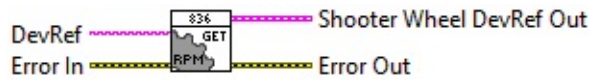


Shooter_Wheel.lvlib:Shooter_Wheel_Get.vi

Help by FRC Team 836 - The RoboBees

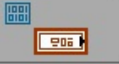
This VI will get the operating parameters of a shooter wheel.



DevRef

Shooter Wheel DevRef Out

Shooter Config reference



Error Out

status	code
<input checked="" type="checkbox"/>	d0

source

Error In

status	code
<input checked="" type="checkbox"/>	d0

source

Shooter Data


MotorControlDevRef

DeviceStatus		PWM	
status	code	PWM Channel	
<input checked="" type="checkbox"/>	d0	Invalid	
source	<input type="text"/>	DeadBand	
		Name	
		<input type="text"/>	
Type	Invert	maxPositivePwm	
PWM	<input type="checkbox"/> OFF/ON	<input type="text" value="0"/>	
CAN		minPositivePwm	
Device Number		<input type="text" value="0"/>	
Control Mode		centerPwm	
Percent VBus		<input type="text" value="0"/>	
	Semaphore	maxNegativePwm	
Max Vout	<input type="checkbox"/>	<input type="text" value="0"/>	
12		minNegativePwm	
TalonSRX Control Mode		<input type="text" value="0"/>	
Percent VBus		angularRange	
		<input type="text" value="0"/>	


CounterDevRef in

DevStatus	
status	code
<input checked="" type="checkbox"/>	d0
source	<input type="text"/>
CntIndex	<input type="text" value="Ctr 0"/>

RPM Desired



RPM Actual



DevRef

Error In

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.



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.

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.



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Shooter Wheel DevRef Out

Shooter Config reference

Shooter Data

MotorControlDevRef

DeviceStatus

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 **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**


 **CounterDevRef in**

DevStatus

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs. 

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.


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.

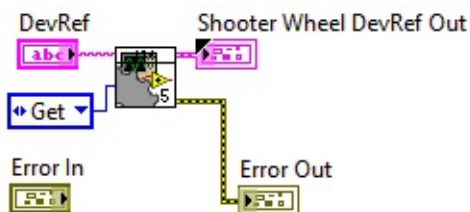
 Right-click the **error in** control on the front panel and select **Explain Error** or **Explain Warning** from the shortcut menu for more information about the error.

CtIndex

RPM Desired

RPM Actual

Help by FRC Team 836 - The RoboBees
This VI will get the operating parameters of a shooter wheel.



Shooter Wheel.lvlib:ShooterConfig.ctl



C:\Program Files (x86)\National Instruments\LabVIEW 2015\user.lib\836-

Library\Motion Control\Shooter_Wheel\ShooterConfig.ctl

Shooter_Wheel.lvlib:Shooter_Wheel_GetSet.vi



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

FPGA_CounterCtrSystemIndex.ctl



C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\SystemInterfaces\Counter\FPGA_CounterCtrSystemIndex.ctl

WPI_PWMDeadband.ctl



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

Shooter Wheel.lvlib:ShooterControl.ctl



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

WPI_MotorControlDeviceRef.ctl



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

Shooter Wheel.lvlib:ShooterData.ctl



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

FPGA_DIOPWMChannel.ctl



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

WPI_CANJaguar_ControlMode.ctl



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

WPI_MotorControlType.ctl



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

Semaphore RefNum



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

WPI_CANTalonSRX_APIControlMode.ctl



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

WPI_CounterDevRef.ctl

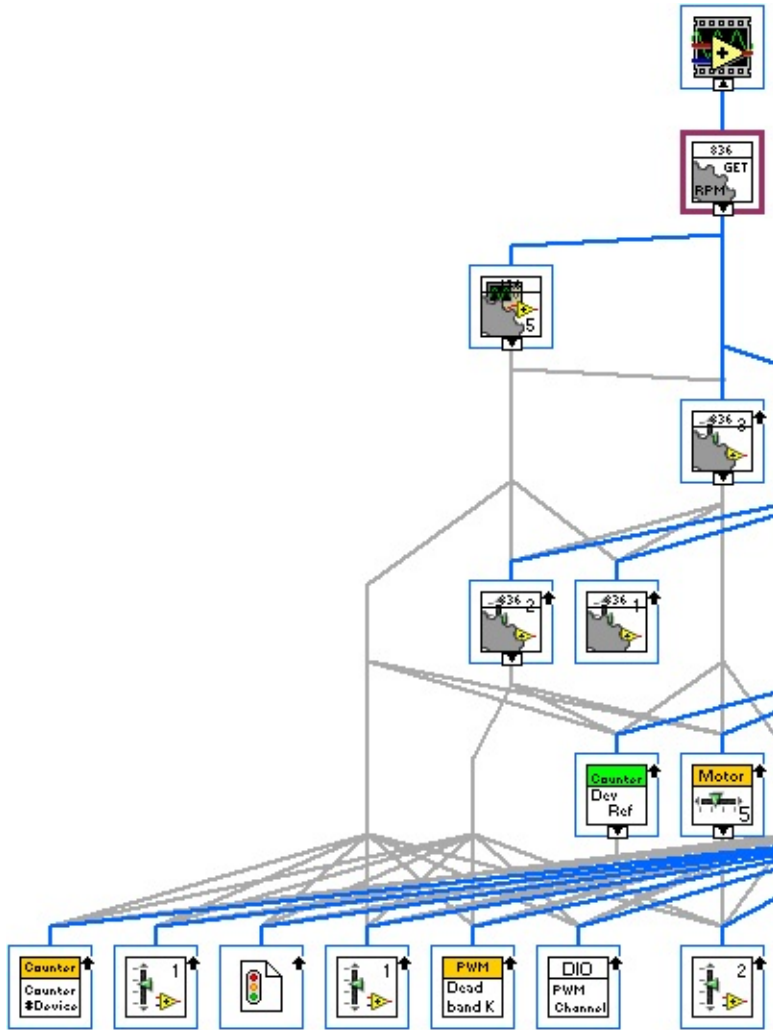


C:\Program Files (x86)\National Instruments\LabVIEW 2015\vi.lib\Rock Robotics\WPI\Counter\WPI_CounterDevRef.ctl

"Shooter _Wheel.lvlib:Shooter_Wheel_Get.vi History"

Current Revision: 46

Position in Hierarchy



Iconified Cluster Constants