

# Station 9 online

Gordon, Aug 15, 12:30 pm MDT

Gary noticed that isfs9 is online.

First time in archive is Aug 15, 17:21 UTC, 13:21 EDT

These sensors are reporting:

```
sensor dsm sampid nsamps |----- start -----| |----- end -----| rate minMaxDT(sec) minMaxLen
s9:/dev/ttyS1 9 6 4 2016 08 15 18:24:41.659 08 15 18:24:47.659 0.50 2.000 2.000 42 42
s9:/dev/ttyS2 9 20 8 2016 08 15 18:24:42.577 08 15 18:24:49.616 0.99 1.005 1.006 38 38
s9:/dev/ttyS5 9 50 160 2016 08 15 18:24:41.760 08 15 18:24:49.710 20.00 0.039 0.061 12 12
s9:/dev/ttyS4 9 100 80 2016 08 15 18:24:41.828 08 15 18:24:49.726 10.00 0.073 0.129 32 32
```

The GPS is not reporting. The required gps processes, tee\_tty, and gpsd are running:

```
ps -ef | fgrep gps
root 1296 1 0 17:21 ttyS3 00:00:00 /opt/nidas/bin/tee_tty /dev/ttyS3 4800n81lnrxx -p 60 -l 18 /dev/gps_pty0 /dev
/gpsd_pty
gpsd 1339 1 0 17:21 ? 00:00:00 /usr/sbin/gpsd -b -n -P /run/gpsd/gpsd.pid /dev/gpsd_pty
```

On port 3, cktty shows:

```
sudo cktty 3
3: uart:XR16850 mmio:0x10000000 irq:122 tx:74 rx:74 RTS|DTR
```

74 characters transmitted (by the gps configure program) but only 74 (echo?) received.

This looks to me like its connector has fallen loose from the interface panel.

So that this system has good time, Gary suggested we configure a chrony server for it, so I un-commented:

```
server 0.debian.pool.ntp.org offline minpoll 8
```

in /etc/chrony/chrony.conf, via sudoedit, and then

```
sudo service chrony restart
```

Chrony now shows that it is synced to the network server:

```
cs
210 Number of sources = 3
MS Name/IP address Stratum Poll Reach LastRx Last sample
=====
#? NMEA 0 4 0 10y +0ns[ +0ns] +/- 0ns
#? PPS1 0 4 0 10y +0ns[ +0ns] +/- 0ns
^* helium.constant.com 2 8 377 85 -16ms[ -19ms] +/- 129ms
```

I cleared off the archive files taken during the pre-project testing from the local USB disk.

Later, at 16:10 MDT, noticed that the GPS is now coming in.