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DOS C51 COMPILER V5.50, COMPILATION OF MODULE PLL842

OBJECT MODULE PLACED IN PLL842.OBJ

COMPILER INVOKED BY: C:\ADUC\BIN\C51.EXE PLL842.C DB

stmt level source

1 //pll834.c

2 /\*

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

4 Description of Software:

5 This program demonstrates the PLL functions:

6 <A HREF="/~ehartman/842/pll/Pll842Dly.html">PllDly()</A>,

7 <A HREF="/~ehartman/842/pll/Pll842Wcd.html">PllWcd()</A> and

8 <A HREF="/~ehartman/842/pll/Pll842Rcd.html">PllRdd()</A>.

9

10 The test waits 1s to ensure PLL is stable, reads the CD bits and

11 then checks the CD bits. If an error occurs P3.4 pulses every second.

12 Then 0ms, 1ms, 255ms, 256ms, 257ms, 32.6s,33s and 65.535s are measured off with

13 P3.3 toggling after each time period. The periods can thus be checked on an

14 oscilloscope. If the test has passed P3.4 flickers continuously.

15 Development progress: <A HREF="/~ehartman/814/pll/Pll814Df.html">Pll814.df</A>

16 \*/

17 #include"..\kei842.h" //;<A HREF="/~ehartman/842/Kei842Sfr.html">SFR definition file</A>.

18 #include"..\lib842.h" //;<A HREF="/~ehartman/842/Lib842H.html">Function and variable declaration file</A>.

19

20 void PllErr(char cDly);

21 void flicker(void);

22

23 void main(void)

24 {

25 1 PllDly(1000);

26 1 PllWcd(2);

27 1 if(PllRcd()!=2) PllErr(3);

28 1 P34 = 0;

29 1 PllDly(0);

30 1 P34 = !P34;

31 1 PllDly(1);

32 1 P34 = !P34;

33 1 PllDly(255);

34 1 P34 = !P34;

35 1 PllDly(256);

36 1 P34 = !P34;

37 1 PllDly(257);

38 1 P34 = !P34;

39 1 PllDly(32600);

40 1 P34 = !P34;

41 1 PllDly(33000);

42 1 P34 = !P34;

43 1 PllDly(65535);

44 1 P34 = !P34;

45 1 while(1) flicker();

46 1 }

47

48 void PllErr(char cDly)

49 {

50 1 while(1)

51 1 {

52 2 PllDly(cDly\*1000);

53 2 P34 = 1;

54 2 PllDly(100);

55 2 P3 = 0x00;

56 2 } }

57

58 void flicker(void)

59 {

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60 1 char c1;

61 1

62 1 for(c1=0; c1<32; c1++)

63 1 {

64 2 PllDly(30);

65 2 P34 = 1;

66 2 PllDly(30);

67 2 P3 = 0x00;

68 2 } }

69

MODULE INFORMATION: STATIC OVERLAYABLE

CODE SIZE = 174 ----

CONSTANT SIZE = ---- ----

XDATA SIZE = ---- ----

PDATA SIZE = ---- ----

DATA SIZE = 2 2

IDATA SIZE = ---- ----

BIT SIZE = ---- ----

END OF MODULE INFORMATION.

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