



 vedderb / rise_sdvp

Added timeout to motor simulator

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1 parent 5539b91

commit dcb04575f40a0d2a0e2ca8d102836baf3a0e364c

 Showing 1 changed file with 11 additions and 0 deletions.

Unified

Split

11 Embedded/RC_Controller/motor_sim.c

```
14 14 #define INPUT_VOLTAGE 39.0
15 15 #define ERPM_PER_SEC 25000.0
16 16 #define MAX_CURRENT 80.0
17 17 + #define TIMEOUT 2.0
18 18
19 19 // Private variables
20 20 static bool m_is_running;
21 21 static mc_values m_values;
22 22 static motor_control_mode m_mode;
23 23 static float m_mode_value;
24 24 + static float m_timeout;
25 25
26 26 // Private functions
27 27 static void motor_control_set(motor_control_mode mode, float value);
28 28
29 29 m_is_running = false;
30 30 m_mode = MOTOR_CONTROL_DUTY;
31 31 m_mode_value = 0.0;
32 32 + m_timeout = 0.0;
33 33 +
34 34 chThdCreateStatic(sim_thread_wa, sizeof(sim_thread_wa), NORMALPRIO, sim_thread, NULL);
35 35 }
36 36
37 37
38 38
109 112 m_values.watt_hours = 0.0;
110 113 m_values.watt_hours_charged = 0.0;
111 114 m_values.fault_code = FAULT_CODE_NONE;
112 115 +
113 116 + // Timeout
114 117 + m_timeout += dt;
115 118 + if (m_timeout > TIMEOUT) {
116 119 + m_mode = MOTOR_CONTROL_CURRENT_BRAKE;
117 120 + m_mode_value = 10.0;
118 121 + }
119 122 }
120 123
121 124 iteration_timer = chThdSleepUntilWindowed(iteration_timer,
122 125 static void motor_control_set(motor_control_mode mode, float value) {
123 126 m_mode = mode;
124 127 m_mode_value = value;
125 128 + m_timeout = 0.0;
126 129 }
127 130
128 131 static void motor_values_requested(void) {
```

0 comments on commit [dcb0457](#)