

DockerPlwin

A Docker container has been created for the EISCAT C/Python lag profiling software, plwin.

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Availability

The image is available on Dockerhub as **eiscat/plwin**.

Dockerhub page: <https://cloud.docker.com/u/eiscat/repository/docker/eiscat/plwin>

Source code

The sources are available at:

https://source.coderefinery.org/EISCAT/plwin/tree/feature/docker_volume

Description

This software reads Eiscat L2 matlab files with raw data in **d_raw**, available e.g. in the *manda* and *beata* experiments.

The output is

- Files with old and new lag profiles in HDF5 format
- Plots of old and new lag profiles in PDF format

Usage instructions

1. Create a directory for input data
2. Copy matlab files to the input directory
3. Copy parameter file to input directory, renaming it to **exp_code.par**
4. Create a directory for output
5. Run this Docker image with the input and output directories mounted.

Example (insert correct paths to the input and output directories on the host)

```
$docker run --rm --mount type=bind,source=host_data_path,destination=/mnt/input --mount type=bind,source=host_output_path,destination=/mnt/output eiscat/plwin
```

See also `pltest.sh` in the sources.