

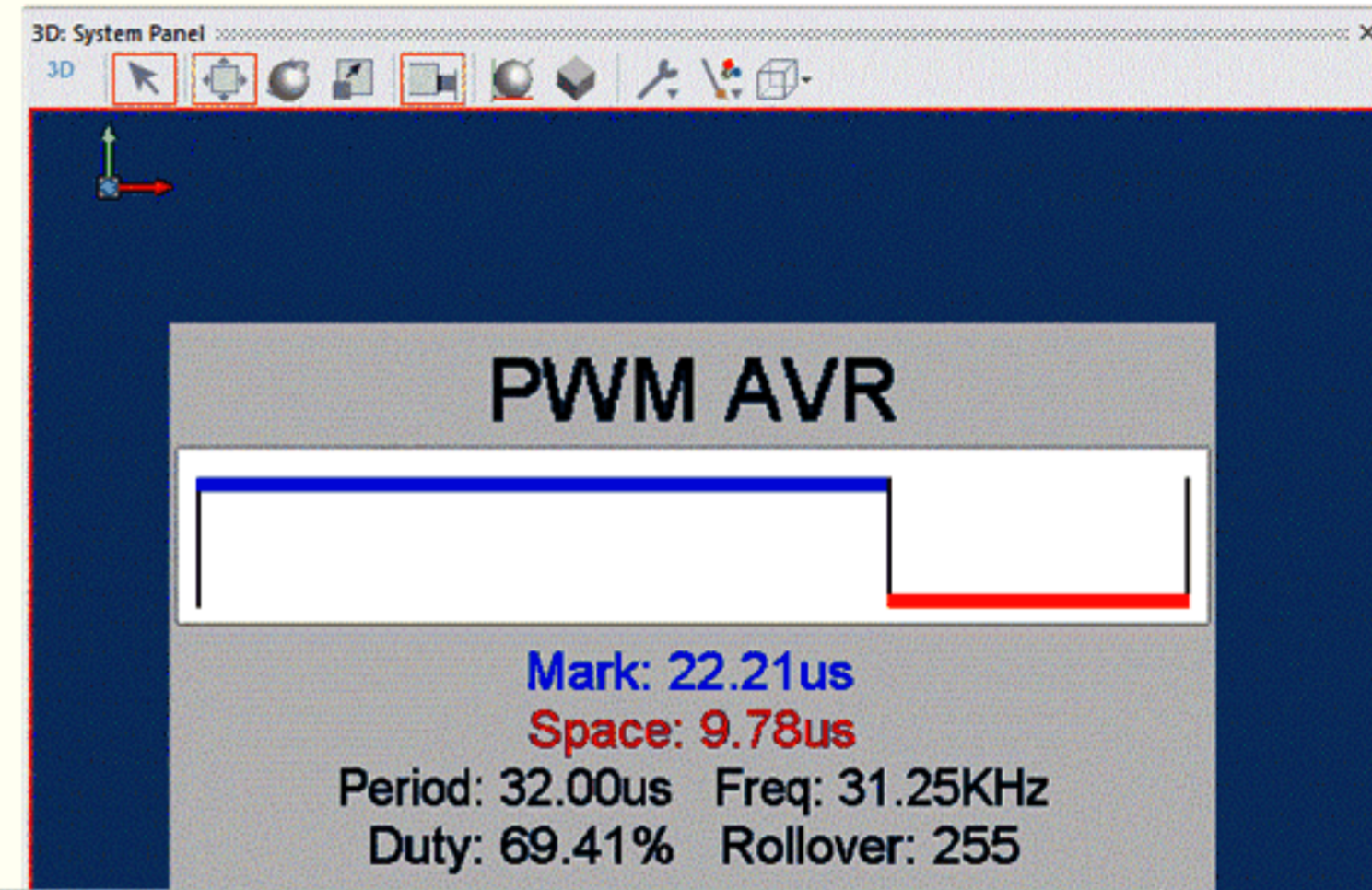
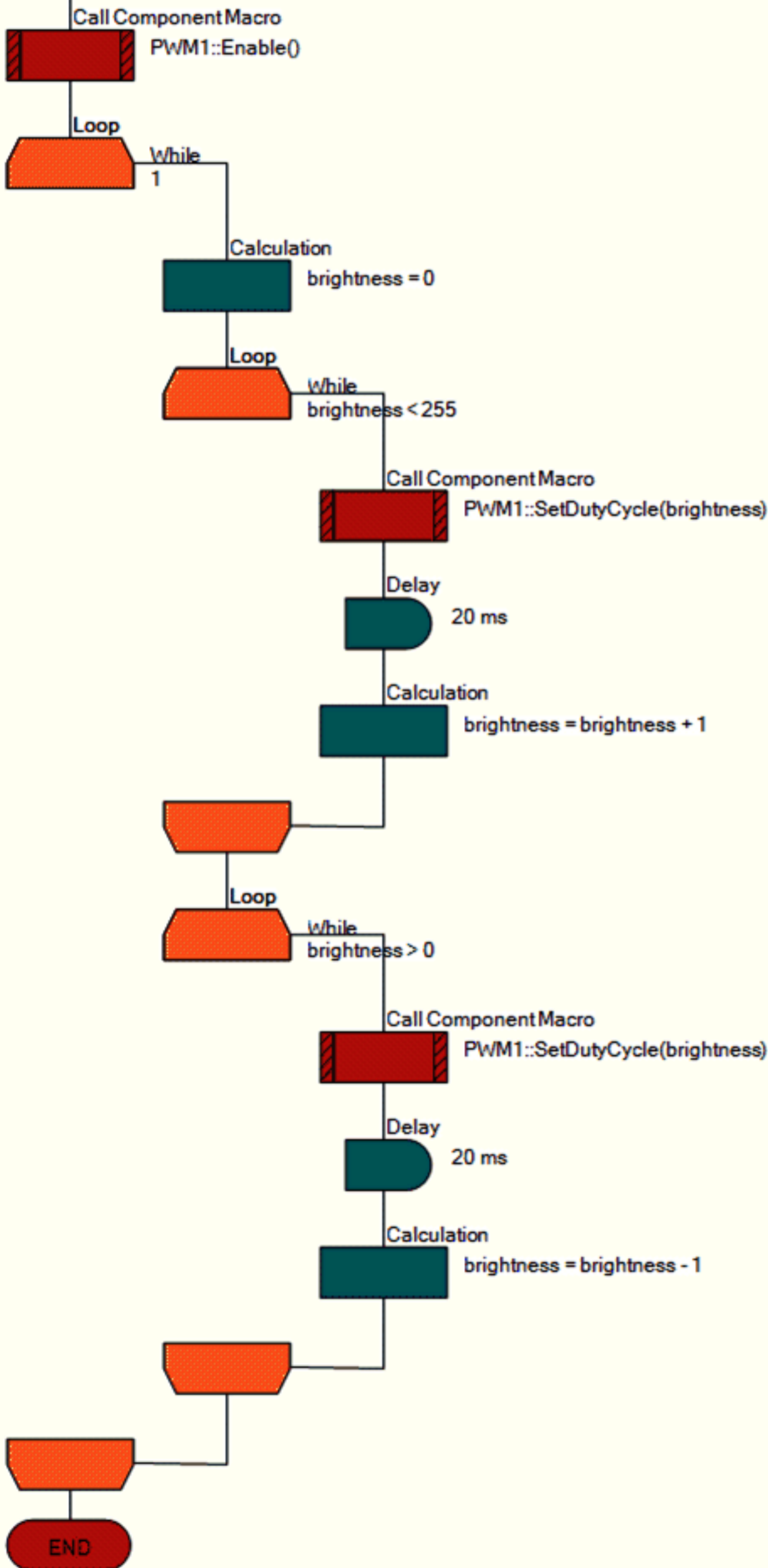
BEGIN

www.E2CRE8.be - Brainbox Arduino - by Bart Huyskens
13/01/2016

This program generates a PWM signal on one of the pins that have PWM functionality
The program generates a PWM signal with this sequence:
1- Rising PWM duty cycle from 0-100% (0-255) over a period of +/-5sec
2- Falling PWM duty cycle from 100% to 0% (255-0) over a period of +/- 5sec

In this case we use PWM pin Channel 6 (On pin PC6 - D5). You could connect a DC motor (600mA max) between D5 and GND
You could also test this with a led (with resistor) between D5 and GND
Be aware that the 600mA power outputs need a jumper to select the output voltage

The pins on the BBA that have PWM functionality are:
Channel 1&5 PB7(D11) 20mA max
Channel 2 PD0(D3) 20mA max
Channel 3 PB5(D9) 600mA max
Channel 4&8 PB6(D10) 600mA max
Channel 6 PC6(D9) 600mA max
Channel 7 PC6(D13) 20mA max (Blue led)
Channel 9 PD7(D6) 600mA max (Error in FC6.1.2)



Properties

PWM1

Properties Position

Component

- Handle PWM1
- Type PWM

Connections

- Channel Channel 5
- Altern... Yes
- PWM ... \$PORTB.7

PWM Frequency

- PWM ... timer1
- Period... 255
- Presc... 1
- Period... 32.000000
- Frequ... 31.250000

Simulation

- Repre... Digital