C51 COMPILER V7.04 TICPD 09/29/2003 17:41:04 PAGE 1

C51 COMPILER V7.04, COMPILATION OF MODULE TICPD

OBJECT MODULE PLACED IN ticpd.OBJ

COMPILER INVOKED BY: C:\Keil\C51\BIN\C51.EXE ticpd.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 : TIC.c

8 //

9 // Hardware : ADuC841

10 //

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

12 // Wake Up the MicroConverter. The Time Interval Counter

13 // is set up to wake up the part after 10 seconds and toggle

14 // the L.E.D. on the evaluation board (P3.4). The part is

15 // then placed back in power down for another 10 seconds

16 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

17

18 #include <stdio.h>

19 #include <ADuC841.h>

20

21 sbit LED = 0x0B4;

22

23 void TIC\_int () interrupt 10

24 {

25 1 LED ^= 1;

26 1 TIMECON = 0x13; // clear TII bit

27 1 }

28

29 void main (void)

30 {

31 1

32 1 //Configure Time Interval Counter

33 1 TIMECON = 0x13; // configure the Time Interval Counter to count seconds

34 1 INTVAL = 0x0A; // 10 seconds

35 1

36 1 //Configure External Interrupt

37 1 IEIP2 = 0xA4; // enable TIC interrupt

38 1 EA = 1; // enable interrupts

39 1

40 1 while (1)

41 1 {

42 2 PCON = 0x22; // power down mode

43 2 }

44 1 }

MODULE INFORMATION: STATIC OVERLAYABLE

CODE SIZE = 29 ----

CONSTANT SIZE = ---- ----

XDATA SIZE = ---- ----

PDATA SIZE = ---- ----

DATA SIZE = ---- ----

IDATA SIZE = ---- ----

BIT SIZE = ---- ----

END OF MODULE INFORMATION.

C51 COMPILER V7.04 TICPD 09/29/2003 17:41:04 PAGE 2

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