

eVLBI setup Notes

Run the eVLBI from cave00-ext.atnf.csiro.au

- Log onto cave00-ext as vlbi

```
-> > ssh vlbi@cave00-ext.atnf.csiro.au -> > mkdir correlations/v999/v999a -> >
cd correlations/v999/v999a -> > ftp ftp -> Log on as anonymous -> > cd
pub/people/vlbi/v999/v999a -> > get v999a.vex -> > bye
```

- Create setup files

```
-> > update_eopc -> > vex2model_updated.pl v999a.vex →Set ATCA station reference
(probably CATW104) and type Y to take source from vex
```

- Create the DiFX input file

```
-> > vex2config.pl -evlbi -nchan 256 -int 1 -cross v999a.skd
```

- To create an input file, without a specific antenna, you need to specify the ones you want

```
-> > vex2config.pl -new -evlbi -nchan 256 -int 1 v999a.vex -ant Mp -ant At -
ant Pa -cross -input v999a_noHo.input
```

- Edit the clocks if need be (CLOCK DELAY), values taken from ~vlbi/clocks
- Copy the eVLBI run files from a previous experiment

```
-> > cd correlations/vXXX/vXXXa -> > cp rec*host run*sh threads machines
../../v999/v999a -> > cd ../../v999/v999a
```

- Edit run.sh etc to point to v999a.input

Running eVLBI

Logging and monitoring

- In a terminal run the message logger

```
->> cd correlations/v999/v999a ->> errormon2
```

- In a terminal run the monitor server

```
->> monitor_server 9999
```

- Start eVLBI running:

```
->> ./run.sh
```

This will start the recorders automatically.

If hobart fails to stop, you will need to log onto hovsi.phys.utas.edu.au and kill `vsib_record` explicitly. Generally this is not required

```
-> > killall vsib_record
```

Stopping/restarting

To stop the correlator running (or to initiate a restart), on any `cave00-ext` window

```
->> stopmpifxcorr
```

Restart using the “`run.sh`” command

Monitoring

To get a list of products for the the current setup:

```
->> difx_config v999a.input
```

(it is important to use the same input file as the correlator is going to run)

To see specific individual product, run

```
->> mon_sample localhost v999a.input N [N2 N3 N4]
```

Where N are the product number seen from `difx_config`

The web based monitor only runs on `pam0`. To set this up:

```
->> scp v999a.input v999a.uvw vlbi@pam0: ->> ssh vlbi@pam0
```

- Edit the `.input` file to update the location of the `.uvw` file (ie change path to `/home/vlbi`)

```
->> cd /var/www/lba-live ->> difx-monitor ~/v999a.input cave00-ext 5
```

Clocks

To automatically update clocks run:

```
->> cd correlation/v999/v999a ->> vcal v999a.input localhost
```

This will assume the first antenna is the reference antenna and calculate clock delays to all other telescopes. It gives you the option of updating the clocks in the input file. Note:

- To “apply” the changes you need to restart the correlator (see above).

From:

<https://www.atnf.csiro.au/vlbi/dokuwiki/> - **ATNF VLBI Wiki**

Permanent link:

<https://www.atnf.csiro.au/vlbi/dokuwiki/doku.php/lbaops/lbaobservingnotes/evlbi>

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