loop-dhs Documentation

Release unknown

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This is the documentation of **loop-dhs**.

Note: This is the main page of your project's Sphinx documentation. It is formatted in reStructuredText. Add additional pages by creating rst-files in `docs` and adding them to the toctree below. Use then references in order to link them from this page, e.g. *Contributors* and *Changelog*.

It is also possible to refer to the documentation of other Python packages with the Python domain syntax. By default you can reference the documentation of Sphinx, Python, NumPy, SciPy, matplotlib, Pandas, Scikit-Learn. You can add more by extending the `intersphinx_mapping` in your Sphinx's `conf.py`.

The pretty useful extension autodoc is activated by default and lets you include documentation from docstrings. Docstrings can be written in Google style (recommended!), NumPy style and classical style.

CHAPTER

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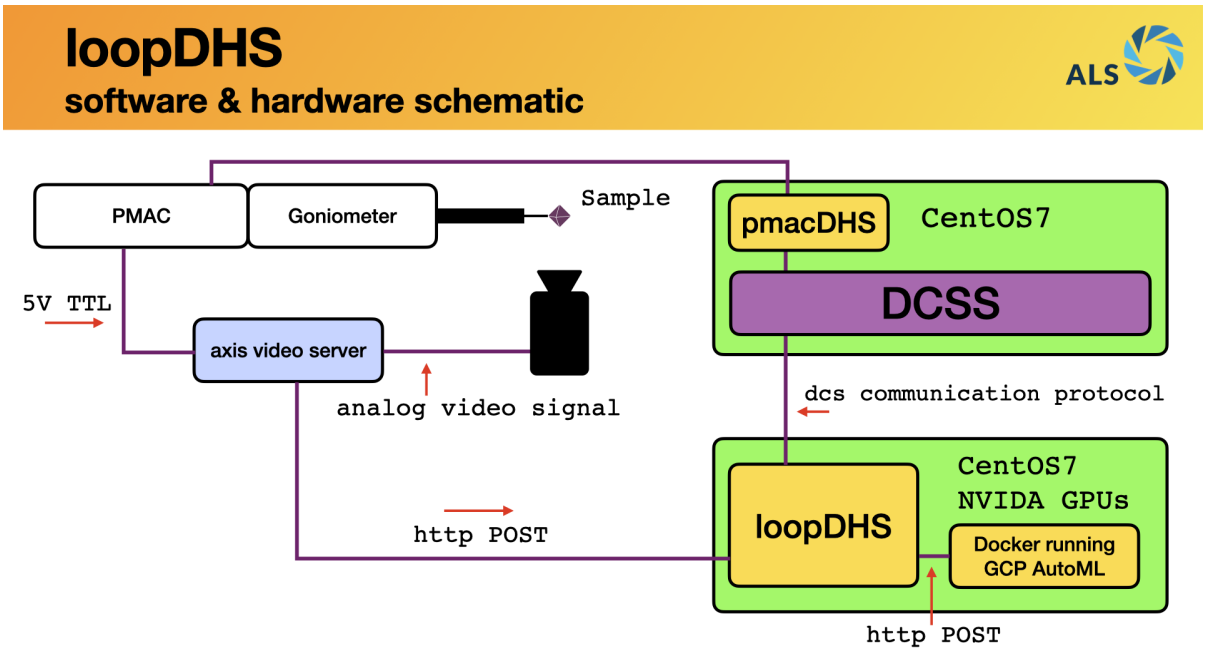
1.1 Installation

loop-dhs is not a standalone software project. It is designed to work in conjunction with DCSS Control system, a properly configured AXIS Video server, and an edge-deployed Google AutoML inference model running on a local docker instance.



This shows a conceptual schematic of how the various pieces of hardware and software are configured at beamline 8.3.1 to support loopDHS.

1.1.1 Dependencies

- virtualenv
- python 3.8 (might work on 3-6-3.7, I haven't tested)
- pydhsfw

1.1.2 Install

Checkout the code from GitHub:

```
$ git clone git@github.com:dsclassen/loop-dhs.git
$ cd loop-dhs
```

Setup and source a python virtualenv:

```
$ virtualenv -p python3.8 .env
$ source .env/bin/activate
$ pip install --upgrade pip
```

Install into local python environment:

```
$ pip install -e .
```

Note: I have not yet figured out how to add `pydhsfw` to the install dependencies in setup.cfg. You need to install pydhsfw dependency manually for now.

Install pydhsfw manually for now:

```
$ cd some_working_dir
$ git clone git@github.com:tetrahedron-technologies/pydhsfw.git
$ cd pydhsfw
$ pip install -e .
```

1.2 loop_dhs

1.2.1 loop_dhs package

Submodules

loop_dhs.loopDHS module

Module contents

1.3 License

The MIT License (MIT)

1.4 Contributors

- Scott Classen <sclassen@lbl.gov>

1.5 Changelog

1.5.1 Version 0.1

- Feature A added
- FIX: nasty bug #1729 fixed
- add your changes here!

CHAPTER

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INDICES AND TABLES

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