Documentation msp430-arduino

version 1.2 by Alexandre BARRAT

Table of content

Const	tants	•		•	•	•	•	•	•	•	•	•	•	•	3
void	pinMod	e(in	t pi	n,	int	mode)			•			•	•	3
void	digita	lWri	te(i	.nt	pin,	, int	va	lue)	•	•	•	•		3
int o	digital	Read	(int	: pi	n)	•	•	•				•	•		4
void	shift0	ut(d	ataP	in,	clo	ockPi	n,	bit	:0r	der	. v	alu	e)		4

```
Constants
LOW
                                  0
                                 1
HIGH
                                  0
INPUT
                                 1
OUTPUT
                                 2
INPUT_PULLUP
                                 7
MSBFIRST
                                 0
LSBFIRST
LED BUILTIN
                                 10
PΙ
                                 3.1415926535897932384626433832795
                                 1.5707963267948966192313216916398
HALF_PI
TWO PI
                                 6.283185307179586476925286766559
DEG TO RAD
                                 0.017453292519943295769236907684886
RAD_TO_DEG
                                 57.295779513082320876798154814105
EULER
                                 2.718281828459045235360287471352
                                 ((a)<(b)?(a):(b))
min(a,b)
max(a,b)
                                 ((a)>(b)?(a):(b))
abs(x)
                                 ((x)>0?(x):-(x))
constrain(amt,low,high)
                                 ((amt)<(low)?(low):((amt)>(high)?(high):(amt)))
round(x)
                                 ((x)>=0?(long)((x)+0.5):(long)((x)-0.5))
                                 ((deg)*DEG_TO_RAD)
radians(deg)
degrees(rad)
                                 ((rad)*RAD_TO_DEG)
sq(x)
                                 ((x)^*(x))
lowByte(w)
                                 ((uint8_t) ((w) & 0xff))
highByte(w)
                                 ((uint8_t) ((w) >> 8))
bitRead(value,bit)
                                 (((value) >> (bit)) & 0x01)
bitSet(value,bit)
                                 ((value) |= (1UL << (bit)))
bitClear(value,bit)
                                 ((value) \&= \sim (1UL << (bit)))
bitToggle(value,bit)
                                 ((value) ^= (1UL << (bit)))
bitWrite(value, bit, bitvalue) ((bitvalue) ? bitSet(value, bit) : bitClear(value, bit))
bit(bit)
                                 (pow(2,bit))
```

void pinMode(int pin, int mode)

Set the mode of a pin (INPUT/OUTPUT/INPUT_PULLUP)

Parameters

```
pin The pin to set the mode (10-17/20-27).
mode The mode to set (INPUT/OUTPUT/INPUT_PULLUP)
```

Return

void digitalWrite(int pin, int value)

Write a digital value on a pin.

Parameters

pin The pin to modify (10-17/20-27). value The digital value to write (LOW/HIGH)

Return

int digitalRead(int pin)

Read the value of the given digital pin.

Parameters

pin The pin to read (10-17/20-27).

Return

value The digital value of the pin (0/1) or -1 if wrong pin.

void shiftOut(dataPin, clockPin, bitOrder, value)

Shifts out a byte of data one bit at a time.

Parameters

dataPin The pin to send data (10-17/20-27).

clockPin The pin for the clock (10-17/20-27).

bitOrder The first bit to shift: most or least significant (MSBFIRST/LSBFIRST).

Return