

Some Hardware Functions in Simple Tools

Individual I/O

void [high](#) (int pin)

Set an I/O pin to output-high.

void [low](#) (int pin)

Set an I/O pin to output-low.

int [input](#) (int pin)

Set an I/O pin to input and return 1 if pin detects a high signal, or 0 if it detects low.

More Individual I/O

unsigned

int [toggle](#) (int pin)

Toggle the output state of the I/O pin.

unsigned

int [reverse](#) (int pin)

Reverse the direction of an I/O pin.

unsigned

int [get_state](#) (int pin)

Check the state of an I/O pin without setting it to input.

unsigned

int [get_direction](#) (int pin)

Check the direction of the I/O pin.

unsigned

int [get_output](#) (int pin)

Get I/O pin output state.

void [set_direction](#) (int pin, int direction)

Set an I/O pin to a given direction.

void [set_output](#) (int pin, int state)

Set I/O pin output register bit to either 1 or 0.

Group I/O

unsigned

int [get_states](#) (int endPin, int startPin)

Get states of a contiguous group of I/O pins.

unsigned

int [get_directions](#) (int endPin, int startPin)

Get directions for a contiguous group of I/O pins.

unsigned

int [get_outputs](#) (int endPin, int startPin)

Get output settings for a contiguous group of I/O pins.

void [set_directions](#) (int endPin, int startPin, unsigned int pattern)

Set directions for a contiguous group of I/O pins.

void [set_outputs](#) (int endPin, int startPin, unsigned int pattern)

Set output states for a contiguous group of I/O pins.

Timing

void [pause](#) (int time) // Delay cog from moving on to the next statement for a certain length of time.

Multicore

int * [cog_run](#) (void(*function)(void *par), int stacksize)

Run a function's code in the next available cog (processor).

int [cog_num](#) (int *coginfo)

Get the cog ID.

void [cog_end](#) (int *coginfo)

End function code running in another cog that was launched with cog_run.

Others

void Freqout(int pin, int msTime, int frequency)

long rc_time(int pin, int state)

void pulse_out(int pin, int time)