

The DAQ Status of JadePix3

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JadePix3 Weekly Meeting

Outline

- 1 DAQ Status
 - Firmware
 - Software

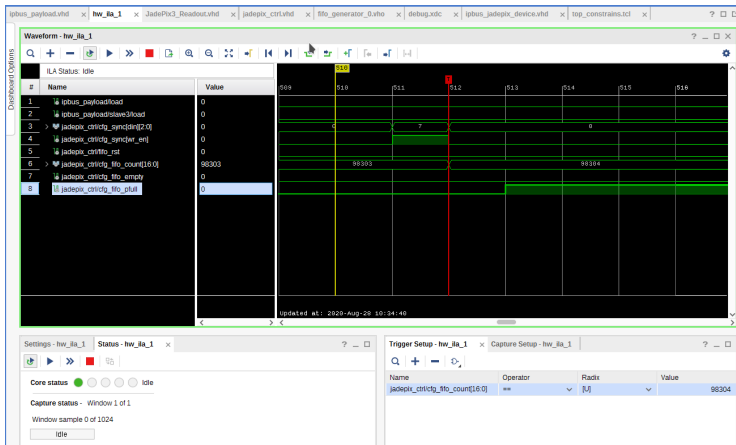
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The Status of Firmware

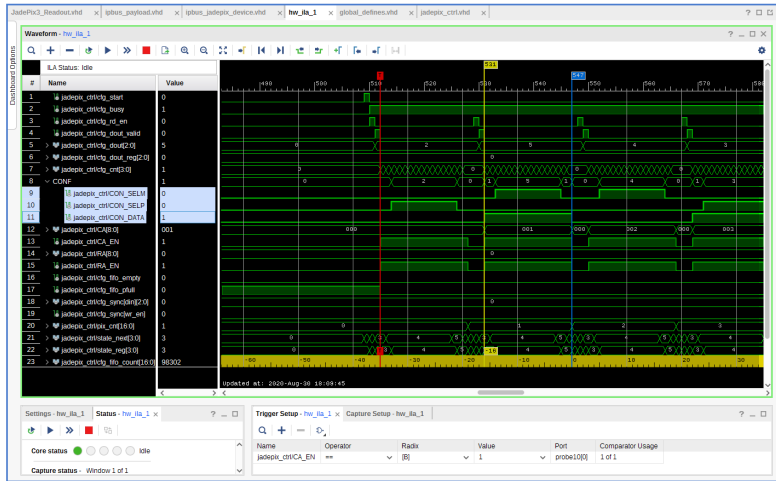
- DAC70004 ILA timing
- JadePix3 SPI ILA timing
- Jadepix3 configuration ILA timing
- Jadepix3 rolling shutter mode ILA timing
- Jadepix3 Global shutter mode ILA timing

FIFO Write Timing



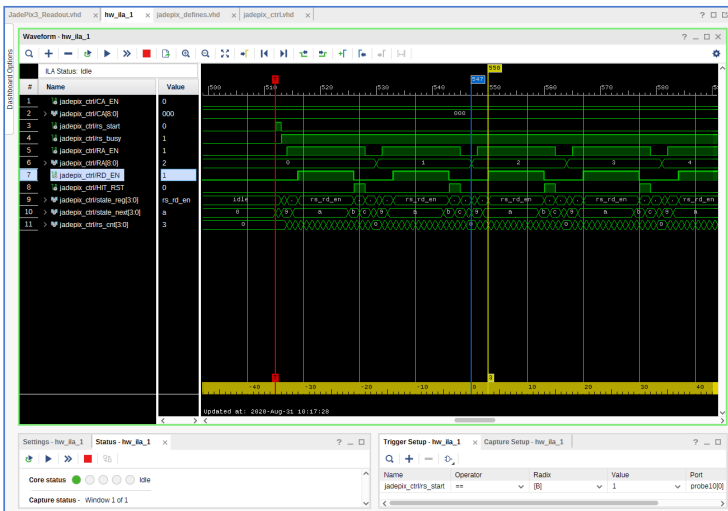
FIFO Width = 3 (SELM, SELP, DATA). FIFO Depth = 131072.
 Write $512 * 192 = 98304$ times. It takes about 15.0 seconds for software.

Chip Configuration Timing



Read $512 \times 192 = 90384$ times from FIFO.

The RS timing



Hitmap not implemented yet.

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Software Status

1. SPI configuration

- The location of configuration file: **lib/jadepix_defs.py**. Consider to change the style be more general, eg, *.ini, *.json

2. JadePix configuration

- The location of configuraiton file: **config/jadepix_config.txt**

Summary

- Outlook
 - RS/GS mode ILA timing.
 - Readout logic.