C51 COMPILER V7.04 TICLENGTH 09/30/2003 11:19:56 PAGE 1

C51 COMPILER V7.04, COMPILATION OF MODULE TICLENGTH

OBJECT MODULE PLACED IN ticlength.OBJ

COMPILER INVOKED BY: C:\Keil\C51\BIN\C51.EXE ticlength.c BROWSE DEBUG OBJECTEXTEND

stmt level source

1 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

2 //

3 // Author : ADI - Apps www.analog.com/MicroConverter

4 //

5 // Date : October 2003

6 //

7 // File : ticlength.c

8 //

9 // Hardware : ADuC842/ADuC843

10 //

11 // Description : Demonstrates the use of the Time Interval Counter to

12 // count an interval of 96 hours

13 // A message is displayed constantly on the hyperterminal window

14 // after the time has elapsed.

15 // Note: This code can be chaged to 96second period by

16 // setting Timecon=0x01B; to show its use

17 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

18

19 #include <stdio.h>

20 #include <ADuC842.h>

21

22 sbit LED = 0x0B4;

23

24 void TIC\_int () interrupt 10

25 {

26 1 TIMECON=0x00;

27 1 LED ^= 1;

28 1 }

29

30 void main (void)

31 {

32 1 //Configure the baud rate 9600

33 1 T3CON = 0x83;

34 1 T3FD = 0x2D;

35 1 SCON = 0x52;

36 1

37 1 //Configure Time Interval Counter

38 1 TIMECON = 0x3B; // configure the Time Interval Counter to count a single period in hours

39 1 //set to 0x01B to time 96 seconds

40 1 INTVAL = 0x60; // 96 hours

41 1

42 1 //Configure External Interrupt

43 1 IEIP2 = 0xA4; // enable TIC interrupt

44 1 EA = 1; // enable interrupts

45 1

46 1 PCON = 0x22; // enterpowerdown

47 1 while (1)

48 1 {

49 2 printf("96 Hour Have Elapsed\n");

50 2 }

51 1 }

MODULE INFORMATION: STATIC OVERLAYABLE

CODE SIZE = 47 ----

C51 COMPILER V7.04 TICLENGTH 09/30/2003 11:19:56 PAGE 2

CONSTANT SIZE = 22 ----

XDATA SIZE = ---- ----

PDATA SIZE = ---- ----

DATA SIZE = ---- ----

IDATA SIZE = ---- ----

BIT SIZE = ---- ----

END OF MODULE INFORMATION.

C51 COMPILATION COMPLETE. 0 WARNING(S), 0 ERROR(S)