EE2361- Lecture 14 10/10/16

> Last lecture was a C code to blight an LED

Recall last lecture 19/5/16 · Compiled a simple blink code with no optimization · Timing bard on instruction execution-two

Suppose we optimize the code Optinization level 1 -> takes more me more on the compiler host mit the frame pointer and try to put variables in registers The code at the assembly level is mow smaller > faster execution time => the timing now incorrect, the LED blinks faster For the same C-code we may have defferent loop times.

1) se a limer het's use Tiver 1 The timer at it's simplient is juit a counter > Look at Timer 1

Discuss Times 1 · C-code that creates a Isec delay based on Tiner)

Timer 1 is a periphered -> liner lis discussed in section 11 of the PIC24FJ64GA002 datasheet (ds39881) - More détail can be found in the PICRMFJ family référence manual (ds 39704) section 14. > Timer are discussed in chapter 5 of Lucio Di Jaino, Programming 16-bil PIC Microcontrollers in C: Flying the ALZY.