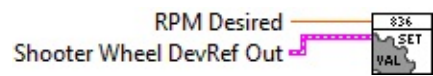


Wheel.lvlib:Wheel_Set_Value.vi

Help by FRC Team 836 - The RoboBees

This VI sets the Revolutions Per Minute (RPM) of a wheel.



RPM Desired
0

Shooter Wheel DevRef Out

Shooter Config reference

Shooter Data

MotorControlDevRef

DeviceStatus		PWM	
status	code	PWM Channel	
<input checked="" type="checkbox"/>	0	PWM 0	
source		DeadBand	
		Name	
Type	Invert	maxPositivePwm	
PWM	<input type="checkbox"/> OFF/ON	0	
CAN		minPositivePwm	
Device Number		0	
0		centerPwm	
Control Mode		0	
Percent VBus		maxNegativePwm	
		0	
Semaphore		minNegativePwm	
Max Vout	<input type="checkbox"/>	0	
0		angularRange	
TalonSRX Control Mode		0	
Percent VBus			

Set Point

Actual

 **Shooter Wheel DevRef Out**

 **Shooter Config reference**

Shooter Data

MotorControlDevRef

DeviceStatus

status

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.



Right-click the **error in** control on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

code

code is the error or warning code.



Right-click the **error in** control on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

source

source describes the origin of the error or warning.



Right-click the **error in** control on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

Type

PWM

 **PWM Channel**

 **DeadBand**

 **Name**

 **maxPositivePwm**

 **minPositivePwm**

 **centerPwm**

 **maxNegativePwm**

 **minNegativePwm**


 **angularRange**

 **CAN**

 **Device Number**


 **Control Mode**

Semaphore

 **semaphore** is a reference to an existing or newly created semaphore.

Max Vout

TalonSRX Control Mode

Control Mode specifies how the Talon SRX will  control the motor. Percent VBus is the standard open-loop mode that is also accessible via the PWM interface on the Talon SRX.

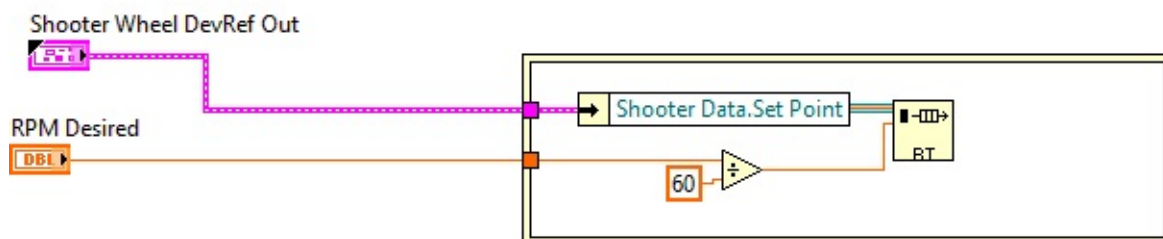
Invert

Set Point

Actual

RPM Desired

Help by FRC Team 836 - The RoboBees
This VI sets the Revolutions Per Minute (RPM) of a wheel.



WPI_MotorControlType.ctl



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\MotorControl\WPI_MotorControlType.ctl

Wheel.lvlib:Data.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-Library\Motion Control\Shooter_Wheel\Data.ctf

WPI_CANTalonSRX_APIControlMode.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\CAN\TalonSRX\WPI_CANTalonSRX_APIControlMode.ctf

WPI_CANJaguar_ControlMode.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\CAN\Jaguar\SubVIs\WPI_CANJaguar_ControlMode.ctf

WPI_MotorControlDeviceRef.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\MotorControl\WPI_MotorControlDeviceRef.ctf

Semaphore RefNum



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Utility\semaphor.llb\Semaphore RefNum

WPI_PWMDeadband.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\PWM\WPI_PWMDeadband.ctf

Wheel.lvlib:WheelControl.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-Library\Motion Control\Shooter_Wheel\WheelControl.ctf

FPGA_DIOPWMChannel.ctf



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\SystemInterfaces\DIO\FPGA_DIOPWMChannel.ctf

Wheel.lvlib:Config.ctf

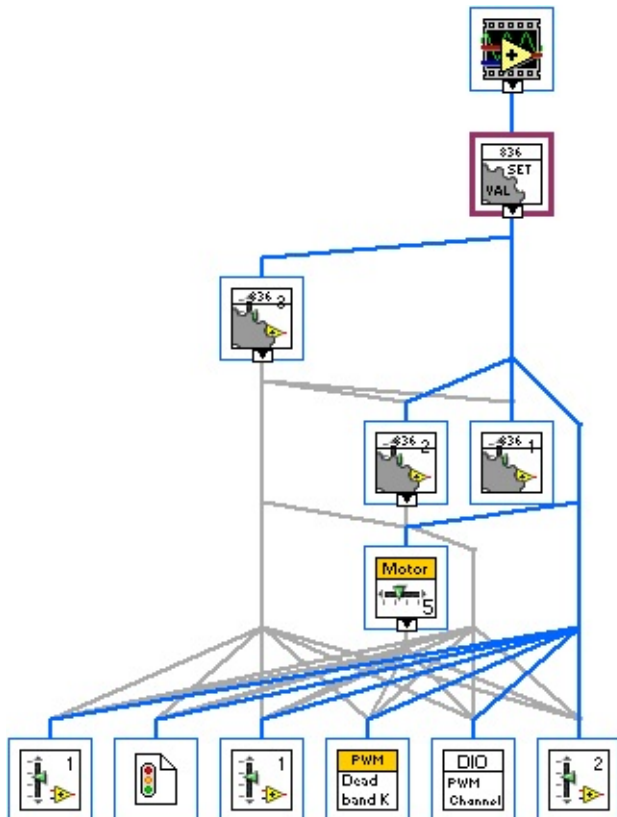


C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-Library\Motion Control\Shooter_Wheel\Config.ctf

"Wheel.lvlib:Wheel_Set_Value.vi History"

Current Revision: 14

Position in Hierarchy



Iconified Cluster Constants