

16.317: Microprocessor Systems Design I

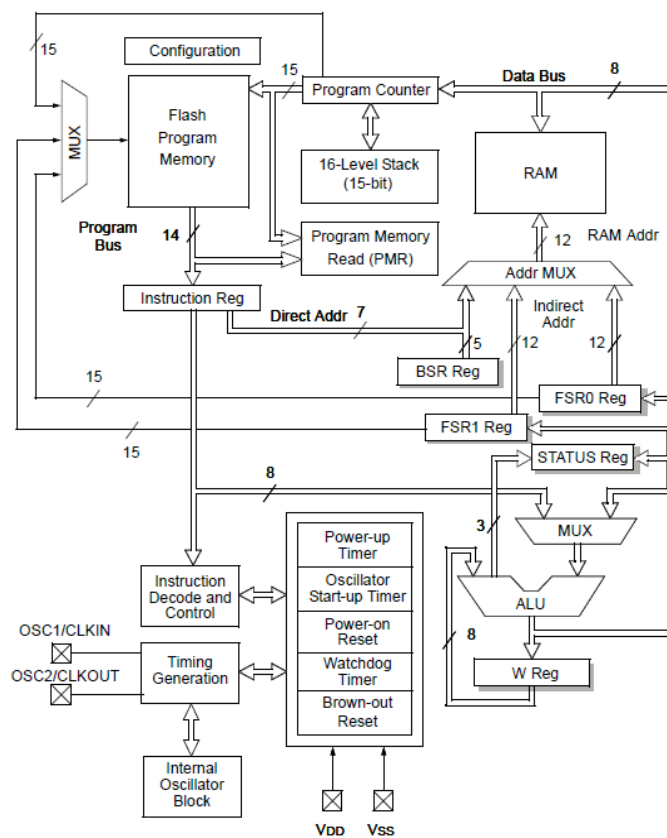
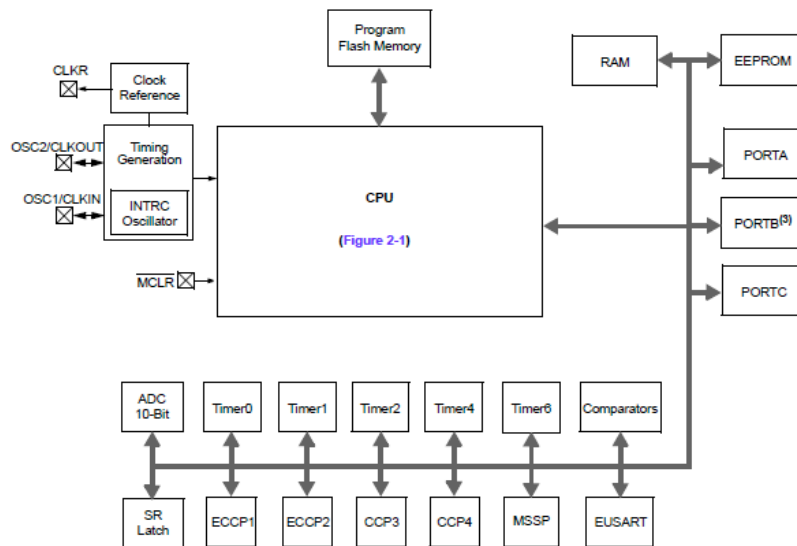
Fall 2015

Lecture 18: Key Questions

October 19, 2015

1. Explain the major differences between a microprocessor and a microcontroller, including the typical features of a microcontroller.
2. Explain the major benefits and limitations of using a microcontroller.

3. Explain the general components of the PIC16F1829 block diagrams shown below.



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7. Briefly describe the contents of the STATUS register.
8. Explain the basic organization of the PIC stack.
9. Explain how different memory banks are accessed in PIC microcontrollers.
10. Explain direct addressing on the PIC microcontrollers.