UNC Charlotte, Department of Electrical and Computer Engineering

ECE 3/5/6090, Fall 2003, Homework #5, Due: 10/1/03, at the beginning of class (20 points)

1. Read the Russell Massey article "Introduction to Interrupts." In four lines of correct English, summarize Mr. Massey's article. (3 points)

2. What is the maximum interrupt frequency of our M30262 SKP board, based on the analysis presented in the Lecture 5 notes? Show your work for full credit. (Hint: look at the frequency) (2 points)

3. Write a fully functional routine called "initLEDs" that will set up the 30262-SKP board LEDs and turn them all off. (4 points). Include full comments.

4. To make the function in problem 3 work, you will need to ensure some files are available during compile. List all the files that need to be present for the function to compile. (2 points)

5. Using Pseudo code, write an algorithm for a function to perform the matrix multiplication c=a*b. The function call will be: matrixmult(int * a, int * b, int * c, int x, int y, int z). a is of the size x rows, y column, and b is the size y rows and z columns. (9 points)