

Updated NIDAS software, NTP server

Installed the latest version of nidas (revision 5771M) today, with the new process running at 19:49 UTC.

The new nidas has some improvements in the serial handling efficiency. Don't see any effect on the number of "spurious interrupts" though.

Also restarted ntp daemon. Added a "server ral" entry in /etc/ntp.conf so that we can compare our local GPS time source with the ral server.

ntpq -p shows good agreement (-8.285 millisecond offset) with the ral server:

```
ntpq -p
      remote          refid      st t when poll reach  delay  offset  jitter
=====
xral          208.75.88.4        3 u   7   64  377   0.368  -8.285  1.249
oGPS_NMEA(0)   .GPS.             2 l  15   16  377   0.000  -0.028  0.031
```

Querying the ral ntp server, with **ntpq -p ral** shows that it has offsets with its servers, probably related to the big delays over its wifi connection:

```
ntpq -p ral
      remote          refid      st t when poll reach  delay  offset  jitter
=====
+64.6.144.6    128.252.19.1        2 u 300 1024  177  43.800 -32.309 12.143
*208.75.88.4   192.12.19.20        2 u 997 1024  377  56.151  16.212  0.321
+64.73.32.134  192.5.41.41         2 u 502 1024  377  42.897   7.307 110.558
```

Later, Oct 16, 15:24 MDT, saw smaller offsets all around:

```
root@manitou root# ntpq -p
      remote          refid      st t when poll reach  delay  offset  jitter
=====
xral          208.75.88.4        3 u   39   64  377   0.354   1.108  0.390
oGPS_NMEA(0)   .GPS.             2 l   -   16  377   0.000   0.003  0.031
root@manitou root# ntpq -p ral
      remote          refid      st t when poll reach  delay  offset  jitter
=====
+64.6.144.6    128.252.19.1        2 u 135 1024  373  41.912   0.464  74.268
*208.75.88.4   192.12.19.20        2 u 840 1024  357  56.112   2.963  1.735
+64.73.32.134  192.36.143.150      2 u 317 1024  377  39.507   1.365  64.459
```