

# Arduino Gyroscope Driver

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## 1 Class Index

### 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<b><a href="#">PwmRPi</a></b>	<b>2</b>
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## 2 File Index

### 2.1 File List

Here is a list of all files with brief descriptions:

<a href="#">Arduino.h</a>	3
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<a href="#">Pwm.h</a>	4
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## 3 Class Documentation

### 3.1 PwmRPi Class Reference

```
#include <Pwm.h>
```

#### Public Member Functions

- [PwmRPi](#) (unsigned char [channel](#))
- void [begin](#) ()
- void [stop](#) ()
- void [analogWrite](#) (unsigned char value)

#### Private Attributes

- Bcm2835::Peripheral [pwm](#)
- unsigned char [channel](#)

#### 3.1.1 Detailed Description

Definition at line 73 of file [Pwm.h](#).

#### 3.1.2 Constructor & Destructor Documentation

##### 3.1.2.1 PwmRPi::PwmRPi ( unsigned char *channel* )

Definition at line 4 of file [Pwm.cpp](#).

#### 3.1.3 Member Function Documentation

##### 3.1.3.1 void PwmRPi::analogWrite ( unsigned char *value* )

##### 3.1.3.2 void PwmRPi::begin ( )

Definition at line 8 of file [Pwm.cpp](#).

### 3.1.3.3 void PwmRpi::stop ( )

Definition at line 13 of file [Pwm.cpp](#).

## 3.1.4 Member Data Documentation

### 3.1.4.1 unsigned char PwmRpi::channel [private]

PWM pin.

Definition at line 83 of file [Pwm.h](#).

### 3.1.4.2 Bcm2835::Peripheral PwmRpi::pwm [private]

Peripheral.

Definition at line 78 of file [Pwm.h](#).

The documentation for this class was generated from the following files:

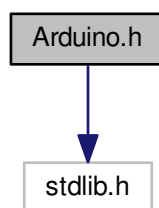
- [Pwm.h](#)
- [Pwm.cpp](#)

## 4 File Documentation

### 4.1 Arduino.h File Reference

```
#include <stdlib.h>
```

Include dependency graph for Arduino.h:



#### Macros

- #define [delay](#)(n) usleep(1000 \* n)

### 4.1.1 Macro Definition Documentation

#### 4.1.1.1 #define delay( n ) usleep(1000 \* n)

Definition at line 3 of file [Arduino.h](#).

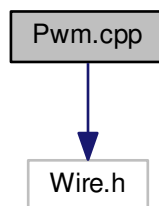
## 4.2 Arduino.h

```
00001 #include <stdlib.h>
00002
00003 #define delay(n) usleep(1000 * n)
```

## 4.3 Pwm.cpp File Reference

```
#include "Wire.h"
```

Include dependency graph for Pwm.cpp:



### Variables

- [PwmRPi Pwm0](#) (0)
- [PwmRPi Pwm1](#) (1)

### 4.3.1 Variable Documentation

#### 4.3.1.1 PwmRPi Pwm0(0)

#### 4.3.1.2 PwmRPi Pwm1(1)

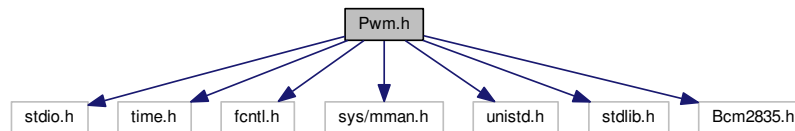
## 4.4 Pwm.cpp

```
00001
00002 #include "Wire.h"
00003
00004 PwmRPi::PwmRPi(unsigned char channel) {
00005     this->channel = (channel & 0x01);
00006 }
00007
00008 void PwmRPi::begin() {
00009     pwm.address = PWM_ADDRESS;
00010     Bcm2835::mapPeripheral(&pwm);
00011 }
00012
00013 void PwmRPi::stop() {
00014     Bcm2835::unmapPeripheral(&pwm);
00015 }
00016
00017 PwmRPi Pwm0(0);
00018 PwmRPi Pwm1(1);
```

## 4.5 Pwm.h File Reference

```
#include <stdio.h>
#include <time.h>
#include <fcntl.h>
#include <sys/mman.h>
#include <unistd.h>
#include <stdlib.h>
#include <Bcm2835.h>
```

Include dependency graph for Pwm.h:



### Classes

- class [PwmRpi](#)

### Macros

- #define [PWM\\_ADDRESS](#) 0x20c000
- #define [PWM\\_CTL](#) \*((unsigned int \*) (pwm.mem) + 0x00)
- #define [PWM\\_STA](#) \*((unsigned int \*) (pwm.mem) + 0x01)
- #define [PWM\\_DMAC](#) \*((unsigned int \*) (pwm.mem) + 0x02)
- #define [PWM\\_RNG1](#) \*((unsigned int \*) (pwm.mem) + 0x03)
- #define [PWM\\_DAT1](#) \*((unsigned int \*) (pwm.mem) + 0x04)
- #define [PWM\\_DAT1](#) \*((unsigned int \*) (pwm.mem) + 0x05)
- #define [PWM\\_FIF1](#) \*((unsigned int \*) (pwm.mem) + 0x06)
- #define [PWM\\_RNG2](#) \*((unsigned int \*) (pwm.mem) + 0x07)
- #define [PWM\\_DAT2](#) \*((unsigned int \*) (pwm.mem) + 0x08)
- #define [PWM\\_CTL\\_PWEN1](#) (0x01 << 0)
- #define [PWM\\_CTL\\_MODE1](#) (0x01 << 1)
- #define [PWM\\_CTL\\_RPTL1](#) (0x01 << 2)
- #define [PWM\\_CTL\\_SBIT1](#) (0x01 << 3)
- #define [PWM\\_CTL\\_POLA1](#) (0x01 << 4)
- #define [PWM\\_CTL\\_USEF1](#) (0x01 << 5)
- #define [PWM\\_CTL\\_CLRF1](#) (0x01 << 6)
- #define [PWM\\_CTL\\_MSEN1](#) (0x01 << 7)
- #define [PWM\\_CTL\\_PWEN2](#) (0x01 << 8)
- #define [PWM\\_CTL\\_MODE2](#) (0x01 << 9)
- #define [PWM\\_CTL\\_RPTL2](#) (0x01 << 10)
- #define [PWM\\_CTL\\_SBIT2](#) (0x01 << 11)
- #define [PWM\\_CTL\\_POLA2](#) (0x01 << 12)
- #define [PWM\\_CTL\\_USEF2](#) (0x01 << 13)
- #define [PWM\\_CTL\\_MSEN2](#) (0x01 << 15)
- #define [PWM\\_STA\\_FULL1](#) (0x01 << 0)
- #define [PWM\\_STA\\_EMPTY1](#) (0x01 << 1)
- #define [PWM\\_STA\\_WERR1](#) (0x01 << 2)

- `#define PWM_STA_RERR1 (0x01 << 3)`
- `#define PWM_STA_GAPO1 (0x01 << 4)`
- `#define PWM_STA_GAPO2 (0x01 << 5)`
- `#define PWM_STA_GAPO3 (0x01 << 6)`
- `#define PWM_STA_GAPO4 (0x01 << 7)`
- `#define PWM_STA_BERR (0x01 << 8)`
- `#define PWM_STA_STA1 (0x01 << 9)`
- `#define PWM_STA_STA2 (0x01 << 10)`
- `#define PWM_STA_STA3 (0x01 << 11)`
- `#define PWM_STA_STA4 (0x01 << 12)`
- `#define PWM_DMAC_DREQ (0xff << 0)`
- `#define PWM_DMAC_PANIC (0xff << 8)`
- `#define PWM_DMAC_ENAB (0x01 << 31)`

#### Variables

- `PwmRpi Pwm0`
- `PwmRpi Pwm1`

### 4.5.1 Macro Definition Documentation

#### 4.5.1.1 `#define PWM_ADDRESS 0x20c000`

This is a simple Wire library to Raspberry.

It doesn't use the specific i2c module (`i2c_dev` or `i2c_bcm2708`) it maps the memory (the BSC0 chunk) into the virtual memory space and handles directly the register.

Thanks to this blog: <http://www.susa.net/wordpress/2012/06/raspberry-pi-pcf8563-real-time-clock>

Definition at line 23 of file `Pwm.h`.

#### 4.5.1.2 `#define PWM_CTL *((unsigned int *) (pwm.mem) + 0x00)`

Definition at line 25 of file `Pwm.h`.

#### 4.5.1.3 `#define PWM_CTL_CLRF1 (0x01 << 6)`

Definition at line 42 of file `Pwm.h`.

#### 4.5.1.4 `#define PWM_CTL_MODE1 (0x01 << 1)`

Definition at line 37 of file `Pwm.h`.

#### 4.5.1.5 `#define PWM_CTL_MODE2 (0x01 << 9)`

Definition at line 46 of file `Pwm.h`.

#### 4.5.1.6 `#define PWM_CTL_MSEN1 (0x01 << 7)`

Definition at line 43 of file `Pwm.h`.

#### 4.5.1.7 `#define PWM_CTL_MSEN2 (0x01 << 15)`

Definition at line 51 of file `Pwm.h`.

#### 4.5.1.8 `#define PWM_CTL_POLA1 (0x01 << 4)`

Definition at line 40 of file `Pwm.h`.

4.5.1.9 `#define PWM_CTL_POLA2 (0x01 << 12)`

Definition at line 49 of file [Pwm.h](#).

4.5.1.10 `#define PWM_CTL_PWEN1 (0x01 << 0)`

Definition at line 36 of file [Pwm.h](#).

4.5.1.11 `#define PWM_CTL_PWEN2 (0x01 << 8)`

Definition at line 45 of file [Pwm.h](#).

4.5.1.12 `#define PWM_CTL_RPTL1 (0x01 << 2)`

Definition at line 38 of file [Pwm.h](#).

4.5.1.13 `#define PWM_CTL_RPTL2 (0x01 << 10)`

Definition at line 47 of file [Pwm.h](#).

4.5.1.14 `#define PWM_CTL_SBIT1 (0x01 << 3)`

Definition at line 39 of file [Pwm.h](#).

4.5.1.15 `#define PWM_CTL_SBIT2 (0x01 << 11)`

Definition at line 48 of file [Pwm.h](#).

4.5.1.16 `#define PWM_CTL_USEF1 (0x01 << 5)`

Definition at line 41 of file [Pwm.h](#).

4.5.1.17 `#define PWM_CTL_USEF2 (0x01 << 13)`

Definition at line 50 of file [Pwm.h](#).

4.5.1.18 `#define PWM_DAT1 *((unsigned int *) (pwm.mem) + 0x04)`

Definition at line 30 of file [Pwm.h](#).

4.5.1.19 `#define PWM_DAT1 *((unsigned int *) (pwm.mem) + 0x05)`

Definition at line 30 of file [Pwm.h](#).

4.5.1.20 `#define PWM_DAT2 *((unsigned int *) (pwm.mem) + 0x08)`

Definition at line 33 of file [Pwm.h](#).

4.5.1.21 `#define PWM_DMAC *((unsigned int *) (pwm.mem) + 0x02)`

Definition at line 27 of file [Pwm.h](#).

4.5.1.22 `#define PWM_DMAC_DREQ (0xff << 0)`

Definition at line 69 of file [Pwm.h](#).

4.5.1.23 `#define PWM_DMAC_ENAB (0x01 << 31)`

Definition at line 71 of file [Pwm.h](#).



4.5.1.24 `#define PWM_DMAC_PANIC (0xff << 8)`

Definition at line 70 of file [Pwm.h](#).

4.5.1.25 `#define PWM_FIF1 *((unsigned int *) (pwm.mem) + 0x06)`

Definition at line 31 of file [Pwm.h](#).

4.5.1.26 `#define PWM_RNG1 *((unsigned int *) (pwm.mem) + 0x03)`

Definition at line 28 of file [Pwm.h](#).

4.5.1.27 `#define PWM_RNG2 *((unsigned int *) (pwm.mem) + 0x07)`

Definition at line 32 of file [Pwm.h](#).

4.5.1.28 `#define PWM_STA *((unsigned int *) (pwm.mem) + 0x01)`

Definition at line 26 of file [Pwm.h](#).

4.5.1.29 `#define PWM_STA_BERR (0x01 << 8)`

Definition at line 62 of file [Pwm.h](#).

4.5.1.30 `#define PWM_STA_EMPT1 (0x01 << 1)`

Definition at line 55 of file [Pwm.h](#).

4.5.1.31 `#define PWM_STA_FULL1 (0x01 << 0)`

Definition at line 54 of file [Pwm.h](#).

4.5.1.32 `#define PWM_STA_GAPO1 (0x01 << 4)`

Definition at line 58 of file [Pwm.h](#).

4.5.1.33 `#define PWM_STA_GAPO2 (0x01 << 5)`

Definition at line 59 of file [Pwm.h](#).

4.5.1.34 `#define PWM_STA_GAPO3 (0x01 << 6)`

Definition at line 60 of file [Pwm.h](#).

4.5.1.35 `#define PWM_STA_GAPO4 (0x01 << 7)`

Definition at line 61 of file [Pwm.h](#).

4.5.1.36 `#define PWM_STA_RERR1 (0x01 << 3)`

Definition at line 57 of file [Pwm.h](#).

4.5.1.37 `#define PWM_STA_STA1 (0x01 << 9)`

Definition at line 63 of file [Pwm.h](#).

4.5.1.38 `#define PWM_STA_STA2 (0x01 << 10)`

Definition at line 64 of file [Pwm.h](#).

## 4.5.1.39 #define PWM\_STA\_STA3 (0x01 &lt;&lt; 11)

Definition at line 65 of file [Pwm.h](#).

## 4.5.1.40 #define PWM\_STA\_STA4 (0x01 &lt;&lt; 12)

Definition at line 66 of file [Pwm.h](#).

## 4.5.1.41 #define PWM\_STA\_WERR1 (0x01 &lt;&lt; 2)

Definition at line 56 of file [Pwm.h](#).

## 4.5.2 Variable Documentation

## 4.5.2.1 PwmRPI Pwm0

## 4.5.2.2 PwmRPI Pwm1

## 4.6 Pwm.h

```

00001
00011 #ifndef __RASPBERRY_WIRE_H__
00012 #define __RASPBERRY_WIRE_H__ 1
00013
00014 #include <stdio.h>
00015 #include <time.h>
00016 #include <fcntl.h>
00017 #include <sys/mman.h>
00018 #include <unistd.h>
00019 #include <stdlib.h>
00020
00021 #include <Bcm2835.h>
00022
00023 #define PWM_ADDRESS      0x20c000
00024
00025 #define PWM_CTL          *((unsigned int *) (pwm.mem) + 0x00)
00026 #define PWM_STA          *((unsigned int *) (pwm.mem) + 0x01)
00027 #define PWM_DMACH        *((unsigned int *) (pwm.mem) + 0x02)
00028 #define PWM_RNG1         *((unsigned int *) (pwm.mem) + 0x03)
00029 #define PWM_DAT1         *((unsigned int *) (pwm.mem) + 0x04)
00030 #define PWM_DAT1         *((unsigned int *) (pwm.mem) + 0x05)
00031 #define PWM_FIFO         *((unsigned int *) (pwm.mem) + 0x06)
00032 #define PWM_RNG2         *((unsigned int *) (pwm.mem) + 0x07)
00033 #define PWM_DAT2         *((unsigned int *) (pwm.mem) + 0x08)
00034
00035 // p142
00036 #define PWM_CTL_PWEN1    (0x01 << 0)
00037 #define PWM_CTL_MODE1    (0x01 << 1)
00038 #define PWM_CTL_RPTL1    (0x01 << 2)
00039 #define PWM_CTL_SBIT1    (0x01 << 3)
00040 #define PWM_CTL_POLA1    (0x01 << 4)
00041 #define PWM_CTL_USEF1    (0x01 << 5)
00042 #define PWM_CTL_CLRF1    (0x01 << 6)
00043 #define PWM_CTL_MSEN1    (0x01 << 7)
00044
00045 #define PWM_CTL_PWEN2    (0x01 << 8)
00046 #define PWM_CTL_MODE2    (0x01 << 9)
00047 #define PWM_CTL_RPTL2    (0x01 << 10)
00048 #define PWM_CTL_SBIT2    (0x01 << 11)
00049 #define PWM_CTL_POLA2    (0x01 << 12)
00050 #define PWM_CTL_USEF2    (0x01 << 13)
00051 #define PWM_CTL_MSEN2    (0x01 << 15)
00052
00053 // p144
00054 #define PWM_STA_FULL1    (0x01 << 0)
00055 #define PWM_STA_EMPTY1   (0x01 << 1)
00056 #define PWM_STA_WERR1    (0x01 << 2)
00057 #define PWM_STA_RERR1    (0x01 << 3)
00058 #define PWM_STA_GAPO1    (0x01 << 4)
00059 #define PWM_STA_GAPO2    (0x01 << 5)
00060 #define PWM_STA_GAPO3    (0x01 << 6)
00061 #define PWM_STA_GAPO4    (0x01 << 7)
00062 #define PWM_STA_BERR      (0x01 << 8)
00063 #define PWM_STA_STA1      (0x01 << 9)
00064 #define PWM_STA_STA2      (0x01 << 10)
00065 #define PWM_STA_STA3      (0x01 << 11)
00066 #define PWM_STA_STA4      (0x01 << 12)
00067

```

```

00068 // p145
00069 #define PWM_DMAC_DREQ (0xff << 0)
00070 #define PWM_DMAC_PANIC (0xff << 8)
00071 #define PWM_DMAC_ENAB (0x01 << 31)
00072
00073 class PwmRPi {
00074     Bcm2835::Peripheral pwm;
00079
00083     unsigned char channel;
00084
00085 public:
00086
00087     PwmRPi(unsigned char channel);
00088
00091     void begin();
00092
00095     void stop();
00096
00099     void analogWrite(unsigned char value);
00100
00101
00102 };
00103
00104 extern PwmRPi Pwm0;
00105 extern PwmRPi Pwm1;
00106
00107 #endif /* __RASPBERRY_PWM_H__ */

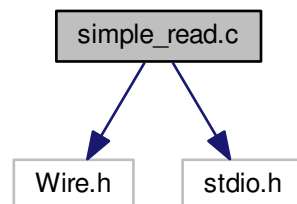
```

## 4.7 simple\_read.c File Reference

```
#include <Wire.h>
```

```
#include <stdio.h>
```

Include dependency graph for simple\_read.c:



### Functions

- int [main](#) ()

#### 4.7.1 Function Documentation

##### 4.7.1.1 int main ( )

Definition at line 4 of file [simple\\_read.c](#).

## 4.8 simple\_read.c

```

00001 #include <Wire.h>
00002 #include <stdio.h>
00003

```

```

00004 int main() {
00005     printf("Begining...");
00006     Wire.begin();
00007
00008     Wire.beginTransaction(0x21);
00009     Wire.write(0x00);
00010     Wire.write(0x00);
00011     Wire.endTransmission();
00012
00013     Wire.requestFrom(0x21, 16);
00014     while (Wire.available()) {
00015         printf("%d\n", Wire.read());
00016     }
00017     Wire.dumpStatus();
00018     Wire.stop();
00019     printf("Stop.");
00020 }

```

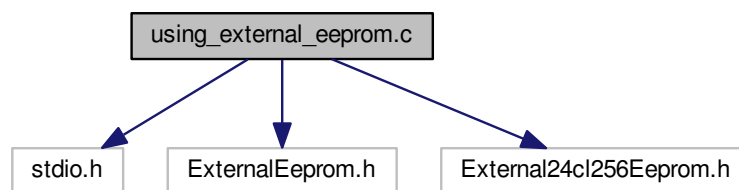
## 4.9 using\_external\_eeprom.c File Reference

```

#include <stdio.h>
#include <ExternalEeprom.h>
#include <External24cl256Eeprom.h>

```

Include dependency graph for using\_external\_eeprom.c:



### Functions

- int `main` ()

#### 4.9.1 Function Documentation

##### 4.9.1.1 int main ( )

Definition at line 8 of file [using\\_external\\_eeprom.c](#).

## 4.10 using\_external\_eeprom.c

```

00001
00002 // Yout will find ExternalEeprom here: https://github.com/dalmirdasilva/ArduinoMemoryDriver
00003
00004 #include <stdio.h>
00005 #include <ExternalEeprom.h>
00006 #include <External24cl256Eeprom.h>
00007
00008 int main() {
00009     int i;
00010     External24cl256Eeprom eeprom(0x00);
00011
00012     for (i = 0; i < 16; i++) {
00013         printf("%d\n", eeprom.read(i));
00014     }
00015 }

```

```
00016     return 0;  
00017 }  
00018  
00019
```

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