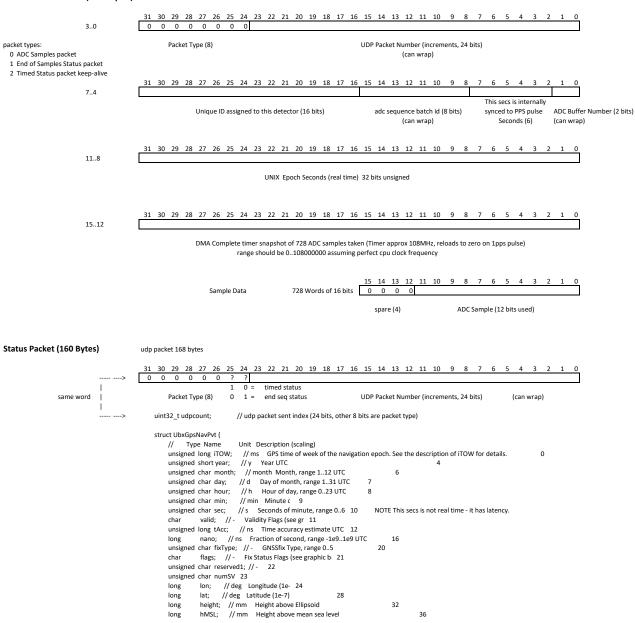
ADC SAMPLE PACKET (1472 Bytes)



```
unsigned long vAcc; // mm Vertical Accuracy Estimate
                                                                                                                44
                                                    velN; // mm/s NED north velocity
                                                                                                   48
                                                    velE;
                                                           // mm/s NED east velocity
                                                                                                       52
                                                    velD; // mm/s NED down velocity
                                                                                                       56
                                           long
                                                    gSpeed; // mm/s Ground Speed (2-D)
                                                                                                    60
                                           long
                                                    heading; // deg Heading of motion 2-D (1 64
                                           unsigned long sAcc; // mm/s Speed Accuracy Estimate 68
                                           unsigned long headingAcc; // deg Heading Accur 72
                                           unsigned short pDOP; //- Position DOP (0.01)
                                           short reserved2; // - Reserved
                                                                                                                78
                                           unsigned long reserved3; // - Reserved
                                                                                                                80
                                           } NavPvt;
                                        31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
                   clktrim
                                       average of STM32 clock frequency referenced to 1pps
                                                                                                       15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
                                                               // 16 bits used
                                       uint16_t uid;
                                                                                                           Unique ID assigned to this detector (16)
                                                                                                       15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
                                       uint16 t adcpktssent:
                                                              // 16 bits used
                                                                                                   ADC number of buffers sent in last capture sequence before status packet (16)
                                                                                                           // Number of ADC pks sent in this trigger event
                                                            adctrigoff : uint16_t;
                                                                                                                           adc trigger offset (above the noise)
                                                            adcbase : uint16_t;
                                                                                                                           adc average base level (ie dc level)
                                                               uint32 t sysuptime;
                                                                                       // number of seconds system up from boot uptime
                                                               uint32_t netuptime;
                                                                                       // number of seconds network up
                                                               uint32 t gpsuptime;
                                                                                       // number of seconds gps locked
                                                                                       // STM firmware major ver
                                                               uint8_t majorversion;
                                                               uint8 t minorversion:
                                                                                       // STM firmware minor ver
                                                               uint16_t adcnoise;
                                                                                       // adc average peak noise
                                    31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
uint32 tauxstatus1; AUXSTATUS1
                                                   16 bits reserved
                                                                                                       detection jabbering (8 bits)
                                                                                                                                       adc sequence last batch id (8 bits)
                                                                                                           0 = no jabber
                                                                                                                                           (can wrap)
                                                               uint32_t adcudpover;
                                                                                          // adc -> udp send overruns
                                                               uint32_t trigcount;
                                                                                          // adc trigger count
                                                               uint32_t udpsent;
                                                                                          // udp sample packets sent
                                                               uint16_t peaklevel;
                                                                                          // peak trig level
                                                               uint16 t jabcnt;
                                                                                          // jabber counter
                                                               uint32_t noisevar;
                                                                                          // noise variance
                                                               uint32_t epochsecs;
                                                                                          // unix epoch seconds
                                                               uint32_t reserved1;
                                                                                       // spare
                                                               uint32_t reserved2;
                                                                                      // spare
                                       Any new fields to be added here ......
       end sentinal marker (keep at the end)
                                                               uint32 t telltale1;
                                                                                       // end of status packet marker
                                                                                                                              0xFEEDCODE
```

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unsigned long hAcc; // mm Horizontal Accuracy Estimate