Servos

Functions

void **enable_servo** (int port)
Enable a specific servo. More...

void **disable_servo** (int port)
Disable a specific servo. More...

void **enable_servos** ()
Enable all four servo channels. More...

void **disable_servos** ()
Disable all four servo channels. More...

void **set_servo_enabled** (int port, int enabled)
Enable or disable a specific servo. More...

int **get_servo_enabled** (int port)
Check if a servo is enabled. More...

int **get_servo_position** (int port)
Get the most recent commanded servo position. More...

void **set_servo_position** (int port, int position)
Set a new servo goal position. More...

Detailed Description

Function Documentation

void disable_servo (int port)

Disable a specific servo.

Parameters

`[in]` **port** The port, between 0 and 3, to disable

void disable_servos ( )

Disable all four servo channels.

void enable_servo (int port)

Enable a specific servo.

Parameters

`[in]` **port** The port, between 0 and 3, to enable

void enable_servos ( )

Enable all four servo channels.

int get_servo_enabled (int port)

Check if a servo is enabled.

Parameters

`[in]` **port** The port, between 0 and 3

Returns

The servo enable setting 0: disabled 1: enabled

int get_servo_position (int port)

Get the most recent commanded servo position.

Parameters

servo The port of the servo

Returns

The servo's position as an 11 bit integer (which is an integer between 0 and 2047)

Note

This method will return the last *sent* position, not the currently *set* position.

```
void set_servo_enabled ( int  port,
                         int  enabled
                       )
```

Enable or disable a specific servo.

Parameters

[in]	**port**	The port, between 0 and 3, to enable
[in]	**enabled**	The new enable setting 0: disabled 1: enabled

```
void set_servo_position ( int  port,
                          int  position
                        )
```

Set a new servo goal position.

Parameters

servo	The port of the servo
position	The new servo position, between 0 and 2047

Note

Even though the servos have a *theoretical* range between 0 and 2047, the *actual* range is often less. Setting the servo to a position that it cannot physically reach will cause the servo to audibly strain and will consume battery very quickly.