



ROI Algorithm Status and BonnDAQ Status

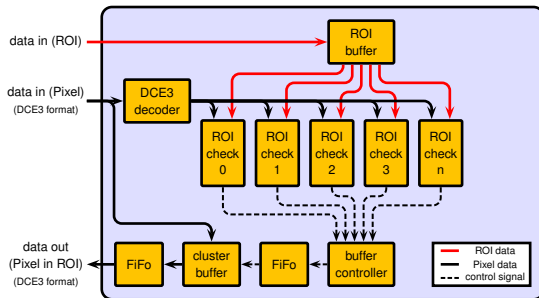
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for the Gießen Group

Belle 2 Telescope "Gemba" Meeting
9. April 2013, DESY, Hamburg

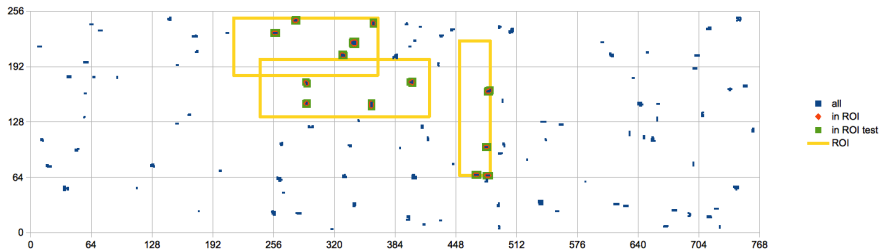
- 1 Status of ROI Selection Core
- 2 Status of BonnDAQ for DESY Test

ROI Selection Core



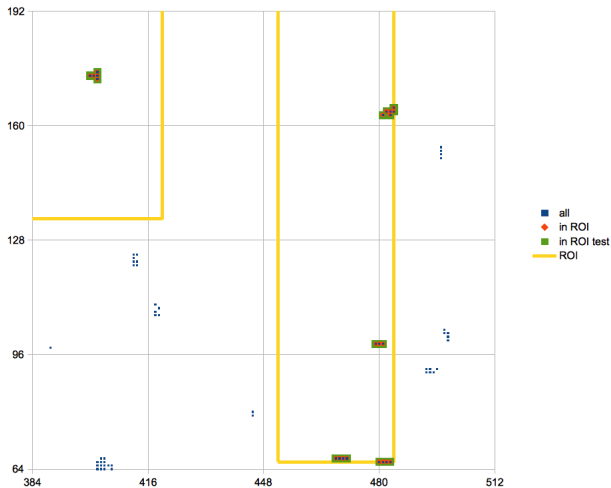
- Simulated with ISim and implemented hardware tested with chipscope
- working:
 - 😊 ROI buffer, ROI check
 - 😊 DCE decoder
- **NEW** working (first correctly processed event, more tests needed):
 - 😊 Buffer controller
 - 😊 Fifo for control signals, Cluster buffer

Correctly processed Event

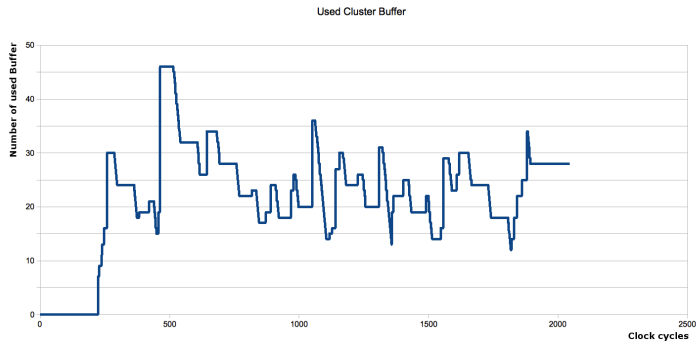


- First correctly processed Event
- Further tests required

Correctly processed Event



Cluster Buffer Usage



- Cluster buffer fills up during waiting for output from ROI core
- Cluster buffer drains during break between bursts
- Further checks required

Development in progress

- For development: Local random data input needed
 - Generation of data and sending to BonnDAQ is Possible
 - Accepting of received data and writing to file not working yet
Problems with recognizing of Trigger ID
- DHH data decoder has to be integrated
- Data visualisation has to be integrated

- First correctly processed event in ROI Core (more tests needed)
- Development of visualisation of DHH data in BonnDAQ started