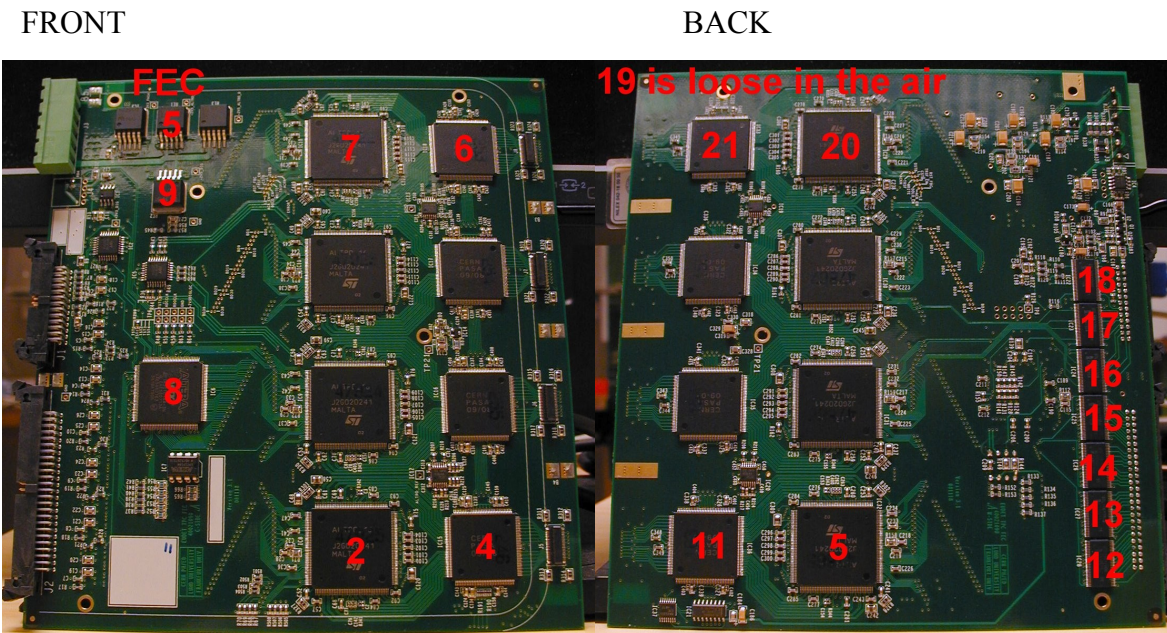
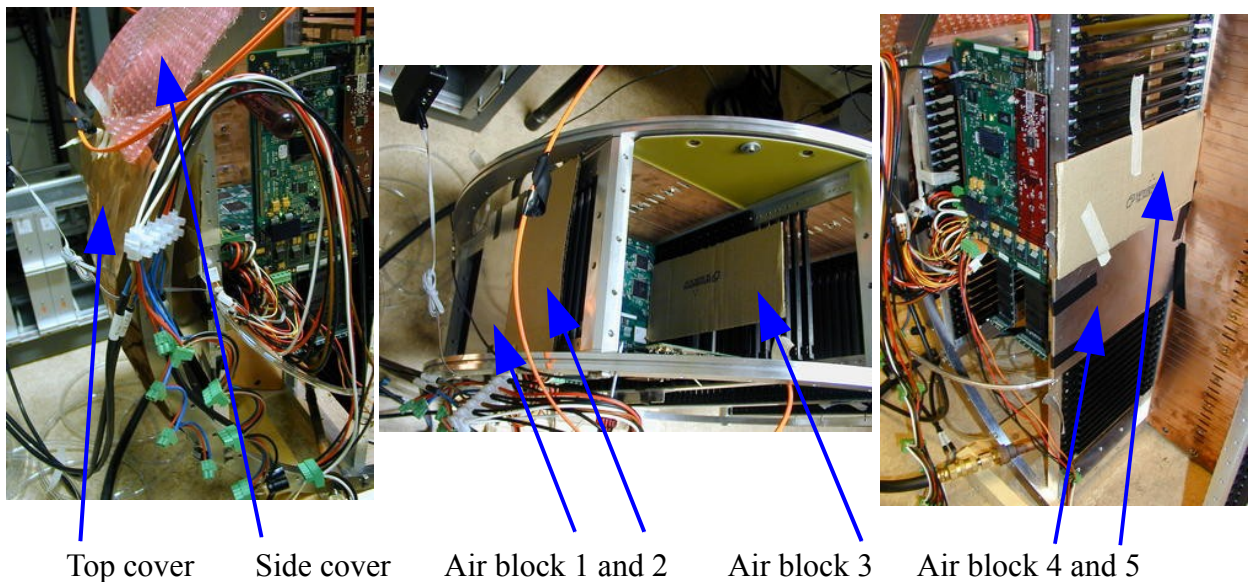


Test of cooling stability during three hours, and temperature dependence of pedestals. The temperature was varied by changing the air flow pressure.  
5 FECs used (75,76,5,78,74). FEC5 in the middle with extra temperature sensors mounted:



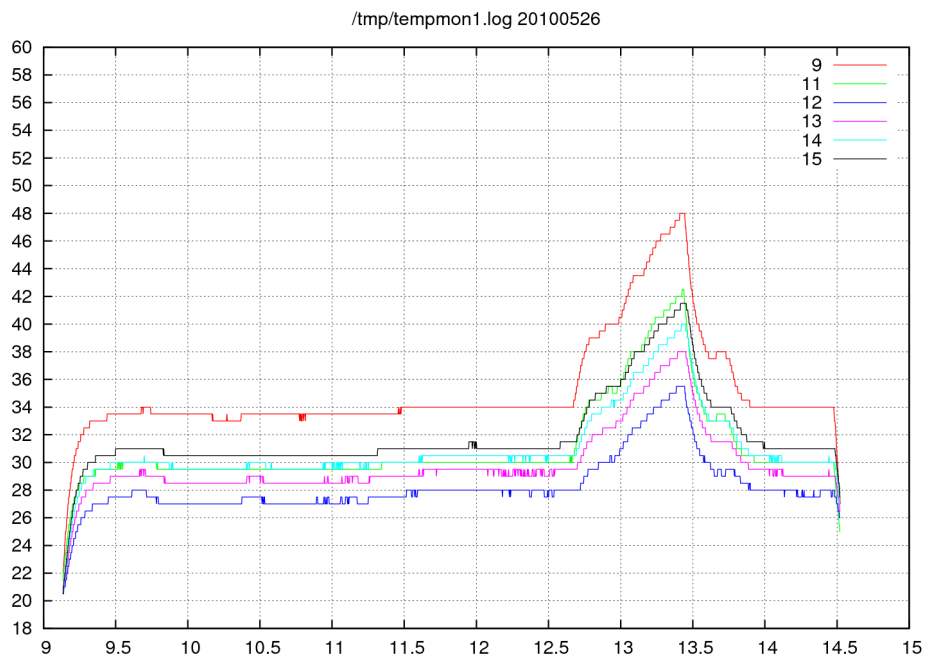
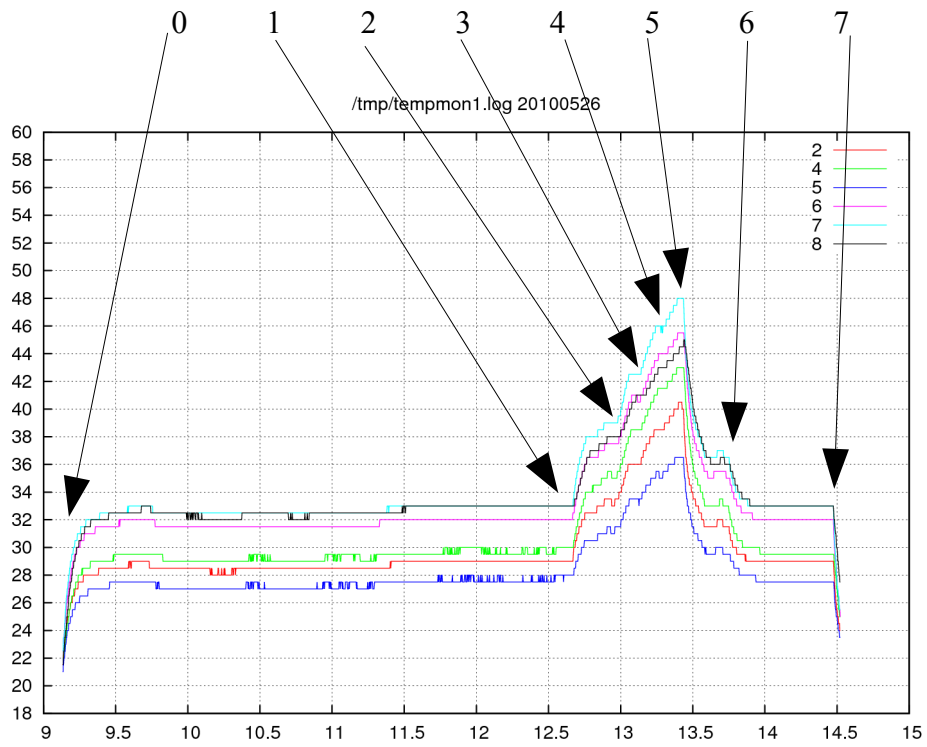
The cooling plate was put in position 70 mm, measured from the front of FEC, ring rotated, and the *temperature was measured with only air block 1 and 4 in place.*



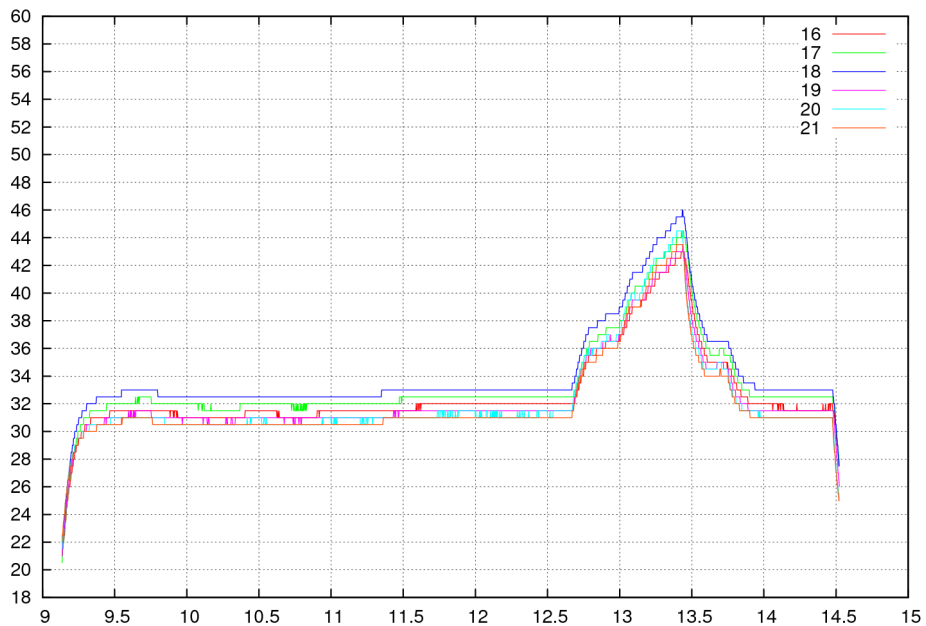
**Event sequence:**

event	time	comment
0	9.16	power on, with cooling on, 2bar
1	12.40	lowered to 1 bar
2	12.57	lowered to 0.5 bar
3	13.08	lowered to 0.25bar
4	13.20	lowered to < 0.25bar
5	13.25	increased to 1.25 bar
6	13.40	increased to 2 bar
7	14.30	power off

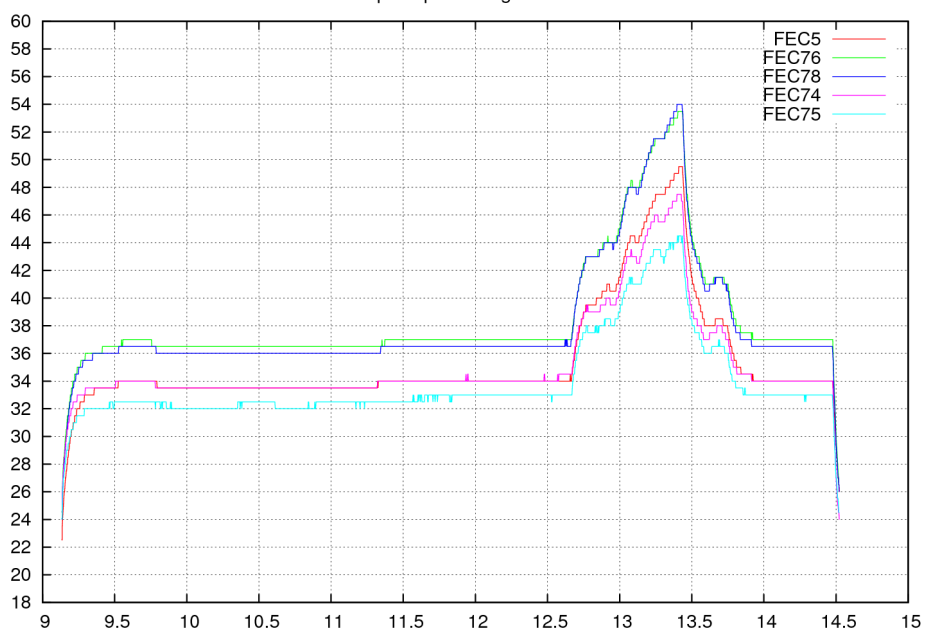
Note y-scale is up to 60 degrees. When the approached 60 did we turn on the cooling, though the temperature had not got stable.



/tmp/tempmon1.log 20100526



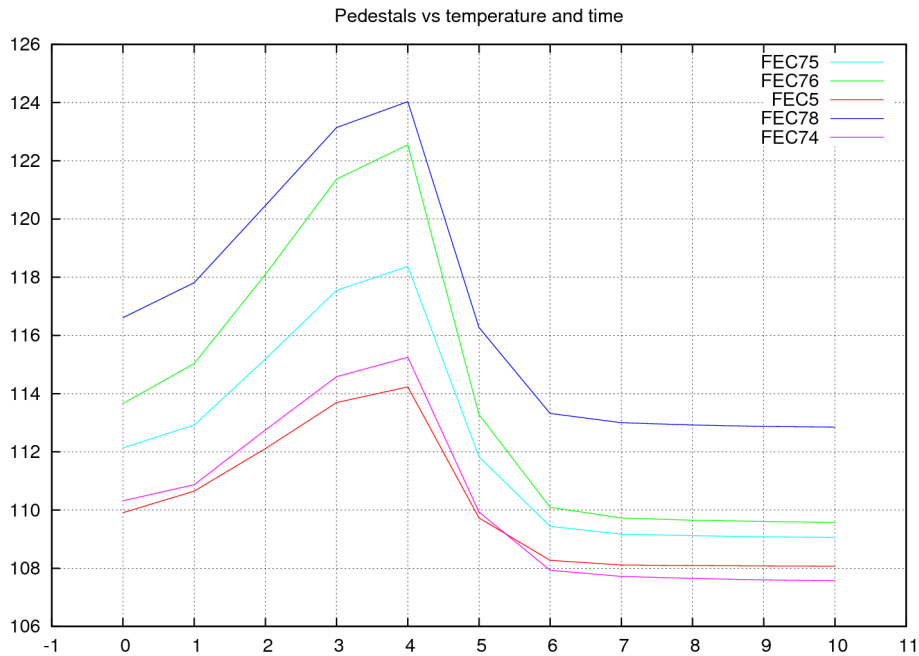
/tmp/tempmon1.log 20100526



Pedestals were calculated for different air flow pressure, i.e. temperatures. The date was logged. The long stable condition was also logged (run 25140), the result is on next page. Average pedestals (=of all 128 channels on the FEC) for the FECs are on the y-axis, x-axis is according to table.

x-axis	run	time	comment on flow	highest temperature (degrees) have FEC74/76
0	25141	12.40	1 bar	rising to 44
1	25142	12.55	1 bar	stable at 44
2	25143	13.05	0.5 bar	48
3	25144	13.20	0.25 bar	52
4	25145	13.25	< 0.25bar	54
5	25146	13.40	1.25 bar	41
6	25147	13.52	2 bar	37
7	25148	13.59	2 bar	37
8	25149	14.05	2 bar	37
9	25150	14.11	2 bar	37
10	25151	14.23	2 bar	37

Temperatures for corresponding time and the FECs can be seen in the previous figure.



Pedestals versus time. Time interval 9.10- ca 12.30. Each point is the average pedestal during roughly 3 minutes (200 minutes / 75 points = 2min 40sec).

