EECS 249A September 11, 2014

Pre-lab 2

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3.1.2

- 1. What is the CPU clock frequency of the ARM Cortex-A9 processor on myRIO? 667 MHz
- 2. Electrical characteristics of myRIO:
 - a. What is the input voltage range for the controller power source? $6-16\ VDC$
 - b. What is the analog input voltage range for single-ended measurements? 0-5V
 - c. What is the maximum current that may be sourced from a single DIO line? 4mA

3.2.2

- 1. What are the differences between a traditional 'fixed' processor, an FPGA, and a soft-core processor?
 - An FPGA is a field programmable gate array a configurable collection of logic which can be customized to behave in a variety of ways.
 - A soft-core processor is a processor implemented using the FPGA fabric it is customizable.
 - A 'fixed' processor is physically implemented in silicon. It tends to be cheaper, smaller, lower-power and faster than a soft processor.

3.3.2, 3.4.2

No prelab exercises