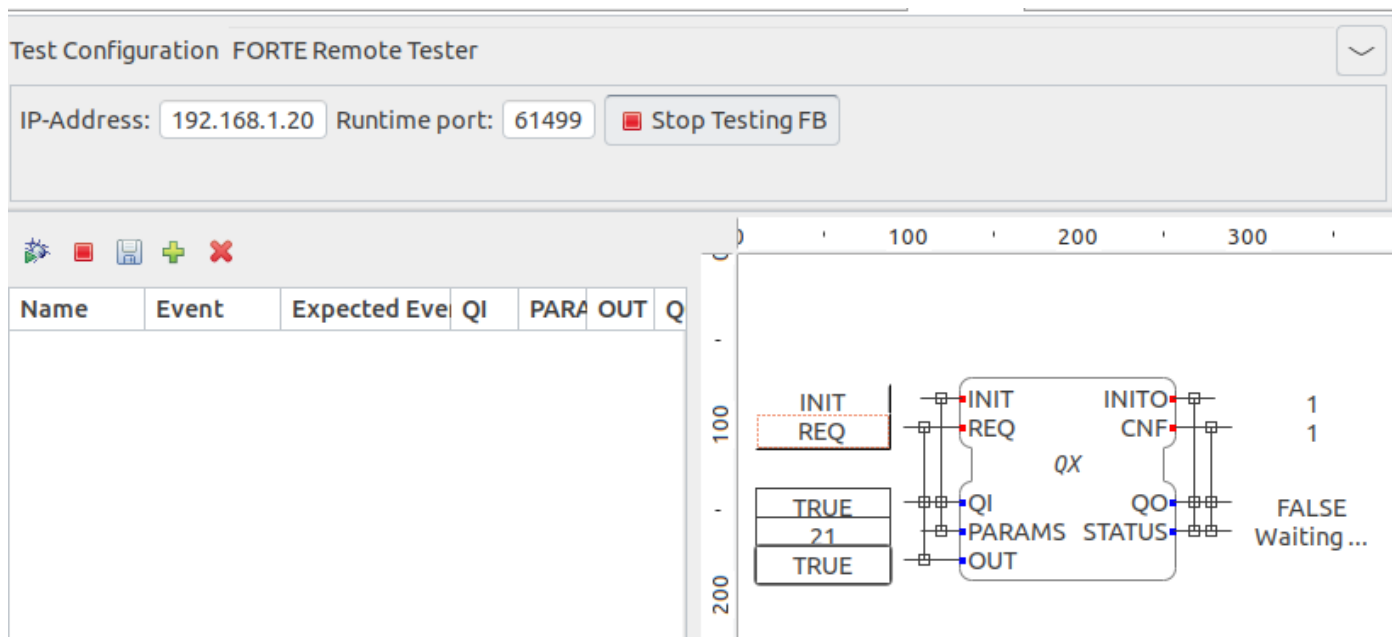


Raspberry Pi 4 running Raspberry Pi OS.

Testing the QX function block remotely on the Pi:



Screen shot of the QX block running on the Pi. A **printf()** was added to the QX.cpp that is displaying the whole contents of the STATUS() string after the INIT and after REQ events have been triggered:

```
DEBUG: T#notime: [IOMapper] Deregister observer _QX
pi@raspberrypi:~/Development/4diac/HVAC_Pi $ sudo ./forte
INFO: T#0: FORTE is up and running
INFO: T#0: Using default bootfile location: forte.fboot
INFO: T#0: Boot file forte.fboot could not be opened. Skipping...
INFO: T#6006: Connection closed by peer
DEBUG: T#31479: [IOMapper] Register observer _QX
Waiting for handle..
Waiting for handle..
```

Note that the gpio readall command on the Pi is showing that GPIO pin 40 has not been initialised (BCM 21)

0	30	SDA.0	IN	1	27	28	1	IN	SCL.0	31	1
5	21	GPIO.21	IN	1	29	30	1	IN	0v		
6	22	GPIO.22	IN	1	31	32	0	IN	GPIO.26	26	12
13	23	GPIO.23	IN	0	33	34	0	IN	0v		
19	24	GPIO.24	ALT0	0	35	36	0	IN	GPIO.27	27	16
26	25	GPIO.25	IN	0	37	38	0	ALT0	SPI0.28	28	20
		0v			39	40	0	ALT0	GPIO.29	29	21

BCM	wPi	Name	Mode	V	Physical	V	Mode	Name	wPi	BCM
-----Pi 4B-----										

```
pi@raspberrypi:~/Development/4diac/HVAC_Pi $
```

However, the GPIO is operating correctly. From the terminal on the Pi, a LED connected to pin 40 can be turned on and off successfully with the following commands:

`gpio -g mode 21 out` - sets the GPIO pin to be an output.

`gpio -g write 21 1` - sets the GPIO pin high

`gpio -g write 21 0` - sets the GPIO pin low