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DOS C51 COMPILER V5.50, COMPILATION OF MODULE TIC842

OBJECT MODULE PLACED IN TIC842.OBJ

COMPILER INVOKED BY: C:\ADUC\BIN\C51.EXE TIC842.C DB

stmt level source

1 //tic842.c

2 /\*

3 Author: Eckart Hartmann Date:17/10/2003

4 Description of Software:

5 This program demonstrates the TIC functions

6 <A HREF="/mcc/softw/842/tic/Tic842Cfg.html">TicCfg()</A>,<A HREF="/mcc/softw/842/tic/Tic842Go.html">TicGo

-()</A>,<A HREF="/mcc/softw/842/tic/Tic842Val.html">TicVal()</A>,

7 <A HREF="/mcc/softw/842/tic/Tic842Hr.html">TicHr()</A>,<A HREF="/mcc/softw/842/tic/Tic842Min.html">TicMin

-()</A>,<A HREF="/mcc/softw/842/tic/Tic842Sec.html">TicSec()</A>,<A HREF="/mcc/softw/842/tic/Tic842Hth.html">TicHth()</A>

-,

8 Development progress: <A HREF="/mcc/softw/834/tic/Tic834Df.html">Tic834.df</A>

9 \*/

10 #include"..\kei842.h" //;<A HREF="/mcc/softw/842/Kei842Sfr.html">SFR definition file</A>.

11 #include"..\lib842.h" //;<A HREF="/mcc/softw/842/Lib842H.html">Function and variable declaration file</A>.

12 #include<stdio.h> //"stdio.h"

13 #include<ctype.h> //"ctype.h"

14 #include<stdlib.h> //"stdlib.h"

15

16 char cTFlag; //Flag set by TIC interupt.

17

18 void ticint(void) interrupt 10 using 0

19 {

20 1 cTFlag = 1;

21 1 P34 = !P34;

22 1 // TIMECON &= 0x0fb; //Clear interupt flag.

23 1 }

24

25 void main(void)

26 {

27 1 UrtCfg(0x33,0x832d); //<A HREF="/mcc/softw/842/urt/Urt842Cfg.html">UrtCfg</A> configures UART (9600 baud)

-.

28 1

29 1 printf("\n\nADuC842 TIC Demonstration Program\n");

30 1 printf("=======================================\n");

31 1 TicCfg(0);

32 1 printf("255 hour mode selected and ");

33 1 TicGo(23, 59, 55, 00);

34 1 printf("time set to 23h59m55,00\n");

35 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

36 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

37 1 printf("Wait for 10.5s\n");

38 1 PllDly(10500);

39 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

40 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

41 1 TicVal(10,1);

42 1 printf("Interupt enabled at 10 counts of SEC counter. ");

43 1 cTFlag = 0;

44 1 printf("Interupt flag set to 0. Wait 7s.\n");

45 1 PllDly(7000);

46 1 printf("\tInterupt flag is now %bd.",cTFlag);

47 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

48 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

49 1 printf("Wait 4s for interupt.\n");

50 1 PllDly(4000);

51 1 printf("\tInterupt flag is now %bd.",cTFlag);

52 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

53 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

54 1 TicCfg(1);

55 1 printf("Timer stop and reload.\n");

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56 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

57 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

58 1 printf("After further 4s delay time unchanged.\n");

59 1 PllDly(4000);

60 1 printf("\tTime now: %02bdh%02bdm",TicHr(),TicMin());

61 1 printf("%02bd,%02bd.\n",TicSec(),TicHth());

62 1 printf("\n\n\tThe End.\n\n\n");

63 1 while(1)

64 1 {

65 2 } }

66

MODULE INFORMATION: STATIC OVERLAYABLE

CODE SIZE = 456 ----

CONSTANT SIZE = 395 ----

XDATA SIZE = ---- ----

PDATA SIZE = ---- ----

DATA SIZE = 3 ----

IDATA SIZE = ---- ----

BIT SIZE = ---- ----

END OF MODULE INFORMATION.

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