ECE3221 Lab Report 5

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1. You will first assess the speed of the NIOS-II processor and the performance of the C compiler by timing a small loop. The red LED display will serve to show the contents of a 32-bit counter as it is rapidly incremented in an infinite loop.

Time = 3.15 seconds, r2(counter after 3.15) = 0x004c0456 or 4981846

Counts per second = r2 / Time ≅ 1581538.41 ≅ 1580000 counts per second

2.