



Flight Software Requirements: Possible Solutions

F1: When a packet of data is sent through the XBee on-board module, a variable c_packet is uploaded. c_packet += 1 and its value saved in the SD card; in setup() provide to write an instruction that import that value; when the mission starts, set this value to zero in the SD card.

F2: GPS with internal clock, with a different battery (ex: watch battery)

F5 - F6: When 'SIMULATION ENABLE' and 'SIMULATION ACTIVATE'

main program calls a function 'Simulation()' like this:

while (Command != 'SIMULATION STOP')

read the input data from the CSV file
act as if the data received are sent by
the sensors

At this point, during simulation, stop reading sensors
output to save MCU rapid memory