

# LED1\_with\_LED3\_Investigation.cpp

```
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6 #include <uTTCOS2013/uTTCOS.h>
7 #include "FlashLEDCodeCPP.h"
8
9 #define EMBEDDEDUNIT_LITE
10 #include <EmbeddedUnit/EmbeddedUnit.h>
11 // #include "LED1_with_LED3_Investigation_cpp.h"
12
13 // LED STATES
14 #define LED1_ON      0x01
15 #define LED3_ON      0x04
16 #define LED5_ON      0x10
17 #define LED13_ON     0x05
18 #define LED15_ON     0x11
19 #define LED35_ON     0x14
20 #define LED135_ON    0x15
21
22
23 TEST_CONTROL(LED1_with_LED3_Investigation_cpp);
24
25 #if 0
26 TEST(LED1_with_LED3_Investigation_cpp_GUIUpdate) {
27     UpdateEunitGui(); // Conditionally compile this line (use #if 1) to cause an GUI update
    based on last completed test
28 }
29 #endif
30
31 TEST(LED1_with_LED3_Investigation1)
32 {
33     uTTCOS\_WriteLED(0); // Initialize to LEDS 0
34     ResetStates\_CPP(); // Reset LED State Machines
35     unsigned char initialLED = uTTCOS\_ReadLED();
36     unsigned char currentLED = NULL;
37     unsigned char expectedInitialLED = 0x00;
38
39     CHECK(expectedInitialLED == initialLED);
40
41     FlashLED1_CPP();
42     currentLED = uTTCOS\_ReadLED();
43     CHECK(currentLED == LED1_ON); // LED 1 ON
44
45     FlashLED1_CPP();
46     currentLED = uTTCOS\_ReadLED();
47     CHECK(currentLED == 0x00); // LED 1 OFF
48
49     FlashLED3_CPP();
50     currentLED = uTTCOS\_ReadLED();
51     CHECK(currentLED == 0x00); // LED 3 OFF
52
53     FlashLED1_CPP();
54     currentLED = uTTCOS\_ReadLED();
55     CHECK(currentLED == LED1_ON); // LED 1 ON
56
57     FlashLED3_CPP(); //LED 3 On
58     currentLED = uTTCOS\_ReadLED();
59     CHECK(currentLED == LED13_ON); //Should Pass
60 }
```

LED1\_with\_LED3\_Investigation.cpp

```
61     FlashLED3_CPP();
62     currentLED = uTTCOS_ReadLED();
63     CHECK(currentLED == LED1_ON);
64
65     FlashLED3_CPP();
66     currentLED = uTTCOS_ReadLED();
67     CHECK(currentLED == LED13_ON);
68
69     FlashLED1_CPP();
70     currentLED = uTTCOS_ReadLED();
71     CHECK(currentLED == LED3_ON);
72
73     FlashLED5_CPP();
74     currentLED = uTTCOS_ReadLED();
75     CHECK(currentLED == LED3_ON);
76
77     FlashLED5_CPP();
78     currentLED = uTTCOS_ReadLED();
79     CHECK(currentLED == LED35_ON);
80
81     FlashLED5_CPP();
82     currentLED = uTTCOS_ReadLED();
83     CHECK(currentLED == LED35_ON);
84
85     FlashLED5_CPP();
86     currentLED = uTTCOS_ReadLED();
87     CHECK(currentLED == LED3_ON);
88
89
90
91 }
92
93 TEST_FILE_RUN_NOTIFICATION(LED1_with_LED3_Investigation_cpp);
94
```