Documentation

msp430-arduino

version 1.2
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Constants

LOW	0
HIGH	1
INPUT	0
OUTPUT	1
INPUT_PULLUP	2
MSBFIRST	7
LSBFIRST	0
LED_BUILTIN	10
PI	3.14159265358979323846264338327950
HALF_PI	1.57079632679489661923132169163975
TWO_PI	6.28318530717958647692528676655900
DEG_TO_RAD	0.01745329251994329576923690768488612
RAD_TO_DEG	57.29577951308232087679815481410517
EULER	2.71828182845904523536028747135266
min(a,b)	((a)<(b)?(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))
radians(deg)	((deg)*DEG_TO_RAD)
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) &= ~(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