



VOYAGER with Linux is starting

Custom script from VOYAGER is:
 1. Starting GSPMON
 2. Starting CHRONY
 3. Setting current time to the DIGISYNC

DIGISYNC's microprocessor is writing received time to local RTC (DS3231). After that is starting with sending composed NMEA string (RTC controlled) together with PPS to FT232-USB.

We want to configure Chrony to update Linux system time even on 1-D fix from the satellites (we do not need location). At this moment our application will detect this time change and make appropriate action. After this all we need is for PPS to be selected (very fast) as valid source (*) for the remaining time. In the mean time GPS will have 3-D lock but chrony have already updated system time. If there is GPS signal lost we will continue to discipline system clock via the PPS with the last saved valid time from the RTC. If we get another GPS lock in the mean time chrony should again update system time (if needed) and then again continue with PPS as valid and accepted source

If DIGISYNC lose GPS lock, it will continue with NMEA+PPS from local RTC (until next GPS lock.