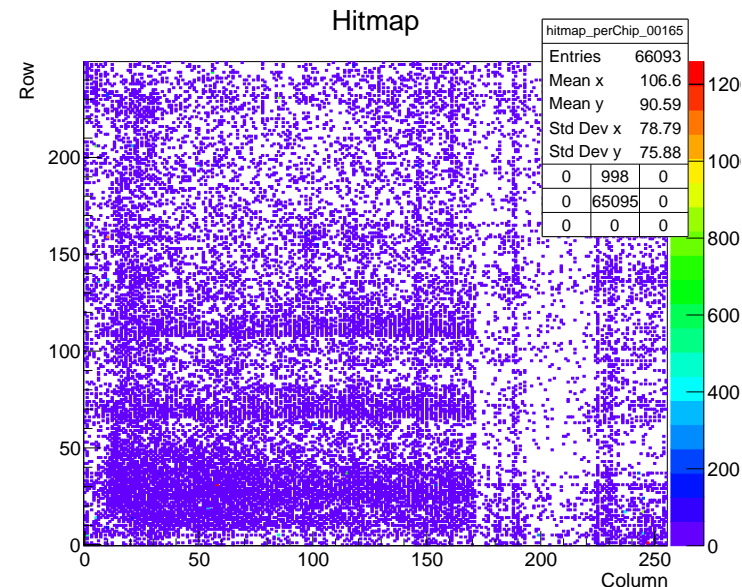


pixelQualityLM

• Corrections to pixelQualityLM

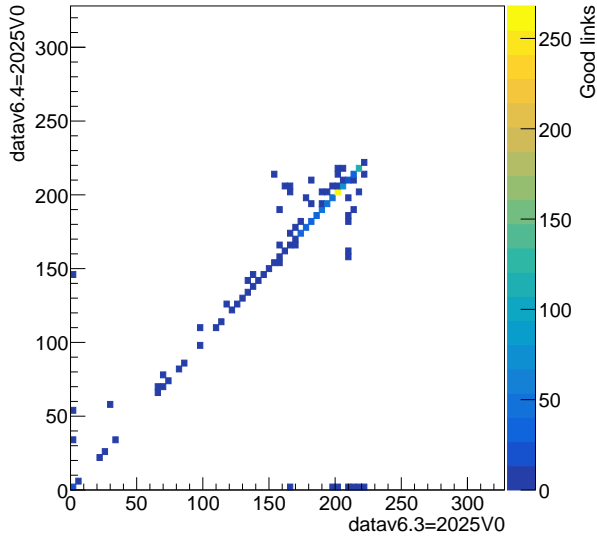
- ▷ previous version used outdated MIDAS meta data
 - lvdsErrRates were not correctly included (bug!)
- ▷ changed status of masked links (with LVDS errors on unmasked other links)
 - if hits present, link = 5
 - if no hits present, link = 9

```
"globalId": 165,
"index": 4,
"linkMask": "110",
"linkMatrix": "BAE",
"lvdsErrGT0": "110",
"lvdsErrRates": [
  546205,
  83367235,
  0
]
```

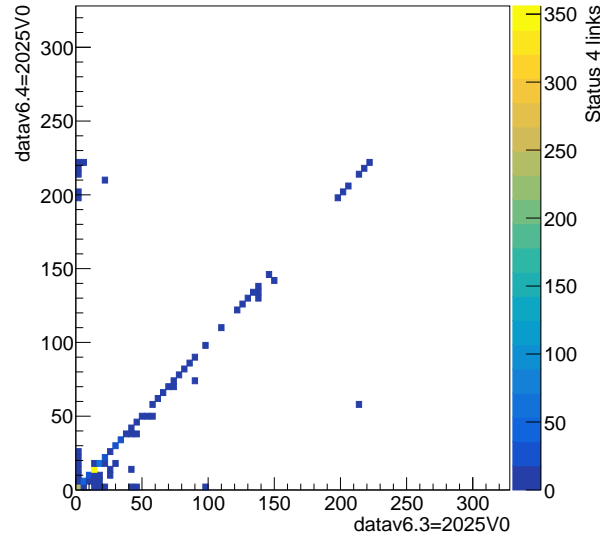


Comparison to previous payload

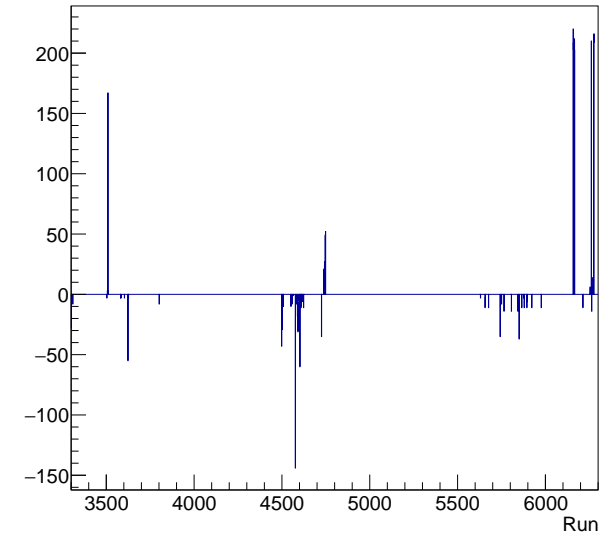
Number of good links



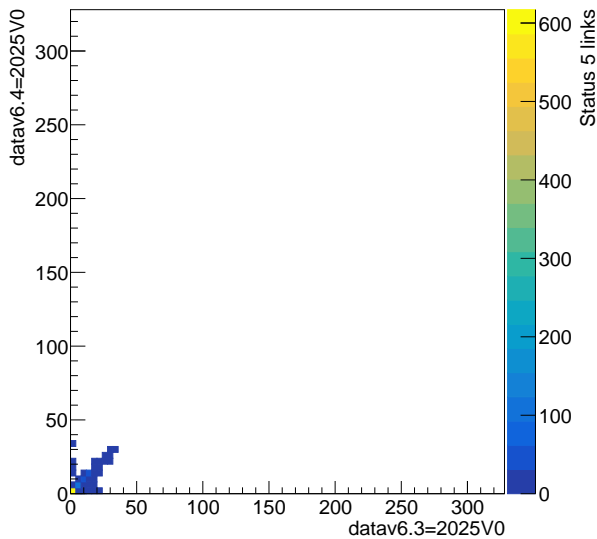
Number of Status 4 links



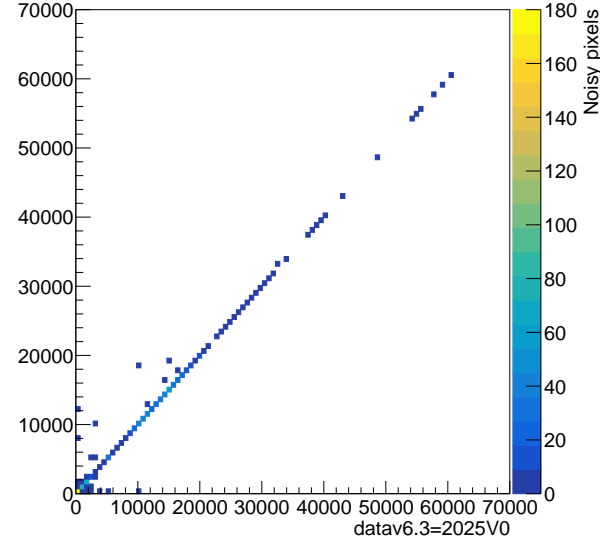
Good links: datav6.3=2025V0 - datav6.4=2025V0



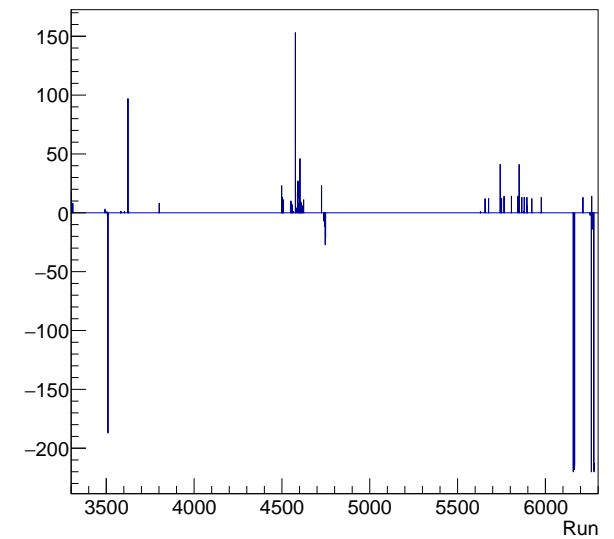
Number of Status 5 links



Number of noisy pixels



Status 4 links: datav6.3=2025V0 - datav6.4=2025V0



⇒ Payload validation of runs with largest differences on-going

Validation Overview

run = 3301 Diff(good links) = -28	run = 5850 Diff(good links) = -37
run = 3509 Diff(good links) = 167	run = 5865 Diff(good links) = -11
run = 3623 Diff(good links) = -55	run = 5879 Diff(good links) = -11
run = 4498 Diff(good links) = -43	run = 5894 Diff(good links) = -11
run = 4502 Diff(good links) = -29	run = 5922 Diff(good links) = -11
run = 4576 Diff(good links) = -144	run = 5976 Diff(good links) = -11
run = 4577 Diff(good links) = -18	run = 6157 Diff(good links) = 208
run = 4591 Diff(good links) = -31	run = 6158 Diff(good links) = 220
run = 4602 Diff(good links) = -60	run = 6159 Diff(good links) = 203
run = 4608 Diff(good links) = -11	run = 6162 Diff(good links) = 197
run = 4623 Diff(good links) = -11	run = 6163 Diff(good links) = 212
run = 4725 Diff(good links) = -35	run = 6164 Diff(good links) = 198
run = 4739 Diff(good links) = 21	run = 6165 Diff(good links) = 210
run = 4742 Diff(good links) = 24	run = 6166 Diff(good links) = 202
run = 4743 Diff(good links) = 27	run = 6213 Diff(good links) = -11
run = 4744 Diff(good links) = 24	run = 6261 Diff(good links) = 210
run = 4745 Diff(good links) = 27	run = 6263 Diff(good links) = -14
run = 4746 Diff(good links) = 49	run = 6270 Diff(good links) = 14
run = 4748 Diff(good links) = 52	run = 6271 Diff(good links) = 14
run = 5656 Diff(good links) = -11	run = 6274 Diff(good links) = 212
run = 5676 Diff(good links) = -11	run = 6275 Diff(good links) = 209
run = 5742 Diff(good links) = -35	run = 6276 Diff(good links) = 216
run = 5764 Diff(good links) = -14	
run = 5806 Diff(good links) = -14	
run = 5843 Diff(good links) = -14	

Overview - run by run

- Comparison between raw JSON file and payload
 - ▷ use most conspicuous run on previous page
 - ▷ Table contains counts JSON/Payload

Run	(M)asked	(S)tatus4	Diagnostic
3509	99/98	225/210	M: 102C, S: 102AB, (195,1316)ABC, 1286B top/bottom, (1281-1158)ABC deadChip
4576	99/96	62/59	M: 102C, 1126AC contaminated S: 1251ABC top/bottom
4602	99/98	0/0	M: 102C
4608	99/95	50/50	M: 102C, 1123A contamination, 1126B contamination
4725	99/98	0/0	M: 102C
4748	99/96	21/21	M: 1123B contamination, 102X, 165A contamination
5656	99/97	13/12	M: 102C S: 102X
5850	99/98	3/3	M: 102C
6157	96/95	228/220	M: 102C declBad, S: 102AB, (1158,1281)ABC empty
6158	96/95	228/220	ditto
6164	96/95	228/199	M: 102C, S: 102AB, (1158,1281,1284-6,1316-8)ABC empty
6213	96/95	1/1	M: 102C, S: confirmed same chip+link
6261	96/95	228/220	M: 102C, S: 102AB, (1158,1281)ABC empty
6263	96/95	2/2	M: 102C, S: confirmed same chips+links
6270	96/94	17/17	M: 102C, 165C contaminated

⇒ Successful manual validation of (a selection of) payloads