

nuZOO - Horses



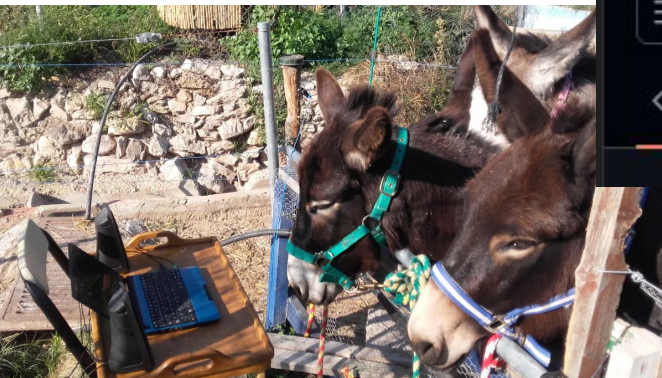
Progress with nu-ZOO

Interest in MULE has continued to be high!

Big updates to MULE in particular since DRD2 meeting. Lots of progress has been made!

Lots more work left to do!

Commits over the last year of **nu-ZOO/MULE**



MULEs working hard!



RECAP

nu-ZOO incentives!

RECAP

Rewards based on input to nu-ZOO projects!

MULE case:

- issues are published to the repo
- I will triage the issues with a certain number of points.
- Whoever submits and gets an approval of the corresponding PR will get those points!

Points will be convertible into fun goodies!

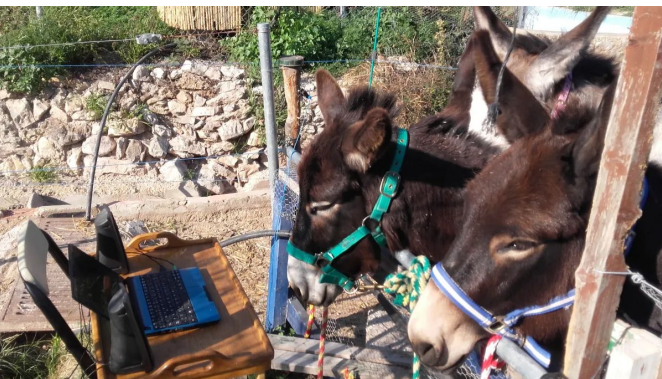
(Retroactively applied to the start of the year.)



Everyone loves an incentive!

Progress with nu-ZOO - Updated

How have the incentives helped?



MULEs working hard!

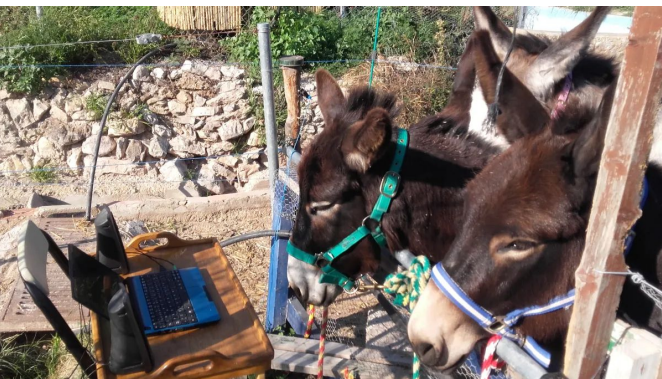
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Progress with nu-ZOO - Updated

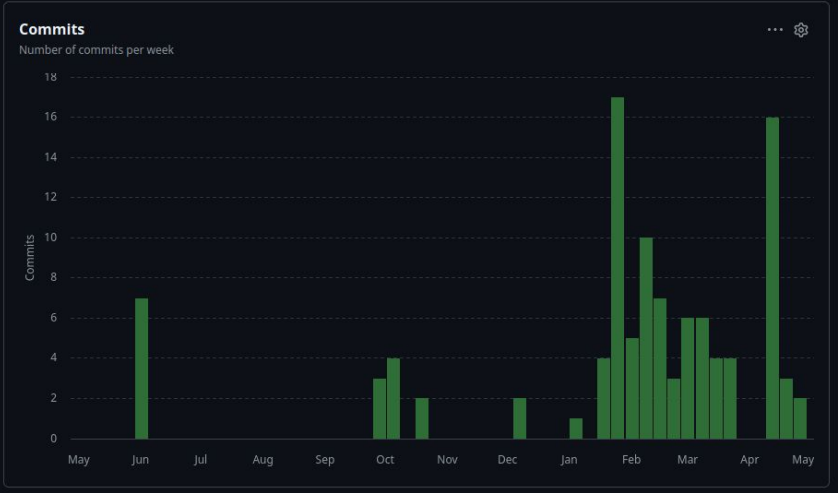
How have the incentives helped?

They've helped a lot!



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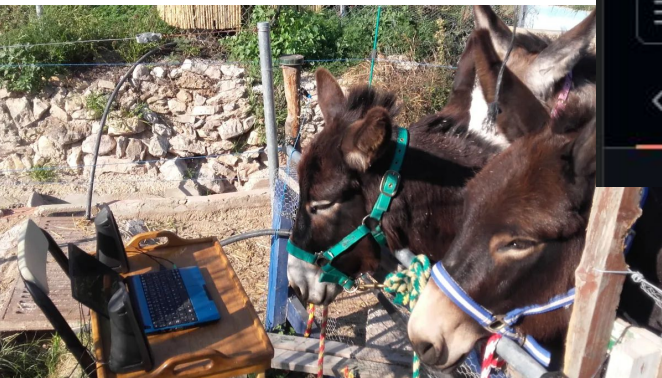
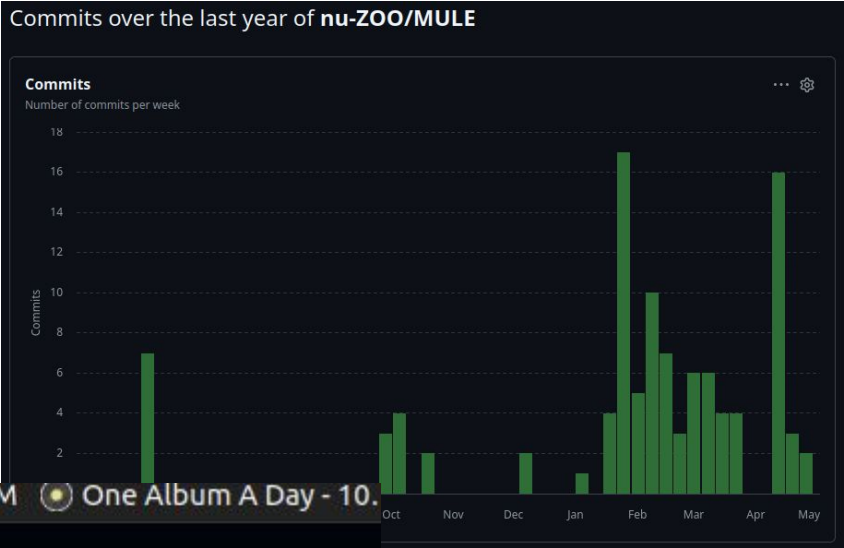
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Progress with nu-ZOO - Updated

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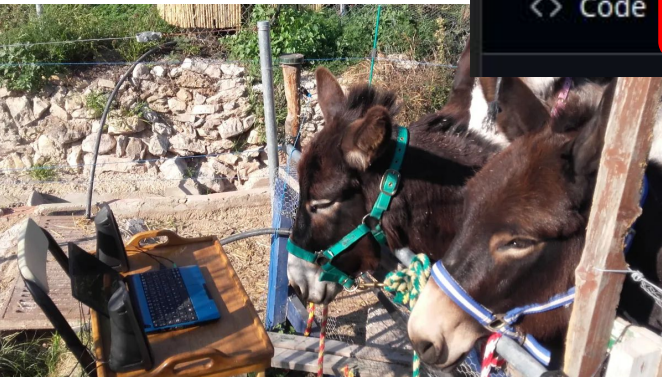
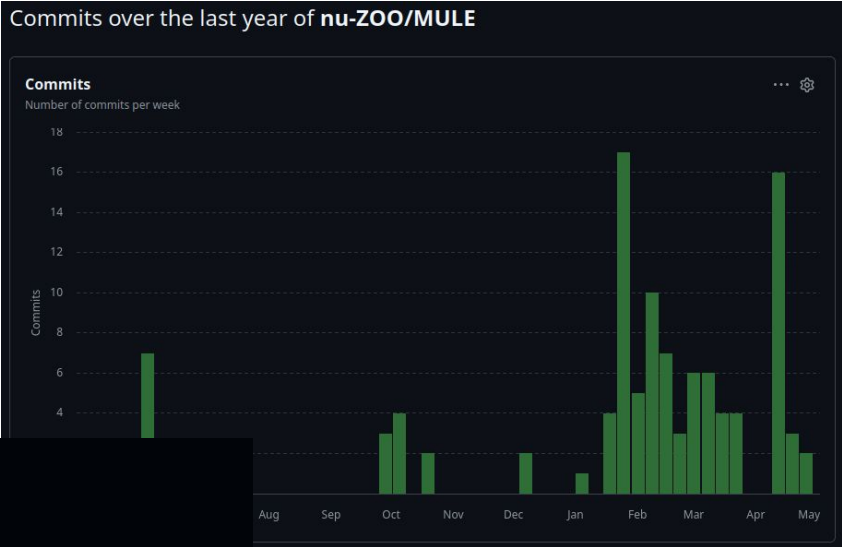
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Progress with nu-ZOO - Updated

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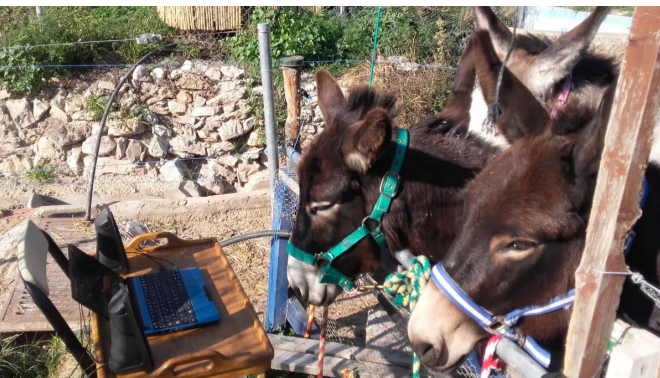


MULEs working hard!

Progress with nu-ZOO - Updated

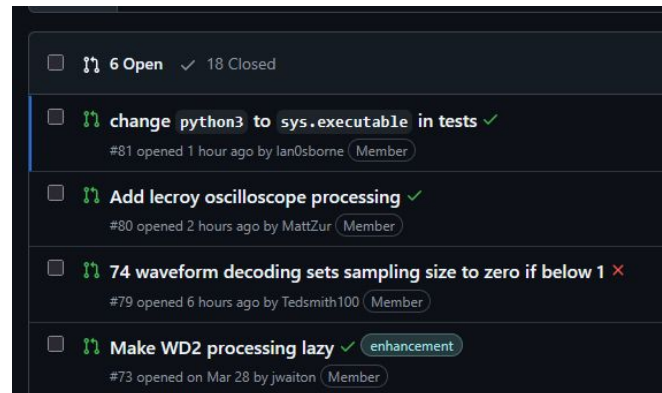
Changes so far:

- [used tmp_path directory from pytest for the test output files \(#67\)](#)
- [Add simple waveform integration processing \(#68\)](#)
- [Remove specific arguments from config file before procesing \(#52\)](#)
- [Add waveform averaging \(#44\)](#)
- [sample size is not a valid parameter \(#76\)](#)
- [Fix python version for MacOS pytest issues \(#77\)](#)



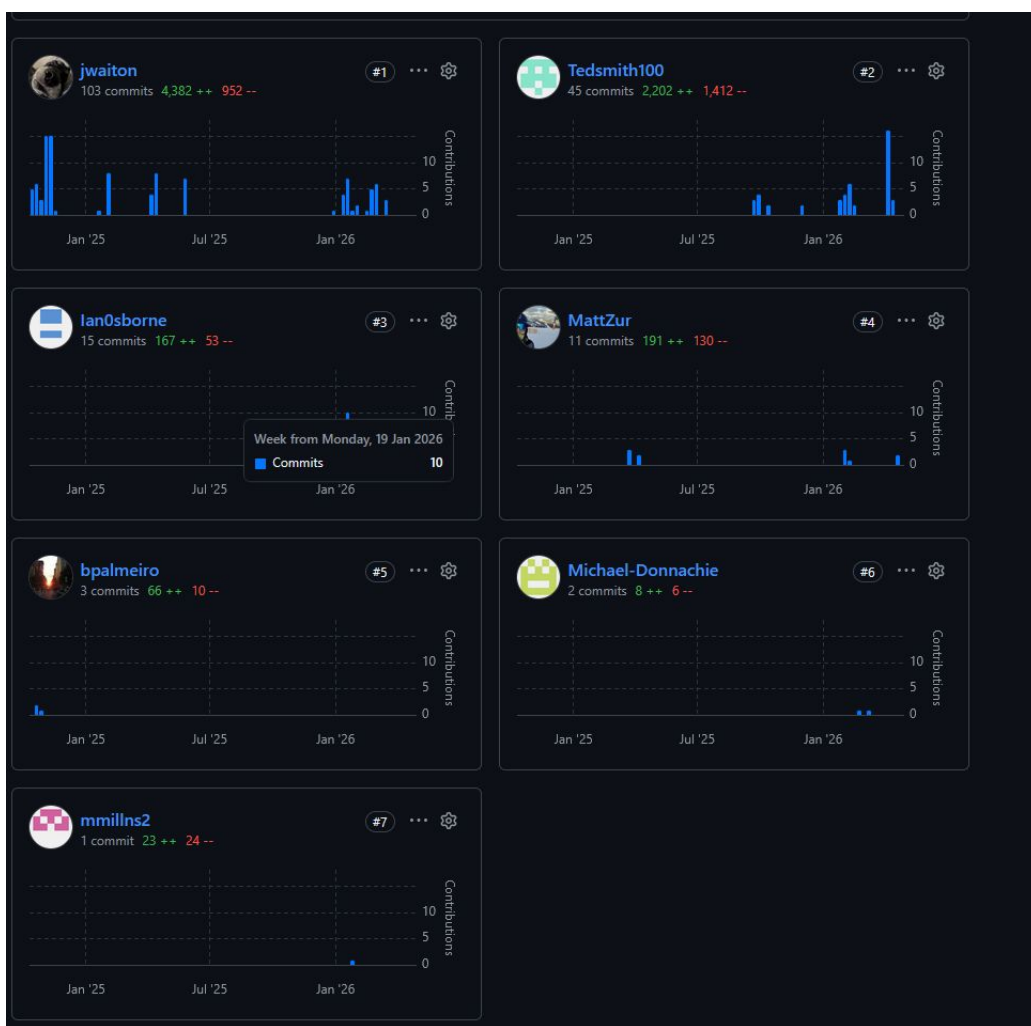
MULEs working hard!

Changes on the way!



New contributors!

Thanks to everyone for all their help!



This will not get you more MULE points :)

⚠ MattZur requested your review on this pull request.

Add your review

Add lecroy oscilloscope processing #80

Awaiting approval

Code

Open MattZur wants to merge 11 commits into nu-Z00:main from MattZur:add-lecroy-processing

Conversation 1

Commits 11

Checks 1

Files changed 7

+1,253,198 -7



MattZur commented 46 minutes ago

Member

This extends processing functionality to the LeCroy oscilloscope range. This PR is specifically for the oscilloscope model LECROYWS4054HD.

Now the structure of the wd1 processing but with different header reading. In the future

Reviewers

jwaiton

Reviewers

At least 1 approving review is required to merge this pull request.



+1,253,198 -7

nu-ZOO incentives!

<https://github.com/orgs/nu-ZOO/projects/8>

RECAP

NAME	POINTS
MattZur	5
mmillns2	1
Ian0sborne	8
Michael-Donnachie	2
Tedsmith100	37
bpalmeiro	5

Points	Prize
50	T-SHIRT
???	NO IDEA PLEASE SUGGEST
20	GRUMPY MULE COFFEE (200g)
10	STICKER OF CHOICE
5	GINGER SNAPS OR CHOCOLATE DIGESTIVES (COOP OWN BRAND)

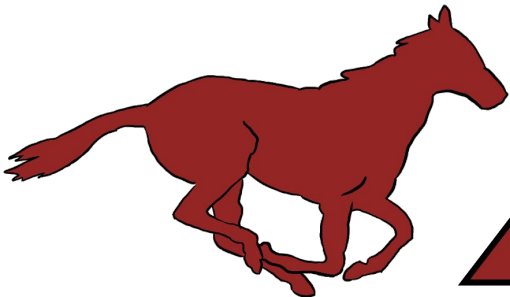


POINTS CAN BE EXCHANGED
FOR GOODS AND SERVICES.

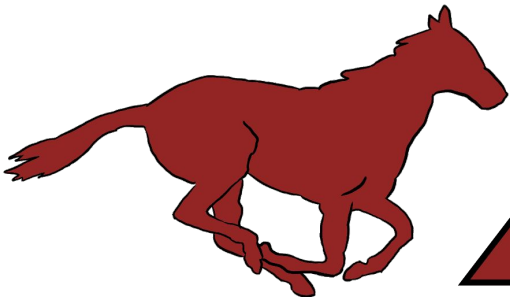
Requests from DRD2

- Clear the important PRs ← **Working on this!**
- Add library facility for decoding ← **How about this?**

CAEN Output Loader & Translator

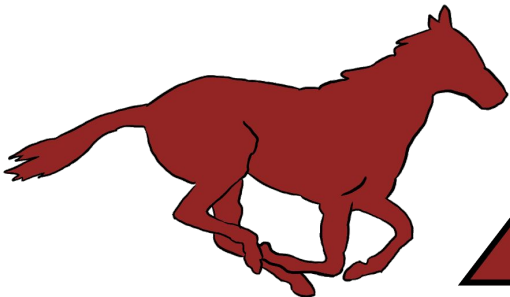


CAEN Output Loader & Translator



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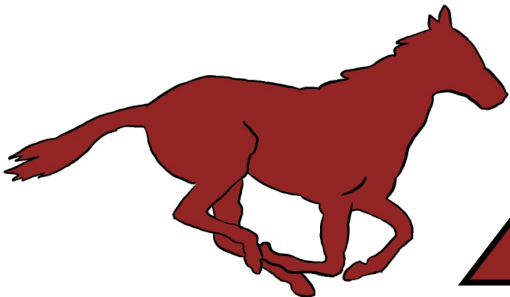
Simple python library for decoding wavedump 1 & 2 waveforms.



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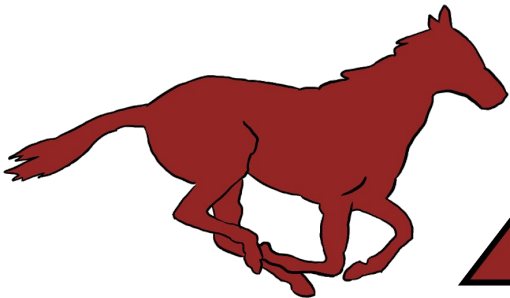
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```
(.venv) e78368jw@e-10lux3072wzz:scripts$ python3 test_speed_WD1.py
Processing Finished!
Processing Finished!
Rust: 0.006s
Python: 0.151s
Speedup: 25.31x
```

13-25x improvement for WD1

2-3x improvement for WD2

```
(.venv) e78368jw@e-10lux3072wzz:scripts$ python3 test_speed_WD2.py
/home/e78368jw/Documents/COLT/python/scripts/funcs/WD_funcs.py:174: UserWarning: No byte order provided. This may cause issues.
  warnings.warn("Warning: No byte order provided. This may cause issues.")
3 channels detected. Processing accordingly...
Processing Finished!
3 channels detected. Processing accordingly...
Processing Finished!
Rust: 0.000360s
Python: 0.000842s
Speedup: 2.335945x
```

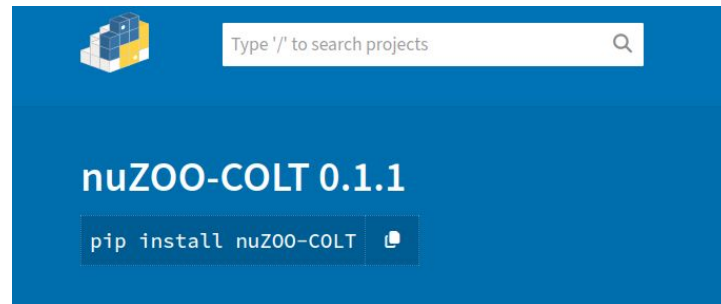


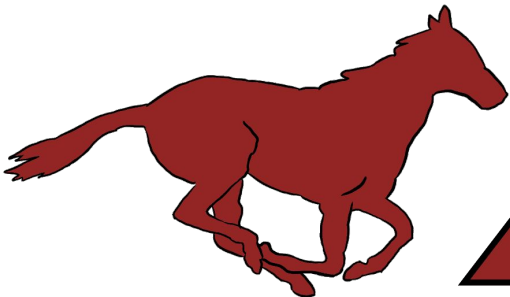
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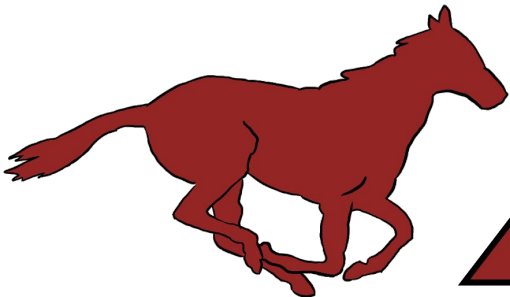
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Super easy to use and setup. → Demonstration time!



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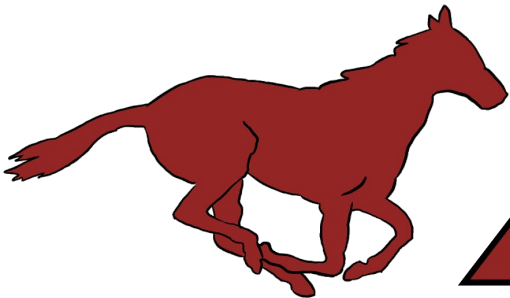
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Still in testing, expect bugs! Please report any issues on the github.



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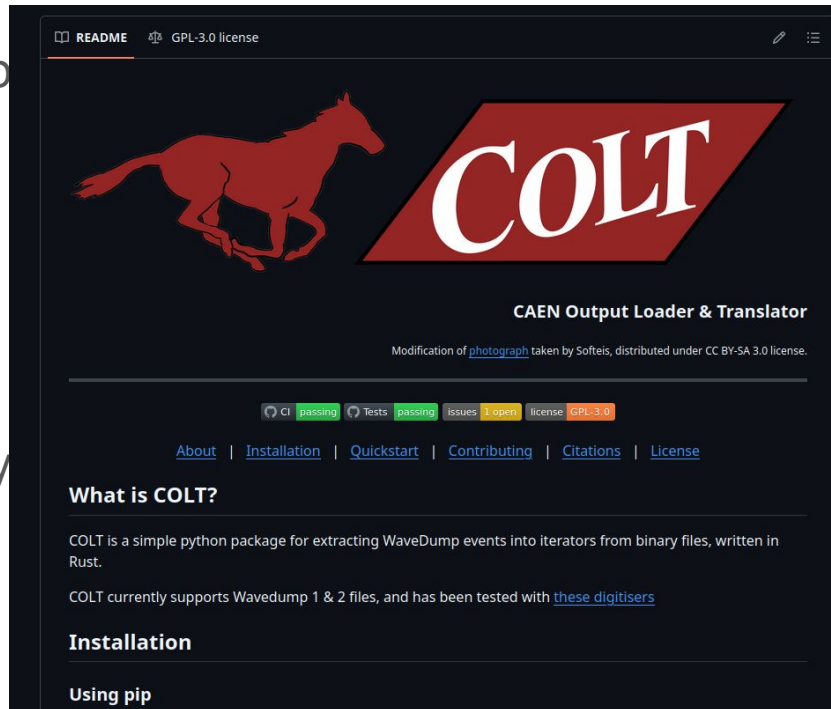
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Thanks! Any questions?

