

**UNCC, Department of Electrical and Computer Engineering**  
**ECGR4101/5101, Fall 2007, Homework #6, Due: 10/22/07, at the beginning of class (20 points)**

0. (1 point) How long did this homework take you?
1. (3 points) Read the Russell Massey article “Introduction to Interrupts.” In four lines of correct English, summarize Mr. Massey’s article.
2. (3 points) Read the Jack Ganssle article “Interrupt Latency.” In four lines of correct English, summarize Mr. Ganssle’s article.
3. (5 points) Write the algorithm to convert a signed integer value to an ASCII string. Assume the value will be between -1024 and 1024. Assume the subroutine will get the integer and an address of the string location. The value returned will be “1” if the subroutine is successful, and a “0” if unsuccessful. The string pointed to by the address will be six characters wide. Include the minus sign, if needed. Don’t forget the null character at the end.
4. (8 points) Write the code for the algorithm in Question 4.