

### Running fb\_debug at room temperature:

```
DEBUG: stateStateMachine(): In TEMP_READING State:
DEBUG: toggleLED(): LED GREEN:
DEBUG: runBIT(): Starting BIT:
DEBUG: runBIT(): BIT PASSED:
DEBUG: getTemperature(): Temperature is: 23 C
DEBUG: stateStateMachine(): In AVERAGE_WAIT State:
DEBUG: printAverageTemperature(): Average Temperature:
23
DEBUG: runBIT(): Starting BIT:
DEBUG: runBIT(): BIT PASSED:
```

### Running fb\_status w/ heat gun:

```
STATUS: getTemperature(): Temperature is: 29 C
STATUS: printAverageTemperature(): Average Temperature:
25
STATUS: getTemperature(): Temperature is: 28 C
STATUS: printAverageTemperature(): Average Temperature:
26
```

### Running fb\_test:

TEST: testSuite(): Starting ucTest, Results Below:

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Name: uCUnit application  
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\*\*\*\*\*TEST: testPointers(): Pointer Related Tests

```
../source/Testsuite.c:95: passed:IsNotNull(temperature)
../source/Testsuite.c:98: passed:IsNotNull(alertLowTemp)
../source/Testsuite.c:100: passed:IsNotNull(numReadings)
../source/Testsuite.c:102: passed:IsNotNull(averageTemp)
../source/Testsuite.c:105: passed:IsNotNull(temperature)
```

=====

Testcase passed.

=====

TEST: Test\_BasicChecks: Equivalency Tests

```
../source/Testsuite.c:67: passed:IsEqual(bit,BITPASS)
../source/Testsuite.c:73: passed:IsEqual(val,1)
../source/Testsuite.c:75: passed:IsEqual(log_level,TEST)
../source/Testsuite.c:79: passed:Is8Bit(data)
../source/Testsuite.c:81: passed:IsEqual(data,0x62)
```

=====

Testcase passed.

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Testcases: failed: 0

passed: 2

Checks: failed: 0

passed: 10

\*\*\*\*\*

TEST: systemShutdown(): System shutdown

### Disconnect Example:

DEBUG: getTemperature(): Temperature is: 24 C

DEBUG: stateStateMachine(): In AVERAGE\_WAIT State:

DEBUG: printAverageTemperature(): Average Temperature:  
24

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

DEBUG: runBIT(): BIT PASSED:

DEBUG: toggleLED(): LED GREEN:

DEBUG: runBIT(): Starting BIT:

```
DEBUG: runBIT(): BIT PASSED:
DEBUG: toggleLED(): LED GREEN:
DEBUG: runBIT(): Starting BIT:
DEBUG: runBIT(): BIT FAILED:
DEBUG: stateStateMachine(): In DISCONNECTED State:
DEBUG: toggleLED(): LED RED:
DEBUG: toggleLED(): LED RED:
```

## Going to next state machine example:

```

DEBUG: getTemperature(): Temperature is: 41 C
DEBUG: stateStateMachine(): In TEMP_READING State:
DEBUG: toggleLED(): LED GREEN:
DEBUG: runBIT(): Starting BIT:
DEBUG: runBIT(): BIT PASSED:
DEBUG: getTemperature(): Temperature is: 25 C
DEBUG: stateStateMachine(): In AVERAGE_WAIT State:
DEBUG: printAverageTemperature(): Average Temperature:
24

```

[illegible]

DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: toggleLED(): LED GREEN:  
**DEBUG: stateTableMachine(): In TEMP\_READING State:**  
DEBUG: toggleLED(): LED GREEN:  
DEBUG: runBIT(): Starting BIT:  
DEBUG: runBIT(): BIT PASSED:  
DEBUG: getTemperature(): Temperature is: 41 C