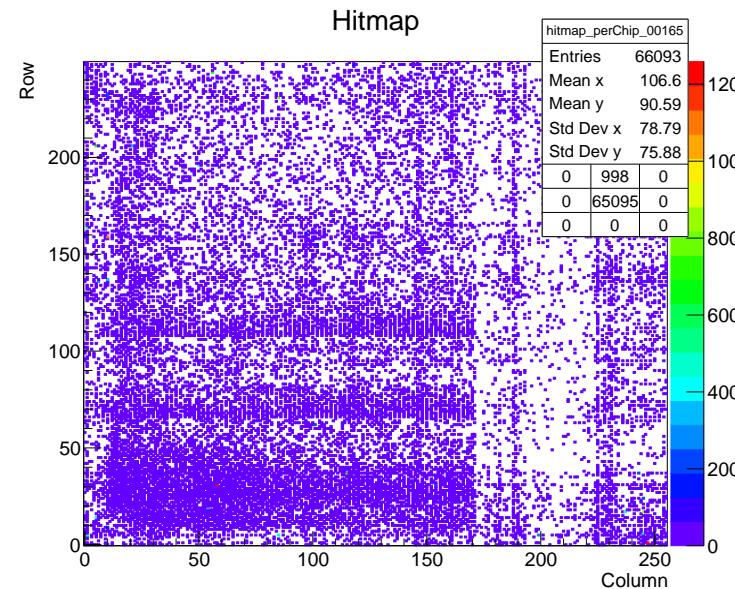


pixelQualityLM

- Corrections to pixelQualityLM

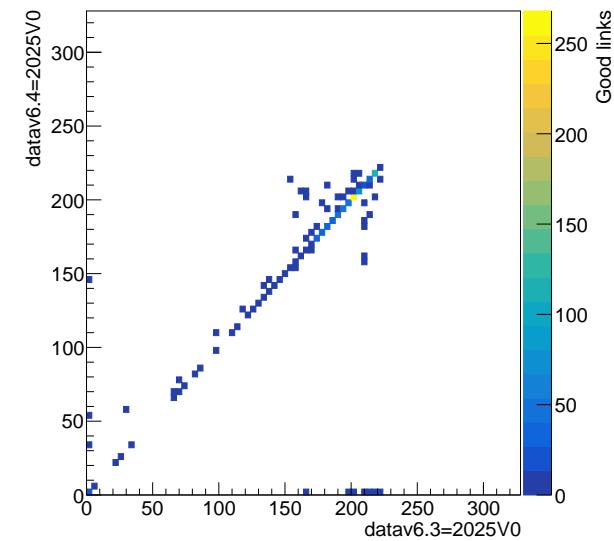
- ▷ previous version used outdated MIDAS meta data
 - lvdsErrRates were not correctly included (bug!)
- ▷ changed status of masked links (with LVDS errors on unmasked other links)
 - if hits present, link = 5
 - if no hits present, link = 9

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

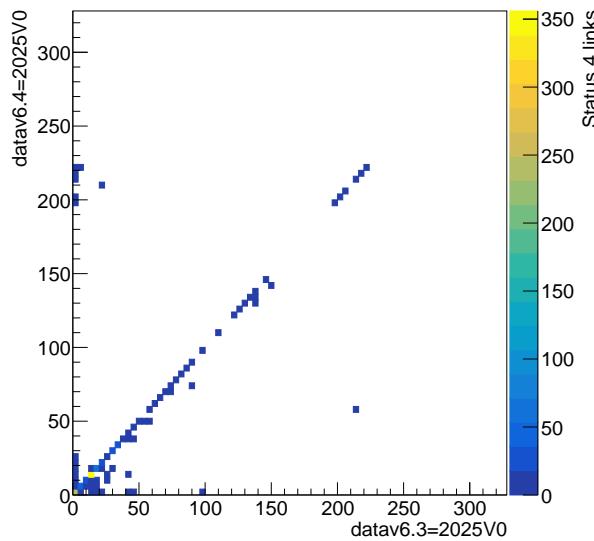


Comparison to previous payload

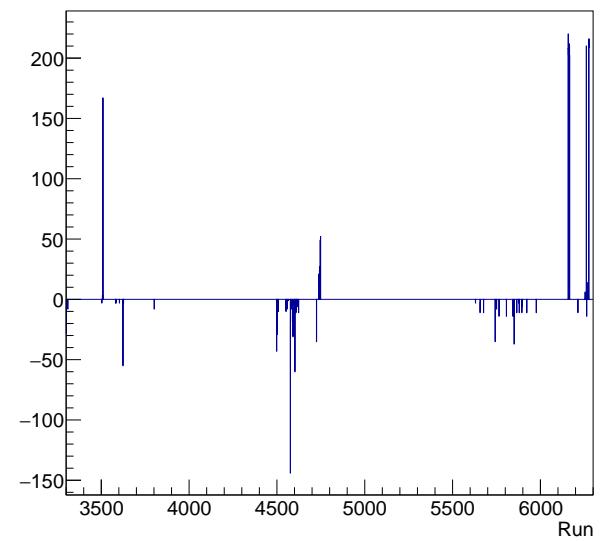
Number of good links



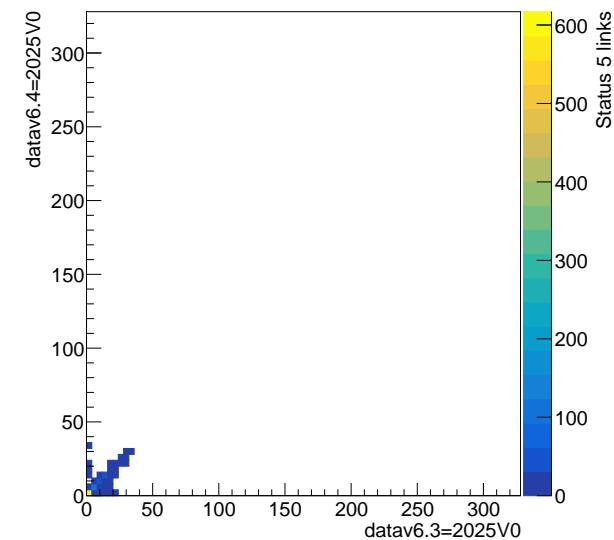
Number of Status 4 links



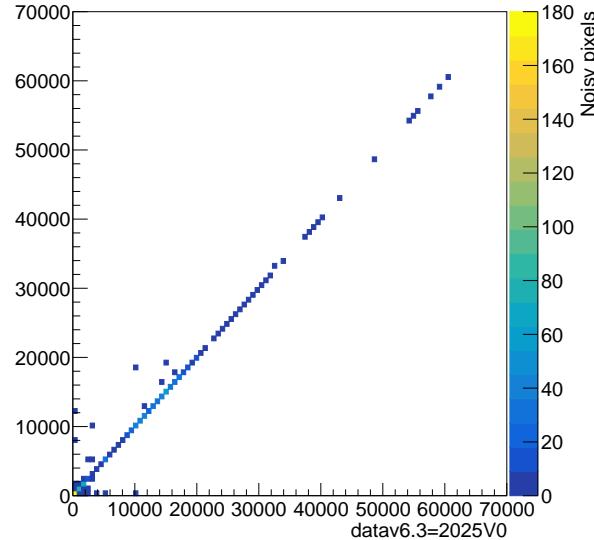
Good links: datav6.3=2025V0 - datav6.4=2025V0



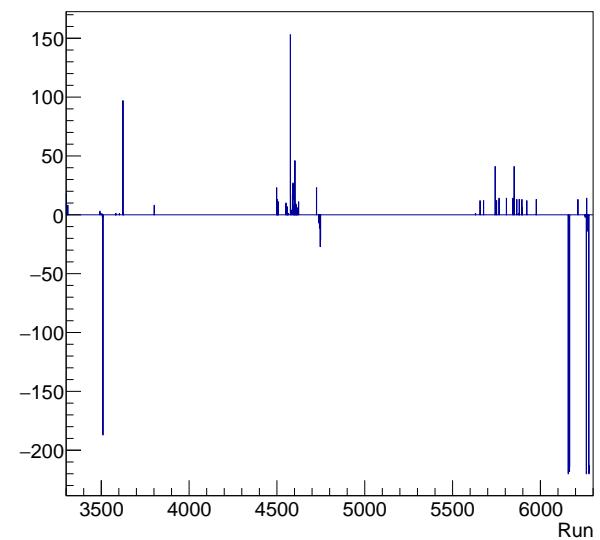
Number of Status 5 links



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