

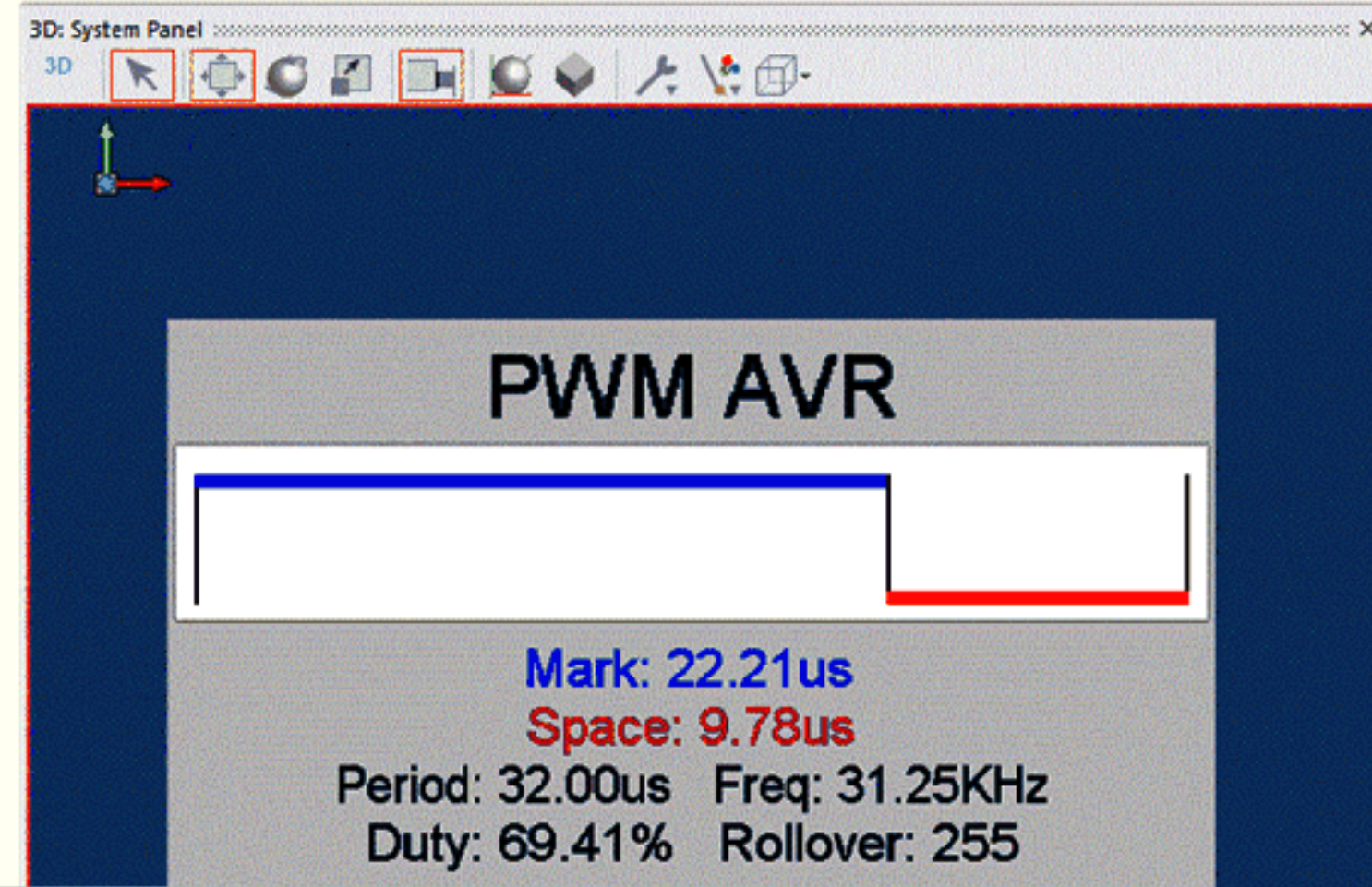
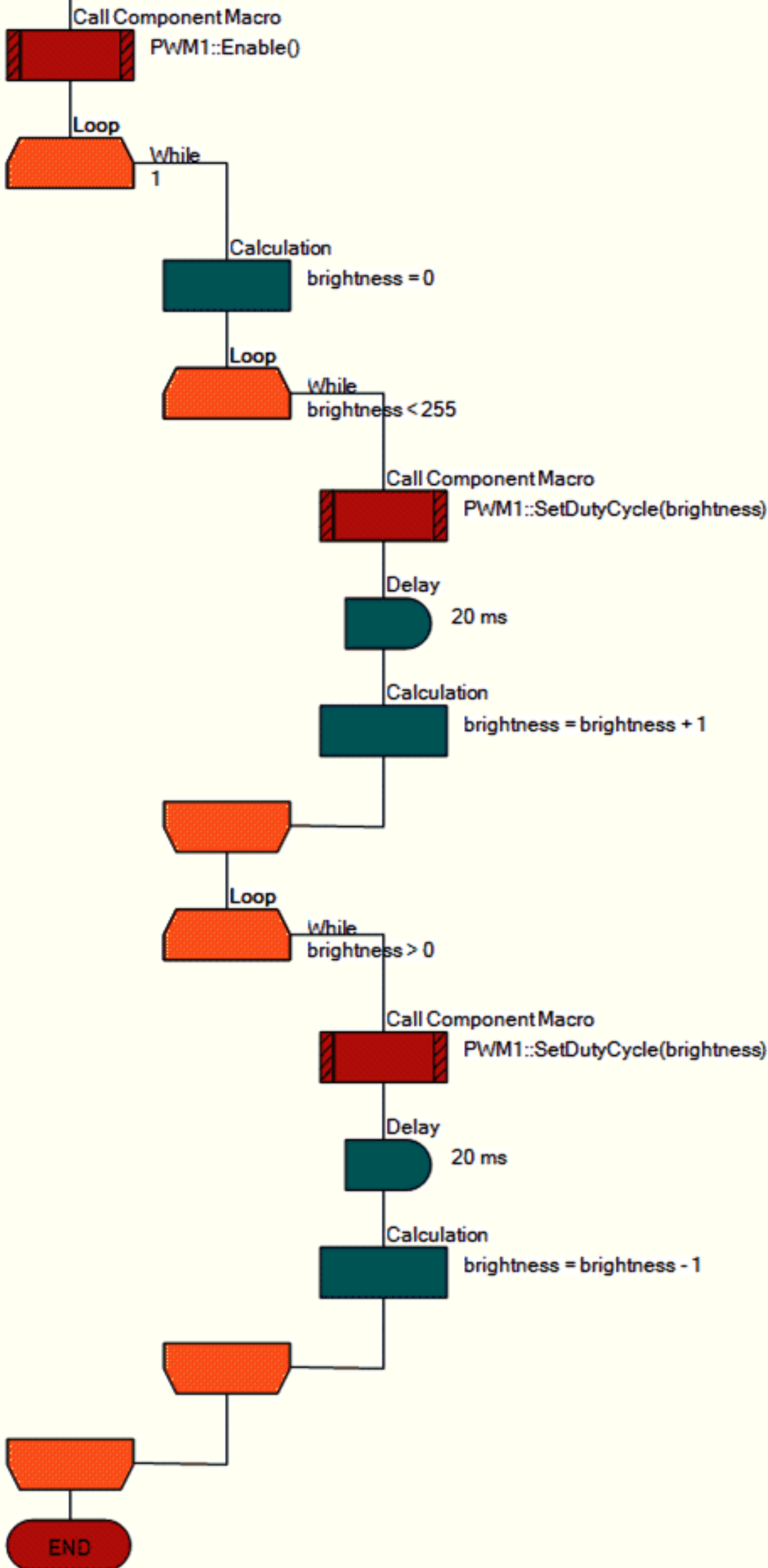
BEGIN

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

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 |
|----------|---------|