

HOMEWORK #2: Communication Channels

This homework is due by midnight on Thursday, January 29th, 2009.
NO LATE HOMEWORK WILL BE ACCEPTED.

1. Read Chapter 2 and Chapter 3.
2. Complete book problem 2.1.1 through 2.1.3.
 - You must turn in both the circuit and its environment code.
 - Be sure that your environment code tests your code well enough to convince me that your circuit works. Your environment should generate random values to add.
3. **Required for 6750 students and extra credit for 5750 students.**
Complete book problem 2.1.4.
4. Complete Problem 2.7.
 - Original source code is available from the course website.
 - Turn in a modified version of imem.vhd which includes instructions to test your new instructions. Note that there is a minimips assembler on the course website (see README for instructions on how to compile and use).
 - Turn in any other files which you had to modify to support the new instructions. You do not need to turn in files that you did not modify.
 - **ECE/CS 5750 Students:** Modify either version of the MiniMIPS.
 - **ECE/CS 6750 Students:** Modify the pipelined version of the MiniMIPS.
5. In your turnin, please send all vhd files that you used as well as a README file that gives a one line description of all your files and any instructions for compilation and simulation.
6. Code that does not compile will receive only minimal credit.
7. Email your VHDL and README files as attachments to (zipped is okay):
myers@vlsigroup.ece.utah.edu.