

PCS trigger

CTP algorithm implemented on **rocps2** crate,

GTP trigger: any coincidences between channels in arms A and B

| PSC channel | FADC Slot-CH | CTP bit |
|-------------|--------------|---------|
| A1 | 6 - 0 | 0 |
| A2 | 6 - 1 | 1 |
| A3 | 6 - 2 | 2 |
| A4 | 6 - 3 | 3 |
| A5 | 6 - 4 | 4 |
| A6 | 6 - 5 | 5 |
| A7 | 6 - 6 | 6 |
| A8 | 6 - 7 | 7 |
| B1 | 6 - 8 | 8 |
| B2 | 6 - 9 | 9 |
| B3 | 6 - 10 | 10 |
| B4 | 6 - 11 | 11 |
| B5 | 6 - 12 | 12 |
| B6 | 6 - 13 | 13 |
| B7 | 6 - 14 | 14 |
| B8 | 6 - 15 | 15 |

Start Counter trigger

CTP algorithm implemented on **rocst** crate

GTP trigger: number of hits, coincidence pattern (LUT)

| ST channel | FADC Slot - CH | CTP bit |
|------------|----------------|---------|
| 1 | 3 - 0 | 0 |
| 2 | 3 - 1 | 1 |
| 3 | 3 - 2 | 2 |
| 4 | 3 - 3 | 3 |
| 5 | 3 - 4 | 4 |
| 6 | 3 - 5 | 5 |
| 7 | 3 - 6 | 6 |
| 8 | 3 - 7 | 7 |
| 9 | 3 - 8 | 8 |
| 10 | 3 - 9 | 9 |
| 11 | 3 - 10 | 10 |
| 12 | 3 - 11 | 11 |

| | | |
|----|--------|----|
| 13 | 3 - 12 | 12 |
| 14 | 3 - 13 | 13 |
| 15 | 3 - 14 | 14 |
| 16 | 3 - 15 | 15 |
| 17 | 4 - 0 | 16 |
| 18 | 4 - 1 | 17 |
| 19 | 4 - 2 | 18 |
| 20 | 4 - 3 | 19 |
| 21 | 4 - 4 | 20 |
| 22 | 4 - 5 | 21 |
| 23 | 4 - 6 | 22 |
| 24 | 4 - 7 | 23 |
| 25 | 4 - 8 | 24 |
| 26 | 4 - 9 | 25 |
| 27 | 4 - 10 | 26 |
| 28 | 4 - 11 | 27 |
| 29 | 4 - 12 | 28 |
| 30 | 4 - 13 | 29 |