

5-Ju	n-19	1/4

# 1. Slow Control Test: Voltage and Current check

The *test.cgi* calls the executable called *get\_i\_v* which has as output a JSON file in which all the current and voltage values are reported (the data that come out with the command are reported slowc -a). In this example the executable does not take any arguments as input.

The JSON response consists of:

Item of JSON file	MEANING
V_EXT1_24 V	Value of the voltage of EXT1
I_V_INPUTS	Value of the current of EXT1
SP_VOLT	Value of the SP voltage
SP_CURR	Value of the SP current
V_1V0	Value of the 1V voltage
I_1V0	Value of the 1V current
V_1V2	Value of the 1V2 voltage
I_1V2	Value of the 1V2 current
V_1V8	Value of the 1V8 voltage
I_1V8	Value of the 1V8 current

V_3V3	Value of the 3V3 voltage
I_3V3_SC	Value of the 3V3 current
V_GPS_5V	Value of the GPS voltage
I_GPS_5V	Value of the GPS current
V_RADIO_1 2V	Value of the Radio 12V voltage
I_RADIO_12 V	Value of the Radio 12V current
V_PMTS_12 V	Value of the PMTs 12V voltage
I_PMTS_12 V	Value of the PMTs 12V current
LOADCURR	Value of the Load current
PMT1_HVM	Value of the PMT1 voltage
PMT1_CM	Value of the PMT1 current
PMT2_HVM	Value of the PMT2 voltage
PMT2_CM	Value of the PMT2 current
PMT3_HVM	Value of the PMT3 voltage
PMT3_CM	Value of the PMT3 current
PMT4_HVM	Value of the PMT4 voltage
PMT4_CM	Value of the PMT4 current

PMT5_HVM	Value of the PMT5 voltage
РМТ5_СМ	Value of the PMT5 current
РМТ6_НVМ	Value of the PMT6 voltage
PMT6_CM	Value of the PMT6 current

In the case where it is necessary to divide the values related to the PMT by the fixed values of the low-voltage, two different executables can be created.

### 2. Slow Control Test: fpga version

The *test.cgi* calls the executable *get\_fpga\_version* which reads the FPGA version from the register ID\_REG\_ADDR and outputs a JSON file with the following item:

Item of JSON file	MEANING
VERSION	Date of last compilation as reported in the FPGA records.

#### FPGA interface Test: test of GPS

The *test.cgi* calls the executable GPS\_serial that checks the GPS serial port. It has as output a JSON file which has only one item that changes depending on the result of the check:

Item of JSON file	MEANING
message	Ok Ok

message	failed message

## 4. Usb interface Test: umount\_usb

The *test.cgi* calls the executable *umount\_usb*: which has no input parameters and replies with a JSON file that can have three kinds of message:

Item of JSON file	MEANING
message	/usb alredy unmounted (if the usb is already unmounted)
message	/usb unmounted (if the usb is correctly unmounted)

# 5. Usb interface Test: mount\_usb

The *test.cgi* calls the executable *mount\_usb*: which has no input parameters and replies with a JSON file that can have three kinds of message:

Item of JSON file	MEANING
message	/usb already mounted (if the usb is already mounted)
message	OK (if the usb is correctly mounted)
message	ERROR (if an error occurred in mounting usb)

#### 6. Front-end Test: signal test.

The *test.cgi* calls the executable record that which has as input the values of the thresholds on the PMTs and responds with a JSON file that shows the following values for each ADC:

Item of JSON	MEANING
file	

baseline	Baseline average value for each adc.
RMS	Baseline rms value for each adc.
Pulsepos	Value of pulse position for each adc.
valuepeak	Value of peak for each adc.