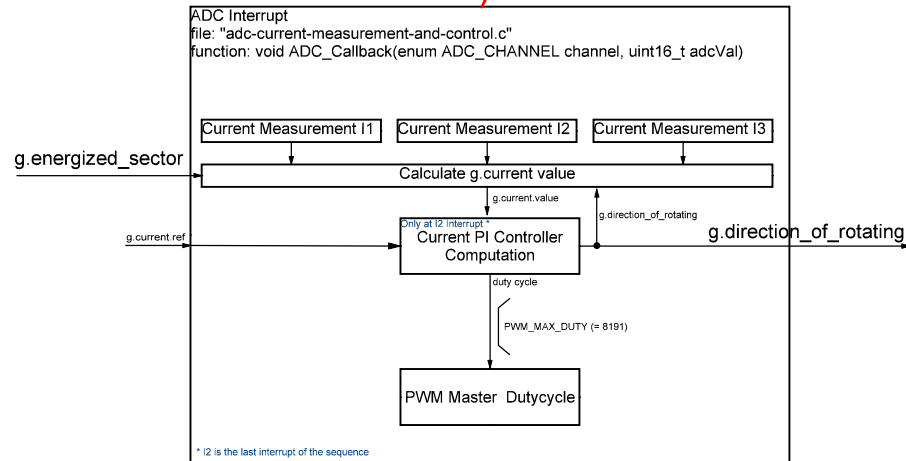
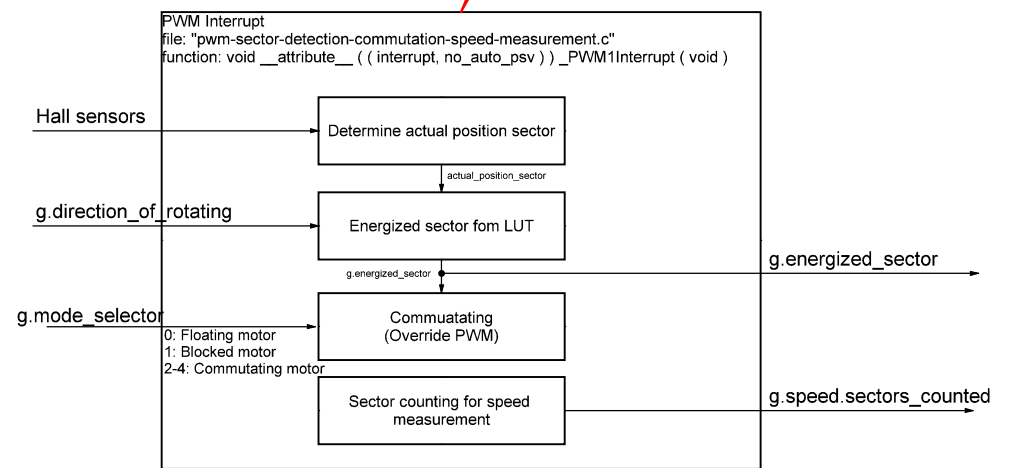


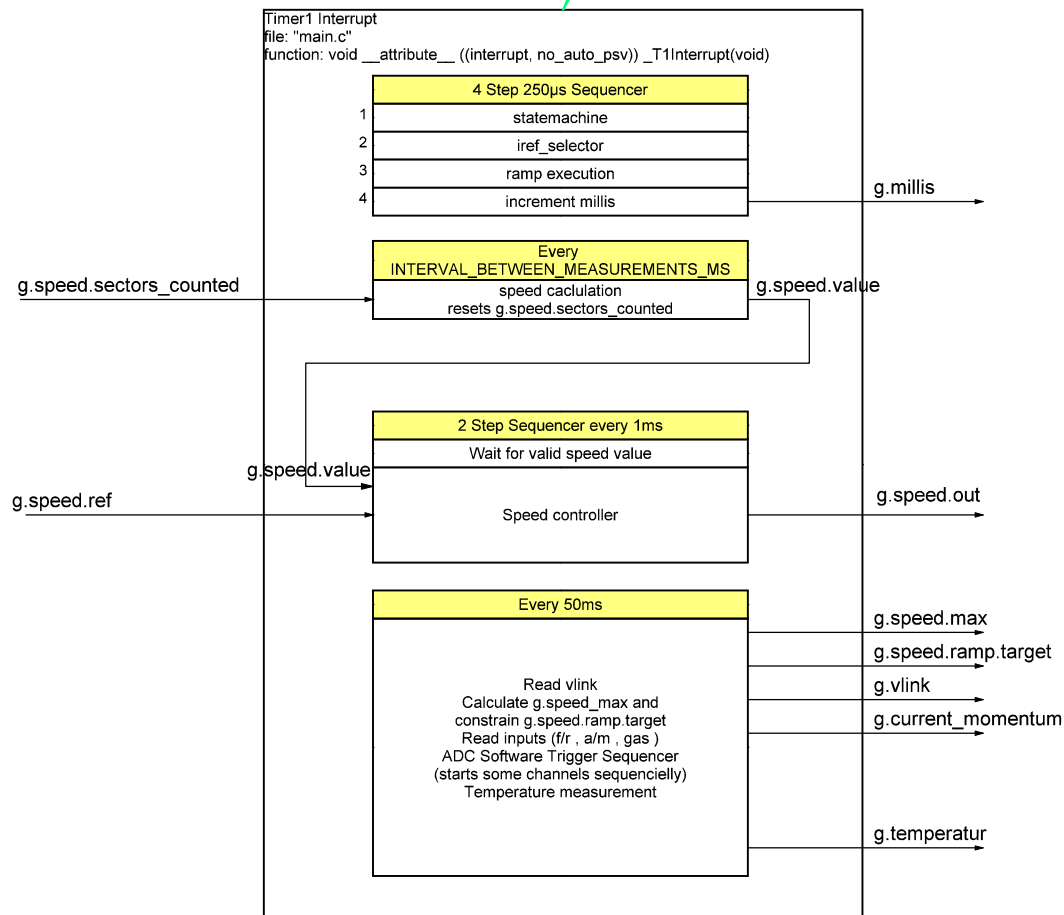
Fired@any ADC Conversion completed



Fired@End of PWM Cycle (EOC)



Fired@Timer1 period compare match - every 250µs



## Pin Grid

[illegible]

## ADC Basic

▼ Basic Settings

Custom Name

ADC1

Resolution

12

Conversion Time (us)

Refer PLIB for the Calculations.  
0.37

Data Output Format

☒ Integer ☐ Fractional

Common Interrupt

☐

Pin Help

Pin Selection should only be done using the table. Channel Enable checkbox selects the corresponding analog channel and auto locks the analog pin in the Pins Grid View.

▼ Shared Core Settings

Requested Sampling Time (us)

0.04 ≤ 1 ≤ 20.5

Calculated Sampling Time (us)

1

## ADC Shared Core Settings

Calculated Sampling Time (us)					
1					
Shared Core Configuration					
Channel	Pins	Enable	Custom Name	Trigger Source	Interrupts
AN0	RA0	<input checked="" type="checkbox"/>	_J1	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN1	RB2	<input checked="" type="checkbox"/>	_TEMPERATURE	Common Software Trigger	<input type="checkbox"/>
AN2	RB7	<input type="checkbox"/>		None	<input type="checkbox"/>
AN3	RA3	<input checked="" type="checkbox"/>	_J3	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN4	RA4	<input checked="" type="checkbox"/>	_J2	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN5	RB0	<input type="checkbox"/>		None	<input type="checkbox"/>
AN6	RB1	<input checked="" type="checkbox"/>	_MOMENTUM	Common Software Trigger	<input type="checkbox"/>
AN7	RB2	<input type="checkbox"/>		None	<input type="checkbox"/>
AN8	RB3	<input type="checkbox"/>		None	<input type="checkbox"/>
AN9	RA2	<input checked="" type="checkbox"/>	_TEMPERATURE3	Common Software Trigger	<input type="checkbox"/>
AN10	RB8	<input type="checkbox"/>		None	<input type="checkbox"/>
AN11	RB9	<input checked="" type="checkbox"/>	_J2_PowerLab	PWM Generator1 ADC Trigger1	<input checked="" type="checkbox"/>
AN12	RC0	<input checked="" type="checkbox"/>	_VLINK	Common Software Trigger	<input type="checkbox"/>
AN13	RC1	<input checked="" type="checkbox"/>	_UM3	Common Software Trigger	<input type="checkbox"/>
AN14	RC2	<input checked="" type="checkbox"/>	_UM2	Common Software Trigger	<input type="checkbox"/>
AN15	RC3	<input checked="" type="checkbox"/>	_UM1	Common Software Trigger	<input type="checkbox"/>
AN16	Internal-Tem	<input type="checkbox"/>	Channel_AN16	None	<input type="checkbox"/>
AN17	Internal-Ban	<input type="checkbox"/>	Channel_AN17	None	<input type="checkbox"/>

```

18
19 // #define DEBUG // only one option (DEBUG or FLETUINO) is allowed
20 // #define DEBUG_SERIAL_COMMAND_HANDLING
21 #define FLETUINO // DEBUG or FLETUINO or nothing
22 // #define FLETUINO_APPLICATION_DEMO
23 // #define FLETUINO_PI_CONTROLLER_SETTINGS
24 #define FLETUINO_MANUAL_CONTROL
25

```

Refresh
COM18

## Drive Manual control

Duty Cycle 738

FLOATING CLAMPED

Vector selection

1	3	2	2	3	6	4	4	5	5	6	1
---	---	---	---	---	---	---	---	---	---	---	---

Actual position sector

1

```
19 // #define DEBUG // only one option (DEBUG or FLETUINO) is allowed
20 // #define DEBUG_SERIAL_COMMAND_HANDLING
21 #define FLETUINO // DEBUG or FLETUINO or nothing
22 // #define FLETUINO_APPLICATION_DEMO
23 #define FLETUINO_PI_CONTROLLER_SETTINGS
24 // #define FLETUINO_MANUAL_CONTROL
```

## BLDC Motor Drive Dashboard

OFF

17.2 V

360 rpm

0.345 A

Iref - Momentum

Reset momentum

KP Current 0.68430000

KI Current 0.02090000

☐ Speed Controller (cruiser) ON/OFF

Speed RPM

Reset speed

KP Speed 0.43800000

KI Speed

```
19 // #define DEBUG // only one option (DEBUG or FLETUINO) is allowed
20 // #define DEBUG_SERIAL_COMMAND_HANDLING
21 #define FLETUINO // DEBUG or FLETUINO or nothing
22 #define FLETUINO_APPLICATION_DEMO
23 // #define FLETUINO_PI_CONTROLLER_SETTINGS
24 // #define FLETUINO_MANUAL_CONTROL
25
```

## Drive Demonstration

Emergency OFF

68

3511

0

17.2 V

0 rpm

-0.101 A

Momentum-GAS



SpeedControl OFF/ON



Forward/Reverse (F/R)

Speed RPM

