

Trimble NetRS Receiver resets Run Time at 497.1 Days

771 Freddy Blume November 23, 2015 [Trimble NetRS](#) 617


The "Receiver Status -> Activity" page on the NetRS shows the "Run Time" - the length of time since the receiver has last rebooted. However if the receiver has been operating continuously for more than 497.1 days, the counter will reset to zero without a reboot occurring. For example, a receiver that was last rebooted 597.1 days ago would show a Run Time of 100 days.

This is the result of the way uptime is stored in a standard linux kernel: as an unsigned long (32 bit) counter and counts a 100 Hz clock. Therefore, the 100 Hz clock rolls over after...

$0.01 * 2^{32}$ seconds

497 days 2 hours 27 minutes 52.96 seconds

This is known in the IT world as the "[497.1 Day Bug](#)", and while it has been observed to cause problems in some computing applications, no ill effects have been observed in our NetRS networks.

**NetRS**
P041 SN4549261297

Receiver Status

- Identity
- Activity
- Position

Satellites**Data Logging****Receiver Configuration****Internet****I/O Configuration****Security****Firmware****Programmatic Interface**
In Browser**Standalone Window**

Receiver Status - Activity

Satellites Tracked:
1 3 6 11 14 18 19 21 22 24 31 32

Data Logging:
Session 24HR_15S_a logging to /201302/a/P041201302010000a.T00
Session 1HR_5H_c logging to /201302/c/P041201302012000c.T00
Session 1HR_1S_b logging to /201302/b/P041201302012000b.T00
Session 1HR_15S_m logging to /201302/m/P041201302012000m.T00

Input/Output:
Met/Tilt interface active on Serial Port 2
Streaming Binex to 69.44.86.36 over TCP Port 42042

Power Supply Info:
Primary Voltage: 0.191 Volts
Secondary Voltage: 13.457 Volts
Temperature: 21° C

Run Time:
System has been running for 50 days 21 hours 36 minutes

UTC Date & Time: 1 Feb 2013 - Fri of GPS Week 1725 - 20:29:20

Online URL: <https://kb.unavco.org/article/trimble-netrs-receiver-resets-run-time-at-497-1-days-771.html>