

EET364 Microcontroller Systems

OIT Portland West, Winter 2010

Homework Assignment #9
Due March 8

This is actually a lab experiment disguising itself as a homework assignment. But it is simple enough you should be able to get it done quickly.

Using the simulator and the floating point subroutines provided on the CD, measure the time it takes to multiply 2.0 by 2.0, divide 2.0 by 2.0, and add 2.0 to 2.0. Compare each of these to the time it takes to execute the emul, ediv, and add instructions. How many times faster are each of the respective integer operations?

Show the code you used to perform this experiment.