UNCC, Department of Electrical and Computer Engineering ECGR4101/5101, Fall 2006, Homework #6, Due: 10/17/06, at the beginning of class (20 points)

- 0. (1 point) How long did this homework take you?
- 1. (10 points) Clean up the following C function (for converting temperature to Celsius from Fahrenheit) to meet coding guidelines of lecture 9. Assume that valid values of *i* range from -40 to 250. If this value is not valid, return the value TEMP ERROR. Make sure the code is correct!

```
int fc(int i) {
int r;
r = (i-32)*9.0/5.0;
return r;
}
```

- a. Is the code correct? Why or why not?
- b. Change(s) needed to meet 1.1:
- c. Change(s) needed to meet 1.2:
- d. Change(s) needed to meet 8.1:
- e. Change(s) needed to meet 5.1:
- 2. (3 points) Read the Russell Massey article "Introduction to Interrupts." In four lines of correct English, summarize Mr. Massey's article.
- 3. (3 points) Read the Jack Ganssle article "Interrupt Latency." In four lines of correct English, summarize Mr. Ganssle's article.
- 4. (3 points) Read the Stuart Ball article "Introduction to Interrupt Debugging." In four lines of correct English, summarize Mr. Ball's article.