

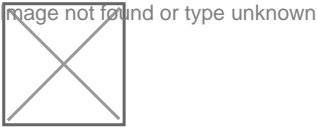
Instructions

Various OCI instructions

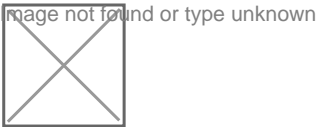
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Tagging a Marker Interval as debug

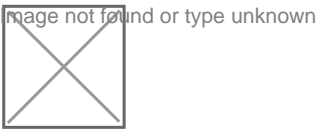
1. Go to oci.xina.io
2. Open the "OCI Intervals" tool (Tools --> OCI Intervals)
3. Change to the "Flight Model" (or the relevant model)
4. Under the "Search Markers" panel on the left side, find the marker(s) you want to tag as debug
5. For each marker, click the expand button



6. Click the text for the "meta" field



7. Change the value of the DEBUG field from "NO" to "YES".



8. Click the Save Changes button. If the button is greyed out, you either didn't make any changes or there is a JSON syntax error.
9. You can hit escape or click outside of the modal box to close the marker popup

Processing DAU/FPA Tuning data

RG Bias Sweeps

The RG Bias sweep is performed by stepping each RG Mag voltage individually and collecting multiple raw captures at each voltage level.

Pre-test Setup:

- Open 2 instances of the DDC Raw Viewer. One set to CCD ID Blue and the other CCD ID Red.

It's important that there are only 2 instances open, otherwise they may overwrite each others exported data.

As the sweeps are performed, the raw captures will be automatically exported to `$HOME/ocidata/raw_captures`, where `$HOME` is the user's home directory. The sub-directory names and structures will be generated from the XINA markers. The data for a single RG Mag sweep will be placed into its own directory e.g. `2022-04-13T00-04-58_RgM3_Red`. This directory will contain the raw captures for each voltage step.

The scripts to process the data should be run on this directory. For example:

```
cd ~/ocidata/raw_captures
analyze_biassweep_dau 2022-04-13T16-09-49_RgM3_Red_Dark
```

For light sweeps, you need to provide the analyzed results from the dark sweep.

```
analyze_biassweep_dau 2022-04-13T00-04-58_RgM3_Red 2022-04-13T16-09-49_RgM3_Red_Dark/analysis
```

RG Low Sweeps

The RG Low sweep is performed by stepping the RG Low voltages and all 3 RG Bias voltages and collecting multiple raw captures at each voltage level.

```
cd ~/ocidata/raw_captures
analyze_RGlow_Sweep_dau <RG Low DIR>
```

Dark Raw Captures

```
cd ~/ocidata/raw_captures/<DARK DIR>  
analyze_dark_dau raw/
```

This will produce plots in the `raw/analysis/` directory.

Light Raw Captures

TBC

```
cd ~/ocidata/raw_captures/  
analyze_TDI_dau light_dir dark_dir
```