Serial Output

115200 baud | Clear Console | Hyperload Flash | Select firmware.bin | Browse

Write Serial Data Here ...   Upload File CR NL Send

```
--------------------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
I2C slave detected at address: 0x62
I2C slave detected at address: 0x72

entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
           crash : Deliberately crashes the system to demonstrate how ...
             i2c : i2c read 0xDD 0xRR <n>...
        tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------------------
taskinfo
     Name  Status Pr Stack CPU%        Time
     IDLE   ready  0   316   89  14173113 us
     led1 blocked  1   308    0       261 us
     led0 blocked  1   308    0      3049 us
      cli running  3  1320    0      4769 us
Overhead: 1627798 uS
--------------------------------------------------------------------------------
```

Serial Output

57600 baud Clear Console Hyperload Flash Select firmware.bin Browse

Write Serial Data Here ... Upload File ☐ CR ☑ NL Send

```
--------------------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
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entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
            crash : Deliberately crashes the system to demonstrate how ...
              i2c : i2c read 0xDD 0xRR <n>...
         tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------------------
help crash
Deliberately crashes the system to demonstrate how to debug a crash
--------------------------------------------------------------------------------
help i2c
i2c read 0xDD 0xRR <n>
i2c write 0xDD 0xRR <value> <value> ...
--------------------------------------------------------------------------------
help tasklist
Outputs list of RTOS tasks, CPU and stack usage.
tasklist <time>' will display CPU utilization within this time window.
--------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
peripherals_init(): Low level startup
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I2C slave detected at address: 0x38
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entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
            crash : Deliberately crashes the system to demonstrate how ...
              i2c : i2c read 0xDD 0xRR <n>...
         tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------------------
taskinfo
     Name   Status  Pr  Stack  CPU%          Time
     IDLE    ready   0   316    83      8151867 us
     led1  blocked   1   308     0          153 us
     led0  blocked   1   308     0         2941 us
      cli  running   3  1320     0         4775 us
Overhead: 1627799 uS
--------------------------------------------------------------------------------
```

```
-----------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
I2C slave detected at address: 0x62
I2C slave detected at address: 0x72

entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
           crash : Deliberately crashes the system to demonstrate how ...
             i2c : i2c read 0xDD 0xRR <n>...
        tasklist : Outputs list of RTOS tasks, CPU and stack usage....
-----------------------------------------------------------------------
tasklist
      Name   Status Pr Stack CPU%         Time
      IDLE    ready  0   316   95    31778912 us
      led1  blocked  1   308    0         576 us
      led0  blocked  1   308    0        3364 us
       cli  running  3  1320    0        4773 us
Overhead: 1627796 uS
-----------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
I2C slave detected at address: 0x62
I2C slave detected at address: 0x72

entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
            crash : Deliberately crashes the system to demonstrate how ...
              i2c : i2c read 0xDD 0xRR <n>...
         tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------------------
i2c read 0x38 0x41
I2C Read of Slave 0x38
  0x41: 0x00 (0)
--------------------------------------------------------------------------------
i2c read 0x62 0x41
I2C Read of Slave 0x62
  0x41: 0x00 (0)
```

```
--------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
I2C slave detected at address: 0x62
I2C slave detected at address: 0x72

entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
            crash : Deliberately crashes the system to demonstrate how ...
              i2c : i2c read 0xDD 0xRR <n>...
         tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------
i2c read 0x62 0x00 5
I2C Read of Slave 0x62
  0x00: 0x00 (0)
  0x01: 0x00 (0)
  0x02: 0x00 (0)
  0x03: 0x00 (0)
  0x04: 0x00 (0)
--------------------------------------------------------------------
i2c read 0x72 0x10 3
I2C Read of Slave 0x72
  0x10: 0xB4 (180)
  0x11: 0xC1 (193)
  0x12: 0x40 (64)
--------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
crash▯
--------------------------------------------------------------------------------
peripherals_init(): Low level startup
WARNING: SD card could not be mounted

I2C slave detected at address: 0x38
I2C slave detected at address: 0x62
I2C slave detected at address: 0x72
-----------------------------------------
---- WARNING: We crashed previously ----
  PC: 0x00000FE4
  LR: 0x00000FE4
 PSR: 0x610F0000
  R0: 0x00000000
  R1: 0x10000ADA
  R2: 0xDEADBEEF
  R3: 0x00000001

 Find the *.lst file in your _build directory, and lookup
 the PC value to locate which function caused this.
 The LR should be the 'previous' function that was running.
 R0-R3 are parameters to functions.

entry_point(): Entering main()
Starting RTOS

List of commands (use help <name> to get full help if you see ...):
            crash : Deliberately crashes the system to demonstrate how ...
              i2c : i2c read 0xDD 0xRR <n>...
         tasklist : Outputs list of RTOS tasks, CPU and stack usage....
--------------------------------------------------------------------------------
```

```
00001c10 <pxPortInitialiseStack>:
pxPortInitialiseStack():
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:208
    *pxTopOfStack = portINITIAL_XPSR;    /* xPSR */
    1c10:   f04f 7380    mov.w   r3, #16777216   ; 0x1000000
    1c14:   f840 3c04    str.w   r3, [r0, #-4]
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:212
    *pxTopOfStack = ( StackType_t ) portTASK_RETURN_ADDRESS;    /* LR */
    1c18:   4b07         ldr r3, [pc, #28]    ; (1c38 <pxPortInitialiseStack+0x28>)
    1c1a:   f840 3c0c    str.w   r3, [r0, #-12]
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:210
    *pxTopOfStack = ( ( StackType_t ) pxCode ) & portSTART_ADDRESS_MASK;    /* PC */
    1c1e:   f021 0101    bic.w   r1, r1, #1
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:221
    *pxTopOfStack = portINITIAL_EXC_RETURN;
    1c22:   f06f 0302    mvn.w   r3, #2
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:210
    *pxTopOfStack = ( ( StackType_t ) pxCode ) & portSTART_ADDRESS_MASK;    /* PC */
    1c26:   f840 1c08    str.w   r1, [r0, #-8]
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:216
    *pxTopOfStack = ( StackType_t ) pvParameters;    /* R0 */
    1c2a:   f840 2c20    str.w   r2, [r0, #-32]
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:221
    *pxTopOfStack = portINITIAL_EXC_RETURN;
    1c2e:   f840 3c24    str.w   r3, [r0, #-36]
/Users/sarika/workspace/sjtwo-c/projects/lpc40xx_freertos/l1_freertos/portable/gcc/arm_cm4f/port.c:226
}
    1c32:   3844         subs    r0, #68 ; 0x44
    1c34:   4770         bx  lr
    1c36:   bf00         nop
```