

```
*****
**  DGCB3045 Digital Control Board (Rev.C) BIST Test  **
*****
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```
*****
**                      DGCB3045 - UART Test                **
*****
Testing UART
115200,8,N,1
Hello world!
UART Test PASSED
```

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*****
**                      DGCB3045 - Memory Test                **
*****
NOTE: This application runs with D-Cache disabled.
As a result, cacheline requests will not be generated
```

```
Testing memory region: ps7_ddr_0
Memory Controller: ps7_ddr_0
Base Address: 0x00100000
Memory Size: 0x1FF00000 bytes
Test Range Size: 0x400000 bytes
32-bit test: PASSED!
16-bit test: PASSED!
8-bit test: PASSED!
```

```
Testing memory region: ps7_ram_1
Memory Controller: ps7_ram_1
Base Address: 0xFFFF0000
Memory Size: 0xFE00 bytes
Test Range Size: 0xFE00 bytes
32-bit test: PASSED!
16-bit test: PASSED!
8-bit test: PASSED!
```

--Memory Test Application Complete--

```
*****
**                      DGCB3045 - XADC(PS) Test              **
*****
```

The Current Temperature is 55.639 Centigrades  
The Maximum Temperature is 55.831 Centigrades  
The Minimum Temperature is 55.247 Centigrades

The Current VCCPINT is 0.997 Volts  
The Maximum VCCPINT is 0.998 Volts  
The Minimum VCCPINT is 0.997 Volts

The Current VCCPAUX is 1.795 Volts  
The Maximum VCCPAUX is 1.796 Volts  
The Minimum VCCPAUX is 1.795 Volts

The Current VCCPDDRO is 1.347 Volts  
The Maximum VCCPDDRO is 1.348 Volts  
The Minimum VCCPDDRO is 1.348 Volts

XADC(PS) polled example test PASSED

```
*****
**                      DGCB3045 - SCU/GIC Test                **
*****
Scugic Self Test Example PASSED
```

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*****
**                      DGCB3045 - Timer Test                  **
*****
TTC Interrupt Example Test PASSED
```

```
*****
**                      DGCB3045 - Watchdog Timer Test         **
*****
WDT SelfTest Example Test PASSED
```

```
*****
**                      DGCB3045 - Triple Timer Counter Test   **
*****
Timer Interrupt Example PASSED
```

```
*****
**                      DGCB3045 - DCFG Test                   **
*****
DcfgSelfTestExample PASSED
```

```
*****
**                      DGCB3045 - PS XDma W_Intr Test         **
*****
Test round 0
XDmaPs_Example_W_Intr PASSED
```

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*****
```

```

**          DGCB3045 - Clock Frequencies Test          **
*****
Done
CLK_025M: Expected = 25.000, Detected = 24.982  PASS
CLK_111M: Expected = 100.000, Detected = 100.000  PASS
CLK_222M: Expected = 75.000, Detected = 74.994  PASS
CLK_333M: Expected = 110.000, Detected = 110.012  PASS

Clock Frequencies Test PASSED

*****
**          DGCB3045 - PS LED(s) (GPIO Output) Test    **
*****
1 PS LEDs blinked? PS LEDs GpioOutputExample PASSED

*****
**          DGCB3045 - PL LED(s) (GPIO Output) Test    **
*****
1 LEDs blinked? LEDs GpioOutputExample PASSED

*****
**          DGCB3045 - PL Button(s) (GPIO Input) Test  **
*****
Data read from Buttons GPIO Input is 0x4
Buttons GpioInputExample PASSED

*****
**          DGCB3045 - BOARD_ID (GPIO Input) Test      **
*****
Data read from Switches GPIO Input is 0x1
Switches GpioInputExample PASSED

*****
**          DGCB3045 - QSPI SelfTest                   **
*****
QSPI Selftest Example PASSED

*****
**          DGCB3045 - QSPI Flash Polled Example Test  **
*****
FlashID = 0x20 0xBB 0x20
FlashID: B0=0x20: Manufacturer = Micron
FlashID: B1=0xBB: Memory Type = 3V0
FlashID: B1=0x20: Memory Capacity = 512Mb
QSPI FLASH Polled Example Test PASSED

*****
**          DGCB3045 - PS IIC Driver SelfTest          **
*****
PS IIC Driver SelfTest PASSED

*****
**          DGCB3045 - PS IIC Slave Monitor Test       **
*****
Found IIC Slave with address = 0x70: Si5338 Programmable Clock Generator
Found IIC Slave with address = 0x50: 24AA025E48T 2K Serial EEPROM with EUI-48 bit Node Identity
Found IIC Slave with address = 0x6F: ISL12020M RTC
Found IIC Slave with address = 0x57: ISL12020M Battery Backed 128-bit SRAM
PS IIC Slave Monitor Test PASSED

*****
**          DGCB3045 - PS IIC Si5338 Clk Gen Dev_ID Test **
*****
Part Number for Device ID Registers: Si5338A-B
Device ID: B2=0x26: Base part last two digits = 38
Device ID: B3=0x8: Device speed grade = A
Device ID: B0=0x1: Device Revision ID = B

PS IIC Si5338 Clk Gen Dev_ID Test PASSED

*****
**          DGCB3045 - PS IIC EEPROM 24AA025E48T Test  **
*****
EEPROM 24AA025E48T Organizationally Unique Identifier (OUI): 801F12
OUI Byte[0]: Expected = 0x80, Detected = 0x80  PASS
OUI Byte[1]: Expected = 0x1F, Detected = 0x1F  PASS
OUI Byte[2]: Expected = 0x12, Detected = 0x12  PASS
EEPROM 24AA025E48T UID24 (24-Bit Unique Node Address): 0xD0D731
PS IIC EEPROM 24AA025E48T ID Test PASSED

*****
**          DGCB3045 - PS IIC RTC ISL12020M Temperature Test **
*****
RTC ISL12020M Temperature in Centigrade (Kelvin*2): 44 (634 0x027A)
PS RTC ISL12020M Temperature Test PASSED

*****
21 tests total, 21 passed, 0 failed

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