ATCA Bi-statuic Radar Observing Instructions

Telescope

cacor setup?

DAS

- Make sure the “8 bit” cable is connected between DAS “DigiOut” board and VSIC
- Set VSIC to mode (Huygens)
- Configure DAS using `msl_f.pro` profile. This gives a 4 MHz band, offset from central ATCA IF frequency by XX MHz.

Recording

Record the data using the command:

```
vsib_record -m 2 -bits 8 -w 4 -x -o EXPERIMENTNAME -t Xh
```

Where “X” is the recording time in hours. There is an alias to allow this to be simplified to:

```
radarrecord -o EXTERIMENTNAME -t Xh
```

Realtime spectra

Create realtime spectra to be loaded onto the interactive webpage:

```
fauto_ipp -n 80000 -sp1 45000 -sp2 55000 -t 60s -online -noplot -dump -
command "scp %s kaputar:atca.spec"
```

Create realtime spectra in “.rdr” format and copy to the ATNF ftp area (using `vsib_send`):

```
fauto_ipp -n 4194304 -sp1 2516582 -sp2 2621440 -t 1s -online -dump -radar -
noplot -lo 7159 -command "vsib_send -p 33333 -H draco %s"
```

This requires a vsib_recv process running on “draco”, on port 33333:

```
vsib_recv -p 33333
```