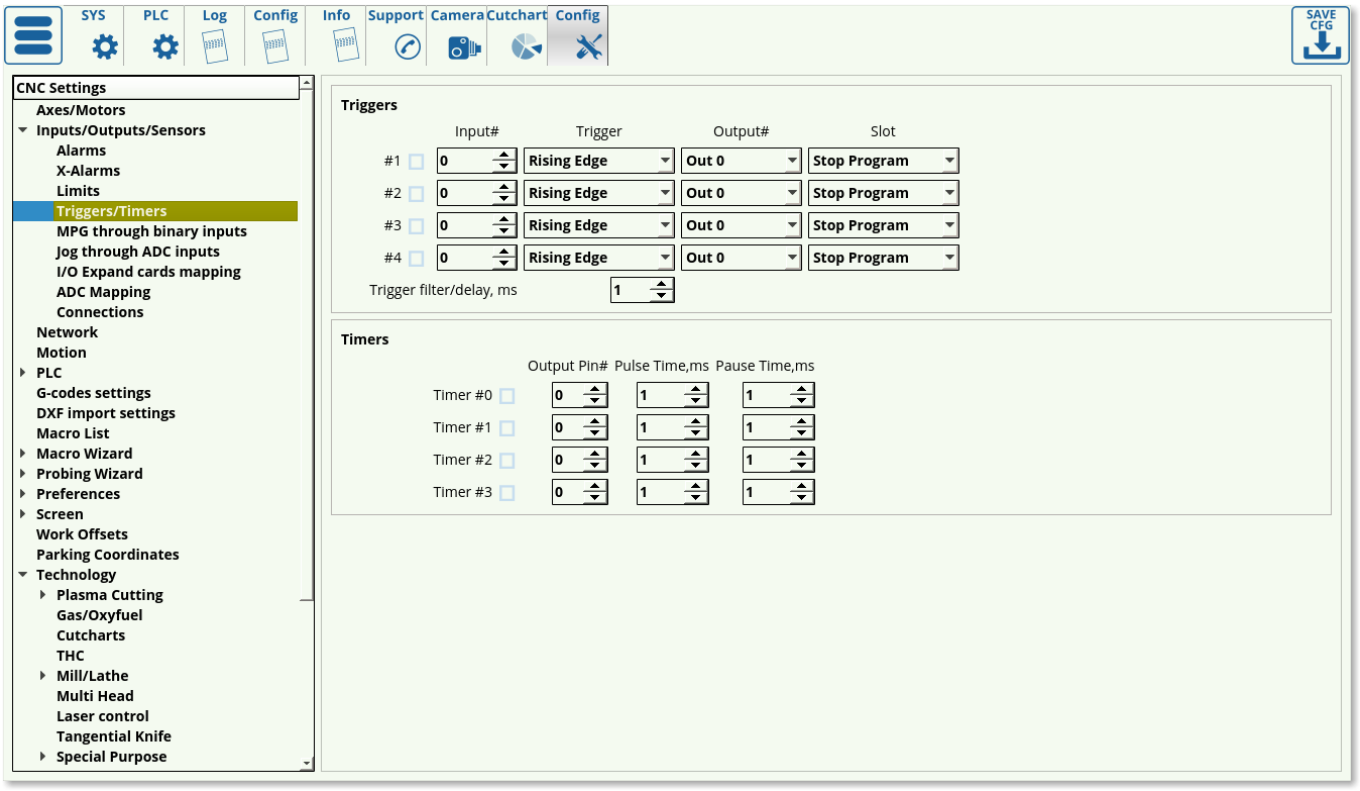
myCNC Timers

myCNC controllers support up to 4 timers.

- Each timer can be assigned to any output pin.
- Pulse time (in milliseconds) and Pause time (in milliseconds) can be setup for each timer
- Timers can be enabled/disabled from myCNC software setup dialog or through number of Global Variable registers.

myCNC software configuration dialog to setup Timers is shown below



Global Variable Registers to control myCNC Timers

Variable Name	Address	Description
Timer0		
GVAR_TIMER0_ENABLED	8100	Writing “0” to this register will disable Timer0, writing “1” will enable Timer0
GVAR_TIMER0_PORT	8101	Writing to this register will change Output pin connected to Timer0. Writing value is the Output Pin#
GVAR_TIMER0_PULSE	8102	A value written to this register is Timer 0 Pulse width in milliseconds
GVAR_TIMER0_PAUSE	8103	A value written to this register is Timer 0 Pause in milliseconds
Timer1		
GVAR_TIMER1_ENABLED	8104	Writing “0” to this register will disable Timer1, writing “1” will enable Timer1
GVAR_TIMER1_PORT	8105	Writing to this register will change Output pin connected to Timer1. Writing value is the Output Pin#
GVAR_TIMER1_PULSE	8106	A value written to this register is Timer 1 Pulse width in milliseconds
GVAR_TIMER1_PAUSE	8107	A value written to this register is Timer 1 Pause in milliseconds
Timer2		
GVAR_TIMER2_ENABLED	8108	Writing “0” to this register will disable Timer2, writing “1” will enable Timer2
GVAR_TIMER2_PORT	8109	Writing to this register will change Output pin connected to Timer2. Writing value is the Output Pin#
GVAR_TIMER2_PULSE	8110	A value written to this register is Timer 2 Pulse width in milliseconds
GVAR_TIMER2_PAUSE	8111	A value written to this register is Timer 2 Pause in milliseconds
Timer3		
GVAR_TIMER3_ENABLED	8112	Writing “0” to this register will disable Timer3, writing “1” will enable Timer3
GVAR_TIMER3_PORT	8113	Writing to this register will change Output pin connected to Timer3. Writing value is the Output Pin#
GVAR_TIMER3_PULSE	8114	A value written to this register is Timer 3 Pulse width in milliseconds
GVAR_TIMER3_PAUSE	8115	A value written to this register is Timer 3 Pause in milliseconds

How to use Timers in Hardware PLC

Here is an example of Timer0 setup in PLC procedure

M169 is Timer0 initialization and start

M169.plc

```
main()
{
  gvarset(8101,1);  // Setup Out#1 as Timer0 output
  gvarset(8102,5);  // Pulse width is 5ms
  gvarset(8103,45); // Pause time is 45ms (Period is 5+45=50ms)
```

```
  gvarset(8100,1);  //Start Timer0
  exit(99);
};
```

M168 is Timer0 stop

M168.plc

```
main()
{
  gvarset(8100,0);  //Stop Timer0
  exit(99);
};
```

The result is shown on a picture below