

TEST SUMMARY

MCPWM Test using brushed DC motor on MD10C(Cytron)

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This is a summary of learnings I've made while testing the encoder on `MCPWM` module

- Type-Casting `int` to `gpio_num_t`:

The functions in the GPIO library used for this example only accept GPIO pins as `gpio_num_t` enumerated values. Therefore, we need to type-cast any `int` into `gpio_num_t` by doing the follows:

```
#define DIR_PIN 2
// The above statement declares DIR_PIN as int 2

gpio_num_t DIR_PIN_2 = static_cast<gpio_num_t>(DIR_PIN) ;
// Or you can use just the right side while calling a function.
```

- There's whining sounds from the motor, which is mostly due to the PWM frequency which has been currently set to 25kHz. It needs to be increased further.