

```

50 int main ( void )
51 {
52     /* Initialize all modules */
53     SYS_Initialize ( NULL );
54
55     printf("\n\r-----");
56     printf("\n\r          ADC Sequencer Demo          ");
57     printf("\n\r-----\n\r");
58
59     TC0_TimerStart();
60
61     ADC0_Enable();
62
63     DMAC_ChannelCallbackRegister(DMAC_CHANNEL_0, DMAC_Callback, 0);
64     DMAC_ChannelTransfer(DMAC_CHANNEL_0, (const void *)&ADC0_REGS->ADC_RESULT, &adc_count, sizeof(adc_count));
65
66     while ( true )
67     {
68         /* Maintain state machines of all polled MPLAB Harmony modules. */
69         SYS_Tasks ( );
70
71         if(transferDone == true)
72         {
73             transferDone = false;
74
75             for(int i = 0; i<3;i++)
76             {
77                 inp_voltage[i] = (float)adc_count[i] * ADC_VREF / 4095U;
78             }
79
80             printf("\rADC0 Count = 0x%x, ADC0 Voltage = %d.%02d V, "
81                 "ADC1 Count = 0x%x, ADC1 Voltage = %d.%02d V, "
82                 "ADC2 Count = 0x%x, ADC2 Voltage = %d.%02d V ",
83                 adc_count[0], (int)inp_voltage[0], (int)((inp_voltage[0] - (int)inp_voltage[0])*100.0),
84                 adc_count[1], (int)inp_voltage[1], (int)((inp_voltage[1] - (int)inp_voltage[1])*100.0),
85                 adc_count[2], (int)inp_voltage[2], (int)((inp_voltage[2] - (int)inp_voltage[2])*100.0));
86
87             DMAC_ChannelTransfer(DMAC_CHANNEL_0, (const void *)&ADC0_REGS->ADC_RESULT,
88                 &adc_count, sizeof(adc_count));
89         }
90     }
91
92     /* Execution should not come here during normal operation */
93
94     return ( EXIT_FAILURE );

```