



```
(vlass.d3) vlapipe@hamilton$ pimscache --help
usage: pimscache [-h] {split,ls,rm,lspc,cp,ln} ...
```

The Per-Image Measurement Set (PIMS) Cache system.

This tool is one-stop shopping for all your PIMS cache maintenance needs.

Actions for data analysts:

- split: use this to create PIMS from a restore
- ls: use this to investigate what PIMS are in the cache
- rm: use this to delete PIMS from the cache
- lspc: use this to see what phase centers exist under a tile

Each of these actions has additional arguments you may need to specify.

To get the help on a specific action, specify `-h` after the action.

The remaining actions are used by the workflow system and can be safely ignored:

- cp: workflows use this to insert a PIMS into the cache
- ln: workflows use this to retrieve a PIMS from the cache

positional arguments:

```
{split,ls,rm,lspc,cp,ln}
```

split split to per-image measurement sets (for DAs)

ls list the contents of the cache (for DAs)

rm remove PIMS from cache (for workflows and DAs)

lspc list phase centers under a given tile (for DAs)

cp copy PIMS to cache (for workflows)

ln link phase center from the cache into the target directory (for workflows)

optional arguments:

```
-h, --help show this help message and exit
```

You can get further help on the commands by typing `pimscache $COMMAND -h`, where `$COMMAND` is one of `split`, `ls`, `rm`, `lspc`. For example, `pimscache split -h` yields:

## Step Three: Activate Your Chosen Workflow's Profile

```
activate_profile vlass.test
```

Notice that your prompt has changed, indicating the active profile, but `vlass.t3` wasn't what you typed: each of the VLASS CAPO Profiles (`vlass.prod`, `vlass.test` or `vlass.dev`) has one of three different CAPO Profiles associated with it: for example, `vlass.test` has `vlass.t1`, `vlass.t2` and `vlass.t3`. `vlass.test` is a shortcut that points at the currently executing profile, `vlass.t3`.

At this point the `pimscache` command should be available to your account, test that with:

```
which pimscache
```

If it says *no such command* or produces an error, something is wrong, seek help. If not, when you are done, either `deactivate_profile` or just log out.

## Setup for TCSH/CSH Users

### Step One: Log Into an NRAO Workstation, Server or Reserved Cluster Node

Here I also switched over to `tcsh`, but a user whose chosen shell is `tcsh` would not have to do this step:

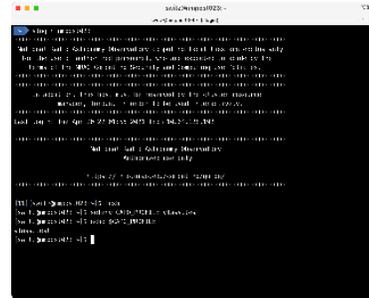
### Step Two: Set the CAPO\_PROFILE Environment Variable

```
(vlass.d3) vlapipe@hamilton$ pimscache split -h
usage: pimscache split [-h] [-v VERSION-ID | -c
CAL] [-p DEC+RA] [-t TILE]
                        [-r PATH-TO-RESTORE] [--
casa-home CASA_HOME]

optional arguments:
  -h, --help                show this help message and
exit
  -v VERSION-ID, --version_id VERSION-ID
                        The version ID (jobspec
ID) whose EB we are checking
for (use this OR execblock
and calibration)
  -c CAL, --calibration CAL
                        The calibration we are
checking for (use this OR
                        version ID), something like
T09t04.T09t07_P56724v1
                        VLASS2.1_T09t34.T09t01.
  -p DEC+RA, --phase-center DEC+RA
                        Right ascension
/declination coordinate of a phase
center
  -t TILE, --tile TILE     Name of a tile (e.g.
T01t01)
  -r PATH-TO-RESTORE, --existing_restore PATH-TO-
RESTORE
                        Path to an existing
restore to use instead of
restoring from scratch
  --casa-home CASA_HOME
                        CASA installation
directory; defaults to the
reprocessing home
```

Here I set the CAPO\_PROFILE environment variable to the profile I wish to use, vlass.test for now, and vlass.prod once *pimscache* is in production:

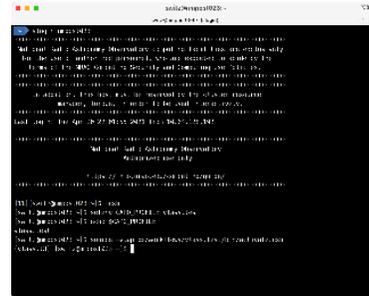
```
setenv CAPO_PROFILE vlass.test
```



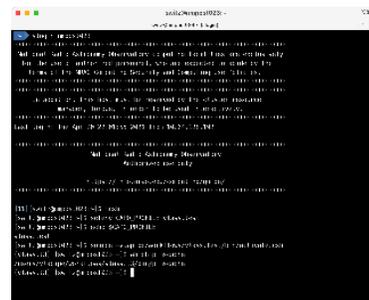
### Step Three: Activate Your Chosen Workflow's Virtual Environment

Here I activate the virtual environment by 'source'ing a file in ~vlapipe/workflows/\$CAPO\_PROFILE/bin:

```
source ~vlapipe/workflows/vlass.test/bin/activate.csh
```



Lastly, I test to make sure *pimscache* is now in my PATH, as I would expect it to be:



If the command had come back with something like 'command not found', something is wrong. When I'm done using *pimscache* I use the deactivate command to switch off the workflow's virtual environment, or I log out.