
15 1 AHCAL DAC_module10.dat 67 35 14 42000 46000
15 2 AHCAL DAC_module15.dat 70 39 12 42000 46000
15 5 AHCAL DAC_module08.dat 66 32 19 42000 46000
15 3 PIN 50
15 0 PMT 1
12 2 TCMT DAC_tcmt.dat 46 19 14 10000 10000
1. end of AHC.cfg file

some small changes in the tailcatcher frontend configurations as well
standard for ahcCmLedVcalibScan (12 configuration):
CMvcalibvalue_from_AHC.cfg + 1000 - ( _configurationNumber * 50 ));
standard for ahcCmLedVcalibScan (42 configuration):
CMvcalibvalue_from_AHC.cfg + 1000 - ( _configurationNumber * 50 ));
ahcGain (6 configuration):
int vcalib[6]={+1000,-100,-50,0,50,100};
CMvcalibvalue_from_AHC.cfg + vcalib[_configurationNumber]);

Logbook entry: /CALICEelog/data/2006/34/25.08
25.08.2006 15:03 current increase

2 channels show increase of current in time. check cause.
Logbook entry: http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... CALICE eLogbook

25.08.2006 10:24

currents at start run period

channels 16 A and B are the TCMC

Logbook entry: /CALICEelog/data/2006/34/25.08

25.08.2006 09:39

Marius

getting ready for the beam

new AHC.cfg file: AHC_CERN_250806_300173_320545.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM
and some LED calibration:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Configurations</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>300173</td>
<td>ahcCmLedVcalibScan</td>
<td>12</td>
<td>-1000, -500, 0, 250, 500, 1000, 1250, 1500, 1750, 2000, 2500</td>
</tr>
<tr>
<td>300174</td>
<td>ahcPmLedVcalibScan</td>
<td>42</td>
<td>-1000, -500, 0, 250, 500, 1000, 1250, 1500, 1750, 2000, 2500</td>
</tr>
</tbody>
</table>

We have created a new RunType: ahcGain:

-6 configuration per 20000
-We take the cm vcalib value specified in AHC.cfg
-vcalib configurations setting: -1000 (pedestal), -500, 0, 250, 500, 1000, 1250, 1500, 1750, 2000, 2500

We have introduced a new scanning scheme in the two vcalibscans:

ahcCmLedVcalibScan:
-12 configuration per 2000
-We take the cm vcalib value specified in AHC.cfg
-vcalib configurations setting: -1000 (pedestal), -500, 0, 250, 500, 1000, 1250, 1500, 1750, 2000, 2500

ahcPmLedVcalibScan:
-42 configuration per 1000
-We take the cm vcalib value specified in AHC.cfg
-vcalib configurations setting: -1000 (pedestal), -500, 0, 250, 500, 1000, 1250, 1500, 1750, 2000, 2500

then we go for 20 configurations in 500 vcalib steps
then we go for 10 configurations in 1000 vcalib steps
24.08.2006 09:18  
Erika  
new AHC.cfg

filename: AHC_CERN_240806_300166_320522.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM
   Vcalib_PM

5. 

6. 5
5 0 AHCAL DAC_module01.dat 67 35 10 46250 50000
5 1 AHCAL DAC_module04.dat 60 32 5 42000 46000
5 2 AHCAL DAC_module02.dat 68 34 10 41800 46000
5 3 AHCAL DAC_module03.dat 62 34 4 42000 46000
5 4 AHCAL DAC_module05.dat 68 38 5 42000 46000
5 5 AHCAL DAC_module06.dat 64 34 8 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 8 42000 46000
5 7 AHCAL DAC_module08.dat 67 34 7 42000 46000
5 8 AHCAL DAC_module11.dat 66 34 6 42000 46000
5 9 AHCAL DAC_module13.dat 69 35 10 42000 46000
5 AHCAL DAC_module02.dat 65 35 5 42000 46000
5 AHCAL DAC_module12.dat 68 34 4 42000 46000
15 1 AHCAL DAC_module10.dat 67 35 6 42000 46000
15 2 AHCAL DAC_module15.dat 70 39 4 42000 46000
15 3 AHCAL DAC_module08.dat 66 31 11 42000 46000
15 4 PIN 50
15 5 PMT 0
12 2 TCMT DAC_tcmt.dat 46 19 6 11200 10000
1. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/34/24.08
24.08.2006 01:49  
Tidying up the chaos

Dear Colleagues,

thanks for reporting problems encountered with the conversion during my absence and sorry for the confusion it might have created.

The chaos was caused by a bug in the script which takes care that the disk of ilc-log01 is not running full. Therefore parts of the converted files ended up in the v0401 directory while other parts ended up on v0402 where they belonged to.

I have now moved all files which belong to v0402 to the directory /pnfs/desy.de/calice/tb-cern/raw/conv_v0402

This concerns Run

>=300135 for combined runs
>=320422 for hcal runs
>=310023 for ecal runs

That said you will find also a few runs with smaller runnumbers in that directory. These are old runs which were copied to desy by Marius (who cleaned up the local disks at CERN) *after* the converter version v0402 has been released.

The failures of the conversion script(s) were caused a) by a problem during the copying of data to the dcache b) unknown but most likely since the disk on ilc-log01 was full due to the bug in the script.

I have restarted the scripts (including the 'check' script) and the conversion resumed smoothly. Since obviously the data taking at CERN has slowed down a bit all runs should be converted by tomorrow (today) noon.

If you encounter problems or have questions please don't hesitate to report/ask.

Thanks once more and cheers,

Roman

Logbook entry: /CALICEelog/data/2006/34/23.08
23.08.2006 14:21  
Doerte David  
assembling status
The parcel with tiles for 2,5 module (no. 21, 22 and 16) was delivered to DESY at 21st of August.

In future there might be difficulties in the shared use of the machine for stripping the coax cable. The group which is the owner of the machine will use it more often then in the last months (for the project PETRA III). We are looking for a solution. For cassette no. 20 we may use the machine just in time.

cassettes to be repaired: 16

cassettes in progress: 20

cassettes ready, at DESY test beam: 16 - 18

cassettes at CERN test beam: 1 - 15

Logbook entry: /CALICEelog/data/2006/34/22.08

22.08.2006 19:53 Erika: muon run

300159 garbage
300160 garbage
300161-163 beamData -v 19 -m 1 moun run for TCMC calibration

all detectors on: ECAL, HCAL, TCMC, DC

Logbook entry: /CALICEelog/data/2006/34/22.08

22.08.2006 17:59 Erika: change in 100x100 trigger counters

1 muon counter moved behind TCMC.
2 m cable length add to both counters.
increased voltage of the back trigger:
ch 0 2150 V
ch 1 1800 V

Logbook entry: /CALICEelog/data/2006/34/22.08

22.08.2006 00:44 Beni: Run320517

520517-320518 beamData -m 1 -v 19 -n 0 -e 1000000 muon tailcatcher + ahcal muon run
Logbook entry: CALICEelog/data/2006/34/22.08
22.08.2006 Beni new AHC.cfg

00:41
Setting up AHC.cfg for combined TCMT and AHCAL muon data taking

new file: AHC.cfg -> ../data00/config/ahcal/AHC_CERN_220806_300159_320517.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

5. 6.

5 0 AHCAL DAC_module01.dat 67 35 10 46250 50000
5 1 AHCAL DAC_module04.dat 60 32 5 42000 46000
5 2 AHCAL DAC_module12.dat 68 34 10 41800 46000
5 3 AHCAL DAC_module03.dat 62 34 4 42000 46000
5 4 AHCAL DAC_module05.dat 68 38 5 42000 46000
5 5 AHCAL DAC_module06.dat 64 34 8 42000 46000
5 6 AHCAL DAC_module07.dat 62 31 8 42000 46000
5 7 AHCAL DAC_module09.dat 67 34 7 42000 46000
5 8 AHCAL DAC_module11.dat 66 34 6 42000 46000
5 9 AHCAL DAC_module13.dat 69 35 9 42000 46000
5 10 AHCAL DAC_module02.dat 65 35 5 42000 46000
5 11 AHCAL DAC_module14.dat 63 31 6 42000 46000
5 12 AHCAL DAC_module10.dat 67 35 5 42000 46000
5 13 AHCAL DAC_module15.dat 70 39 6 42000 46000
5 14 AHCAL DAC_module08.dat 66 32 11 42000 46000
5 15 PIN 50
5 16 PMT 0
12 2 TCMT DAC_tcmt.dat 46 19 6 11200 10000
1. end of AHC.cfg file

Logbook entry: CALICEelog/data/2006/34/21.08
21.08.2006 Marius TC holdscan
18:30
$20516 beamHoldScan -m 1 -v 26 tailcatcher holdscan

Logbook entry: CALICEelog/data/2006/34/21.08
21.08.2006 Groll new AHC.cfg
18:00
short AHCAL run period
=> new AHC.cfg file
filename: AHC_CERN_210806_300159_320516.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

5. 6.

12 2 TCMT DAC_tcmt.dat 46 19 10 11200 10000
1. end of AHC.cfg file

Logbook entry: CALICEelog/data/2006/34/21.08
21.08.2006 caliceon@calicehcalsc02.cern.ch (CALICE user)
17:02
LED run for pedestal study
pedestal check for high signal amplitude
$320516 ahcPmLed -e 10000
$320515 ahcPmLed -e 10000
LED controlled by slowcontrol for CMB 6 (amplitude DAC: 210)
Logbook entry: /CALICEelog/data/2006/34/21.08
21.08.2006 17:00 Marius
new AHC.cfg
short AHCAL run period
=> new AHC.cfg file
filename: AHC_CERN_210806_300159_320513.cfg

1. AHC.cfg
2.
3. in this file you have to specify which
4. configuration file should be used for which frontend
5.
6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

7.
8.
9 1 AHCAL DAC_module09.dat 67 34 7 42000 46000
9 2 AHCAL DAC_module11.dat 66 34 6 42000 46000
9 4 AHCAL DAC_module13.dat 69 35 10 42000 46000
9 5 AHCAL DAC_module02.dat 65 35 5 42000 46000
15 1 AHCAL DAC_module10.dat 67 35 6 42000 46000
15 4 AHCAL DAC_module15.dat 70 39 4 42000 46000
15 5 AHCAL DAC_module08.dat 66 32 11 42000 46000
15 3 PIN 50
15 0 PMT 0
12 2 TCMT DAC tcmt.dat 10 20 10 11175 11175
1. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/34/21.08
21.08.2006 12:13 Marius
VFE DAC
310025 emcVfeDacScan -v 255

Logbook entry: /CALICEelog/data/2006/34/21.08
21.08.2006 11:23 Beni
new AHC.cfg
TailCatcher debug run
new AHC.cfg necessary
actual file: /data00/cfg/ahcal/AHC_CERN_210806_300159_320502.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM
Vcalib_PM
5. 12 2 TCMT DAC_tcm.dat 10 20 10 11175 11175
6. end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/33/19.08
20.08.2006 15:28 Marius
DAC noise check

Logbook entry: /CALICEelog/data/2006/33/18.08
18.08.2006 19:55 Ivo Polak
CMB3 for Module 15 repaired
I have made exchanging of semi-destroyed LVDS receiver (T-calib) on CMB3.
It is back in original position, so all the CMBs are ready, since today
Friday 18:15 local time.

Logbook entry: /CALICEelog/data/2006/33/18.08
18.08.2006 05:39
New version of converter + instructions
Dear Colleagues,
as you have seen there has been a new software release this night.
Data are now converted with the version v04-02.
To provide conversion during my few days of vacancy please do the
following
I) Converter
1) check from time to time on ilc-log01
type ps aux | grep perl
if you see something similar to the following be happy

```
[ilc-log01] /scratch/conv_log $ ps  aux | grep perl
caliceon 15326  0.0  0.3  3716 2028 pts/2    S    04:59   0:00
/usr/bin/perl -w /scratch/conv_cern2/ilcFileCopy_cern2.pl
caliceon 15404  0.0  0.3  3724 2028 pts/2    S    05:02   0:00
/usr/bin/perl -w /scratch/conv_cern/ilcFileCopy_cern.pl
caliceon 15428  0.0  0.3  3452 1712 pts/2    S    05:03   0:00
/usr/bin/perl -w /scratch/copy_test/cp_slcio.pl
caliceon 15826  0.0  0.0  1608  472 pts/2    S    05:21   0:00 grep perl
if ilcFileCopy_cern.pl is missing try to restart it
> cd /scratch/conv_cern
> nohup ./ilcFileCopy_cern.pl&
if ilcFileCopy_cern2.pl is missing try to restart it
> cd /scratch/conv_cern2
> nohup ./ilcFileCopy_cern2.pl&
if cp_slcio.pl is missing try to restart it
> cd /scratch/copy_test/
> nohup cp_slcio.pl&
The first two ones perform the conversion
The last one is important since it prevents the disk on ilc-log01
from running full. Try to find out at which run the converter scripts
stopped (and maybe why) by looking either into the nohup.out files
or the logoutput in /scratch/conv_log.
After restart the conversion will resume
with the run after the one on which it has stopped. I will recover
fragmented run when I will be back on next thursday.
```
II) Copying to DESY

If the copying from cern to desy has a problem on copying a given run do the following

  1) kill the cp script(s)
  2) try to find out at which run it failed
  3) cd /home/caliceon/bin
  4) . ./grid_env.sh
  5) lfc-ls -l /grid/calice/tb-cern/native/dat/ | grep Run<yourrun>
and then try to remove all existing files one after the other with
  6) lcg-del --vo calice -a
     /grid/calice/tb-cern/native/dat/Run<yourrun>.nnn.bin
  7) restart the scripts

If it still doesn't work try to contact Andreas Gellrich (2732) or Christoph Wissing (4122) at DESY for assistance.

I hope that you don't have to make use of the troubleshooting.

All the best,
Roman

Logbook entry: CALICEelog/data/2006/33/17.08

17.08.2006 08:56  Doerte David  assembling status

cassettes to be repaired: 16

cassettes work in progress: 19

cassettes ready: 17

cassettes at DESY test beam: 18

cassettes at CERN test beam: 1 - 15

Logbook entry: CALICEelog/data/2006/33/17.08

17.08.2006 08:05  Marius  Data taking stopped

Beam is off, interlock broken and access to area was granted
=> installation period has started:
tasks:
- install & integrate the tailcatcher
- daq firmware update
- hcal cmb replacement in the last layer
- try to find a solution for the ecal sc recovery without using a key access

Logbook entry: CALICEelog/data/2006/33/16.08
**16.08.2006**  
00:08 Marius

**lightyield scan over night**

300142-300146 beamData -m 1 -v 19 -n 0 -e 1000000  
**Calibration at higher HV**

01:45 300142 is a good run: beam is continuous present, already half a million muon recorded...

10:15 stopped

change AHCAL HV setting to nominal - 0.3 V to get a third point for the lightyield comparison:

filename: nominal-0.3V.txt

<table>
<thead>
<tr>
<th>#</th>
<th>HV</th>
<th>maxVoltage</th>
<th>maxCurrent</th>
<th>initVoltage</th>
<th>comment</th>
<th>measuredCurrent</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>65.30</td>
<td>100</td>
<td>12.00</td>
<td>mod 1a</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>66.70</td>
<td>100</td>
<td>10.00</td>
<td>mod 1b</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>40.00</td>
<td>100</td>
<td>10.00</td>
<td>mod 15a</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>41.80</td>
<td>200</td>
<td>9.40</td>
<td>mod 15b</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>39.70</td>
<td>100</td>
<td>10.00</td>
<td>mod 12a</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>0.00</td>
<td>0</td>
<td>0.00</td>
<td>free</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>39.50</td>
<td>390</td>
<td>10.00</td>
<td>mod 3a,4a,4b,11a,12b</td>
<td>299</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>36.80</td>
<td>100</td>
<td>10.00</td>
<td>mod 3b</td>
<td>45</td>
<td></td>
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<td>9</td>
<td>68.60</td>
<td>100</td>
<td>10.00</td>
<td>mod 5a</td>
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<td>10</td>
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<td>100</td>
<td>10.00</td>
<td>mod 5b</td>
<td>63</td>
<td></td>
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<td>11</td>
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<td>100</td>
<td>10.00</td>
<td>mod 6a</td>
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</tr>
<tr>
<td>12</td>
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<td>100</td>
<td>10.00</td>
<td>mod 6b</td>
<td>50</td>
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<td>13</td>
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<td>mod 7a</td>
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<td></td>
</tr>
<tr>
<td>14</td>
<td>0.00</td>
<td>0</td>
<td>0.00</td>
<td>free</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>42.10</td>
<td>100</td>
<td>10.00</td>
<td>mod 8a</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>42.20</td>
<td>100</td>
<td>10.00</td>
<td>mod 8b</td>
<td>57</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>41.40</td>
<td>380</td>
<td>10.00</td>
<td>mod 9a,9b,7b,10b,14a</td>
<td>284</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>40.50</td>
<td>100</td>
<td>10.00</td>
<td>mod 14b</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>44.30</td>
<td>100</td>
<td>10.00</td>
<td>mod 10a</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>44.50</td>
<td>120</td>
<td>10.00</td>
<td>mod 11b</td>
<td>107</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>40.10</td>
<td>100</td>
<td>10.00</td>
<td>mod 13a</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>40.00</td>
<td>100</td>
<td>10.00</td>
<td>mod 13b</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>66.40</td>
<td>190</td>
<td>10.00</td>
<td>mod 2a</td>
<td>170</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>64.10</td>
<td>100</td>
<td>10.00</td>
<td>mod 2b</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

-in principle the led runs for this HV setting are already taken last week, but I will try to take them again whenever the beam is gone

300147-300149 beamData -m 1 -v 19 -n 0 -e 1000000  
**Calibration at lower HV**

beam gone due to CERF access

300150 ahcCmLedVcalibScan -m 1 gain calibration & intercalibration

The ECAL SC usb/gpib communication has failed:  
=> restart & reboot did not help  
=> access to the area was necessary, therefore we have continued with led data  
=> after power reset of the usb device inside of the area the ECAL SC system is working again

When the first led run is done & the CERF access is finished we change back to mun calibration data.

300151 ahcPmLedVcalibScan -m 1 Intercalibration  
300152 ahcPmLedVcalibScan -m 1 Intercalibration

15:00 CERF access finished:

300153-300156 beamData -m 1 -v 19 -n 0 -e 1000000  
**Calibration at lower HV**

---

**Logbook entry:** [CALICEelog/data/2006/33/15.08](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&logbook= CALICE eLogbook)  

**15.08.2006**  
21:24 Marius

**AHCAL VFE electronic monitoring**

320422 no useful data

320423 ahcCmAsicHoldScan -v 255 determination of hold for the internal charge injection  
=> 11 ticks

320424 ahcPmAsicHoldScan -v 255 determination of hold for the internal charge injection  
=> 70 ticks

320425 ahcCmAsicVcalibScan -v 255 check
Hi Folks,

I must admit that I have certain problems with the conversion of the mega runs 300115 and 300118 (in particular Run 300115 seems to be a bi...).

Run 300115 has been converted up to the 77th file (of 100) and the lcio files are available in the dcache (up to Run300115.052.slcio). At one point this morning the staging from dcache had a problem and the conversion job died.

In order to prevent the disk on ilc-log01 from running full. I have written a small script which copies completed lcio files to the dcache while the run is being processed. Due to an initial bug in the script I have deleted files Run300115.040.slcio and Run300114.041.slcio, so they are missing in the collection of the lcio files of that run.

Run300118 is progressively converted and ready up to Run300118.020.slcio (and counting).

All files which are there *are* ready for analysis, it is already quite a chunk.

Conversion will resume with run 300119 and should keep up with data taking within the next 24 hours.

I will continue the battle with run 300115 (and I will win) and complete this run.

Sorry for the inconvenience,

Roman

---

Logbook entry: /CALICEelog/data/2006/33/15.08

**15.08.2006**

**15:44**

Roman

Converted Runs

Hi Folks,

I must admit that I have certain problems with the conversion of the mega runs 300115 and 300118 (in particular Run 300115 seems to be a bi...).

Run 300115 has been converted up to the 77th file (of 100) and the lcio files are available in the dcache (up to Run300115.052.slcio). At one point this morning the staging from dcache had a problem and the conversion job died.

In order to prevent the disk on ilc-log01 from running full. I have written a small script which copies completed lcio files to the dcache while the run is being processed. Due to an initial bug in the script I have deleted files Run300115.040.slcio and Run300114.041.slcio, so they are missing in the collection of the lcio files of that run.

Run300118 is progressively converted and ready up to Run300118.020.slcio (and counting).

All files which are there *are* ready for analysis, it is already quite a chunk.

Conversion will resume with run 300119 and should keep up with data taking within the next 24 hours.

I will continue the battle with run 300115 (and I will win) and complete this run.

Sorry for the inconvenience,

Roman

---

Logbook entry: /CALICEelog/data/2006/33/15.08

**15.08.2006**

**13:47**

Marius

AHCAL new HV setting

increase of each HV channel by 0.3 V, because the Mic efficiency in a lot of channels is too low!

This is in principle against the logic, because we are at higher temperature than at ITEP, where the voltage point was optimised.

=> light yield comparison needed

filename: nominal+0.3V.txt

<table>
<thead>
<tr>
<th>HV #</th>
<th>maxVoltage</th>
<th>maxCurrent</th>
<th>initVoltage</th>
<th>comment</th>
<th>measured</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>65.90</td>
<td>100</td>
<td>12.00</td>
<td>mod 1a</td>
<td>68</td>
</tr>
<tr>
<td>2</td>
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<td>100</td>
<td>10.00</td>
<td>mod 1b</td>
<td>101</td>
</tr>
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<td>10.00</td>
<td>mod 15a</td>
<td>75</td>
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<td>mod 15b</td>
<td>83</td>
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<tr>
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<td>10.00</td>
<td>mod 12a</td>
<td>64</td>
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<td>0.00</td>
<td>0</td>
<td>0.00</td>
<td>free</td>
<td>0</td>
</tr>
<tr>
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<td>69.20</td>
<td>100</td>
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<td>mod 5a</td>
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<td>10</td>
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<td>100</td>
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<td>mod 5b</td>
<td>91</td>
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<td>100</td>
<td>10.00</td>
<td>mod 6a</td>
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<td>76</td>
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<td>mod 7a</td>
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<td>mod 8a</td>
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<td>mod 8b</td>
<td>80</td>
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<td>71</td>
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<td>mod 11b</td>
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<td>mod 13b</td>
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<tr>
<td>23</td>
<td>67.00</td>
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<td>10.00</td>
<td>mod 2a</td>
<td>230</td>
</tr>
</tbody>
</table>
### Logbook entry: /CALICEelog/data/2006/33/15.08

**15.08.2006 00:49 Marius**

**Muon calibration**

<table>
<thead>
<tr>
<th>Command</th>
<th>Arguments</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ahcCmLedVcalibScan</td>
<td>-m 1</td>
<td>30 configurations with 50000 evt / gain &amp; intercalibration</td>
</tr>
<tr>
<td>ahcPmLedVcalibScab</td>
<td>-m 1</td>
<td>35 configurations with 10000 evt for intercalibration</td>
</tr>
<tr>
<td>ahcPmNoise</td>
<td>-m 1 -e 25000</td>
<td></td>
</tr>
<tr>
<td>beamData</td>
<td>-m 1 -v 19 -n 0 -e 1000000</td>
<td>Muon calibration at higher HV</td>
</tr>
</tbody>
</table>

Run stopped; long CERF access... not a good sample due to too many interruptions.

---

### Logbook entry: /CALICEelog/data/2006/33/14.08

**14.08.2006 23:59 Marius**

**Plot of the day**

Run 300130: holdScan = changing the hold value in time

- x-axis = time of running
- y-axis = complete AHCAL amplitude

(lower values belong to pedestal events)

---

### hCalEnergyVsTime

<table>
<thead>
<tr>
<th>Entries</th>
<th>1771654</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>1.22e+04</td>
</tr>
<tr>
<td>Mean y</td>
<td>25.51</td>
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<tr>
<td>RMS</td>
<td>6399</td>
</tr>
<tr>
<td>RMS y</td>
<td>28.71</td>
</tr>
</tbody>
</table>

AHCAL led monitoring point comparison
Typical monitoring amplitude until run 130129 (this is run 130125).

**Remarks:**
- ADC value is not pedestal subtracted
- layer 15 is off

Let's calculate the monitoring point:
average amplitude in ADC / average MIP amplitude in ADC = average amplitude in MIP

\[(16000 - 1000) / 250 = 60\]

\[\Rightarrow\] around 60 MIPS

\[\Rightarrow\] quite high amplitude

---

**Logbook entry:** [CALICEelog/data/2006/33/14.08](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)

14.08.2006 23:59 Marius

New AHCAL led monitoring comparison

Run 300130

Let's calculate the monitoring point:
average amplitude in ADC / average MIP amplitude in ADC = average amplitude in MIP

\[(9000 - 1000) / 250 = 28\]

\[\Rightarrow\] around 30 MIPS

\[\Rightarrow\] amplitude reduced by factor 2
Logbook entry: CASAELogBook/data/2006/33/14.08
14.08.2006 17:20 Marius
hold scan

300130 beamHoldScan -m 1 -v 26 crosscheck of the hold values with a more detailed scan
--last layer of the ECAL was during the first hold cycle noisy

23:30 Paul called in: he will include the option for splitting a run in many small ones
Afterwards he will start a beamData run: trigger 100x100;
I have prepared a new AHC.cfg file for this:
AHC_CERN_140806_300131_320421.cfg
--reduced hold by 8 ticks
--include the new led monitoring points
I will send Paul an email to reduce also the ECAL hold value

Logbook entry: CASAELogBook/data/2006/33/14.08
14.08.2006 14:39 Marius
new vcalib for PM monitoring

Nanda & Sebastian suggest to use for all modules a vcalib of 46000.. only module 1 stays for the moment unchanged at 53000

New AHC.cfg:
AHC_CERN_140806_300129_320421.cfg
--standard external hold like in AHC_CERN_030806_300015_320403.cfg
--adjusted PM vcalib

Also the ECAL is back at its standard hold value of 4 ticks.

Logbook entry: CASAELogBook/data/2006/32/13.08
14.08.2006 11:41
Two converters

Hi there,
as proposed by Sebastian and in order to speed up the conversion I have launched a second converter on ilc-log01 at desy.

I will disable the second one as soon as the conversion has kept up with the data taking (Hopefully tomorrow at this time).

Roman

Logbook entry: CASAELogBook/data/2006/33/14.08
14.08.2006 11:01 Marius
DAQ multiple run test

runStart -t beamData -v 19 -m 1 -n 10 -e 100
300126 & 300127 beamData DAQ test: no useful data

DAQ hangs... I guess to failed daqrequest to the slow control respectively SPS database (see logfile Log1155546266.out_calice00) => there seems to be an endless loop going on => shutDown worked~
=> next try with increased event number
runStart -t beamData -v 19 -m 1 -n 10 -e 1000
300128 beamData DAQ test: no useful data
=> same effect like before; contact Paul

CERF has a long access... running without writing

Logbook entry: CASAELogBook/data/2006/33/14.08
14.08.2006
01:24 Marius

muon calibration over night

| 300124 beamData | -v 19 | muon calibration / reduced hold value: in total 8 ticks for AHCAL; 2 ticks for ECAL / debug | run/no useful data |
| 300125 beamData | -v 19 | muon calibration / reduced hold value: in total 8 ticks for AHCAL; 2 ticks for ECAL |

- last ECAL layer is noisy (10 noise hits/event)
- 9:00 noisy layer is gone
- 10:30 noisy layer is back... unstable behaviour

Run 300125 stopped after ~1.5 million of triggers; good beam over night; only problem is the last layer of ECAL

Logbook entry: /CALICEelog/data/2006/32/13.08

13.08.2006
22:29 Marius

continue entry:

this entry belongs to the entry before (does anybody knows how to put two pictures in one entry?)

It would be great if somebody can crosscheck this & maybe can try to extract some mip spectra in single channel... I guess the telescopic approach is needed...
This is important, because then we can decide how much calibration data we have still to take.

300115:
Logbook entry: /CALICElog/data/2006/32/13.08

13.08.2006  Marius
22:20

I had a fast look on the first 100000 events in the runs 300109(trigger 100x100) &
300115(trigger 20)
to see if we get muons in all channels.
It looks like.

300109:

Logbook entry: /CALICElog/data/2006/32/13.08

13.08.2006  Marius
16:20

300118 stopped due to SPS main power supply trip => beam gone;
- looks like that there was good beam over night: ~8 million triggers in total

use the time to prepare new AHC.cfg file with additional decreased hold values of 4 ticks:
AHC_CERN_130806_300119_320421.cfg
+ collect dedicated pedestal run
300119 ahcPmNoise.m1 -e 230000
+ collect led SiPM gain measurement
Logbook entry: /CALICEeLogbook/data/2006/32/12.08

12.08.2006 13:42 Marius

300116 beamData -v 19 muon calibration: test if the beam is usable again to trigger on 100x100

=> nice tracks in both detectors
=> get 1 million before changing the hold to get a sample for comparison

try to do now to collect the hold comparison dataset:
use new AHC.cfg: AHC_CERN_120806_300117_320421.cfg (same as AHC_CERN_110806_300114_320421.cfg)

15:00 CERF access... no beam
15:25 beam back & gone
16:05 now the beam is back & stable / the last hour of data was more pedestal than beam
19:30 run stopped: not of good quality; a lot of beam interruptions

300117 beamData -v 19 muon calibration: hold reduced by 4 ticks for AHCAL & by 2 ticks for the ECAL

Logbook entry: /CALICEeLogbook/data/2006/32/12.08

12.08.2006 11:34 Marius

Run #300115 stopped:
-6 million triggers
-beam was all night available
-ECAL & AHCAL running without problems: stable currents & noise looks good
-online monitor stopped after 2 million events (my failure: i have not changed the setting), but
  these look fine
=> huge amount of files (100)... copying has started
Logbook entry: /CALICEelog/data/2006/32/11.08
11.08.2006
20:03

300114 beamData -v 19 muon calibration adjusted hold values
stopped, because the beam conditions have changed; 25000 counts/s & the online displays show a lot of grep.

Due to very noisy events if triggering on the 100x100, change of strategy:
- use 20cm veto trigger
- use standard hold settings: use new AHC.cfg; AHC_CERN_110806_300115_320421.cfg (same as AHC_CERN_030806_300015_320403.cfg)

=> get a cleaner ECAL sample & also MIP values with a exactly known hold values
=> the hope is that maybe tomorrow the beam will be like most of the time today

300115 beamData -v 2 muon calibration / veto trigger used; no coincidence

Bit 25 is not set => change in online Monitor was necessary
22:42 No beam from CFS, Linac 2 problem no time estimate
22:43 beam is back

ECAL & AHCAL are behaving very good!
we got already 800000 triggers; nevertheless we let the run continuing over night

Logbook entry: /CALICEelog/data/2006/32/11.08
11.08.2006
19:51

Marius new hold settings

The hold values we are using have been measured for the 10x10 trigger. Now we are using the 100x100 trigger. We know from experience and from the BeTrgHistory that there are slower. The BeTrgHistory indicates an additional delay of 1-2 ticks a 25 ns. This would mean a change in the hold of 4-8 ticks.
The next run we will collect with these decreased hold values.

AHCAL:
For the AHCAL we have made a new AHC.cfg file:
AHC_CERN_110806_300114_320421.cfg

1. AHC.cfg
2. in this file you have to specify which
3. configuration file should be used for which frontend
4. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

5. 6.

5 0 AHCAL DAC_module01.dat 67 35 14 46250 53000
5 1 AHCAL DAC_module04.dat 60 32 9 42000 50000
5 2 AHCAL DAC_module12.dat 68 34 14 41800 50000
5 3 AHCAL DAC_module03.dat 62 34 8 42000 50000
5 4 AHCAL DAC_module05.dat 68 38 9 42000 50000
5 5 AHCAL DAC_module06.dat 64 34 12 42000 50000
5 6 AHCAL DAC_module07.dat 62 31 12 42000 50000
5 9 1 AHCAL DAC_module09.dat 67 34 11 42000 50000
5 9 2 AHCAL DAC_module11.dat 66 34 10 42000 50000
5 9 4 AHCAL DAC_module13.dat 69 35 14 42000 50000
5 9 5 AHCAL DAC_module02.dat 65 35 9 42000 50000
5 9 7 AHCAL DAC_module14.dat 63 31 10 42000 50000
5 15 1 AHCAL DAC_module10.dat 67 35 10 42000 50000
5 15 3 AHCAL DAC_module15.dat 70 39 8 42000 50000
5 15 5 AHCAL DAC_module08.dat 66 32 15 42000 50000
5 15 3 PIN 50
5 15 0 PMT 0
1. end of AHC.cfg file

where we have subtracted from each hold_ext value -4. For the veto PMT we have reduced the hold value from 1 to 0 ticks

ECAL:
we have done the following changes in EmcConfiguration.hh in the local inc directory around line 639 from
vFcd[0].data()->sequenceDelay(3)
to
vFcd[0].data()->sequenceDelay(1)
which corresponds only to the reduction of the hold value of 2 ticks.

Logbook entry: /CALICEelog/data/2006/32/11.08
11.08.2006  Marius
13:40
Muon calibration run 300112 stopped due to non stable beam...
Good trick!!! Beam is back!

Logbook entry: /CALICEelog/data/2006/32/11.08
11.08.2006  Goetz
11:49
ECAL SC
If there is a GPIB communication problem between the ECAL Slow control PC
and the power supplies, then we have followed this procedure:

1) stop, exit and restart the LabView program
2) If communication is still not established between the PC and the
   power supplies (red indicator on the left), then stop and exit the
   program again, unplug and replug the power cord of the USB hub which
   is situated in the test beam zone (if you have access) and try to
   reboot the PC.
3) If you do not have access to the area try to reboot without unplugging
   and replugging the power USB hub.
4) If the computer does not even reboot, then switch it off by
   pressing the power button for several seconds.

Of course 4) should be avoided if possible, but in not too rare
circumstances it seemed to be unavoidable.
Logbook entry: CALICEelog/data/2006/32/11.08  
11.08.2006  Marius  plan for muon calibration  

11:15  
Goetz has called in and has agreed on the data taking plan (trigger 100x100). If the AHCAL decides at a certain point that we have enough statistics he would like to have a one million sample taken with the 20x20, because for this we know the holdvalue exactly. For the 100x100 we only know that it fires most of the time one tick =25ns in the trigger history later. This means for the holdvalue a maximum difference of 4 ticks(1 tick = 6.25)  

Trigger counts:  
The random coincidences of the 100x100 trigger is: ~14 counts/s  
when there is muon beam it counts ~2800 counts/s  

Logbook entry: CALICEelog/data/2006/32/11.08  
11.08.2006  Marius  ECAL SC failed to work  

10:50  
Labview did not react anymore; it was not even possible to stop it from the taskmanager  
=> reboot solved the problem  

Logbook entry: CALICEelog/data/2006/32/11.08  
11.08.2006  Marius  muon calib status  

08:55  
Run #300109 stopped: 46 files collected with 3000000 triggers  
-from the online monitor it looks like that the AHCAL sees for more than 90% of the triggers a MIP;  
the ECAL only for ~ 10%  
-there were three short beam interruptions during the night  
-ECAL & AHCAL has run without problems  

<table>
<thead>
<tr>
<th>Beam Data</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 300109    | beamData -v 19 muon calibration   | AHCAL alone / ECAL had startup problems / short  
| 300111    | beamData -v 26 10x10              | Muon calibration: better sample for ECAL  

Run #300111 stopped, due to beam break & change of trigger; after discussion in the run meeting it was decided to use the 100x100 as a trigger => the ECAL has to look into the bits of the veto or 10x10 to get their tracks  

Logbook entry: CALICEelog/data/2006/32/10.08  
10.08.2006  Marius  assembling status  

21:20  
Run #300108 stopped: 46 files collected with 3000000 triggers  
-beam data -v 19 muon calibration / AHCAL alone / ECAL had startup problems / short  
ECAL has started => new run  

<table>
<thead>
<tr>
<th>Beam Data</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 300109    | beamData -v 19 muon calibration   | AHCAL alone / ECAL had startup problems  

Trigger 100x100: online display shows that there are particles which are not hitting the ECAL but the AHCAL  
-beam conditions:  
-there are different amounts of muons entering our area depending on the configuration the CERF  
-people are collecting data  
=> high rate (most of the time): 25000 counts per spill  
min rate: 1500 counts per spill  
=> leave oscillator for pedestal inside of the spill at 20Hz to get 1% of pedestal during the spill (at maximum muon rate) as well  

Logbook entry: CALICEelog/data/2006/32/10.08  
10.08.2006  Doerte David  assembling status  

09:00  
Cassette no. 18 is in the DESY test beam.  
Cassette no. 17 is ready for DESY test beam.  
Cassette no. 16 is prepared for exchange of tiles.
Even only the upper half of the cassette needs new tiles/SiPMs all temp.sensors, all
cables and all pads had to be taken off.
cassettes to be repaired:  16
cassettes ready:        17
cassettes at DESY test beam: 18
cassettes at CERN test beam: 1 - 15

Logbook entry: /CALICEelog/data/2006/32/10.08
08:47 Marius
300106 ahcFmNoise -e 25000
300107 ahcCmLedVcalibScan
320418 ahcCmLedVcalibScan
320419 ahcFmLedVcalibScan
configuration with 2000 events / CMB in layer 15 now
ON
configuration with 50000 events / CMB in layer 15 still
off
configuration with 2000 events

Logbook entry: /CALICEelog/data/2006/32/10.08
06:52 Goetz, Roman
electron runs
300099 beamData 26 30 electron short
300100 beamData 26 30 electron short
300101 beamData 26 20 electron good
300102 beamData 26 10 electron good
300103 beamData 26 10 electron good
300104 BeamData 26 40 electron pi 40k
300105 beamData 26 20 electron pi 25k
mostly electrons
Generally clean electron events slightly less clean at
low energies

Logbook entry: /CALICEelog/data/2006/32/09.08
04:47 Goetz, Roman
beam gone
Logbook entry: /CALICEelog/data/2006/32/09.08 10.08.2006 04:30 Goetz, Roman  
beam back
After several interlock problems were solved and finally air was replaced by Beryllium in T4 the beam was back.

Logbook entry: /CALICEelog/data/2006/32/10.08 10.08.2006 02:58 Goetz, Roman  
Runs taken
<table>
<thead>
<tr>
<th>beamData</th>
<th>v 26 m 1 +60GeV pi</th>
<th>no target no abs.</th>
<th>200k events</th>
</tr>
</thead>
<tbody>
<tr>
<td>beamData</td>
<td>v 26 m 1 +30GeV pi</td>
<td>no target no abs.</td>
<td></td>
</tr>
<tr>
<td>beamData</td>
<td>v 26 m 1 +30GeV/pi</td>
<td>as run 92</td>
<td></td>
</tr>
<tr>
<td>beamData</td>
<td>v 26 m 1 +30GeV</td>
<td>target=6mmPb no abs.</td>
<td>ecal went down</td>
</tr>
<tr>
<td>beamData</td>
<td>v 26 m 1 +30GeV</td>
<td>target=6mmPb no abs.</td>
<td>drift chamber trip noticed</td>
</tr>
</tbody>
</table>
300097-300098 no beam

Logbook entry: /CALICEelog/data/2006/32/09.08 10.08.2006 00:31 Goetz, Roman  
Problems with bending magnets
After the access to switch on the drift chambers which was granted by the control room, three bending magnets switched to standby. They could not be revived due to a veto. People of the control room are looking into the problem.

Logbook entry: /CALICEelog/data/2006/32/09.08 10.08.2006 00:14 Goetz, Roman  
Drift chambers tripped
All drift chambers were tripped.
Switched on again and checked HV of drift chambers and PM.

Logbook entry: /CALICEelog/data/2006/32/09.08 09.08.2006 23:34 Goetz, Roman  
Ecal went off
Ecal went off

Logbook entry: /CALICEelog/data/2006/32/09.08 09.08.2006 22:34 Erika  
Cherenkov in the trigger mask
the cherenkov bit has been had to the trigger readout in bit 14. The signal comes about 220-197=23 fifo ticks from the main trigger = 23*25ns.

Logbook entry: /CALICEelog/data/2006/32/09.08 09.08.2006 18:40 Erika  
Runs for physics
After last beam tuning from Ilias we get very nice beam, well collimated and with very good energy spread.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.08.2006</td>
<td>Erika</td>
<td>HCAL pedestal</td>
</tr>
<tr>
<td>11:37</td>
<td></td>
<td>during run 300016 we see a pedestal shift of -20 ADC ch in all modules.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>comparing ped run 320353 (ref) and 300051 (taken yesterday) no shift is observed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>suspicion: 300016 had very high intensity (&gt;10^5) beam, possible shift induced by high intensity beam?! we do not see the shift in the electron runs of last night with low intensity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>==&gt; to be confirmed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.08.2006</td>
<td>Goetz, Roman</td>
<td>QUAD 14/15/runs</td>
</tr>
<tr>
<td>07:56</td>
<td></td>
<td>Runs from QUAD tests 300068-300077 were taken h6b.100 (=50 GeV e-) and subruntype v2.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.08.2006</td>
<td>Goetz, Roman</td>
<td>Understanding of the beam</td>
</tr>
</tbody>
</table>
Our experience with the files which were prepared by Ilias:
electrons 50,40,30 GeV
- rate <20 Hz (collimators were wide open).
- beamblop size 8x8cm^2
- about 20% of the events contain e- of nominal beam energy

We tried to decrease the beamblop size by adjusting the magnets, QUAD15 and QUAD16, which are labeled "focus beamspot". Without any success.

The mother file H6B.002 which delivers 60 GeV pions, produces rates of 10^5/spill. So, some collimators should be closed. To get pion beams of lower energy, Ilias suggested to use a secondary pion beam of higher energy (e.g. 120 GeV) on the secondary target.

Logbook entry: CALICEelog/data/2006/32/09.08
09.08.2006 04:29 Roman Physics
300061 physics 26 30 GeV e- test of file H6B.102 beam lost
Datarate ~20 Hz
In general the data rate is as we would say in german "ausbaufähig" (improvable)

Logbook entry: CALICEelog/data/2006/32/09.08
09.08.2006 04:26 Goetz
300062 physics 26 40 GeV e- test of file H6B.101
Datarate ~20 Hz

Logbook entry: CALICEelog/data/2006/32/09.08
09.08.2006 03:19 Goetz Target positions
Mapping between target position and target type
air          ==-110 mm
Pb 3mm       == -45 mm
Pb 6mm       == - 5 mm
Cu 4mm       ==  39 mm
polyethylene (1m) ==  79 mm

Logbook entry: CALICEelog/data/2006/32/09.08
09.08.2006 01:29 RomanCall Runs this night
300063 physics 26 50 GeV e- test of file H6B.100
Rate: 22 Hz

Logbook entry: CALICEelog/data/2006/32/09.08
09.08.2006 01:12 RomanCall Access procedure
Got a call from accelerator control room.
Until further notice accesses have to be communicated to the operators. They have a bug in their control system which assign wrong doors when access is required by the gui panel.

Roman
Logbook entry: /CALICEelog/data/2006/32/09.08
09.08.2006 > 01:07

Run files created

Dear All,

Elias has set up four run files for us

H6B.002 +60 Gev Pion
H6B.100 50 GeV e-
H6B.101 40 GeV e-
H6B.102 30 GeV e-

If you run with H6B.1xx and want to go back to H6B.200 please LOAD COLLIMATORS BEFORE MAGNETS !!!!
Otherwise you will ring a bell (radiation alarm).
Rates with H6B.002 are very high O(10^5 on 10x10 cm2 scint.) -> more tuning needed.
Rates with H6B.1xx are relatively low but the particles are supposed to be pure electrons.
We now start to test these files.

Goetz and Roman

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006 > 20:45

NOTE
MEETING TOMORROW AT 9:45

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006 > 20:41

Groll

300050 ahcCmNoise-e 25000
300051 ahcFmNoise-e 25000

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006 > 19:29

caliceon@calicehcalsc02.cern.ch (CALICE user)

PIN TEST

300049 ahcFmLed 1000 events with special LED configuration (see picture) to check the mapping
Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006
14:15  Goetz
300022 beamData -m 1 -v 26 120 GeV pi+ beam study
trigger 3x3 to verify that the ECAL is centered
300023 beamData -m 1 -v 19 120 GeV pi+ beam position study
300024 beamData -m 1 -v 19 120 GeV pi+ beam position study
300025 beamData -m 1 -v 19 120 GeV pi+ beam position study
300026 beamData -m 1 -v 19 120 GeV pi+ beam position study
300027 beamData -m 1 -v 19 120 GeV pi+ beam position study
300028 beamData -m 1 -v 19 120 GeV pi+ beam position study
300029 beamData -m 1 -v 19 120 GeV pi+ beam position study
300030 - 300040 beamData -m 1 -v 19 120 GeV pi+ beam position / collimeter study

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006
14:11  Goetz
beam tuning
300021 beamData -m 1 -v 26 120 GeV pi+ beam study
scan bend6

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006
14:10  Goetz
beam tuning
300020 beamData -m 1 -v 26 120 GeV pi+ beam study
beam position changed.

Logbook entry: /CALICEelog/data/2006/32/08.08
08.08.2006
13:59  Goetz
beam tuning run
Run 300016

first beam run!!!!

injection problem

beam back tonight??!
LED scans for intercalibration studies versus voltage. All modules on, all CMB on. Starting point for each FE: calibmode_vcalib_value – 1000 increase in steps of 100 for Cm and 50 for Pm. First scans at nominal voltage:

<table>
<thead>
<tr>
<th>Scan ID</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>320411</td>
<td>ahcCmLedVcalibScan</td>
<td>Stopped due to too high number of event in each configuration</td>
</tr>
<tr>
<td>320412</td>
<td>ahcCmLedVcalibScan</td>
<td>2000 events in each configuration; stopped after 30 config.</td>
</tr>
<tr>
<td>320413</td>
<td>ahcPmLedVcalibScan</td>
<td></td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/31/06.08
07.08.2006
09:56
SPS operation homepage
http://ab-dep-op-sps.web.cern/ab-dep-op-sps/

Logbook entry: /CALICEelog/data/2006/31/05.08
06.08.2006
16:56
Erika
cosmics run over the w.e.

Logbook entry: /CALICEelog/data/2006/31/04.08
04.08.2006
19:53
Vasiliy Morgunov
first hadronic shower
from a reconstructed event in the muon run 300006.
some hadronic showers are visible, example:

Logbook entry: /CALICEelog/data/2006/31/04.08
04.08.2006
19:49
Vasiliy Morgunov
HCAL alignment
From the muon run 300006 we see a good alignment of the HCAL w.r.t. the beam center at the level of 3-4 mm.
Logbook entry: CALICEelog/data/2006/31/04.08

04.08.2006 14:03 Groll Vcalib tuning

- morning: debugging
  - two cmb low voltage fuses has blown - replaced by 2A fuses: working again
  - slow control gui is extremly slow from calichecalsc03 (95% cpu use)
   => use for the moment the gui from calichecalsc02

<table>
<thead>
<tr>
<th>Date</th>
<th>Command</th>
<th>Status</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>320406</td>
<td>ahcCmLedVcalibScan</td>
<td>c 11</td>
<td>vcalib range: 41500-42500 - all modules but not 1</td>
</tr>
</tbody>
</table>
| 320407 | ahcCmLedVcalibScan | c 11 | vcalib range: 45750-46050 - only for module 1 | stopped after 9 configuration

320407 was stopped after 9 configurations due to important firmware debugging for the tail catcher

Logbook entry: CALICEelog/data/2006/31/04.08

04.08.2006 13:23 Doerte David assembling status

Cassettes no. 18 and 17 are ready assembled. There are still some tests for cassette no. 17.

The new tiles already arrived at DES.

cassettes ready: 18
cassettes work in progress: 17
cassettes at DES test beam: 16
cassettes at CERN test beam: 1 - 15
Logbook entry: /CALICEelog/data/2006/31/04.08
04.08.2006
09:04
320405 : cosmicsData -v 19 name as 320404
because of the position of the two trigger plates and the fact that the last few HCAL
layers are not equipped we have a large fraction of events with no tracks thought the trigger has fired.
This is understood and is not an inefficiency of the trigger system.

Logbook entry: /CALICEelog/data/2006/31/03.08
03.08.2006
17:04
Erika
first hardware change
ADC 0 in slot 9 fe 0 broken.
exchange fe for module 8 from slot 9 / fe 0 to slot 15 / fe 5

new AHC.cfg: AHC_CERN_030806_300015_320403.cfg

1. AHC.cfg
2. 3. in this file you have to specify which
4. configuration file should be used for which frontend
5. 6. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM
Vcalib_PM

7. 8. 5
 0 AHCAL DAC_module01.dat 67 35 18 46250 53000
 1 AHCAL DAC_module04.dat 60 32 13 42000 50000
 2 AHCAL DAC_module12.dat 68 34 18 41800 50000
 3 AHCAL DAC_module03.dat 68 38 13 42000 50000
 4 AHCAL DAC_module06.dat 64 34 16 42000 50000
 5 AHCAL DAC_module07.dat 62 31 16 42000 50000
 6 AHCAL DAC_module09.dat 67 34 15 42000 50000
 7 AHCAL DAC_module11.dat 66 34 14 42000 50000
 8 AHCAL DAC_module13.dat 69 35 18 42000 50000
 9 AHCAL DAC_module02.dat 65 35 13 42000 50000
 10 AHCAL DAC_module04.dat 60 32 13 42000 50000
 11 AHCAL DAC_module03.dat 68 38 13 42000 50000
 12 AHCAL DAC_module06.dat 64 34 16 42000 50000
 13 AHCAL DAC_module07.dat 62 31 16 42000 50000
 14 AHCAL DAC_module09.dat 67 34 15 42000 50000
 15 AHCAL DAC_module11.dat 66 34 14 42000 50000
 16 AHCAL DAC_module13.dat 69 35 18 42000 50000

9 1 AHCAL DAC_module10.dat 67 35 14 42000 50000
10 4 AHCAL DAC_module15.dat 70 39 12 42000 50000
11 5 AHCAL DAC_module08.dat 66 32 19 42000 50000
12 3 PIN 50
13 0 PMT 1
14 end of AHC.cfg file

320405 : ahcPmNoise
320404 : cosmicsData -v 19

new naming scheme for AHC.cfg files adopted:
in the extension of the file name we indicate the new run numbers from which the change will be valid, one for the combined run (30XXXX) and one for the hcal stand alone run (32XXXX).

Logbook entry: /CALICEelog/data/2006/31/03.08  
03.08.2006 14:24  
Erika  
HCAL cosmic run  
we have rearranged the muon trigger (100x100 cm) for cosmic data taking: first trigger stays in the back of HCAL (as from installation pictures on the web) second trigger is moved on top of the HCAL structure, about 20 cm, sticking out from the front face of the HCAL.  
Trigger scheme: in the DAQ the muon counters appear as trigger bit 3 and 4 a coincidence is made of the two internally on the CRC (-v 19 option when starting a run) all modules are connected according to the following mapping:  
1. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM  
   1.  
   2.  
   5 0 AHCAL DAC_module01.dat 67 35 18 46250 53000  
   5 1 AHCAL DAC_module04.dat 60 32 13 42000 50000  
   5 2 AHCAL DAC_module12.dat 68 34 18 42000 50000  
   5 3 AHCAL DAC_module03.dat 62 34 12 42000 50000  
   5 4 AHCAL DAC_module05.dat 68 38 13 42000 50000  
   5 5 AHCAL DAC_module06.dat 64 34 16 42000 50000  
   5 6 AHCAL DAC_module07.dat 62 31 16 42000 50000  
   9 0 AHCAL DAC_module08.dat 66 32 19 42000 50000  
   9 1 AHCAL DAC_module09.dat 67 34 15 42000 50000  
   9 2 AHCAL DAC_module11.dat 66 34 14 42000 50000  
   9 4 AHCAL DAC_module13.dat 69 35 18 42000 50000  
   9 5 AHCAL DAC_module02.dat 65 35 13 42000 50000  
   9 7 AHCAL DAC_module14.dat 63 31 14 42000 50000  
   15 1 AHCAL DAC_module10.dat 67 35 14 42000 50000  
   15 4 AHCAL DAC_module15.dat 70 39 12 42000 50000  
   15 3 PMT 50  
   15 0 PMT 1  
1. #<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<  
   CMB of module 15 is turned off due to noise problem on LED legs.  
   320400 ahcPmNoise 20000 events ped. reference  
   320401 cosmicsData -v 19  
   320402 cosmicsData -v 19  
   a cosmicsData run has the same structure of a beamData run:  
   500 pedestal events  
   500 led events (settings in the cfg file above  
2000 cosmics events taken with an extra pedestal oscillator on (0.1 Hz)  
The use of the extra pedestal run is important only for beam data when  
the 500 pedestal of the first config will be taken out of spill while the  
random oscillator are taken ALWAYS in spill.  
Useful to train the analysis codes to recognize the various triggers

Logbook entry: /CALICEelog/data/2006/31/02.08  
02.08.2006 17:34  
320397 ahcCmLedVcalibScan -c 110k event per step, 11 steps, range  
41500-42500  
same Vcalib range used for all modules.  
in this Vcalib range module 1 does not see light in this range.  
CMB in module 15 now included!  
Fuses for CMB2 & 3 like to die! Use always 2A fuses for these low voltage channels!\  
320398 ahcPmNoise -e 25000  
only for module 1! the rest are in saturation

Logbook entry: /CALICEelog/data/2006/31/02.08  
02.08.2006 13:48  
analog readout of veto counter  
the veto counter (20x20) has double readout  
the analog signal is read out by a HCAL testboard  
connected to slot 15 fe 0 in the HCAL crate (only one channel: 0/0)
Logbook entry: /CALICEelog/data/2006/31/02.08
02.08.2006 11:29 Erika
HCAL LED runs

320396 ahcCmLedVcalibScan - c 11
10k event per step, 11 steps, range 41500-42500
same Vcalib range used for all modules.
in this Vcalib range module 1 does not see light in this range.
CMG in module 15 stopped to work completely.

Logbook entry: /CALICEelog/data/2006/30/29.07
02.08.2006 10:56 Erika

300003 garbage
300004 garbage
300005 garbage
300007 garbage
300008 garbage
300010 garbage
300011 garbage
300012 beamData - v 26 -m 1 ECAL and HCAL on

Logbook entry: /CALICEelog/data/2006/31/01.08
01.08.2006 18:39 G.Mavromanolakis
beam status

we have just got the news, there will be no beam in the SPS till Thu. the 8th of August.
The cause is the failure of an injection septum magnet to the SPS.
From the SPS coordinator:

There is a failure of the PS injection septum SMH42, showing a strong vacuum rise during pulses.
The experts inspected the magnet and after the first series of tests the most likely assumption is internal sparking. The failure prevents the operation of the PS.

A spare magnet is currently prepared and will be installed tomorrow. First vacuum tests with the spare in place can be done tomorrow afternoon, to be followed by approx. 5 days of bake-out. This means that the beam can expected to be back next Tuesday.

Thus there will be no beam for physics and beam-tests until next week Tuesday Aug 8. Effected are all PS and the SPS users (AD, East Area, North Area and CNGS).

Logbook entry: /CALICEelog/data/2006/31/01.08
01.08.2006 16:26 G.Mavromanolakis
example of postscript printout of the monitor panels (contains 14 pages)
Logbook entry: /CALICEelog/data/2006/31/01.08
01.08.2006 16:26 G.Mavromanolakis
cern muon through HCAL

Logbook entry: /CALICEelog/data/2006/31/01.08
01.08.2006 16:24 G.Mavromanolakis
cern muon through ECAL
Logbook entry: /CALICEelog/data/2006/31/01.08

01.08.2006 14:32 The GLIMOS ;-) beam conditions today

After the power glitch of Saturday the machines are recovering.
From an email of the SPS coordinator there are good prospects of getting beam in the afternoon of today.
The program of the machine for the next week would then be:

SPS and North Area
- the long SPS MD foreseen for Wednesday up to Thursday is canceled, the MD next week will be extended.
- beam to areas as soon as possible, stop of the SPS beam on Thursday 8:00 due to the PS stop for magnet re-installation in the East Area.
- beam to the North Area should resume Thursday around 18:00, then beam up to Friday morning 8:00.
- beam to the North Area should resume Thursday around 18:00, then beam up to Friday morning 8:00.
- SPS stop because of magnet re-installation in the East Area on Friday 8:00.
- Resume beam on Friday afternoon
- Hope for smooth running up to the next SPS MD, Wednesday Aug 9 8:00

Logbook entry: /CALICEelog/data/2006/31/01.08

01.08.2006 12:36 The GLIMOS ;-) interlock set

The GLIMOS got their training and had for the first time set the interlock to the area. They also have already tested the key access procedure for the first thing we forgot inside!
We are on the right track... or beam line!

Logbook entry: /CALICEelog/data/2006/31/31.07

31.07.2006 13:40 CERN no beam

CERN is still recovering from the power glitch of Saturday morning.
No beam foreseen for today. ALICE has cleared the upstream beam area.
Our official beam time has started.

Logbook entry: /CALICEelog/data/2006/30/29.07

29.07.2006 20:27 Goetz Gaycken SPS Problem
There will be no beam before Monday. In my understanding, the main power switch needs to be repaired after an incident early in the morning.

Logbook entry: /CALICEelog/data/2006/30/28.07
28.07.2006 18:10 V.L. Morgunov
And one more

Logbook entry: /CALICEelog/data/2006/30/28.07
28.07.2006 18:09 V.L. Morgunov
Another event from run # 300001

Logbook entry: /CALICEelog/data/2006/30/28.07
28.07.2006 18:06 V.L. Morgunov
Some event from run # 300001 with cuts at 3.5 sigma of pedestal.
Hi there,

I have just launched the automatic conversion on ilc-log01 for runs taken at cern. It resides in the directory

/scratch/conv_cern

is called ilcFileCopy_cern.pl (how creative !!!) and the data end up in

/pnfs/desy.de/calice/tb-cern/raw/conv_v0401

in desy dcache.

I haven't implemented the automatic grid registration so far since I am confident but not 100% sure that the conversion is bullet proof against seg. faults and other problems.

So please do not convert anymore by hand, but use the script!

A slight mistake crept into the conversion of run 300006 Accidentally, the conditions data for the CALDAQ_TrgReadoutConfigurationData (e.g for s/w trigger) ended up in the folder

/cd_calice_v0310_cernhcal/CALDAQ_TrgReadoutConfigurationData

instead of

/cd_calice_v0401_cerncomb/CALDAQ_TrgReadoutConfigurationData

where they would belong to.

Since there is for this period no interference with hcal data this doesn't compromise the quality of the conversion or other data but has to be known when analyzing the data.

Cheers,

Roman
Run 300006

28.07.2006 13:54

Hi there,

Run 300006 has been converted, shipped to the dcache
/pnfs/desy.de/calice/tb-cern/raw/conv_v0401/
and registered to the grid.

lfn dir: /grid/calice/tb-cern/raw/conv_v0401/

Roman

Logbook entry: /CALICEelog/data/2006/30/28.07

28.07.2006 09:13 Erika

V calib scans

320389 ahcCmLedVcalibScan -v 50
due to a problem in the tuning CMB 1 of module 1 the gain setting for this CMB is higher
than the others (46250).

320390 ahcPmLedVcalibScan -v 50
We will change the logic of Vcalib scan to start from the AHC.cfg default value - 1000 and
increase in fixed step width determined by -v. We will code the same range for Cm and Pm to have
overlapping points for intercalibration.

Logbook entry: /CALICEelog/data/2006/30/28.07

28.07.2006 07:34

Converting and copying

Dear Colleagues,

from the time I am writing this mail you can tell why I won't
participate in the 945h meeting. Anyway here is the resume of my
'night' shift.

a) Conversion

I have modified the converter such that event buffering is disabled but
still included optionally. This brought the conversion time down to a
reasonable value (i.e. 4h/2GBbytefile -> ~15Min/2GBbytefile).

With the eventbuffering and an acquisition depth of up to 4000 events
we have simply screwed up the memory of the ilc-log01 on which the
conversion is usually running (cheap simple linux box).

I have interrupted after 24 hours and 6 processed files the conversion
of run 300001 and instead resumed with the newer run 300006. After being
halfway through it crashed since the disk on ilc-log01 was full :-(.

So I had to clean up the disk.first and restart the conversion. The
conversion should be ready by lunch time (otherwise it would have been
ready by meeting time).

/scratch/tempconv_cern on ilc-log01

If not I will do it later today.

For instructions see also my last posting to the calice s/w list.
Don't hesitate to ask in case of problems.

If you want to you can convert yourself again. The executable et al. can be found under /scratch/conv_cern on ilc-log01.

If you convert:
  • Please make sure that you adjust the folders for the ConditionsData
    in the steering file

b) copying

The copy script is back!!

In fact, there are three of them now

under /home/caliceon/cp_ecal, /home/caliceon/cp_hcal and
/home/caliceon/cp_comb

They ship new runs automatically to DESY and register them
at the same time in the grid.

All Ecal runs have been copied, for hcal I have resumed with Run320356
(ready by now up to Run320388) and the cp_comb.pl is waiting for the
next run.
With
ps aux | grep perl
on caliceana you can tell whether they're running or not.
That's all I have to say for the time being.

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006 19:58
Erika

<table>
<thead>
<tr>
<th>320388</th>
<th>ahcFmNoise</th>
</tr>
</thead>
<tbody>
<tr>
<td>320389</td>
<td>ahcMledVcalibScan</td>
</tr>
<tr>
<td>320390</td>
<td>ahcPmledVcalibScan</td>
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<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>320392</td>
<td>ahcMledVcalibScan</td>
</tr>
<tr>
<td>320394</td>
<td>ahcPmledVcalibScan</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006 15:12
Dear all,
currently the conversion is pretty (!) slow.
The reason is presumably the large memory consumption of the converter. The program has to buffer up to 4000 events which are in one single acquisition leading to a size of ~500-600 MByte of the program. The ilc-log01 on which the converter is running however has only 500 MByte ram such that it swaps like hell. This is *not* a memory leak of the converter but a (terrible) fact.

However, a piece of run 300001 is ready and copied to the desy dcache i.e. /pnfs/desy.de/calice/tb-cern/raw/conv_0400
It should contain already a lot of beam data to start with.
For cd data (e.g. trigger handling) please take the following snippet of my posting to the s/w list into account
For the data taken at cern new folders have been introduced
/cd_calice_cernbeam for general purpose conditions data, e.g. trigger setup
/cd_calice_v0400 cernhcal
for pure hcal cd data created during event processing
/cd_calice_v0400 cerncomb
for combined runs ecal, hcal (tail catcher)
/cd_calice_v0400 cernecal
for pure ecal cd data..
In that sense 300001 is a combined run.
Please keep o reporting problems. They are helpful

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006 14:55
Doerte David

assembling status
The tiles for cassettes no. 19 and 20 are already on the way from Moscow to DESY. Typically the box needs one week to arrive at DESY.

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006  14:41  Erika

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>320384</td>
<td>ahcCmLedHoldScan</td>
</tr>
<tr>
<td>320385</td>
<td>ahcPmLedHoldScan</td>
</tr>
<tr>
<td>320386</td>
<td>ahcCmLed</td>
</tr>
<tr>
<td>320387</td>
<td>ahcPmLedHoldScan</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006  09:37  Doerte David

assembling status

Two cassettes are in the tent for assembling.

Last week we could not use the machine to strip the insulation of the mini coax cable. We had to give it back to the workshop we borrowed the machine from. But now we continued with cabling.

New tiles are not announced in the moment.

- cassettes work in progress: 18
- cassettes ready at DESY: 16
- cassettes ready at CERN: 1 - 15

Logbook entry: /CALICEelog/data/2006/30/27.07
27.07.2006  04:45  Run 300001 update

Hi there,

due to a bug I have discovered later this night (see my posting to the calice s/w mailing list), I was forced to stop and restart the conversion of run 300001.

Conversion has just started again.

Sorry,

Roman
Hi there,

I have just started the conversion of the famous run 300001. The conversion is ongoing and should be ready during the night.

Once ready I will copy the files to the dcache:
/pnfs/desy.de/calice/tb-cern/raw/conv_v0400

and register them to the grid:
lfcp-ls lfn:/grid/calice/tb-cern/raw/conv_v0400

For curious early birds with a desy account they can find the converted files on ilc-log01 under:
/scratch/tempconv_cern

Please have also a look at my recent posting to the calice s/w mailing list.

Please inform me before going ahead and convert runs yourself such that I can give instructions. My next task is to automate copying and conversion procedure (again).

Cheers,
Roman

---

Hi there,

I think that I have found the knob to turn in order to transfer data at high rate.

Following some instructions I have found on a webpage on this topic (i.e. http://www.psc.edu/networking/projects/tcptune/)
I have adjusted some system parameters and bingo

---

Hi there,

contrary to what I have announced I haven't managed to finalize the release. While I am pretty sure that the convertor is doing something reasonable, I got stucked in the interpretation of the output mainly the trigger output.

Still I intend to make release tomorrow since the convertor 'officially' currently in use comes to an end with it's capabilities.

Sorry, but I hope that tomorrow I will manage to make a release.

More discussion at 9.45h,

Roman

---

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Cheers,
Roman

---

Hi there,

300006 beamHoldScan -v 26 -m 1

DC on
ECAL on
HCAL on

veto analog readout add in slot 15 / fe 4 / chip 0 / chan 0

data to be used to determine the trigger latency of the 10x10 trigger counters

---

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Please inform me before going ahead and convert runs yourself such that I can give instructions. My next task is to automate copying and conversion procedure (again).

Cheers,
[caliceon@caliceana bin]$ grid_cp.sh 240136
Using Data Catalogue lfc
current run is 240136
of which 1 files exist
Using grid catalog type: lfc
Using grid catalog : grid-1fc.desy.de
Source URL: file:/home/caliceon/bin/Run240136.000.bin
File size: 1703192336
VO name: calice
Destination specified:
srm://srm-dcache.desy.de/pnfs/desy.de//calice/tb-cern/native/dat//Run240136.000.bin
Destination URL for copy:
streams: 1
1. set timeout to 0 seconds
2. set timeout to 0 seconds
Alias registered in Catalog:
lfn://grid//calice/tb-cern/native/dat//Run240136.000.bin
1457520640 bytes  26861.25 KB/sec avg  36305.46 KB/sec inst
Transfer took 55460 ms
Destination URL registered in Catalog:
srm://srm-dcache.desy.de/pnfs/desy.de//calice/tb-cern/native/dat//Run240136.000.bin
guid:e3dd5d6a-f105-498a-b163-6719216e208f
You san that we an achieve peak rates of up to 320 MBit/s and average rates of ~210 MBit/s. This is quite something.
This is what I have done
Webpage: http://www.psc.edu/networking/projects/tcptune/

old values
==========
[root@caliceana bin]# cat /proc/sys/net/core/wmem_max
65535
[root@caliceana bin]# cat /proc/sys/net/core/rmem_max
65535
[root@caliceana bin]# cat /proc/sys/net/ipv4/tcp_rmem
4096 87380 174760
[root@caliceana bin]# cat /proc/sys/net/ipv4/tcp_wmem
4096 16384 131072

ew values
==========
[root@caliceana bin]# echo 2500000 > /proc/sys/net/core/wmem_max
[root@caliceana bin]# echo 2500000 > /proc/sys/net/core/rmem_max
[root@caliceana bin]# echo "4096 5000000 5000000" > /proc/sys/net/ipv4/tcp_rmem
[root@caliceana bin]# echo "4096 65536 5000000" > /proc/sys/net/ipv4/tcp_wmem
[root@caliceana bin]#  cat /proc/sys/net/core/wmem_max
2500000

***Important***
After the power failure I have noticed that these values are reset to their default values so call me or set them yourself after a reboot of caliceana. I will check how to set these values automatically.

***Important***
So far so good, we have, however, another serious bottleneck. The values above are only valid when reading the data from the local disk. When we read directly from the (nfs)-mounted we are still limited to ~24 MBit/s. A workaround for this is to scp the file first from calice00 to caliceana and then send it on the long way to desy. Between calice00 and caliceana we can transfer files at a speed of ~240 Mbit/s. By that we loose a factor of 2-2.5 but it is still way faster than the direct transfer. We may remedy this situation, too. More in tomorrow's 9.45h meeting.

Cheers,
Roman

Logbook entry: CALICElog/data/2006/30/25.07
25.07.2006 16:37 Nanda intercalibration runs
intercalibration runs
investigate intercalibration factor voltage dependence
CMB 0 in module 16, always 10k events

<table>
<thead>
<tr>
<th>intercalibration</th>
<th>physicsmode</th>
<th>nominal voltage</th>
</tr>
</thead>
<tbody>
<tr>
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<td>201698</td>
<td>pedestal</td>
<td>-0.3V lower voltage</td>
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<tr>
<td>Date</td>
<td>Event</td>
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<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>201705</td>
<td>pedestal</td>
<td>physicsmode</td>
</tr>
</tbody>
</table>

check chip 1&10, the others might not have enough/too much light

for Runs with higher HV:
only B side with higher voltage (A side with HV off)

Logbook entry: CALICElog/data/2006/30/25.07

25.07.2006
12:30
coherent noise study

<table>
<thead>
<tr>
<th>320355</th>
<th>ahcPmNoise</th>
<th>module 15 chip 0 special ground</th>
</tr>
</thead>
<tbody>
<tr>
<td>320356</td>
<td>ahcPmNoise</td>
<td>only module 15 connected to PS, chip 0 special ground</td>
</tr>
</tbody>
</table>

Logbook entry: CALICElog/data/2006/30/25.07

25.07.2006
caliceon@calicehcalsc03.cern.ch (CALICE user)
10:00

Logbook entry: CALICElog/data/2006/30/25.07

25.07.2006
caliceon@calicehcalsc03.cern.ch (CALICE user)
09:37
all other currents were stable

one HV channel is fluctuating a lot. we need the color codeing to know which one (Sven?)
Observation: the noise spikes on the light blue channel stopped at 9:15 when the tun was stopped. at 9:20 I reloaded the DMC settings (negative spike) which did not change the current for this channel.
Logbook entry: /CALICEelog/data/2006/30/25.07

25.07.2006 caliceon@calicehcalsc03.cern.ch (CALICE user)

module 2a jump in current
at about 1am increase current not due DAC losses, to be checked, maybe one (or more SiPM) with LD

Logbook entry: /CALICEelog/data/2006/30/24.07

24.07.2006 Erika, Goetz, Marius
too good beam

300001 beamData -v 26: muon-like particle
the counters correlation with the spill was too good
we decided to set the trigger to the coincidence of the 10x10 trigger with a target "muteplicity 7" (no idea what it means) we had about 2000 particles per spill and a DAQ rate of 90 Hz.
ALL HCAL MODULES have been powered during this run.
LED monitoring data were taken every third config. (as usual) in the modules with CMBs connected (all but the first 3)
Logbook entry: /CALICEelog/data/2006/30/24.07
24.07.2006 20:59
Erika, Goetz, Marius

FIRST COMBINED "BEAM" RUN
STARTED!!!

300000 beamData -v 31 ?? muons?? parasitic run
after ALICE
we are just testing the trigger system.
the run is taken with a OR of the 2 10x10 cm triggers and the 20x20 veto counter.
rate about 15 Hz is driven by the individual noise of the triggers.
Detector conditions:
DC on
ECAL on
HCAL modules 1, 2, 6 on (all other included in r/o without bias)
The run will be used to check trigger history.

Logbook entry: /CALICEelog/data/2006/30/24.07
24.07.2006 20:35

Converted Runs - update -

Hi there,

Erika has reported this morning on a problem with converted files which was found by Beni.

Indeed there was a (severe) bug in the converter but this would not have solved the problem of Beni.

Run 320346 - Here the FeHeader Verification indicates that the data in crate=172, slot=5, fe=4 are corrupted. However, they still appear in the LCIO file leading to the strange spectra. As far as I can see the data in this device are fine for all other runs.

Run 320348 - The same for crate=172, slot=15, fe=4. Here strange enough there is something where one would expect this fe to appear. However the Header Verification indicates an error. This 'problem' seems to persist.

I have created a patch and copied it to ilc-log01 /scratch/conv_cern
The patch is missing detailed error statistics, this I will implement in the new version of the converter.

Note, that fe's for which the header verification fails won't appear anymore in the lcio file.

I will re-convert the 'gain runs' this evening + new runs like 320353, 324354. Check the corresponding directory in the dcache.

Thanks to Beni and Erika, for reporting quickly the problems.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/30/24.07
24.07.2006 19:11

caliceon@calicehcalsc03.cern.ch (CALICE user)

module z-position
Logbook entry: /CALICEelg/data/2006/29/23.07
23.07.2006 18:54

The same problem during pedestal calculation for slot 15 fe 4.

Logbook entry: /CALICEelg/data/2006/29/23.07
23.07.2006 18:44

The following picture shows the data present on FE 4 for CRC in slot 5. Although the SiPM gain analysis does not include this FE, this data disturbs the calculation of pedestals.

Logbook entry: /CALICEelg/data/2006/29/21.07
21.07.2006 11:34

Converted runs

Hi there, mainly for the HCAL experts

the runs

320275
320276
320345
320346
320348
320349

have been converted and can be found under

/pnfs/desy.de/calice/tb-cern/raw/conv_v0310

The database entries are in the folder
/cd_calice_v0310_cernhcal/

For further info on these runs please check Sebastians elog entries under the 19/7/06.

Happy analyzing,
Logbook entry: /CALICEelog/data/2006/29/19.07
19.07.2006 20:21 Sebastian Schaetzel
CRC exchanged, new FE mapping
format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

<p>| | | | | | | | | | | | |</p>
<table>
<thead>
<tr>
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end of AHC.cfg file

Logbook entry: /CALICEelog/data/2006/29/19.07
19.07.2006 11:00 Sebastian Schaetzel
Calibration runs

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<th>type</th>
<th># events</th>
<th>modules in read-out</th>
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<td>gain 50k</td>
<td>2,6-11,13-15</td>
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<tr>
<td>320348</td>
<td>pedestal 10k</td>
<td>2,6-11,13-15</td>
<td></td>
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</tbody>
</table>

See previous log book entry for the mapping of the modules to slot/fe

Logbook entry: /CALICEelog/data/2006/29/19.07
19.07.2006 10:55 Sebastian Schaetzel
module to slot/fe mapping

format: slot fe module cmb

<p>| | | |</p>
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<thead>
<tr>
<th></th>
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<td>6</td>
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<td>module09 14</td>
</tr>
<tr>
<td>9</td>
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<td>module11 13</td>
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<td>7</td>
<td>module14 8</td>
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<td>15</td>
<td>1</td>
<td>module10 2</td>
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<tr>
<td>15</td>
<td>2</td>
<td>module15 3</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/29/18.07
18.07.2006 08:20 Erika
hold scan in phys mode

320283 ahcPmHoldScan 9 CMB are on
Logbook entry: CALICE eLogbook/data/2006/29/18.07
18.07.2006 07:30 Erika
First day of beam
we are getting ready to see the first beam today.
all the HCAL modules but one (#1) are on.
the CMB that have been already tuned are:

```
<table>
<thead>
<tr>
<th>slot</th>
<th>FE</th>
<th>module</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
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<td></td>
</tr>
<tr>
<td>6</td>
<td>7</td>
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<td>1</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>
```
NOTE: module #10 is moved to slot/FE 15/1
module #15 is moved to slot/FE 15/3

Logbook entry: CALICE eLogbook/data/2006/28/13.07
13.07.2006 14:18
15 CMB daisy chain working

Logbook entry: CALICE eLogbook/data/2006/28/12.07
12.07.2006 17:30 Dörte David
assembling status
Modules no. 1 to 15 are parts of the current HCAL at CERN.
CMB boards were assembled from the colleagues in the tent.
Module no. 16 is in the DESY testbeam.
There was a swap of no. for the next two cassettes. So the tiles for cassette no.18 were allready tested and now tiles for cassette no. 17 are being tested at DESY.
cassettes work in progress: 18
tiles in the DESY test for: 17
cassettes ready at DESY: 16
cassettes ready at CERN: 1 - 15
Logbook entry: CALICEelog/data/2006/28/12.07
12.07.2006 14:21
mapping of HCAL modules

1. format: slot fe detectorType filename Hold_PM_LED Hold_CM_LED Hold_ext Vcalib_CM Vcalib_PM

2. 0
   5 AHCAL DAC_module01.dat 63 31 18 8500 65000
   5 AHCAL DAC_module04.dat 63 34 18 47500 55000
   5 AHCAL DAC_module12.dat 63 31 18 8500 65000
   5 AHCAL DAC_module03.dat 63 31 18 8500 65000
   5 AHCAL DAC_module05.dat 63 31 18 8500 65000
   5 AHCAL DAC_module06.dat 63 31 18 8500 65000
   5 AHCAL DAC_module07.dat 63 31 18 8500 65000
   0 AHCAL DAC_module08.dat 63 31 18 8500 65000
   0 AHCAL DAC_module09.dat 66 31 18 8500 65000
   0 AHCAL DAC_module11.dat 63 31 18 8500 65000
   0 AHCAL DAC_module13.dat 63 31 18 8500 65000
   0 AHCAL DAC_module02.dat 63 31 18 8500 65000
   0 AHCAL DAC_module14.dat 63 31 18 8500 65000
   0 AHCAL DAC_module10.dat 63 31 18 8500 65000
   2 AHCAL DAC_module15.dat 63 31 18 8500 65000
   15 2 PIN 46

Logbook entry: CALICEelog/data/2006/28/11.07
11.07.2006 23:23
Converted runs

poeschl wrote

sorry the previous posting didn't make it to the elog ....

Hi there,

it seems that there are problems with the desy dcache this evening. My personal guess is that we are facing the pre-summer conference madness of teh big experiments ... . Nevertheless I have asked desy it on this.

Still, I have managned to convert two few runs for the hcal (320010, 320111).

You find it on desy cache (see the earlier logbook entry for the corresponding lfn for the grid)

/pnfs/desy.de/calice/tb-cern/raw/conv_v0310/

The new database folder is /cd_calice_v0310_cernhcal

I will convert other runs on request.

If you are brave enough you can run the converter yourself

1) login to ilc-log01 as caliceon ( {afs} password is known)
2) cd /scratch/conv_cern
3) ../env.sh
4) change the runnumber in the steering file theconv_write.steer
look for MyLCIOOutputProcessor
   and MyCaliceLcioConverter
5) export LD_PRELOAD=/opt/products/lib/libpdcap.so
6) ./lcioconverter theconv_write.steer > <logfile>
7) unset LD_PRELOAD
8) cd ../tempconv_cern/
9) wdccp Run<runnumber>*.slcio
28.09.2007 15:06

As said earlier, this will pretty soon be replaced by an automatic procedure.
Hi there,

Since Friday we have the gigabit uplink and the corresponding switch. We have five machines residing inside the CERN firewall, i.e., accessible via lxplus.cern.ch using your CERN account.

- calicehcalsc03.cern.ch - hcal slow control
- calicehcalsc02.cern.ch - " " "
- calice00.cern.ch - primary DAQ computer
- caliceana.cern.ch - analysis and data transfer computer
- The calice-wlan-1 - wireless access for laptops.

The caliceana can act as a grid user interface. I have set it up such that you can perform grid-actions using my certificate (valid until 22/2/07).

For copying runs into the DESY cache type:

```
    grid_cp.sh <runnumber>
```

The files will end up on
```
    /pnfs/desy/de/calice/tb-cern/native/dat in the DESY dcache
```
and with the lfn
```
    /grid/calice/tb-cern/native/dat/RunXXXXXX.nnn.bin
```
in the grid catalogue.

Note that this method will soon be replaced by an automatic procedure using a shell script similar to the one which runs at DESY.

That's it for the time being.

Cheers,

Roman

---

Logbook entry: CALICEelog/data/2006/28/11.07 11.07.2006 21:05

Calice Computing at CERN

Hi there,

Since Friday we have the gigabit uplink and the corresponding switch. We have five machines residing inside the CERN firewall, i.e., accessible via lxplus.cern.ch using your cern account.

- calicehcalsc03.cern.ch - hcal slow control
- calicehcalsc02.cern.ch - " " "
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For copying runs into the DESY cache type:

```
    grid_cp.sh <runnumber>
```

The files will end up on
```
    /pnfs/desy/de/calice/tb-cern/native/dat in the DESY dcache
```
and with the lfn
```
    /grid/calice/tb-cern/native/dat/RunXXXXXX.nnn.bin
```
in the grid catalogue.

Note that this method will soon be replaced by an automatic procedure using a shell script similar to the one which runs at DESY.

That's it for the time being.

Cheers,

Roman

---

Logbook entry: CALICEelog/data/2006/28/11.07 11.07.2006 17:46

HV panel with file

---

Logbook entry: CALICEelog/data/2006/28/11.07
11.07.2006 14:05 Erika  first CERN run!
320010 ahcPmNoise pedestal run with 15 modules for noise studies

Logbook entry: /CALICEelog/data/2006/28/10.07

10.07.2006 17:20 Erika change of run number default

on the CERN machines we have now a different set of default run numbers:
300000 = COMBINED
310000 = ECAL
320000 = HCAL
they will all be stored in the local disk under 3 different directories:
data00/data/cernCombinedJul06/
cernEcalJul06/
cernAhcalJul06/

Logbook entry: /CALICEelog/data/2006/27/07.07

07.07.2006 18:54 Groll

1.) The AHCAL installation crew has left CERN! Many thanks to Gerd, Uwe, Petr, Sebastian and Sven for their excellent work!
2.) Peter has finished the ground debugging: CMB works & no high currents flowing between the different AHCAL components have been observed! And we see in principle single photoelectron spectra.
3.) The LED trigger has changed from CRC trigger to trigger distribution due to the fact that the pin readout will be on a different CRC then the module/CMB which will receive the tcalib. Thanks to the fast help of Paul.

Logbook entry: /CALICEelog/data/2006/27/07.07

07.07.2006 11:51 HV Trend

Logbook entry: /CALICEelog/data/2006/27/07.07

07.07.2006 11:51 HV Trend
07.07.2006
10:52

HV today 2

Logbook entry: /CALICEelog/data/2006/27/07.07
07.07.2006
10:50

HV today

Logbook entry: /CALICEelog/data/2006/27/06.07
06.07.2006
18:05

first current measurement at CERN

Logbook entry: /CALICEelog/data/2006/27/05.07
05.07.2006
20:08

HV channels 21 - 40
Logbook entry: /CALICEelog/data/2006/27/05.07
05.07.2006 19:59 caliceon@flchcalcse03.cern.ch (CALICE user)
HV channels 1 - 20

Logbook entry: /CALICEelog/data/2006/27/05.07
05.07.2006 18:12 Dörte David
assembling status
All finished cassettes (no. 1 - 15) were transported to CERN.
Cassette no. 16 should go into the DESY test beam on Thursday.
The parcel from Moscow with tiles for cassettes no. 17 and 18 arrived at DESY.
cassettes work in progress: 16
cassettes ready at DESY: -
cassettes ready at CERN: 1 - 15

Logbook entry: /CALICEelog/data/2006/27/03.07
03.07.2006 21:54
The first working channel
Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
21:54
HV OK

Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
12:07
from flchcalsc03
let' see

Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
12:04
11
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<tr>
<td></td>
<td>11:50</td>
<td></td>
<td>ee</td>
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</table>
Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
11:39
THE PANEL TEST

FROM SVENNI

Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
11:36
Hello World

Logbook entry: /CALICEelog/data/2006/26/02.07
02.07.2006
11:35
This is my CERN TEST

Here is the comment

Logbook entry: /CALICEelog/data/2006/26/26.06
26.06.2006
16:56
Sebastian Schaeetzl

Results from light coupling reproducibility runs

Nice reproducibility of single-pixel peaks when CMB is removed and reinserted. The plot shows for one example SiPM the spectra for the gain runs taken yesterday. The difference between one plot and the next is that the CMB had been taken out between the runs.

The other SiPMs look the same, for all LEDs.
Logbook entry: /CALICEelog/data/2006/26/26.06

26.06.2006       Sebastian Schaetzel       signal shift solved
14:47

The shift reported during the weekend went away after Sven modified the
data distribution box which was installed last week. The lines on the
ground plate were not wide enough which resulted in a voltage drop at the
output connectors when modules were connected. Sven has added several
cables in parallel to the line such that the voltage is now stable and
we do not see the shift in the SiPM signals any longer.

Testbeam DAQ is now being packed into boxes for transport to CERN.

Logbook entry: /CALICEelog/data/2006/25/25.06

25.06.2006       Sebastian Schaetzel
20:41

LED light reproducibility when disconnecting
and reinserting CMB

module 9 connected to FE2
PIN diodes of CMB1 connected to FE6
other FEs empty

Calibration mode runs with Vcalib=49500

Between each pair of successive runs in the following list, the CMB was turned off and
disconnected
from the module with all LEDs and PIN diodes out of the holes in the cassette.
Then the CMB was connected again to the module (reinserting all LEDs and PIN diodes into
the holes)
and turned back on (+reinitialising from the Slow Control panel).
The diodes were not pressed into the holes with a screwdriver or other tool.

All runs contain 50k events.

201629
201631
201633
201635
201637
201639
201641
201643
Logbook entry: CALICEelog/data/2006/25/25.06
25.06.2006 20:35 Sebastian Schaetzel

Calibration runs for module 9 with voltage reduced by 0.3V

All SiPMs are operated at reduced voltage $U_{SiPM} = U_{nominal} - 0.3$ V.

- module 9 connected to FE2;
- PIN diodes of CMB1 connected to FE6;
- other FEs empty

<table>
<thead>
<tr>
<th>run</th>
<th>Vcalib</th>
<th>#events</th>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td>201620</td>
<td>49500</td>
<td>50k</td>
<td>gain</td>
</tr>
<tr>
<td>201622</td>
<td>49700</td>
<td>50k</td>
<td>gain (for some channels not enough light with Vcalib=49500)</td>
</tr>
<tr>
<td>201623</td>
<td>0</td>
<td>10k</td>
<td>pedestal calibration mode (CM)</td>
</tr>
<tr>
<td>201624</td>
<td>51100</td>
<td>30k</td>
<td>intercalibration CM</td>
</tr>
<tr>
<td>201625</td>
<td>51100</td>
<td>30k</td>
<td>intercalibration physics mode (PM)</td>
</tr>
<tr>
<td>201626</td>
<td>0</td>
<td>10k</td>
<td>pedestal PM</td>
</tr>
</tbody>
</table>

No second peak visible like in the intercalibration runs with CMB0 for module 11.

Logbook entry: CALICEelog/data/2006/25/25.06
25.06.2006 20:25 Sebastian Schaetzel

second peak in intercalibration runs

A second peak is visible in the intercalibration runs for module 11 with CMB0:

The plot shows the spectra of all 18 SiPMs which are connected to LED 0 for run 201610 (calib. mode). The peaks are also visible in phys. mode. This seems to be an LED related problem because all SiPMs that receive light from the same LED show the second peak. For some other LEDs, all SiPMs show a clean spectrum. Maybe related to the timing of the LED pulse with respect to Tcalib (delay, jitter). To be investigated.

Logbook entry: CALICEelog/data/2006/25/25.06
25.06.2006 20:13 Sebastian Schaetzel

Calibration runs for module 11 with SiPM voltage reduced by 0.3V

All SiPMs are operated at reduced voltage $U_{SiPM} = U_{nominal} - 0.3$ V.

- module 11 connected to FE1;
- PIN diodes of CMB0 connected to FE7;
- other FEs empty
Runs taken with flchcaldaq01.

<table>
<thead>
<tr>
<th>Run</th>
<th>Vcalib</th>
<th>Events</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>201605</td>
<td>49600</td>
<td>50k</td>
<td>gain</td>
</tr>
<tr>
<td>201607</td>
<td>49800</td>
<td>50k</td>
<td>gain (for some channels not enough light with Vcalib=49600)</td>
</tr>
<tr>
<td>201609</td>
<td>0</td>
<td>10k</td>
<td>pedestal calibration mode (CM)</td>
</tr>
<tr>
<td>201610</td>
<td>50650</td>
<td>30k</td>
<td>intercalibration CM</td>
</tr>
<tr>
<td>201617</td>
<td>50650</td>
<td>30k</td>
<td>intercalibration physics mode (PM)</td>
</tr>
<tr>
<td>201618</td>
<td>0</td>
<td>10k</td>
<td>pedestal PM</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/25/25.06

25.06.2006 20:00 Sebastian Schaetzel

SiPM shift summary

To summarize: both module 9 (CMB1) and 11 (CMB0) do not show the shift when they are connected alone.

Connecting in addition to one of the said modules the two other modules 12 and 13 which do not have a CMB, does not introduce the shift. It occurs only when both modules 9 and 11 are connected to the LV at the same time.

I checked that the shift is not a result of certain connectors on the power distribution box.

Sven supplied another larger grounding cable yesterday. This does not show any effect and was disconnected again.

We have to look into this again tomorrow. Today I work with one module at a time.

Logbook entry: /CALICEelog/data/2006/25/25.06

25.06.2006 19:58 Sebastian Schaetzel

a plot with module 11 alone and reduced Vcalib

This plot is for Vcalib=51000. The remaining difference can be explained by the different LED intensities.

Logbook entry: /CALICEelog/data/2006/25/25.06

25.06.2006 19:53 Sebastian Schaetzel

SiPM shift away when only one module is powered
The shift goes away when only one of the two modules which have a connected CMB is supplied with LV.
As long as module 11 alone is connected to the power distribution box there is no shift. See the picture below for Vcalib=53670: The signal for the lower half of the SiPMs is increased and now all SiPMs are saturating the ASIC.

Logbook entry: CALICEelog/data/2006/25/25.06 25.06.2006 19:45 Sebastian Schaetzel
Shift for Vcalib=53670
This is the online histogram for Vcalib=53670. Upper half of SiPMs ($>107$) saturate the ASIC.

Logbook entry: CALICEelog/data/2006/25/25.06 25.06.2006 19:36 Sebastian Schaetzel
Investigations on shift of SiPM values
Here are plots which illustrate the problem which was mentioned in this logbook on June 23 and which is still unsolved.

Pedestal shift for one half of module 11. Vcalib=0.

Logbook entry: CALICElog/data/2006/25/24.06
24.06.2006 12:57 Garutti / Groll
hold scan for CERN trigger system

<table>
<thead>
<tr>
<th>Trigger type</th>
<th>Cable</th>
<th>CAEN ch</th>
<th>CAEN setting</th>
<th>DISC ch</th>
</tr>
</thead>
<tbody>
<tr>
<td>3x3</td>
<td>21</td>
<td>20</td>
<td>5000</td>
<td>1</td>
</tr>
<tr>
<td>3x3</td>
<td>22</td>
<td>21</td>
<td>5000</td>
<td>2</td>
</tr>
<tr>
<td>20x20</td>
<td>23</td>
<td>22</td>
<td>3200</td>
<td>3</td>
</tr>
<tr>
<td>20x20</td>
<td>24</td>
<td>23</td>
<td>3000</td>
<td>4</td>
</tr>
<tr>
<td>10x10</td>
<td>25</td>
<td>24</td>
<td>2900</td>
<td>5</td>
</tr>
<tr>
<td>10x10</td>
<td>26</td>
<td>25</td>
<td>3100</td>
<td>6</td>
</tr>
</tbody>
</table>

220305 ahcBeamHoldScan -v 26 veto counter 20x20x1 with double PM readout holdvalue=15
220309 ahcBeamHoldScan -v 26 3x3 coincidence holdvalue=15
220310 ahcBeamHoldScan -v 26 10x10 coincidence holdvalue=15

Logbook entry: CALICElog/data/2006/25/24.06
24.06.2006 11:42 Garutti / Groll
Run220303 stopped

| ahcBeamStageScan -v 26 3GeV module 11,9,12,13 921 configuration => 307 positions scanned -0.3 nominal voltage for module 9,11 |

Logbook entry: CALICElog/data/2006/25/23.06
23.06.2006 20:59 Beni
voltage scan
changed voltage 0.3 V lower for modules 9 and 11. modules 12 and 13 are left at the same voltage. measurement of voltage dependence of light yield:

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>2</td>
<td>2</td>
<td>41.5</td>
<td>83</td>
<td>41.6</td>
<td>64</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td>39.5</td>
<td>71</td>
<td>44.7</td>
<td>106</td>
</tr>
<tr>
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<td>-----</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>4</td>
<td>40.2</td>
<td>60</td>
<td>40.0</td>
<td>58</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>3</td>
<td>40.6</td>
<td>73</td>
<td>40.5</td>
<td>75</td>
</tr>
</tbody>
</table>

Logbook entry: CALICE eLogbook/data/2006/25/23.06

23.06.2006 20:38 Sebastian Schaetzel

shift depends on Vcalib, CMB tests cancelled

The shift mentioned in the previous entry depends on the Vcalib setting. The two module halves were affected in an uncontrollable way, rendering any CMB operation useless. The CMB tests therefore had to be cancelled. CMB was switched off. Efforts are underway to get the MIP calibration scan going for the weekend. At Vcalib values near 50000 which previously resulted in single-pixel peaks (e.g., during last weekend’s runs), the signals for SiPMs #<109 were at ~27000 ADC ch., and the signals for SiPMs #>108 were saturating the ASIC (>32000 ADC ch.). The difference between the two halves is therefore at least 5000 ADC ch. for this Vcalib setting.

Logbook entry: CALICE eLogbook/data/2006/25/23.06

23.06.2006 20:30 Sebastian Schaetzel

power distribution introduces pedestal shift

Pedestal of one half of the SiPMs in a module is shifted w.r.t. the other half by ~700 ADC ch. When two "B" power cables are connected, instead of one "A" and one "B" (A, B denote the connector at the power distribution box in the rack), the shift goes away.

Logbook entry: CALICE eLogbook/data/2006/25/22.06

22.06.2006 23:59 Automatic Logging

status report

runs today: 240020 - 240046

Logbook entry: CALICE eLogbook/data/2006/25/22.06

22.06.2006 16:44 Converter script restarted

Dear Colleagues,

this night the converter script stopped due to the following error message:

Copying /scratch/tempconv/Run220292.slcio to
/pnfs/desy.de/calice/tb-desy/raw/conv_v0310//Run220292.slcio
Command failed!
Server error message for [1]: "0038000000000000000ECB50
java.io.IOException: No space left on device" (errno 204).
sendDataMessage failed.
Failed to close destination file : "0038000000000000000ECB50
java.io.IOException: No space left on device"
System error: Input/output error
Failed to copy /scratch/tempconv/Run220292.000.slcio to
/pnfs/desy.de/calice/tb-desy/raw/conv_v0310//.Problems with copying the lcio file(s) to the dcache pool
Conversion stopped at Wed Jun 21 23:17:42 2006

In fact it was not the calice tape space which was full but the/a intermediate disk from which the files are finally flushed to tape. This was because one experiment (we?) were writing lots of data into the dcache in one go.

The script stopped after having converted run 220292. For safety reasons I have reconverted the run and recopied it to the dcache.

After that I have restarted the converter script. Conversion has resumed at run 220923. All 'tent' runs have already been converted (i.e., up to run 201592).

Sorry for the inconvenience,

Roman
P.S.: This is my first mail2elog attempt, keep fingers crossed ...

Logbook entry: /CALICEelog/data/2006/25/20.06
20.06.2006 23:59

Hi there,

as some of you have noticed the converter script stopped sometime during the night from Saturday to Sunday for no obvious reasons. Parallel to that the ilc-log01 on which the converter is running was not accessible (ping worked but ssh was impossible!). Maybe this is/was correlated.

IT has rebooted the machine and it is now up and running again.

Anyway, I have restarted the converter script which will now catch up with the data taking.

Since quite a few pure testruns are taken, I have agreed with Marius that the copy scripts (ie. starting and stopping them) are put under the control of the people present at DESY.

Cheers,

Roman

Logbook entry: /CALICEelog/data/2006/25/20.06
20.06.2006 23:59

status report

runs today: 240013 - 240019

Logbook entry: /CALICEelog/data/2006/25/20.06
20.06.2006 09:08

stopped Run 220299

all currents fine; 82 positions scanned; last position x=-15 / y=75

220300 ahcCmLed 50000 ev. (gain)
220301 ahcCmNoise 50000 ev. (pedestal)

HV/LV turned off
DAQ development over the day

Logbook entry: /CALICEelog/data/2006/25/19.06
19.06.2006 18:46

220297 ahcCmLed 50.000 events, fast trigger
220298 ahcPmNoise 20.000 events, fast trigger
220299 ahcBeamStageScan 3GeV start from tile x=180 / y=-120

Logbook entry: /CALICEelog/data/2006/25/19.06
19.06.2006 15:08

Kirsch / Groll

CMB success

CMB is working after a complete weekend of data taking!
It is possible to see nice single photoelectron peaks. Many thanks to Guillaume, Sebastian and Ivo.

[Image]

CALICE eLogbook

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...

19.06.2006
10:37
S. Karstensen

I'm very sorry for the two crashes at 17.06. and 18.06. both ca. 21:30h. That was me. I worked on the SC at this time and did something special .... I thought it doesn't hurt someone (I'm obviously wrong)

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...

19.06.2006
10:28
kirsch

<table>
<thead>
<tr>
<th>220290</th>
<th>ahcFmNoise</th>
<th>no beam</th>
<th>100.000 events, fast trigger</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>220291</th>
<th>ahcFmNoise</th>
<th>3GeV e-</th>
<th>100.000 events, fast trigger</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>220292</th>
<th>ahcBeamStageScan</th>
<th>3GeV e-</th>
<th>run Stopped at 14h25 to permit electrical work inside the beam area, last channel scanned chip 8 channel 17</th>
</tr>
</thead>
</table>

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...

18.06.2006
13:02
run 220285 crashed at 21:30 due to bad SlowControl readout last tile calibrated: chip/chan 5/1

<table>
<thead>
<tr>
<th>220285</th>
<th>ahcCmLed</th>
<th>gain scan same config as 220282</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>220286</th>
<th>ahcCmLed</th>
<th>restart stage scan from tile 5/0</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>220288</th>
<th>ahcStageScan</th>
<th>continuation of run 220285</th>
</tr>
</thead>
</table>

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...

17.06.2006
16:05
Erika

<table>
<thead>
<tr>
<th>220285</th>
<th>ahcBeamStageScan</th>
<th>-v 26 scan of modules #9,11,12,13 {9, 11 at 0.3V from nominal}</th>
</tr>
</thead>
</table>

Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...

17.06.2006
15:39
Erika

28.09.2007 15:06
220282 ahcCmLed gain calibration !!! higher voltage for module #9 and 11
change vcalib for intercalibration
220283 ahcCmLed intercalibration !!! higher voltage for module #9 and 11
220284 ahcPmLed intercalibration !!! higher voltage for module #9 and 11

Logbook entry: /CALICEelog/data/2006/24/17.06
17.06.2006 15:38 Erika
change NIM crate

NIM crate had 50 Hz noise. exchanged with new one.

Logbook entry: /CALICEelog/data/2006/24/17.06
17.06.2006 15:34 Groll
changed voltage 0.3 V higher for modules 9 and 11.
modules 12 and 13 are left at the same voltage.
measurement of voltage dependence of light yield:

<table>
<thead>
<tr>
<th>Position in stack</th>
<th>Cable Fe</th>
<th>A_V</th>
<th>A_{\mu A}</th>
<th>B_V</th>
<th>B_{\mu A}</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>2</td>
<td>2</td>
<td>42.1</td>
<td>91</td>
<td>42.2</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td>40.1</td>
<td>91</td>
<td>45.3</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>4</td>
<td>40.2</td>
<td>60</td>
<td>40.0</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>5</td>
<td>40.6</td>
<td>73</td>
<td>40.5</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/24/17.06
17.06.2006 14:31 Erika
stopped run 220278 after scan compleated
possible problem with 50 Hz noise rate from NIM crate. to be checked.
settings for intercalibration:
vcalib=50000 in fe 1 (module # 11)
vcalib=50500 in fe 2 (# 9)
220279 ahcCmLed intercalibration in calib mode
220280 ahcPmLed intercalibration in phys mode
back to vcalib for gain calibration
220281 ahcCmLed gain calib

Logbook entry: /CALICEelog/data/2006/24/16.06
16.06.2006 17:12 Sebastian Schaetzel
Gain for module 9

201591 gain Vcalib=49500 50k events module 9 in FE2 tent DAQ computer
201592 pedestal Vcalib=0 10k events dto
cmb

Logbook entry: /CALICEelog/data/2006/24/16.06
16.06.2006 16:57 kirsch
Second CMB calibration

second CMB installed on module 9
new housing used
calibration of led pulses width and height done to get single electron pics at VCalib==49500 like module 11
Pin diode linked to testboard 2 on FE6 slot 12.
First estimate of pin diode holdtime and monitoring point
Logbook entry: /CALICEelog/data/2006/24/16.06  
16.06.2006  Groll  second CMB installed
220273 ahcPmNoise

Logbook entry: /CALICEelog/data/2006/24/16.06  
16.06.2006  Groll  CMB debugging runs
1 220272 ahcBeamStageScan -v 26 3GeV 71 3x3 tiles scanned
stage offset of 6 cm in x, not properly centered to one tile.
run stopped due to power glitch at 6 am in the night.

Logbook entry: /CALICEelog/data/2006/24/15.06  
15.06.2006  Groll  module mapping
Module 5,6,7,8 went back to the tent
Module 9,11,12,13 are now installed in the beam area

<table>
<thead>
<tr>
<th>module</th>
<th>position in stack</th>
<th>cable</th>
<th>e_U[V]</th>
<th>I_A[μA]</th>
<th>e_U[B[V]</th>
<th>I_B[μA]</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>2</td>
<td>2</td>
<td>41.8</td>
<td>77</td>
<td>41.9</td>
<td>70</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
<td>39.8</td>
<td>76</td>
<td>45.0</td>
<td>116</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>4</td>
<td>40.2</td>
<td>61</td>
<td>40.0</td>
<td>59</td>
</tr>
<tr>
<td>13</td>
<td>3</td>
<td>3</td>
<td>40.6</td>
<td>75</td>
<td>40.5</td>
<td>75</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/24/14.06  
14.06.2006  Groll  Automatic Logging status report
runs today: 240012 - 240012

Logbook entry: /CALICEelog/data/2006/24/13.06  
13.06.2006  Groll  Automatic Logging status report
runs today: 240009 - 240011

Logbook entry: /CALICEelog/data/2006/24/13.06  
13.06.2006  eMail to CALICE eLogbook
15:07

------- Forwarded message --------
Date: Tue, 13 Jun 2006 14:20:59 +0200
From: Sven Karstensen <sven.karstensen@DESY.DE>
To: CALICE@LISTSERV.CCLRC.AC.UK
Subject: [CALICE] eMail to CALICE eLogbook

>From now on it’s possible to send eMails to the eLogbook.

send an eMail to the logbook use the following syntax:

- address:* elog@desy.de
- subject:* it has to start with the logbookname and then the title can follow.
- *ex: CALICEelog This is my title/
- body:* any text
- attachment:* only one attachment allowed !!! /Don't use vCards in your mail to
eLogbook/

the new entry will appear every full minute.

enjoy it!

Sven
Logbook entry: /CALICEelog/data/2006/24/13.06
13.06.2006
14:27
This is the **bold** body

Logbook entry: /CALICEelog/data/2006/24/13.06
13.06.2006
13:34
next attachment

Logbook entry: /CALICEelog/data/2006/24/12.06
12.06.2006
23:59
Automatic Logging
status report
---
rungs today: 240005 - 240008

Logbook entry: /CALICEelog/data/2006/24/12.06
12.06.2006
16:20
My Sunday Test
With an attachment

Logbook entry: /CALICEelog/data/2006/24/12.06
12.06.2006
16:18
My Monday Test
Logbook entry: /CALICEelog/data/2006/23/09.06
09.06.2006 23:59 Automatic Logging status report
runs today: 240003 - 240004

Logbook entry: /CALICEelog/data/2006/22/03.06
03.06.2006 23:59 Automatic Logging status report
runs today: 220240 - 220242

Logbook entry: /CALICEelog/data/2006/22/01.06
01.06.2006 17:11 Roman Conversion script restarted
Hi,

I have fixed a severe bug with (fortunately) only minor consequences in the converter script.

The bug prevented the reconstruction to run over more than one lcio file as produced by the conversion. Fortunately, only five runs are affected by this bug

Run 230103
Run 230252
Run 230258
Run 230270
Run 230273

These runs were only partially reconstructed.
After the bug fix I have now restarted the script.

Roman

Logbook entry: /CALICEelog/data/2006/22/01.06
01.06.2006 15:07 Roman Conversion Script
Hi there,

I will make some tests with the conversion script. So please don't touch it for the time being. I will tell you when I am done.

Roman

Logbook entry: /CALICEelog/data/2006/22/01.06
01.06.2006 14:43 Roman Conversion script stopped and restarted !!!!!
Hi there,

today around 11.44h someone has restarted the conversion script on ilc-log01.

In principle there is no problem with that but I have asked a few days ago to make an entry in the elog on who has restarted and why the conversion script needed a restart.

In addition before the restart please make a copy of the nohup.out file i.e.

cd /scratch/convscript

cp ../conv_log/noph.out nohup.bkup.out (or similar)

Thanks in advance,
Logbook entry: /CALICEelog/data/2006/22/01.06
01.06.2006 11:42 Dörte David
assembling status
Now some electronic tests are made already after the complete cabling. So when SiPMs have to be exchanged this could be done during the last steps of assembling before closing the cassette.

Thu, 25 May 2006, 1 box with tiles for cassette 15 - 16 were sent to DESY.
cassettes work in progress: 14
13
12
cassettes ready: 1 - 10 and 11

Logbook entry: /CALICEelog/data/2006/22/31.05
31.05.2006 20:04 Goetz
ECAL test setup
We installed the power supplies in the new rack and connected one single PCB which is fixed in front of the HCAL.
The pedestals are completely unstable. We tried with a second PCB and observed the same result. So, it is presumably a grounding problem.

Logbook entry: /CALICEelog/data/2006/22/31.05
31.05.2006 18:18 Goetz
end of physics runs
Today we stopped the physics running.
We managed to measure:
Angles: 0,10,20,30 and 45.
At angle at least two positions: centre and corner of a wafer:

<p>| | | | | |</p>
<table>
<thead>
<tr>
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All the energies: 1, 1.5, 2, 3, 4,5,6 GeV
Many thanks to everybody: the people doing shifts, the people doing the installation, last but not least the people who gave a lot of local support.

Logbook entry: /CALICEelog/data/2006/22/31.05
31.05.2006 07:31 >
email into eLogbook is working !
Raimund Kammering did a very great job! He installed the mail2elogbook script, to give us the freedom to send data from everywhere into the logbook.
Thanks, Sven
(the instruction, how to do this will follow within the next time !)
Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 23:06 Petr/Marcel
230270 beamData 26 6GeV electrons x(4000)y(2100) 30' overnight run, changed position of y(2100)

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 22:59 Roman
Hi there,

I analyse some runs as they come in.

I have created some histos for run 230267. They include general spectra as well as hitmaps for all layers. They indicate that the quality of the data is in general good.

The histos are based on the reconstructed files to be found under /pnfs/desy.de/calice/tb-desy/rec/rec_prelim.

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 22:29 Petr/Marcel/Goetz
230269 beamData 26 6GeV electrons x(4000)y(1800) 30' 20,000 events

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 21:34 Petr/Marcel/Goetz
230268 beamData 26 1GeV electron x(4000)y(1800) 30' 100,000 events changed y position to 1800

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 19:49 Petr/Marcel/Goetz
physics run
Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 19:48 Petr/Marcel/Goetz run stop
No beam for several minutes since DORIS is filled. Stopped run.

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 19:01 Goetz/Marcel/Petr
230266 beamData 26 5GeV electron x(4000)y(2100) 30' 100,000 events
continuation of 230266

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 18:11 Goetz/Marcel/Petr/George
230265 beamData 26 1GeV electron 30' position: x(4000)y(2100) 100,000 events

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 18:08 Goetz/Marcel/Petr/George
230264 emcNoise angle 30' position: x(4000)y(2100)

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 17:55 Goetz/Marcel/Petr/George rotation of ECAL
We rotated ECAL for 30 degrees

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 16:40 Petr/Marcel/Goetz physics run
230263 beamData 26 electron x(3390)y(2400) 100,000 events. Position moved to the center of middle right wafer
Logbook entry: /CALICEelog/data/2006/22/30.05

30.05.2006 14:56  
Goetz/George/Hakan/Yoshi  physics run

230261 beamData v.26 3.0 GeV electron x(4620) Y(1800) 0deg 100,000 events. Position moved to X(4620) Y(1800) (center of top left wafer).

Logbook entry: /CALICEelog/data/2006/22/30.05

30.05.2006 14:03  
Goetz/George/Hakan/Yoshi  physics run

230260 beamData v.26 5.0 GeV electron x(4000) Y(2100) 0deg 40,000 events. Position moved to X(4000) Y(2100).
30.05.2006 13:27 Goetz/George/Hakan/Yoshi  physics run
230259 beamData v.26 3.0GeV electron x(4000) Y(2400) 0deg 50,000 events. Shutter was closed for first ~2000 events.

30.05.2006 12:32 Goetz/George/Hakan/Yoshi  dac hold scan
230258 emcVfeHoldScan 75

30.05.2006 12:22 Goetz/George/Hakan/Yoshi  no beam
access to DESY II
Logbook entry: [CALICEelog/data/2006/22/30.05]

30.05.2006 10:52  Hakan/Yoshi  physics run

230257 beamData v.26 3.0 GeV electron x(4000) Y(2400) 0deg After ~54,000 events, magnet had down.

Logbook entry: [CALICEelog/data/2006/21/23.05]

30.05.2006 09:55  Yoshinari Mikami
confirmed that over-night run#230137 is stopped around 112k events.

Logbook entry: [CALICEelog/data/2006/22/30.05]

30.05.2006 09:36  Hakan/Yoshi  physics run

230256 beamData v.26 1.5 GeV electron x(4000) Y(2400) 0deg Position moved to X(4000), Y(2400). 100,000 events
Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 09:06  Yoshi  physics run
230255  beamData v.26 1.5GeV electron x(4000)y(1800) 0deg 50,000 events

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 08:47  Yoshi  physics run
230254  beamData v.26 6GeV electron x(4000)y(1800) 0deg 10k events
Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 07:51 Yoshi
physics run

23025 beamData v.26 5GeV electron x(4000)y(1800) 0deg 50,000 events

Logbook entry: /CALICEelog/data/2006/22/30.05
30.05.2006 00:55 Roman
cp_script disabled

Hi there,

the copy script running on flccalice00 has been disabled until 8am this morning (30.5.06).

At that time it will resume copying.

Roman
Logbook entry: /CALICEelog/data/2006/22/29.05
30.05.2006  Goetz/Hakan
00:29 physics run
230252 beamData 26 electron x(4000)y(1800)
restarted without event limit

Logbook entry: /CALICEelog/data/2006/22/29.05
30.05.2006  Goetz/Hakan
00:14 physics run
230251 beamData 26 electron x(4000)y(1800)
Left overnight

Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006  Goetz/Hakan
23:16 physics run
230250 beamData 26 electron x(4000)y(1800)
50,000 events rather than 100,000

Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006  Goetz/Hakan
21:55 physics run
230249 beamData 26 electron x(4000)y(1800)

Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006  Grp::
21:07 AHCAL cosmics run
201354 ahcCosmics-v13 module 1,2,3,4

Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006  Petr/Goetz/Hakan
20:55 physics run
Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 19:45 Goetz/Hakan
physics run

230248 beamData 26 3GeV electron x(4000) y(1800) 0

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 19:44 Goetz/Hakan
physics run

aborted. Planned to change energy.

230247 beamData 26 2 electron x(4000) y(1800) 0

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 19:36 Goetz/Hakan
noise run

230246 beamData 26 1.5 electron x(4000) y(1800) 0
aborted. Planned to change energy.

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 19:35 Goetz/Hakan
verified connections

noise run

230245 encNoise 0
Noise seems to be fine for the time being

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 18:09 Goetz/Hakan
verified connections

physics run

230244 beamData 26 1.5 electron x(4000) y(1800) 0
High noise (~10ADC) in layer 11 for events 25000 to 50000

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 17:54 Goetz/Hakan
physics run

shutter was closed for first 1500 events noisy at the beginning of the run.
aborted after 17k events

230243 beamData 26 1.5 electron x(4000) y(1800) 0

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 17:50 Goetz/Hakan
noise run

230242 beamData 26 1.5 electron x(4000) y(1800) 0
aborted after 10k events due to high noise on PCB3_C (layer 2)

Logbook entry: CALICE eLogbook/data/2006/22/29.05
29.05.2006 17:40
aborted after 10k events due to high noise on PCB3_C (layer 2)
29.05.2006 16:30  physics run

230239 beamData  v.26 1 GeV e- x=(4000) y=(1800) 0 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/22/29.05

29.05.2006 16:28  noise runs

Goetz/Hakan

230236 emcNoise  x(4000) y(1800) 0 ECAL was off
230237 emcNoise  x(4000) y(1800) 0 ECAL was on
230238 emcNoise  x(4000) y(1800) 0 ECAL was on

Noise looked fine

Logbook entry: /CALICEelog/data/2006/22/29.05

29.05.2006 16:10  Ecal rotate

Geroge/Goetz/Marcel/Yoshi

rotate ecal to angle=0 deg

Logbook entry: /CALICEelog/data/2006/22/29.05

29.05.2006 14:14  physics run

Geroge/Goetz/Marcel/Yoshi

230235 beamData  v.26 6 GeV e- x=(4310) y=(2100) 10 degrees 50,000 events

Logbook entry: /CALICEelog/data/2006/22/29.05

29.05.2006 11:33  physics run

Mercel/Yoshi

230234 beamData  v.26 5 GeV e- x=(4310) y=(2100) 10 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006 09:44 Mercel/Yoshi  physics run
230233 beamData v.264 GeV - X=(4310) Y=(2100) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006 08:49 Mercel/Yoshi  physics run
230232 beamData v.264 GeV - X=(4310) Y=(2100) 10 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/22/29.05
29.05.2006  07:57  Mercel/Yoshi  physics run
230231 beamData v.26 1.5 GeV e-  
X=(4310) Y=(2100) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
29.05.2006  07:51  Yoshi  comments
yesterday's over-night run 230230 looks to have mostly been taken with less beam as attached distribution.

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006  23:37  George/Marcel  physics run
CALICE eLogbook

230230 beamData v.26 6 GeV - x=(4310) y=(2100) 10 degrees 100,000 events

left running unattended, expected to finish in 3hr if rate=10Hz

Logbook entry: CALICEelog/data/2006/21/28.05
28.05.2006 22:37 George/Marcel physics run

230229 beamData v.26 3 GeV - x=(4310) y=(2100) 10 degrees 100,000 events

Logbook entry: CALICEelog/data/2006/21/28.05
28.05.2006 21:45 George/Marcel physics run

230228 beamData v.26 1 GeV - x=(4310) y=(2100) 10 degrees 100,000 events

pcb:8_C at layer#:4 (connected to slot:19 fe:1) looks noisy, see plots at page 2
Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 George/Marcel physics run
20:54 230227 beamData v.26.1 GeV e- X=(4000) Y=(1800) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 George/Marcel physics run
19:57 230226 beamData v.26 1.5 GeV e- X=(4000) Y=(1800) 10 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 Groll
19:16 cosmic run
201339 ahcCosmics 17 files, all currents fine
201340 ahcCosmics

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 George/Marcel
18:20 physics run
230225 beamData v.26 2 GeV e- X=(4000) Y=(1800) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 George/Marcel
17:26 physics run
230224 beamData v.26 3 GeV \( \gamma \)\( (4000) \) \( \gamma \)\( (1800) \) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 14:42 Wenbiao/Yoshi physics run

230223 beamData v.26 6 GeV \( \gamma \)\( (4000) \) \( \gamma \)\( (1800) \) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 12:58 Wenbiao/Yoshi physics run

230222 beamData v.26 5 GeV \( \gamma \)\( (4000) \) \( \gamma \)\( (1800) \) 10 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 11:00 Wenbiao/Yoshi
physics run
230221 beamData v.26 4GeV X=(4000) Y=(1800) 10 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 10:39 Wenbiao/Yoshi
junk run
230220 beamData v.26 4GeV X=(4000) Y=(1800) 10 degrees Junk run. Restarted new run.
Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006  10:30  Wenbiao/Yoshi  slow controll PC reboot
We noticed Ecal slow controll monitor have been hung up. -> called Goetz -> rebooted the PC which is for slow controlls. -> O.K.

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006  09:55  Wenbiao/Yoshi  physics run
230219 beamData v.26 4GeV  X=(4000)  Y=(1800)  10 degrees
We noticed that slow controll panel is hung up in a way. Stopped this run (~18k events). We have redone as run#230221 (100k events).

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006  07:56  Yoshi  physics run
230218 beamData v.26 5GeV $X=(4000) \hspace{1cm} Y=(1800)$ 10 degrees slow controll might have been hung up. We have redone as run#230222.

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 00:40 Goetz/Wenbiao/Yoshi physics run

230217 beamData v.26 6GeV $X=(4000) \hspace{1cm} Y=(1800)$ 10 degrees slow controll might have been hung up in a way. We have started again as run#230223 later.

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 00:31 Goetz/Wenbiao noise run

Logbook entry: /CALICEelog/data/2006/21/28.05
28.05.2006 00:30 Goetz/Wenbiao

Ecal rotate

Changed angle to 10 degrees.

27.05.2006 20:55 Goetz/Wenbiao

230213 beamData 26 electron x(4310) y(2100) 20

27.05.2006 19:20 Goetz/Wenbiao

230214 beamData 26 electron x(4310) y(2100) 20

27.05.2006 17:53 Wenbiao/Goetz

230213 beamData 26 electron x(4310) y(2100) 20

27.05.2006 17:51 Wenbiao/Goetz

230211 emcNoise 20

230212 emcNoise 20

Probably loose scsi connection pcb26_C (layer 19) prior to this run. Tried to fasten connectors.

27.05.2006 16:28 Goetz/Wenbiao

230210 beamData v.26 1.0GeV electron x(4310) y(2100) 20 100,000 events

27.05.2006 15:36 Yoshi/Marcel

230209 beamData v.26 2GeV electron x(4310) y(2100) 20 100,000 events

27.05.2006 14:32 Yoshi/Marcel

230208 beamData v.26 1.5GeV electron x(4310) y(2100) 20 100,000 events

Logbook entry: /CALICEelog/data/2006/21/27.05

Logbook entry: /CALICEelog/data/2006/21/27.05

Logbook entry: /CALICEelog/data/2006/21/27.05

Logbook entry: /CALICEelog/data/2006/21/27.05

Logbook entry: /CALICEelog/data/2006/21/27.05

Logbook entry: /CALICEelog/data/2006/21/27.05
Logbook entry: /CALICEelog/data/2006/21/27.05

**27.05.2006**  Yoshi/Marcel  physics run

13:42  

230207 beamData v.26 1GeV electron x(4310) y(2100) Position mover to X(4310) and Y(2100). 100,000 events

Logbook entry: /CALICEelog/data/2006/21/27.05

**27.05.2006**  Yoshi/Marcel  physics run

10:49  

230206 beamData v.26 6GeV electron x(4310) y(1800) 100,000 events
Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 07:29 Goetz/Yoshi physics run
230205 beamData v.26 5GeV electron x(4000) y(1800) 20 100,000 events

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 06:17 Goetz/Boris physics run
230204 beamData v.26 electron x(4000) y(1800) 20

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 05:20 Goetz/Boris physics run
230203 beamData v.26 electron x(4000) y(1800) 20
Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 04:22 Goetz/Boris physics run
230202 beamData 26 electron x(4000) y(1800) 20

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 03:23 Goetz/Boris physics run
230201 beamData 26 electron x(4000) y(1800) 20

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 02:24 Goetz/Boris physics run
230200 beamData 26 electron x(4000) y(1800) 20

High noise (10-24 ADC) layer 21 PCB17_C for events 15k-55k.

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 02:22 Goetz/Boris noise run
230199 emcNoise tried to improve connection to PCB13_C

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 02:18 Goetz/Boris physics run
230197 beamData 26 electron x(4000) y(1800) 20

high noise level probably caused by a loose scsi connection at the PCB.

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 01:05 Goetz/Boris physics run
230196 beamData 26 electron x(4000) y(1800) 20

High noise level at the end of the run in layer 11 PCB13_C

Logbook entry: /CALICEelog/data/2006/21/27.05
27.05.2006 01:02 Goetz/Boris noise run
230193 emcNoise ECAL was off
230194 emcNoise slightly higher noise (~8ADC) in layer 10 (PCB12_C)
230195 emcNoise recabled PCB12_C

Logbook entry: /CALICEelog/data/2006/21/26.05
27.05.2006 00:09 Marcel/George Ecal rotate
rotating ecal to angle = 20 deg

Logbook entry: /CALICEelog/data/2006/21/26.05
Logbook entry: [CALICEelog/data/2006/21/26.05](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)

26.05.2006
22:58  Marcel/George  physics run

| 230192 | beamData v.26 4 GeV | $X(4000)$ | $X(2100)$ | 30 degrees | 100,000 events |

Logbook entry: [CALICEelog/data/2006/21/26.05](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)

26.05.2006
21:51  Marcel/George  physics run

| 230191 | beamData v.26 3 GeV | $X(4000)$ | $X(2100)$ | 30 degrees | 100,000 events |

Logbook entry: [CALICEelog/data/2006/21/26.05](http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...)

26.05.2006
20:57  Marcel/George  physics run

| 230190 | beamData v.26 2.0 GeV | $X(4000)$ | $X(2100)$ | 30 degrees | 100,000 events |
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 19:53 Marcel/George
physics run

230189 beamData v.26 1.5 GeV e+ X(4000) Y(2100) 30 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 19:52 Marcel/George
physics run

230188 beamData v.26 6.0 GeV e+ X(4310) Y(2100) 30 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 Wenbiao/Yoshi physics run
15:03

230187 beamData v.26.0 GeV - X(4310) Y(2100) 30 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 Wenbiao/Yoshi physics run
14:04

230187 beamData v.26.0 GeV - X(4310) Y(2100) 30 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006  Wenbiao/Yoshi
12:57 physics run
230185 beamData v.26 3.0 GeV - X(4310) Y(2100) 30 degrees 100,000 events

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006  Wenbiao/Yoshi
11:53 physics run
230184 beamData v.26 2.0 GeV - X(4310) Y(2100) 30 degrees 100,000 events
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 11:10 Wenbiao/Yoshi
physics run
230183 beamData v.26 1.5GeV electron X(4310) Y(2100) 30 deg 100,000 events

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 10:16 Wenbiao/Yoshi
Physics run
230182 beamData 2GeV electron X(4310) Y(2100) 30 deg position moved to X(4310) Y(2100), 100,000 events
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 Erika trigger timing
10:13 measured difference between internal and external trigger coincidence (26 and 13)
the internal coincidence comes 12 ns earlier than the external one. (~ 2 ticks)

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 Erika trigger timing
10:04 measured difference between internal and external trigger coincidence (26 and 13)
the internal coincidence comes 12 ns earlier than the external one. (~ 2 ticks)

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 Goetz/ Marcel / Yoshi physics run
07:05 230181 beamData 26 electron x(4000) y(1800) 30~83k events

During beam down, trigger timing study was done.
Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 05:34 Goetz/Marcel
230180 beamData 26 electron x(4000) y(1800) 30

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 05:33 Goetz/Marcel
230179 beamData 26 electron x(4000) y(1800) 30

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 03:38 Goetz/Marcel
physics run
230178 beamData 26 electron x(4000) y(1800) 30

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 03:24 Goetz/Marcel
increased noise in layer 25
After changing the rotation angle to 30, the noise increased from 6 to 9 ADC in layer 25 (PCB22_C).

Probably, it was caused by a "loose" scsi connector at the PCB.

Impact on runs:
230174
230175
230176

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006 03:03 Goetz/Marcel
physics run
230176 beamData 26 electron x(4000) y(1800) 30 aborted after ~20k events

Logbook entry: /CALICEelog/data/2006/21/26.05
26.05.2006  02:00  Goetz/Marcel  
physics run

Logbook entry: /CALICEelog/data/2006/21/26.05

26.05.2006  00:40  Goetz/Marcel
physics run

Logbook entry: /CALICEelog/data/2006/21/26.05

26.05.2006  00:40  Goetz/Marcel
physics run

Logbook entry: /CALICEelog/data/2006/21/26.05

26.05.2006  00:32  Goetz Gaycken
noise run

Logbook entry: /CALICEelog/data/2006/21/26.05

26.05.2006  00:31
ECAL rotated to angle = 30 deg

Logbook entry: /CALICEelog/data/2006/21/26.05

25.05.2006  23:21  Wenbiao/George
physics run

Logbook entry: /CALICEelog/data/2006/21/26.05

25.05.2006  22:26  Wenbiao/George
physics run

Logbook entry: /CALICEelog/data/2006/21/26.05

25.05.2006 21:49  G. Mavromanolakis  summary: runs at 0 deg

summary of runs with ECAL at angle = 0 deg

runs at center of wafer
[ ] [x] [ ]
[ ] [ ] [ ]

stage X=4000  Y=1950

run#  e- beam (GeV)
-----------------------
230098  1
230099  2
230097  3
230100  4
230104  5
230101  6

runs at edge of wafer
[ ] [ ] [ ]
[ ] [x] [ ]

stage X=4000  Y=2100

run#  e- beam  events (GeV)
---------------------------
230132  1          100k
230133  2          100k
230134  3          100k
230135  4          100k
230136  5          60k
230137  6          150k
230146  1.5         100k

runs at corner of wafers
[ ] [ ] [ ]
[ x] [ ] [ ]

stage X=4310  Y=2100

run#  e- beam  events (GeV)
---------------------------
230138  1          100k
230139  2          100k
230141  3          100k
Hi there,

the conversion+reconstruction runs has kept up with the data taking. Currently, it waits for the end of Run230169.

Roughly 45 Min. after a run has finished. The converted lcio files and reconstructed files are available.

The converted files can be found under
/pnfs/desy.de/calice/tb-desy/raw/conv_v0310/Run230*

The reconstructed files can be found under
/pnfs/desy.de/calice/tb-desy/rec/rec_prelim/Run230*_rec*

The histograms can be found on ilc-log01 under
/scratch/convscript/histos

To ilc-log01 you have to logon with the afs password of the user caliceon.

Since I learned that you are going for nightshifts I have disabled the 'hibernate' modus of the copy script running on flccalice00 which stopped copying between 23h and 9h.

Like that the copying, conversion + reconstruction is not interrupted during the night as it was the case last night.

To the copy script:

To change its behaviour do the following

login of flccalice00 as user caliceon (non-afs)

> cd bin
> kill -9 'ps aux | grep cp_bin.pl | awk '{print $2}''
> mv nohup.out nohup_bkup.out
> edit the 'cp_bin.pl' script (the hibernate modus is set right at the beginning)
> nohup cp_bin.pl > nohup.out

Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006 20:13 Roman

Conversion script + copy script

Hi there,

the conversion+reconstruction runs has kept up with the data taking. Currently, it waits for the end of Run230169.

Roughly 45 Min. after a run has finished. The converted lcio files and reconstructed files are available.

The converted files can be found under
/pnfs/desy.de/calice/tb-desy/raw/conv_v0310/Run230*

The reconstructed files can be found under
/pnfs/desy.de/calice/tb-desy/rec/rec_prelim/Run230*_rec*

The histograms can be found on ilc-log01 under
/scratch/convscript/histos

To ilc-log01 you have to logon with the afs password of the user caliceon.

Since I learned that you are going for nightshifts I have disabled the 'hibernate' modus of the copy script running on flccalice00 which stopped copying between 23h and 9h.

Like that the copying, conversion + reconstruction is not interrupted during the night as it was the case last night.

To the copy script:

To change its behaviour do the following

login of flccalice00 as user caliceon (non-afs)

> cd bin
> kill -9 'ps aux | grep cp_bin.pl | awk '{print $2}''
> mv nohup.out nohup_bkup.out
> edit the 'cp_bin.pl' script (the hibernate modus is set right at the beginning)
> nohup cp_bin.pl > nohup.out
Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006   Wenbiao/George
18:00       beam is back, was off for almost 1 hr (17:00 to 18:00), Run230168 continues

Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006   Wenbiao/George
16:43       physics run

Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006   C Targett-Adams/ Yoshinari Mikami
15:26       physics run
Logbook entry: /CALICEelog/data/2006/21/25.05

25.05.2006   C Targett-Adams/ Yoshinari Mikami
15:04

We checked that Ecal hits are enough measured within Ecal x range after Ecal is rotated 45 degrees.

(in run#230163, X(4310) Y(2100) [corner of wafers], 1 GeV)

Logbook entry: /CALICEelog/data/2006/21/25.05

25.05.2006   C Targett-Adams/ Yoshinari Mikami
14:18

physics run

230166 beamData 26 3GeV electron X(4310) Y(2100) 45 deg 100,000 events

Logbook entry: /CALICEelog/data/2006/21/25.05

25.05.2006   C Targett-Adams
13:49

6 Dead Channels (99.9% active)
There are 6 (out of 5184) dead channels.
Slot7 Fe7 Chip3 Chan10
Slot15 Fe5 Chip5 Chan3
Slot15 Fe5 Chip6 Chan0
Slot17 Fe2 Chip5 Chan0
Slot19 Fe2 Chip11 Chan17
Slot19 Fe4 Chip5 Chan10

Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006 13:20 C Targett-Adams/ Yoshinari Mikami physics run
230165 beamData 26 2GeV electron X(4310) Y(2100) 45 deg 100,000 events

Logbook entry: /CALICEelog/data/2006/21/25.05
25.05.2006 12:31 C Targett-Adams/ Yoshinari Mikami physics run
230164 beamData 26 1.5GeV electron X(4310) Y(2100) 45 deg 100,000 events
Logbook entry: /CALICEelog/data/2006/21/25.05  
25.05.2006 11:31  C Targett-Adams/ Yoshinari Mikami  physics run

230163 beamData 26 GeV e- X(4310) Y(2100) 45deg position moved to X(4310) Y(2100). 100,000 events

Logbook entry: /CALICEelog/data/2006/21/25.05  
25.05.2006 08:20  C Targett-Adams

230162 beamData 26 GeV electron x(4000) y(1800) 45 100,000 events target 1mm Al

Logbook entry: /CALICEelog/data/2006/21/24.05  
25.05.2006 06:48  Marcel/Goetz
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Name(s)</th>
<th>Beam Energy (GeV)</th>
<th>Electron Position (x, y)</th>
<th>Events</th>
<th>Target Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.05.2006</td>
<td>06:43</td>
<td>Marcel/Goetz</td>
<td>5</td>
<td>(4000, 1800)</td>
<td>100,000</td>
<td>1 mm Al</td>
</tr>
<tr>
<td>25.05.2006</td>
<td>06:37</td>
<td>Marcel/Goetz</td>
<td>5</td>
<td>(4000, 1800)</td>
<td>5,000</td>
<td>1 mm Cu wire</td>
</tr>
<tr>
<td>25.05.2006</td>
<td>06:35</td>
<td>Marcel/Goetz</td>
<td>5</td>
<td>(4000, 1800)</td>
<td>5,000</td>
<td>3 mm Cu</td>
</tr>
<tr>
<td>25.05.2006</td>
<td>05:22</td>
<td>Marcel/Hakan/Goetz</td>
<td>4</td>
<td>(4000, 1800)</td>
<td>100,000</td>
<td>1 mm Al</td>
</tr>
<tr>
<td>25.05.2006</td>
<td>04:34</td>
<td>Marcel/Hakan/Goetz</td>
<td>3</td>
<td>(4000, 1800)</td>
<td>100,000</td>
<td></td>
</tr>
<tr>
<td>25.05.2006</td>
<td>03:38</td>
<td>Marcel/Hakan/Goetz</td>
<td>2</td>
<td>(4000, 1800)</td>
<td>500,000</td>
<td></td>
</tr>
<tr>
<td>25.05.2006</td>
<td>02:53</td>
<td>Marcel/Hakan/Goetz</td>
<td>1</td>
<td>(4000, 1800)</td>
<td>500,000</td>
<td></td>
</tr>
<tr>
<td>25.05.2006</td>
<td>02:02</td>
<td>Marcel/Hakan/Goetz</td>
<td>1.5</td>
<td>(4000, 1800)</td>
<td>100,000</td>
<td></td>
</tr>
</tbody>
</table>

**Logbook entry:** CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log...
Logbook entry: /CALICEelog/data/2006/21/24.05
25.05.2006 00:45 Marcel/Hakan/Goetz Noise runs
Noise runs
230148 crcNoise x(4310) y(1800) 45
230149 emcNoise x(4310) y(1800) 45
230150 beamData 13 x(4310) y(1800) 45

Logbook entry: /CALICEelog/data/2006/21/24.05
25.05.2006 00:15 Marcel/Hakan/Goetz/George/Yan/Yoshi rotate ecal
rotate ecal to angle=45 deg

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 23:20 George/Yan/Yoshi physics run
ecal moved to X(4310) Y(1800)

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 22:20 George/Yan/Yoshi physics run
ecal moved back to X(4000) Y(2100)
Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 20:40 George/Yan/Yoshi physics run
23014 beamData 26 5.0 GeV e- X(4310) Y(2100) 0 100,000 events

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 20:33 George/Yan/Yoshi physics run
23014 beamData 26 5.0 GeV e- X(4310) Y(2100) 0 junk run, wrong energy, immediately stopped.

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 17:44 George/Yan/Yoshi Physics run
Hi there,

today (24.5.06) around 13.35h someone has restarted the converter script on ilc-log01.

Since parallel the nohup.out file has been deleted
I cannot verify whether conversion and/or reconstruction failed or someone has stopped the script by hand.

The last run which was converted and reconstructed (230136) does however look alright.

Does anyone have an idea why the converted script was stopped (did stop)?

On the other hand I was unprecise in giving instructions

• *** Important ****

If you want to restart the converter script please do it with the command

nohup ./ilcFileCopy.pl --with-reco

in the directory /scratch/convscript

on ilc-log01.

By that the reco is automatically launched for the ecal-testbeam runs (no reco but only conversion for the runs in the tent!!!).

Please *don't* delete the nohup.out file as it contains important info on what's going on.

• ***

I have now restarted the script and it should resume with the currently ongoing run 230142.

The runs (230137 - 230141) for which reconstruction + histos are missing I will reconstruct by hand and put the histos in the proper place.

If you're forced to stop the script please make an entry in the elog who and why.

Thanks and Cheers,

Roman
Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 16:08 George/Yan/Yoshi

physics run

230142 beamData 26 4GeV e- X(4310) Y(2100) 0100,000

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 15:58 Dörte David

assembling status

In cassette no. 10 we have to exchange some SiPMs of the 3x3 tiles.

cassettes work in progress: 14
13
12
11
cassettes ready: 1 - 10

Logbook entry: /CALICEelog/data/2006/21/24.05
24.05.2006 14:02 C Targett-Adams, Hakan Yilmaz

230141 beamData v.26 3 e- X(4310) Y(2100) angle(0 degs) 100000 events
Logbook entry: /CALICElog/data/2006/21/24.05
24.05.2006 13:03 C Targett-Adams, Hakan Yilmaz
230140 beamData v.26 1.5 e- X(4310) Y(2100) angle(0 degs) 100000 events

Logbook entry: /CALICElog/data/2006/21/24.05
24.05.2006 12:01 C Targett-Adams, Hakan Yilmaz
230139 beamData v.26 2.0 e- X(4310) Y(2100) angle(0 degs) 100000 events

Logbook entry: /CALICElog/data/2006/21/24.05
24.05.2006 12:01 C Targett-Adams, Hakan Yilmaz
230138 beamData v.26 1.0 e- X(4310) Y(2100) angle(0 degs) 100000 events

Logbook entry: /CALICElog/data/2006/21/23.05
24.05.2006 12:00 C Targett-Adams, Hakan Yilmaz
No beam. Problem with preaccelerator. No estimate of time it'll take to fix.

Logbook entry: /CALICElog/data/2006/21/23.05
24.05.2006 10:48 Roman
Move entries to 24.5.06
Hi Hakan and Chris,

can you please make your entries under 24.5.06 and not under the 23.5.06.

Thanks,

Roman

Logbook entry: /CALICElog/data/2006/21/23.05
24.05.2006 10:10 C Targett-Adams, Hakan Yilmaz
Logbook entry: /CALICEelog/data/2006/21/23.05

24.05.2006

08:16

Status

No beam. Problem with preaccelerator. No estimate of time it'll take to fix.

Logbook entry: /CALICEelog/data/2006/21/23.05

24.05.2006

00:30

G. Mavromanolakis

physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006

23:06

G. Mavromanolakis

physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006

23:06

G. Mavromanolakis

physics run
Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 22:07 G.Mavromanolakis physics run
230135 beamData v.26 4 GeV $e^-$ x=4000 y=2100 angle=0 deg 100000 events

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 21:23 G.Mavromanolakis physics run
230134 beamData v.26 3 GeV $e^-$ x=4000 y=2100 angle=0 deg 100000 events
Hi there,

I would like to inform you that run 230097 was successfully processed through the whole chain, i.e. conversion + reconstruction + copying the slcio files to the dcache.

Silently, all other runs will now be processed. Latest by tomorrow the conv+rec files should be only shortly behind the actual data taking.

If someone has the time he/she might have a look at the histos (I will do so tomorrow).

Once more machine 'ilc-log01'
directory '/scratch/convscript/histos'

Cheers,

Roman

Hi there,

after the correction of the trigger definitions I have restarted the conversion script on ilc-log01.

I will sit and watch fro remote a bit whether it works technically as expected. Conversion (and reconstruction) starts at Run230097 and should keep up with data taking relatively soon.

To summarize once more:

The histos to the runs can be found on ilc-log01 under

/scratch/convscript/histos
The reconstructed files are copied to /pnfs/desy.de/calice/tb-desy/rec/rec_prelim

For documentation purposes: The script can be found under (on ilc-log01):
/scratch/convscript/ilcFileCopy.pl
(try ./ilcFileCopy.pl --help for more info)

The copy which copies the files to the dcache is set to hibernate between 23h and 9h.
To change that go to flccalice00 (as user caliceon)
cd ~/bin
vi cp_bin.pl
Stop and start the script.

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 19:20 Marcel/Yoshi physics run
230132 beamData 26 1GeV e- X(4000) Y(2100) 0 100,000 events with 1GeV

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 19:10 Marcel/Yoshi collimeter test
230131 beamData 26 6.0GeV e- X(4000) Y(2100) 0 collimeter study. To check frequency at 6GeV about 10Hz.

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 18:44 Marcel/Yoshi physics run
230130 beamData 26 1GeV e- X(4000) Y(2100) 0 collimeter is backed (with Kallimator-Steuerung monitoring module show roughly 4.0).

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 18:32 Marcel/Yoshi Physics run
230129 beamData 26 1GeV e- X(4000) Y(2100) 0 From this run, y position is calibrated. X(4000) y(2100) means center x position and y between two wafers in top two wafers.

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 18:18 Marcel/Yoshi test run
230128 beamData 26 3.0GeV e- X(4000) Y(2100) 0 test run

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 17:37 C Targett-Adams DAC scan analysis (230048) for Slot 19
Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 17:36 C Targett-Adams
DAC scan analysis (230048) for Slot 17

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006 17:36 C Targett-Adams
DAC scan analysis (230048) for Slot 15
DAC scan analysis (230048) for Slot 7

The code is now sitting on flccaliceon00. I've had to hack about with it a bit to get it to work (memory issues). It needs tidying up over the next few days and then I'll put some instructions up for anyone to use.

y position scan

Mean: 76.8 +/- 0.11 mm
Sigma: 7.77 +/- 0.11 mm

y position scan

Mean: 67.4 +/- 0.11 mm
Sigma: 8.66 +/- 0.09 mm

y position scan

Mean: 58.2 +/- 0.11 mm
Sigma: 9.14 +/- 0.10 mm

collimeter test

Mean: 76.8 +/- 0.11 mm
Sigma: 7.77 +/- 0.11 mm

Mean: 67.4 +/- 0.11 mm
Sigma: 8.66 +/- 0.09 mm

Mean: 58.2 +/- 0.11 mm
Sigma: 9.14 +/- 0.10 mm

23.05.2006 16:35 Marcel/Yoshi collimeter test

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 16:27 Marcel/Yoshi collimeter test

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 16:21 Marcel/Yoshi y position scan

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 16:19 Marcel/Yoshi y position scan

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 16:13 Marcel/Yoshi collimeter test

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 16:07 Marcel/Yoshi y position scan

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 15:48 Marcel/Yoshi y position scan

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006 15:31 Marcel/Yoshi y position scan

Logbook entry: /CALICEelog/data/2006/21/23.05
Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
15:16
Roman
Conversion script stopped
Hi there,
due to problems with trigger definitions the automatic
conversion and reconstruction has been stopped.
I will try to identify the problem and keep you informed.
Roman

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
15:08
y position scan
230114 beamData 26 3.0 GeV- X(4000) Y(2350) 0 test run

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
15:02
y position scan
Marcel/Yoshi
230113 beamData 26 3.0 GeV electrons X(4000) Y(2350) 0 y position scan
Mean: 0.11 +/- 0.12 mm
Sigma: 9.56 +/- 0.12 mm

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
14:59
y position scan
Yoshi Mikami
230112 beamData 26 3.0 GeV electrons X(4000) Y(2450) 0 Junk run

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
14:48
y position scan
Chris Targett-Adams
230111 beamData 26 3.0 GeV electrons X(4000) Y(2650) 0 y position scan
Mean: -9.55 +/- 0.1 mm
Sigma: 7.5 +/- 0.1 mm

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
14:12
y position scan
Marcel/Yoshi
230110 beamData 26 3.0 GeV electrons X(4000) Y(2550) 0 y position scan
Mean: -9.41 +/- 0.11 mm
Sigma: 8.43 +/- 0.11 mm

Logbook entry: /CALICEelog/data/2006/21/23.05
23.05.2006
14:08
y position scan
Chris Targett-Adams
Run 230109 - Y position scan
230109 beamData 26 3.0 GeV- X=4000 Y=2550 0 y position scan
mean: -9.41 +/- 0.11 mm
sigma: 8.43 +/- 0.11 mm
23.05.2006
13:10  Marcel/Yoshi  physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
12:33  Marcel/Yoshi  physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
12:21  Marcel/Yoshi  Physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
09:39  Karakash  cosmic run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
09:00  Goetz Gaycken  physics run

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
08:59  Goetz Gaycken  slow control

all currents fine. HV I~43μA

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
08:58  Goetz Gaycken  hold scan

Logbook entry: /CALICEelog/data/2006/21/23.05

23.05.2006
08:56  Goetz Gaycken  hold scan

Logbook entry: /CALICEelog/data/2006/21/22.05

23.05.2006
23:45  Goetz Gaycken  physics run new collimator settings

Logbook entry: /CALICEelog/data/2006/21/22.05
22.05.2006 23:41 Goetz Gaycken

collimator settings
changed all collimators to 5mm in the hope that there are less multi particle events.

Logbook entry: CALICE eLogbook/data/2006/21/22.05

22.05.2006 22:19 Goetz Gaycken

physics run

230100 beamData 26 4 electrons x(4000) y(1950) 0

Logbook entry: CALICE eLogbook/data/2006/21/22.05

22.05.2006 22:18 Roman

Reconstruction launched

Hi there,

For runs > 230093 (arbitrarily chosen) I have changed the converter script such that the reconstruction (as written by Goetz) is automatically launched after the conversion.

The reconstructed files are written to

/pnfs/desy.de/calice/tb-desy/rec_rec_prelim/

• ****
• ***Correction: /pnfs/desy.de/calice/tb-desy/rec/rec_prelim/
• ****

Maybe more important the root files are written to ilc-log01 under /scratch/convscript/histos/ the abbreviation are 'shs' for the histos produced by SimpleHitSearch 'pnh' for the PedestalNoiseHistograms and 'avg' for the AverageNoiseGraph.

The reconstructed and root files carry the runnumber of the run under consideration.
The first run for which the reco is to be launched is the next run *230097*.
For the record: The reconstruction has the tag-id v03-01-01
For the userlib I have created the patch v03-06-02.
Since this is the first time that the reconstruction is regularly launched i will try to follow as closely as possible that the reco works technically as well as that the files contain reasonable information (In fact they should).
That's it for the time being.

Good continuation,

Roman

Logbook entry: CALICE eLogbook/data/2006/21/22.05

22.05.2006 21:41 Goetz Gaycken

physics run

230099 beamData 26 2 electrons x(4000) y(1950) 0

Logbook entry: CALICE eLogbook/data/2006/21/22.05

22.05.2006 21:05 Goetz Gaycken

physics run

230098 beamData 26 1 electron x(4000) y(1950) 0

Logbook entry: CALICE eLogbook/data/2006/21/22.05
Goetz Gaycken physics run

230097 beamData 26 electrons x(4000) y(1950)

Paul instructions!!!

In case all goes wrong, then crash out and restart. As the program works now, it should be able to restart and go again without changes, unless something happens to the hardware. To start up from scratch, then you need to be connected to both flccalice00 and 01, sitting in the online dir in both cases. On flccalice01, do startSkt and then on flccalice00, do startUp.

If the previous time things crashed, then you won't be able to start as the .lock file(s) won't have been cleaned up. In this case, before doing the above, type panic on both machines. All control must now be done on flccalice00 not on 01.

ECAL went off due to high leakage currents

the ECAL powered off automatically due to high leakage currents in PCB4_C which is installed in layer 6 (counting from 0-29).

After some magic touch currents are fine again.

Converter Script stopped

Update: I found out the data type in question (i.e. the BmlLC1176EventData) is (so far) *only* corrupt in Run230084.

I have implemented a patch in the converter to secure the dedicated driver and *restarted* the conversion.

On the other hand we have (again??) too many ADC samples in the board in crate 172(0xac), slot 12 fe 0. Check e.g. the output in /scratch/conv_log on ilc-log01.

Maybe this is a minor problem

Cheers,

Roman

Hi there,

due to severe problems with the (new??) TDC data I have stopped the converter script for runs > 299999, i.e. for the current data taking. More details will be given in a dedicated e-mail to experts.

The problems appeared first in Run 230084 (Unfortunately, in the Elog no information can be found for this run).

In principle I know how to patch it but such a patch maybe does not make much sense since we're working with a new TDC. Since I will be away for three days I can only look into that on wednesday afternoon. Until then no conversion of the new data will be available.

Cheers,

Roman

P.S.: It is true that the Elog is still very slow, maybe faster than 4 weeks ago but still very annoying to handle. We have to urge Sven to improve that. Why can't he try to start it from home?
21.05.2006 16:40 runMonitor
we are running at the moment on the flccalice01 machine
but the runMonitor works from the flccalice00 one.

Logbook entry: /CALICEelog/data/2006/20/21.05
21.05.2006 16:26
- changed the spill signal gate from 40 to 60 ms duration
- he will try to time the DAQ to take events during the first 60 ms of beam then buffer out.
- with 40 ms he has already reached 40Hz... and we can still improve!
- requested for the night a beamHoldScan with all ECAL FE values changed at the same configuration.
  he will start it when he is done with the trigger optimization.

Logbook entry: /CALICEelog/data/2006/20/20.05
20.05.2006 12:45 Michele Faucci Giannelli
Test beam configuration
This is the configuration of the test beam. V1.0

Logbook entry: /CALICEelog/data/2006/20/18.05
20.05.2006 00:49 Goetz Gaycken
hold scan
230069 holdScan 26 6 electrons center 0
scan labeled as beam data

Logbook entry: /CALICEelog/data/2006/20/19.05
20.05.2006 00:08 Goetz Gaycken
debug runs
runs 230061-230067 are debug runs

Logbook entry: /CALICEelog/data/2006/20/19.05
19.05.2006 23:53 Goetz Gaycken
hold scan
230068
The BeamData run type was modified to perform a hold scan (emcBeamHoldScan) was not ready yet. Scans from 1 to 200 in 16non eqidistant steps. Initially DESYII was filled with 4.5GeV positrons later on the beam was changed to 7.5GeV electrons. To get descent...
Data rate: the target was set to 3mm Cu, but was changed back to 1mm Al at ~21:52:53 UTC. The data may contain a fair amount of double particle events before the target was changed.

Logbook entry: /CALICEelog/data/2006/20/19.05
19.05.2006 09:37 Roman
Copy script on flchcaldaq03 stopped. Restarted to copy old runs (220000 - 220068) to the dcache.

Logbook entry: /CALICEelog/data/2006/20/19.05
19.05.2006 19:05
19.05.2006
09:37 Roman
Copy script on flchcaldaq03 stopped. Restarted to copy old runs (220000 - 220068) to the dcache.

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 21:40 Goetz Gaycken
shutting down for today
powering down: ECAL, pm, magnet. Shutter closed. Informed control room.

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 21:36 Goetz Gaycken
test run
230060 emcCosmicsHoldScan 13 3 electrons x(4000)y(1630) 0 broken

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 21:21 Goetz Gaycken
test run
230059 beamData 13 3 electrons x(4000)y(1630) 0 test run 2000 events

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 20:51

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 19:58 Goetz Gaycken
test run
230057 beamData 13 6 electrons x(3380)y(1630) 0 test run

Logbook entry: /CALICEelog/data/2006/20/18.05
18.05.2006 17:53
Run 201164 stopped
201164 LED debug run
201165 ahcBeamHoldScan v 13 18 config each 1000 events
201166 ahcBeamHoldScan v 13 18 config each 2000 events
201167 ahcBeamHoldScan v 13 18 config each 1000 events
201168 ahcBeamHoldScan v 13 18 config each 2000 events
LOGBOOK ENTRY:

2006/05/18

1. **ahcBeamHoldScan v 11**
   - 27 config each 2000 events & first 20 ticks in detail

2. **ahcBeamHoldScan v 11**
   - Like 201169, but in chip 11 instead chip 0

3. **ahcBeamHoldScan v 11**
   - Like 201169

4. **ahcCosmics**
   - v 13 modules # 5,6,7,8

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 10:08 Goetz/Petr

230055 emcNoise slot 07 - front/end 3,4,5,7-(noise as well around 8)

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 10:04 Goetz/Petr

230054 emcNoise slot 07 - front/end 3,4,5,0-(noise around 8)

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:59 Goetz/Petr

230052 emcNoise slot 07 - front/end 3,4,5,1-(noise around 7.5)

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:53 Goetz/Petr

230051 emcNoise slot 07 - front/end 3,4,5,2-(noise around 8)

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:53 Goetz/Petr

230050 emcNoise slot 07 - front/end 3,4,5,6-(for some pads noise around 140)

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:36 Goetz/Petr

Check CR

230049 emcNoise slot 07 - front/end 3,4,5,7

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:17 Goetz Gaycken

ECAL VFE DAC scan

230048 emcVfeDacScan 75 0 planned: 250000 events total, 75 scan points

---

**Logbook entry: /CALICEelog/data/2006/20/17.05**

18.05.2006 09:05 Dörte David

assembling status
Cassettes no. 9 and 10 are ready for tests.
Tiles for cassette no. 14 are in the test procedure at DESY.
Tiles for the next 2 cassettes will be sent to DESY in about a week.
cassettes work in progress: 13
  12
  11
cassettes ready: 1 - 10

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 17:42
cosmic run in the tent
stopped run 201163 with 5 files
  201164 ahcCosmics 3 modules # 5, 6, 7, 8

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 12:19 Petr/Roman
230035 beamData 13 3GeV electrons x(4620)y(1330) 10000 events

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 12:05 Petr/Roman
230034 beamData 13 3GeV electrons x(4000)y(1330) 10000 events

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 11:52 Petr/Roman
230033 beamData 13 3GeV electrons x(3380)y(1330) 10000 events

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 11:35 Petr/Roman
230031 beamData 13 3GeV electrons x(3380)y(1950) 10000 events

Logbook entry: /CALICEelog/data/2006/20/17.05
17.05.2006 11:20 Roman/Petr
230030 beamData 13 3GeV electrons x(3380)y(2570) 10000 events
Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  11:16
Roman/Petr
230029 beamData 13 3GeV electrons x(4000)y(2570) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  11:04
Petr/Roman
230028 beamData 13 3GeV electrons x(4620)y(1915) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  10:30
Petr/Roman
230026 beamData 13 3GeV electrons x(4620)y(2570) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  10:21
Petr
I made mistake. I was moving with HMI, but didn't press go after, so all last five runs are for middle position.

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  10:04
Roman/Petr
230025 beamData 13 3GeV electrons x(4000),y(1915) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  09:52
Roman/Petr
230024 beamData 13 3GeV electrons x(4000),y(1915) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  09:42
Roman/Petr
230023 beamData 13 3GeV electrons x(4000),y(1915) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  09:26
Roman/Petr
230022 beamData 13 3GeV electrons x(4000),y(1915) 10000 events

Logbook entry: /CALICElog/data/2006/20/17.05
17.05.2006  09:03
Roman/Petr
230021 beamData 13 3GeV electrons x(4000),y(1915) 10000 events
Logbook entry: /CALICEelog/data/2006/20/16.05
16.05.2006
23:59
Automatic Logging
status report
runs today: 220237 - 220239

Logbook entry: /CALICEelog/data/2006/20/16.05
16.05.2006
22:01
Groll

<table>
<thead>
<tr>
<th>201158</th>
<th>201161</th>
</tr>
</thead>
<tbody>
<tr>
<td>AhcConfiguration debug runs / no useful data</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>201162</th>
<th>201163</th>
</tr>
</thead>
<tbody>
<tr>
<td>ahcPmNoise pedestal run 50000 event</td>
<td>ahcCosmic --v 13 cosmic calibration of module #1,2,3,4</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/20/16.05
16.05.2006
20:23
Petr/Marcel
List of bad connecters
Slot (Front End):
17(0), 17(3), 17(5)
15(4)
7(0), 7(1), 7(6)

Logbook entry: /CALICEelog/data/2006/20/16.05
16.05.2006
12:31
Goetz Gaycken
stopped beam starting to swap ecal and heal positions

Logbook entry: /CALICEelog/data/2006/20/16.05
15.05.2006
23:59
Automatic Logging
status report
runs today: 220228 - 220236

Logbook entry: /CALICEelog/data/2006/20/15.05
15.05.2006
16:04
AhcCosmic --v 13 cosmic calibration of module #1,2,3,4

Logbook entry: /CALICEelog/data/2006/20/15.05
15.05.2006
16:02
delete run 201146
the week end cosmic run was taken with wrong trigger configuration remove all files. they were not on the dCache yet. runs 201147 - 201153 hold scans

Logbook entry: /CALICEelog/data/2006/19/14.05
14.05.2006
23:59
Automatic Logging
status report
runs today: 220215 - 220217

Logbook entry: /CALICEelog/data/2006/19/13.05

13.05.2006
23:59
Automatic Logging

status report

Logbook entry: /CALICEelog/data/2006/19/12.05

12.05.2006
23:59
Automatic Logging

status report

Logbook entry: /CALICEelog/data/2006/19/12.05

12.05.2006
14:23
caliceon

793-1

Logbook entry: /CALICEelog/data/2006/19/12.05

12.05.2006
10:22
Groll

220174 ahcBeamStageScan 3GeV stopped - scanned ~80 positions (x=180, y=60)

BKR is doing machine studies

Logbook entry: /CALICEelog/data/2006/19/11.05

11.05.2006
23:59
Automatic Logging

status report

Logbook entry: /CALICEelog/data/2006/19/11.05
Run 220173 stopped

11.05.2006 19:16 Groll

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>220173</td>
<td>ahcBeamStageScan 3GeV stopped - 73 positions scanned (x=45, y=75)</td>
</tr>
<tr>
<td>220174</td>
<td>ahcBeamStageScan 3GeV start from the beginning, hold set to 12 &amp; events to 10000 &amp; TDC readout included</td>
</tr>
</tbody>
</table>

Michele arrived, drift chambers are turned on.

Logbook entry: /CALICEelog/data/2006/19/11.05 11.05.2006 18:06

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201144</td>
<td>ahcPmNoise pedestal run for mod#1,2,3,4</td>
</tr>
<tr>
<td>201145</td>
<td>ahcPmNoise pedestal run for mod#1,2,3,4</td>
</tr>
<tr>
<td>201146</td>
<td>ahcCosmics m^2 cosmic trigger</td>
</tr>
</tbody>
</table>

Cosmic run started.

Logbook entry: /CALICEelog/data/2006/19/11.05 11.05.2006 10:15 Groll

continuing of run 220173

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>220173</td>
<td>ahcBeamStageScan ~50 positions scanned over night - continue until after lunch</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/19/10.05 10.05.2006 16:36 Dörte David

assembling status

Cassette no. 9 is finished.
A new colleague came and she is now learning and doing the work.
But for assembling it's a pity that the time of one expert is finished so he went back to Moscow.

cassettes in progress: 12
11
10
cassettes ready: 1 - 8 and 9

Logbook entry: /CALICEelog/data/2006/19/10.05 10.05.2006 12:03

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>220168</td>
<td>ahcPmNoise short</td>
</tr>
<tr>
<td>220169</td>
<td>ahcPmNoise 50000 events - stable current in cable 3A = fe 3A</td>
</tr>
<tr>
<td>220170</td>
<td>ahcPmNoise 50000 events - &quot;decaying&quot; current in cable 3A = fe 3A from 55uA to 40uA</td>
</tr>
<tr>
<td>220171</td>
<td>ahcBeamHoldScan debug run</td>
</tr>
<tr>
<td>220172</td>
<td>ahcBeamHoldScan debug run</td>
</tr>
<tr>
<td>220173</td>
<td>ahcBeamHoldScan debug run</td>
</tr>
<tr>
<td>220174</td>
<td>ahcBeamHoldScan debug run</td>
</tr>
<tr>
<td>220175</td>
<td>ahcBeamStageScan new hold: 10 ticks / start from the beginning</td>
</tr>
</tbody>
</table>
Logbook entry: CALICE eLogbook http://ttfinfo.desy.de/elog/results.jsp?docroot=/export/web/htdocs&log... 09.05.2006

<table>
<thead>
<tr>
<th>Timestamp</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:19</td>
<td>220131 ahcBeamHoldScan 3GeV x=-135 y=135 tile: 31/58 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220133 ahcBeamHoldScan 3GeV x=135 y=135 tile: 58/58 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220134 ahcBeamHoldScan 3GeV x=-105 y=-15 tile: 43/43 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220135 ahcBeamHoldScan 3GeV x=-105 y=-15 tile: 43/43 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220136 ahcBeamHoldScan 3GeV crashed!?</td>
</tr>
<tr>
<td></td>
<td>220137 ahcBeamHoldScan 3GeV x=135 y=-15 tile: 58/43 stopped due to bad beam</td>
</tr>
</tbody>
</table>

DESY 2 back in Petra mode!

<table>
<thead>
<tr>
<th>Timestamp</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:19</td>
<td>220138 ahcBeamHoldScan 3GeV x=135 y=-15 tile: 58/43 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220139 ahcBeamHoldScan 3GeV x=-135 y=-135 tile: 31/31 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220140 ahcBeamHoldScan 3GeV x=-15 y=-135 tile: 43/31 reduced statistic 1000ev instead of 5000ev for each hold setting ---- stopped due to access to linac</td>
</tr>
<tr>
<td></td>
<td>220141 ahcBeamHoldScan 3GeV x=-15 y=-135 tile: 43/31 repeat 220140</td>
</tr>
<tr>
<td></td>
<td>220142 ahcBeamHoldScan 3GeV x=135 y=-135 tile: 58/31 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220143 ahcBeamHoldScan 3GeV x=-135 y=135 tile: 31/58 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220144 ahcBeamHoldScan 3GeV x=-15 y=135 tile: 43/58 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220145 ahcBeamHoldScan 3GeV x=-135 y=75 tile: 31/52 crashed!</td>
</tr>
<tr>
<td></td>
<td>220146 ahcBeamHoldScan 3GeV x=135 y=15 tile: 58/46 reduced statistic 1000ev instead of 5000ev for each hold setting --- stopped due to lost beam</td>
</tr>
<tr>
<td></td>
<td>220147 ahcBeamHoldScan 3GeV x=-135 y=-45 tile: 31/40 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220148 ahcBeamHoldScan 3GeV x=105 y=135 tile: 55/58 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220149 ahcBeamHoldScan 3GeV x=-15 y=105 tile: 43/55 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220150 ahcBeamHoldScan 3GeV x=-135 y=75 tile: 31/52 crashed!</td>
</tr>
<tr>
<td></td>
<td>220151 ahcBeamHoldScan 3GeV x=-135 y=75 tile: 31/52 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220152 ahcBeamHoldScan 3GeV x=135 y=15 tile: 58/46 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220153 ahcBeamHoldScan 3GeV x=135 y=15 tile: 58/46 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220154 ahcBeamHoldScan 3GeV x=-45 y=-15 tile: 40/43 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220155 ahcBeamHoldScan 3GeV x=-135 y=-45 tile: 31/40 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220156 ahcBeamHoldScan 3GeV x=135 y=-105 tile: 58/34 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220157 ahcBeamHoldScan 3GeV x=-15 y=135 tile: 43/31 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
<tr>
<td></td>
<td>220158 ahcBeamHoldScan 3GeV x=-15 y=135 tile: 43/31 should have been x=-180 y=-180</td>
</tr>
<tr>
<td></td>
<td>220159 ahcBeamHoldScan 3GeV x=120 y=-300 tile: 55/13 crashed</td>
</tr>
<tr>
<td></td>
<td>220160 ahcBeamHoldScan 3GeV x=120 y=-300 tile: 55/13 reduced statistic 1000ev instead of 5000ev for each hold setting</td>
</tr>
</tbody>
</table>

DESY 2 alive again!
220161 ahcBeamHoldScan 3GeV x=-300 y=-240 tile: 13/19 reduced statistic 1000ev instead of 5000ev for each hold setting

220162 ahcPmNoise pedestal

Currents were stable over night:

<table>
<thead>
<tr>
<th>Connector</th>
<th>Voltage [V]</th>
<th>Current [µA]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A</td>
<td>42.60</td>
<td>90</td>
</tr>
<tr>
<td>1B</td>
<td>42.70</td>
<td>67</td>
</tr>
<tr>
<td>2A</td>
<td>71.20</td>
<td>50</td>
</tr>
<tr>
<td>2B</td>
<td>42.80</td>
<td>69</td>
</tr>
<tr>
<td>3A</td>
<td>69.10</td>
<td>34</td>
</tr>
<tr>
<td>3B</td>
<td>40.80</td>
<td>82</td>
</tr>
<tr>
<td>4A</td>
<td>41.40</td>
<td>97</td>
</tr>
<tr>
<td>4B</td>
<td>41.50</td>
<td>73</td>
</tr>
</tbody>
</table>

Logbook entry: /CALICEelog/data/2006/19/09.05 09.05.2006 05:43 Roman Converter script restarted

Hi there,

since there has been a(nother?) problem with the converter script due to a failing kerberos authentication I have stopped the script and launched it again in the /scratch/convscript directory of ilc-log01. Like that it works exclusively on the external disk. Maybe this will cure the problem.

In parallel i have written a mail to desy it in asking how to cure that problem in general.

Cheers,
Roman

Logbook entry: /CALICEelog/data/2006/19/08.05 08.05.2006 13:54 Roman Converter Script updated

Hi there,

I have updated the converter script on ilc-log01. From now on it should not fail anymore on missing afs tokens.

I will observe whether this is really the case.

Roman

Logbook entry: /CALICEelog/data/2006/19/08.05 08.05.2006 11:44 Buanes Start run 220125

220125 ahcBeamHoldScan 3GeV Front end 3A & 4A equipped with 10m cables
220126 ahcBeamHoldScan 3GeV same config like 220125 but beam in chip 2 ch 14
220127 ahcBeamHoldScan 3GeV debug run
220128 ahcBeamHoldScan 3GeV using internal CRC coincidence instead of NIM
220129 ahcBeamHoldScan 3GeV debug run
220130 ahcBeamHoldScan 3GeV using on all frontends 5m cable

Logbook entry: /CALICEelog/data/2006/19/08.05 08.05.2006 10:30 Groll Run220124 stopped
Hi there,  
The copy script running on the computers at the DESY testbeam has been updated. It includes now a hibernate modus such that the copying can be disabled in between given hours.

The hibernate period can be configured by editing the copy script in a section at the beginning of the script. It is possible to disable the hibernate mode completely or to enable it.

The script has been installed on flchcaldaq01, flchcaldaq03 and on flccalice00.

The scripts are not running now but can/should be restarted at any time by people present at DESY.

The configuration is currently as follows:

flchcaldaq01: hibernation disabled  
flchcaldaq03/flccalice00: Hibernation active between 9pm and 9am

After the update of the script I have copied missing runs to the dcache.

flchcaldaq01: Runs 201026 - 201128  
flchcaldaq03: Runs 220115 - 220123 (Run 220124 is currently ongoing)

The run 220114 which was only partially copied to the dcache has been completed by hand.

Finally, I have restarted the converter script which is now slowly matching up with the data taking. All missing runs will have been converted by tomorrow.

Cheers,
Roman

--

Hi,

for repair purposes I have stopped the converter script on ilc-log01.

I inform you when operation is resumed.

Roman

Me again,

sorry, primarily I want to update the script on flchcaldaq03.

On the other hand I saw that on flchcaldaq01 someone has changed the input path for teh .bin files such that the script there doesn't find the files anymore.

I need to check up to where things have been copied and handled.

=> The scripts on flchcaldaq01 *and* flchcaldaq03 will be stopped until further notice.

Cheers,
Roman
Logbook entry: CALICEelog/data/2006/18/06.05
06.05.2006
18:19

Stopping of copy script

Hi there,

for an update I will stop the copy script on flchcaldaq01
now and will start it again when the changes have been
implemented.

Stay tuned and don't use it until further notice.

Thanks,

Roman

Logbook entry: CALICEelog/data/2006/18/05.05
05.05.2006
18:53

DAQ change

run 2200122 stopped after 10 positions
change ahcBeamStageScan run structure in DaqConfiguration:
remove limitation in maximum configuration time (set to 5 min)
==> if no beam: wait for beam and not continue stage scan!

<table>
<thead>
<tr>
<th>run</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>220123</td>
<td>ahcFmNoise</td>
</tr>
<tr>
<td>220124</td>
<td>ahcBeamStageScan -v 13 3GeV e-</td>
</tr>
</tbody>
</table>

Logbook entry: CALICEelog/data/2006/18/05.05
05.05.2006
17:57

AHCAL Beam scan with new hold value set

<table>
<thead>
<tr>
<th>run</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>220121</td>
<td>ahcBeamStageScan 3Gev e-</td>
</tr>
<tr>
<td>220122</td>
<td>ahcBeamStageScan 3Gev e-</td>
</tr>
</tbody>
</table>

Logbook entry: CALICEelog/data/2006/18/05.05
05.05.2006
15:24

change trigger system

<table>
<thead>
<tr>
<th>run</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>220118</td>
<td>ahcBeamHoldScan 3Gev e-</td>
</tr>
<tr>
<td>220119</td>
<td>ahcBeamHoldScan 3Gev e-</td>
</tr>
<tr>
<td>220120</td>
<td>ahcBeamHoldScan 3Gev e-</td>
</tr>
</tbody>
</table>

rate comparable to large counters ~ 30 Hz (?)
for all 4 module latency ~20 ns (= 3 ticks)
==> >20 ns gain w.r.t. the larger triggers

Logbook entry: CALICEelog/data/2006/18/05.05
05.05.2006
14:04

<table>
<thead>
<tr>
<th>run</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>220116</td>
<td>ahcBeamStageScan</td>
</tr>
</tbody>
</table>

Logbook entry: CALICEelog/data/2006/18/05.05
05.05.2006
09:49

Groll

Run 220116 is still running
all currents still fine
=> suggestion: lets see how far we are after lunch

Logbook entry: /CALICEelog/data/2006/18/04.05
04.05.2006 16:48 Guillaume
ahc BeamStageScan with nem modules 7,6,5,8

Logbook entry: /CALICEelog/data/2006/18/04.05/backup
04.05.2006 16:48 Guillaume
ahc BeamStageScan with nem modules 7,6,5,8

Logbook entry: /CALICEelog/data/2006/18/04.05
04.05.2006 16:19 Dörte David
assembling status
Cassette no. 8 was finished and put into the test beam even if there are some problems with connections or SiPMs. May be the measurements at the test beam help to find out what the problem(s) is(are).
cassettes work in progress: 11
10
9
cassettes ready: 1 - 7 and 8

Logbook entry: /CALICEelog/data/2006/18/04.05/backup
04.05.2006 16:19 Dörte David
assembling status
Cassette no. 8 was finished and put into the test beam even if there are some problems with connections or SiPMs. May be the measurements at the test beam help to find out what the problem(s) is(are).
cassettes work in progress: 11
10
9
cassettes ready: 1 - 7 and 8
Logbook entry: /CALICEelog/data/2006/18/04.05

04.05.2006 15:13 Groll
Exchange of modules

Module 1,2,3,4 went back to the tent
Module 5,6,7,8 are now installed in the beam area

mapping:

- 5          2          3 69.1 33 40.8 81
- 6          3          2 5 71.2 44 42.8 67
- 7          1          4 41.4 95 41.5 73
- 8          4          1 1 42.6 90 42.7 67

Logbook entry: /CALICEelog/data/2006/18/04.05/backup

04.05.2006 15:13 Groll
Exchange of modules

Module 1,2,3,4 went back to the tent
Module 5,6,7,8 are now installed in the beam area

mapping:

- 5          2          3 69.1 33 40.8 81
- 6          3          2 5 71.2 44 42.8 67
- 7          1          4 41.4 95 41.5 73
- 8          4          1 1 42.6 90 42.7 67

Logbook entry: /CALICEelog/data/2006/18/04.05

04.05.2006 09:48 Groll
Run 220114

Run 220114 ahcBeamStageScan 3 GeV 55 positions scanned; stopped @ x=240, y=60 currents all ok

Logbook entry: /CALICEelog/data/2006/18/04.05/backup

04.05.2006 09:48 Groll
Run 220114

Run 220114 ahcBeamStageScan 3 GeV 55 positions scanned; stopped @ x=240, y=60 currents all ok

Logbook entry: /CALICEelog/data/2006/18/03.05

03.05.2006 18:36 Niels Meyer
Stage scan continued w/ run 220114

just started run 220114 to continue the stage scan, first stage position is (x,y)=(-240,240)

Logbook entry: /CALICEelog/data/2006/18/03.05

03.05.2006 17:29
Update on beam status
DESY II is used right now for filling DORIS with positrons of (from our point of view) wrong energy. We have to wait ~30 min for the filling to be completed before we get beam. So there are chances to have beam for the night...

Logbook entry: /CALICEelog/data/2006/18/03.05
03.05.2006 16:11 Niels Meyer
Rise time checks for module 1 and 4
Inserted LED to modules 1 and 4, top-most drilling.

A) Runs 220110 and 220111 were (failed) attempts of hold scans on module 1, chip 0; not useful.
Most probably, they failed due to too low LED intensity.

B) Manual rise time checks with the scope (and higher LED intensity)
Rough estimates (read off the scope):
module 1, chip 0 ~ 250 ns
module 4, chip 0 ~ 180 ns

Now, the LED is removed and all modules are ready to continue the stage scan. Main control promised beam within the next hour. Let's cross fingers....

Logbook entry: /CALICEelog/data/2006/18/03.05
03.05.2006 11:32 kirsch
ahcPmNoise run
220109 ahcPmNoise pedestal measurement for module 3

Logbook entry: /CALICEelog/data/2006/18/03.05
03.05.2006 09:37 no beam
from 7:00 am no beam. run 220108 stopped at x,y position -240,240 to be restarted tonight.

Logbook entry: /CALICEelog/data/2006/18/02.05
02.05.2006 20:37 Garutti
ahcBeamStageScan Run
220108 ahcBeamStageScan -v13 3GeV e- scan modules 4,2,1,3 -- StagePositionFile StagePosition_tripleScan.txt

Logbook entry: /CALICEelog/data/2006/18/02.05
02.05.2006 15:36 Garutti
new HV settings
changing HV settings for modules 1,2,4
module 1A: 65.8
1B: 67.2
2A: 66.9
2B: 64.6
3A: 39.6 (unchanged)
3B: 37.3 (unchanged)
4A: 39.8
4B: 39.3

Logbook entry: /CALICEelog/data/2006/18/02.05
02.05.2006 10:52 power glitch
in the evening of yesterday a power glitch has stopped run 220103 at position x,y = 45,105
Restart from same position run # 220105.
module 1 has higher currents: A=0.78mA, B=1.02mA

Logbook entry: /CALICEelog/data/2006/17/30.04
30.04.2006
20:30
high currents in run 220100
module 1 has lost DAC settings during run # 220100
reload settings
start new run # 220103
from position x,y = 240,-300
where we have stopped previous one.

Logbook entry: /CALICEelog/data/2006/17/30.04
30.04.2006
20:20
14 missing
then start scan again

Logbook entry: /CALICEelog/data/2006/17/30.04
20:20
202 positions calibrated...

Logbook entry: /CALICEelog/data/2006/17/28.04
28.04.2006
15:11
pedestal run

Logbook entry: /CALICEelog/data/2006/17/28.04
28.04.2006
15:05
restart HCAL scan
new configuration of modules:
mod#    HV A[V] HV B[V] FE      position from beam
1       65.6V   67.0    4       1
2       66.7    64.4    5       2
3       39.6    37.3    1       3
3       39.6    39.1    3       4
DAC file from module 3 changed:
chip/chan 2/17 DAC from 66 to 116 (1 V less according to Sasha measurements)

Logbook entry: /CALICEelog/data/2006/17/28.04
28.04.2006
14:08
DAQ Problem under mitigation
The problem with the data taking reported earlier is solved.
It was due to miscommunication between me and Paul.
An update of the DAQ code started before the data taking was finished.
For the future it is important to work more on communication between remote experts and the control room.

Logbook entry: /CALICEelog/data/2006/17/28.04
28.04.2006
11:56
Problems with runner
AM, Hakan and Roman
11:56
Could not start runs with 'runStart -t emcNoise -w'
runMonitor shows 0 Hz ('runner' was running).
Try to rebuild runner in /home/caliceon/online => failed ???
src/runner.cc: In function `int main(int, const char**)':
src/runner.cc:290: no matching function for call to 'RunRunner::run(unsigned
int, DaqRunType, RcdMultiUserRW, RcdMultiUserRO)'
daquser/inc/run/RunRunner.hh:48: candidates are: bool
RunRunner::run(RcdMultiUserRW, RcdMultiUserRO)

All this worked yesterday evening.

Observations and Actions:

1) There is a relative new version of RunRunner.hh
   i.e.
   flccalice01> ll /home/caliceon/code/daquser/inc/run/RunRunner.hh
   -rw-r--r--    1 caliceon calice       6542 Apr 27 13:00
   /home/caliceon/code/daquser/inc/run/RunRunner.hh

2) This version is not compatible with runner.cc in
   /home/caliceon/online/src

3) Removed runner.cc in /home/caliceon/online/src
   => runner compiled but after runStart Rate was
      190kHz ???????
      + HistoDisplay did not work

4) There are version of RunStart etc. from 11:03h this morning

   What has happened. Like that we cannot take data!!!!

AM, Hakan and Roman

Logbook entry:  CALICEelog/data/2006/17/27.04
27.04.2006        Roman
16:57            noise studies

we have taken several emcNoise runs in order to check FE's.
Standard noise = 6 ADC counts.
inc/emcConfiguration.hh has been modified to be in low gain. Default file was giving a
noise at
40 ADC count.

Studies on slot 15 :

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
</table>
| 230003| emcNoise cable 25 on FE3, slot 15
        | --> fine                         |
| 230004| emcNoise cable 25 on FE0, slot 15
        | --> Contrary to entry in logbook on 25th of April, FE0 slot15 is now working well (was only crc noise).  |
| 230005| emcNoise cable 25 on FE1, slot 15
        | --> Contrary to entry in logbook on 25th of April, FE1 slot15 is now working well (was lower than std noise).  |
| 230006| emcNoise cable 25 on FE2, slot 15
        | --> fine                         |
| 230007| emcNoise cable 25 on FE4, slot 15
        | --> a bit lower (mean 5.5-5.8) compared to the others (> 6) |
| 230008| emcNoise cable 25 on FE7, slot 15
        | --> fine                         |

One channel of the PCB 11_C (mapping
/home/caliceon/CaliceReco/work/conddb_inputs/mapping_tb_2006_26_04.txt)
has systematically a lower noise (~4 ADC counts).
cable 25 has been connected back to FE3, slot15.

Studies on slot 17 :

<table>
<thead>
<tr>
<th>Run</th>
<th>Description</th>
</tr>
</thead>
</table>
| 230009| emcNoise cable 27 on FE0, slot 17
        | --> one dead chip (fifth one : channels 73 to 91). |
| 230010| emcNoise cable 27 on FE3, slot 17
        | --> one dead chip as before, same one.  |
| 230012| emcNoise cable 27 on FE5, slot 17
        | --> one dead chip but first one (channels 1 to 18) this time.  |
Other remarks: the runner crashed without obvious reason, that's why there is no run number 230011...

Logbook entry: /CALICEelog/data/2006/17/27.04
27.04.2006
14:29 Roman
Hi,

I have adjusted the configuration of the new computers in the hut at the DESY testbeam. The reason for the adjustment was the failure to write data to the desy dcache pool.

This is what I have done:

1) flchcalana01
   - introduction of usergroup calice
   - mapping of user caliceon to calice with correct uid and gid
   - correct IP for hostname in /etc/hosts
2) flccalice00/01
   - adjustment of /etc/hosts /etc/sysconfig/network
   - machines were registered with their UK names => dcache refused copying
   - changed to DESY names

All files which were modified were backed up.

Now 'dccp' works from all these machines.
The copying script has been launched on flccalice00.

Roman

Logbook entry: /CALICEelog/data/2006/17/26.04
27.04.2006
11:23 AM Magnan
test run 230002
230002 beamData v13 e-test varying
Test the beamData mode compared to emcBeam: no visible difference now.
Observe peaks at the "edges" of each FE in beam conf. in HstCrcNoise, which don't really move when we move the ecal.

Logbook entry: /CALICEelog/data/2006/17/26.04
27.04.2006
11:14 AM Magnan
test run 230001
230001 emcBeam v13 e-test x=4000,y=2000
Compared to run 230000, a bug in DAQ code for run type emc* has been repaired. It was coming from the fact that the trigger is part of slot12, belonging to hcal, ignored in ecal only runs.
To do emc alone runs, you have to link src/runnerDefine.icc -> src/runnerDefine.icc_ECALONLY
and build again the runner. Warning: temporary solution!!
For a combine run, use src/runnerDefine.icc_CLUDGE.

Logbook entry: /CALICEelog/data/2006/17/26.04
26.04.2006
17:35 Dörte David
assembling status
Cassette no. 3 repairing
- bad connections (SiPM to pads) were successfully resoldered
- 3 SiPMs were exchanged, one of them has to be exchanged again (to an other spare SiPM)

Cassette no. 10
We have a delay because of mistakes first in the list (Modul Protokoll) and then in the set ups and adjustments of the measuring- and drilling machine. But now work is going on.
cassettes work in progress: 10
9
8
cassettes ready: 1 - 7

Logbook entry: /CALICEelog/data/2006/17/25.04
26.04.2006 16:54 AM Magnan
**test run 230000**
run 230000 with 74000 data events
change the data+trigger acquisition number to 4 instead of 2 for this run.
change back to 2 afterwards.

Logbook entry: /CALICEelog/data/2006/17/25.04
26.04.2006 13:04 Goetz Gaycken
**swapped cables**
changed cable from slot15/Fe2 to slot15/Fe6

Logbook entry: /CALICEelog/data/2006/17/26.04
26.04.2006 09:05 Bernard Bouquet
**ECAL documentation**
- the ECAL stand is in place.
- local and remote functioning were tested and found OK.
the detector has been left in the nominal position (wafer 5 centered on the beam line).
- it is currently disabled and turned OFF
to restart it:
steps A1..nn tell you how to turn it on in the area
steps B1.. tell you how to start the remote control program
(beyond that either you have already operated it, you are on your own, or you are not sure: ask somebody around)

STARTUP AND LOCAL MODE, in the T21 area
there is a bunch of 3 keys on the side of the control box, above the connectors. take it.
A1 - with the proper key open the control box, there are two relays side by side inside with stickers ON/OFF (they are down and you read ON above them)
A2 - switch them ON (lift the switches, any order)
A3 - close the control box
A4 - with the smallest key arm the red button turn it clockwise
A5 - plug the large red turnkey on the side almost all lamps should light: Power, brake..
if the program in the PC is already running you should see two lamps flickering faintly
A6 - the command box should be available, in the hole
just underneath the detector. Use it (if necessary) to move the detector to the position you want. Record the position: read it on the upstream face of ECAL on the horizontal and vertical rulers + vernier.

A7 When you are finished with the local setup don’t forget to switch the local command from LOCAL to REMOTE.

REMOTE CONTROL

B1 - find the PC laptop in the control room
B2 - check that the serial connector behind the PC is connected to the Rs232-Rs422 converter, which is powered (LED). .
B3 - use the top login (jehanno), no password
B4 - in the bottom line you have the square logo of the monitoring program "HESTA"
   activate it, the program displays the 6 wafers at the entrance window of the detector, with a black circle which figures the beam. In the upper right corner several indicators have different color, the rightmost should be black and flickering, others are white (DAQ not yet connected), the 3 others might be green. You are in the "SET" stage.

CRC bug report
CRC SER017 (slot 15) FE0 gives only crc noise, gets nothing from ECAL
   FE1 regular pattern but lower than std. ECAL noise
CRC SER011 (slot 17) FE0 dead as FE0 in SER017
   FE3 one dead channel (18 ECAL chan. = 0)
   FE5 one dead channel
CRC SER006 (slot 19) working fine

Sebastian Schuetzel
   cosmics run stopped
DAQ needed for CMB debugging

ECAL + AHCAL cosmicsData Run 200746
Run 200746 cosmicsData all currents fine

Roman
   Converter Script restarted
Hi,
the converter script failed because of an expired afs token.
I will care for an automatic refreshment asap.
Nevertheless => Successfully restarted.
Cheers,
Roman
P.S.: Start up of Elog from remote still awfully slow.

Dörte David
   assembling status
On Thursday cassette no.7 was completed and ready for coming into the tent for electronic tests during Easter.

On Wednesday cassette no.3 came out of the DESY test beam because of problems. Few SiPMs
are broken
and some more SiPMs have bad or no connections. We will repair this cassette in the tent.
cassettes work in progress: 10
  9
  8
cassettes ready: 1 - 6 and 7

Logbook entry: /CALICEelog/data/2006/16/19.04
19.04.2006
17:12
Run 200745
ECAL currents & noise ok
new HVsDAC settings for the HCAL modules
module 7
  A  41.40 V        0.07 mA
  B  41.50 V        0.08 mA
module 5
  A  69.10 V        0.05 mA
  B  40.80 V        0.08 mA
module 6
  A  71.20 V        0.04 mA
  B  42.80 V        0.07 mA

Logbook entry: /CALICEelog/data/2006/16/19.04
19.04.2006
12:09
Roman
converter script restarted
Hi,
the converter script failed because of an expired afs token.
=> Successfully restarted. First Run after restart 200723.
Cheers,
Roman
P.S.: Start up of Elog from remote still awfully slow.

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006
21:38
cosmicData ECAL+HCAL
run200722

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006
11:02
start cosmics in the evening again
CMB debugging during day
Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006 11:00
Run 200672 stopped
Run 200672 stopped due to DAC losses (higher currents in module 7 and 5)
No new run due to CMB tests in the afternoon

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006 09:35
pedestal run # 220091
500000 events in calib mode

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006 09:32
pedestal run #220090
50000 events in phys mode

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006 09:30
TestBeam
HCAL scan stopped this morning.
run#220089 (14 files). covered 390 positions over the HCAL modules 1,2,4 for MIP calibration.

Logbook entry: /CALICEelog/data/2006/16/18.04
18.04.2006 09:12
Ecal + Hcal combined cosmicsData run 200672
200672 cosmicsData, same settings as 200671, all currents fine

Logbook entry: /CALICEelog/data/2006/15/11.04
14.04.2006 11:24
Goetz Gaycken
noise run 200647
Noise was mostly fine:
Mostly: 6 +-1 ADC max ~<12 ADC over whole period of 42h ?
Layer 3: 8 +-1 ADC max. 20 ADC (was 6 in 200645)
Layer 5: 9 +-1 ADC max ~<15 (was 8 in 200645)
Layer 9: 6 - 22 ADC max ~<70
Layer 13: 6 +- 1 ADC (was spiky in 200645)
(counting top to bottom: layer 0-15)

Logbook entry: /CALICEelog/data/2006/15/10.04
14.04.2006 10:01
run 200645
Noise was mostly fine:
Mostly: 6 +- 1 ADC max ~<12 ADC over whole period of 68h.
Layer 3: 6.5 +- 1.5 ADC max. 20 ADC
Layer 5: 8 +- 1 ADC max ~<13
Layer 9: 10 +- 3 ADC for first 16h
then 6 +- 1 ADC
Layer 13: 6 +- 1 ADC + many spikes, max 10-40ADC
Easter run: HCAL in test beam

13.04.2006 20:44
modules 1, 2, 4 in the test beam. Start ahcBeamStageScan -v 13. hold value 6.trigger HV ch9=1950, ch 10 = 1000 V. scan in 216 positions x 3 (~ 6 days). beam rate 25 Hz. Run #220089. All runs below are debugging.

ECAL cosmic run

13.04.2006 19:28
start Run200671 cosmicsData. ECAL + module 5, 6, 7 HCAL. the runs between 648 and 671 are CMB debug.

Run stopped

13.04.2006 17:38
we are installing HCAL module 7 in the cosmic set up. after that the cosmics run will be restarted.

Converter Script restarted

13.04.2006 17:35
Roman Poeschl
This morning the converter script failed on Run 220071 indicating a missing file. The file request obviously coincided with some repairing action by Erika et al.
I have justed re-started the script.
Roman

Module 3

13.04.2006 17:35
Module 3
module 3 should be taken back to the tent from the test beam in order to check 22 SiPM for bad connection.

assembling status

12.04.2006 17:52
Dörte David
Lists and procedures of generating them had to be verified.
We all became more familiar with the different steps of assembling.
cassettes work in progress: 10
  9
  8
  7
cassettes ready: 1 - 6
Logbook entry: /CALICElog/data/2006/15/11.04
11.04.2006
17:34
start run200647 ECAL cosmic run

Logbook entry: /CALICElog/data/2006/15/10.04
10.04.2006
16:22
Run200646 cosmicsData

Logbook entry: /CALICElog/data/2006/15/10.04
10.04.2006
09:14
stop ECAL run
we move one VME + DAQ to the test beam. ECAL cosmic run will restart later in the afternoon. Run#200645 was running over the weekend. All currents were still fine this morning.

Logbook entry: /CALICElog/data/2006/14/07.04
07.04.2006
15:58
Run200645 cosmicsData
ECAL hold at 6
HCAL all currents fine

Logbook entry: /CALICElog/data/2006/14/06.04
06.04.2006
08:26
Dörte David
assembling status
The problems with the drilling machine were solved. We bought some spare parts and could continue after 2 days.
The two trainees left the HCAL assembling. But a new colleague from Lebedev Physical Institute arrived. She started on Wednesday, as the other ones learning and already doing the HCAL assembling.
modules work in progress: 9
8
7
modules ready: 1 - 6

Logbook entry: /CALICElog/data/2006/13/29.03
29.03.2006
17:24
Dörte David
assembling status
weekly information
Since last week two colleagues from ITEP Moscow are at DESY for several months. They are learning
and already doing the HCAL assembling. Two trainees are working at the HCAL assembling already some weeks longer.

Unfortunately there are some problems with the measuring and drilling machine.

modules work in progress: 9
8
7
modules ready: 1 - 6

Logbook entry: /CALICEelog/data/2006/12/24.03
24.03.2006 19:04
HCAL + ECAL cosmicsHoldScan weekend run
Run200636 cosmicsHoldScan all currents fine

Logbook entry: /CALICEelog/data/2006/12/23.03
23.03.2006 19:03
combined ECAL/HCAL cosmic run started
200593 cosmicsData all currents fine

Logbook entry: /CALICEelog/data/2006/12/22.03
22.03.2006 17:33
assembling status
Dörte David
The new period of assembling is started. I want to give information about status of assembling once a week (~Wednesday). Detailed explanations about the several assembling steps shown in the spreadsheet will follow later.

modules work in progress: 7, 8, 9
modules ready: 1 - 6

Logbook entry: /CALICEelog/data/2006/12/22.03
22.03.2006 11:15
ECAL + HCAL run
combined run Run200592 all currents fine

Logbook entry: /CALICEelog/data/2006/12/21.03
21.03.2006 19:34
combined run Run200592 all currents fine
21.03.2006 19:27

**cosmic run over night**

HCAL alone due to HV problem at the ECAL Run 200591 currents ok

Logbook entry: /CALICEelog/data/2006/12/21.03

21.03.2006 11:31

D. David

**Power cut in Hall 5**

Today we had 2 short power cuts (~11:00) in hall 5

Logbook entry: /CALICEelog/data/2006/12/20.03

20.03.2006 19:04

**ECAL + HCAL run**

Run200584 cosmic Data run over night ECAL currents all ok, HCAL currents all < 0.10 mA leave for the w.e.

Logbook entry: /CALICEelog/data/2006/11/17.03

17.03.2006 16:47

**cosmic run started**

cosmics Data with ECAL + HCAL ON! ECAL currents all ok, HCAL currents all < 0.10 mA leave for the w.e.

Logbook entry: /CALICEelog/data/2006/10/06.03

06.03.2006 12:24

S. Karstensen

**a few impressions of yesterday ...**

Logbook entry: /CALICEelog/data/2006/10/06.03

06.03.2006 10:03

S. Karstensen

**Demo of PDF inside Logbook**

Here is the PDF of my talk included.
Please look also to the different text style

Logbook entry: /CALICEelog/data/2006/08/21.02
The noise is mostly fine except for PCB4_C (and PCB8_C but the noise did not change from 200170 to 206).

<table>
<thead>
<tr>
<th>PCB4_C</th>
<th>PCB8_C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise</td>
<td>Layer</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>cosmics 2004 :</td>
<td>~ 5.7 ADC</td>
</tr>
<tr>
<td>tb 2005</td>
<td>~ 5.7 ADC</td>
</tr>
<tr>
<td>100121</td>
<td>~ 5.8 ADC</td>
</tr>
<tr>
<td>200170.000</td>
<td>~ 8.1 ADC</td>
</tr>
<tr>
<td>200206.000</td>
<td>~ 9.8 ADC</td>
</tr>
</tbody>
</table>

HCAL currents normal, run stopped for CMB commissioning

combined cosmics ECAL + HCAL

ECAL still running

start ECAL cosmic run

Run 200170 stopped, currents normal, switched Ecal off

long discharge run

list of Long Discharge channels (in chip/chan):
Mod 4: 5/0, 2/15
Mod 5: 11/3 => (3/10, 11/8 now ok!)
Mod 6: 3/13, 0/5, 1/10 => new: 6/3 (11/0 is ok now)

Dear eLogbook user! Please insert your name at the Author field!!
17.02.2006
09:31
ECAL run stopped
Run200152
cosmicsHoldScan
current ok
HV current 21.5muA

Logbook entry: CALICEelog/data/2006/07/15.02
15.02.2006
16:41
Goetz Gaycken
test run HW reconnected
200143 cosmos: very short test run, the gain seems to be at ten.

Logbook entry: CALICEelog/data/2006/07/15.02
15.02.2006
16:37
Goetz Gaycken
no HW
The HW was disconnected up to (including) run 200142.

Logbook entry: CALICEelog/data/2006/07/15.02
15.02.2006
14:03
Sebastian Schaetzel
cosmics run 200140 stopped
CMB commissioning

Logbook entry: CALICEelog/data/2006/07/15.02
15.02.2006
13:28
ECAL run started
Run200140
cosmicsHoldScan
all currents normal

Logbook entry: CALICEelog/data/2006/07/15.02
15.02.2006
10:12
ECAL run stopped
Run200122 stopped at 14.02.06 around 23:00
Run200123 stopped now

Logbook entry: CALICEelog/data/2006/07/14.02
14.02.2006
16:49
ECAL run started
Run 200122 cosmicHold

Logbook entry: CALICEelog/data/2006/07/14.02
14.02.2006
13:59
ECAL run started
Run200121 stopped
CosmicsHoldScan stopped all currents fine

Logbook entry: CALICEelog/data/2006/07/13.02
14.02.2006
13:59
start ECAL run
200121 cosmosHoldScan

Logbook entry: CALICEelog/data/2006/06/10.02
13.02.2006  Groll
ECAL cosmicsHoldScan run stopped
all currents fine - no overload has occurred

ECAL cosmicsHoldScan run stopped
Run200020.000.bin-Run200020.006.bin

Logbook entry: /CALICEelog/data/2006/06/10.02
10.02.2006 20:30
start ECAL run
200120  cosmicHoldScan

Logbook entry: /CALICEelog/data/2006/06/09.02
09.02.2006 19:10
start ecal run
200091  cosmicHoldScan

Logbook entry: /CALICEelog/data/2006/06/07.02
07.02.2006 19:11
start ecal run
200071  cosmicData

Logbook entry: /CALICEelog/data/2006/03/16.01
16.01.2006 10:00 Groll
start calibration run
in Xmass configuration (old firmware & old DAQ software)

Logbook entry: /CALICEelog/data/2006/03/16.01
16.01.2006 09:50 Groll
Cosmic run end

Logbook entry: /CALICEelog/data/2006/02/15.01
15.01.2006 15:19 Groll
Cosmic run check
all currents ok

Logbook entry: /CALICEelog/data/2006/02/14.01
14.01.2006 16:51 Groll
Cosmic run check
all currents ok

Logbook entry: /CALICEelog/data/2006/02/13.01
13.01.2006 16:30 Groll
Cosmic run
Run200010.***.bin
Cosmic run with new DAQ software over weekend

Logbook entry: /CALICEelog/data/2006/02/10.01
10.01.2006 09:05 S. Karstensen
HV Power Supply Problem
Problem:
The ISEG HV Power supply couldn't switch on.
LED Status: Standby= yellow, Status= red
HELP:
  • press the "Power On" button for a longer time (>2 sec -> RESET)
- Status LED will change to green or off
- The HV supply will be reset
- if the Status LED is off, press the "Power On" button again

Logbook entry: CALICElog/data/2006/02/09.01
09.01.2006
19:10
2 new long discharge channels
list of Long Discharge channels (in chip/chan):
Mod 4: 5/0, 2/15
Mod 5: 11/3  ==> new: 3/10, 11/8 (?)
Mod 6: 11/0, 3/13, 0/5  ==> new: 1/10

Logbook entry: CALICElog/data/2006/02/09.01
09.01.2006
10:37
end of Xmass run
last run #111343 (cosmics)
taken one pedestal run #111346 with 50000 ev. (phys mode)

Logbook entry: CALICElog/data/2006/01/05.01
05.01.2006
09:45
Temperature Trends.pdf
sven
temperature decrease are correlated to the opening of the tent door during the daily check.

Logbook entry: CALICElog/data/2006/01/04.01
04.01.2006
18:51
1801383504 Jan  4 09:01 Run111319.bin  cosmic run started yesterday at 15:33
280658436 Jan  4 11:45 Run111320.bin  end of cosmic run
402035080 Jan  4 12:05 Run111321.bin  saturation + gain in calib. mode
481232280 Jan  4 17:01 Run111323.bin  restarted caosmic run
all ok!

Logbook entry: CALICElog/data/2006/01/03.01
03.01.2006
14:00
with proper loop the data volume is considerably decreased:

- 20 h cosmics + LED + ped = ~ 2GBy
- 2 files for saturation scan:
  - 400MBy in calib mode = 21 config (including 4 points gain calibration)
  - 300MBy in physics mode = 42 config 4 spills each

run smooth ever since!
ECAL stays off.

Logbook entry: /CALICEelog/data/2006/01/02.01
02.01.2006
16:30
stopped # 111307
debog runs 308-312
solved bug in configuration loop:
the loop got stuck in the saturation scan and never got out of it.

restarted the proper loop from cosmic from #111313

Logbook entry: /CALICEelog/data/2006/01/02.01
02.01.2006
11:00
stopped run
and restarted from cosmic run # 111306
(#35 bad: lost DAC setting)