

## Generic Checklist for Code Reviews

### Structure

- ☒ Does the code completely and correctly implement the design?  
Agreed
- ☒ Does the code conform to any pertinent coding standards?  
Discussed -- found some consistent coding standards in the code
- ☒ Is the code well-structured, consistent in style, and consistently formatted?  
Agreed
- ☒ Are there any uncalled or unneeded procedures or any unreachable code?  
Agreed
- ☒ Are there any leftover stubs or test routines in the code?  
Agreed
- ☒ Can any code be replaced by calls to external reusable components or library functions?  
Agreed
- ☒ Are there any blocks of repeated code that could be condensed into a single procedure?  
Discussed -- found a block of code that could be condensed
- ☒ Is storage use efficient?  
Agreed
- ☒ Are symbolics used rather than “magic number” constants or string constants?  
Agreed
- ☒ Are any modules excessively complex and should be restructured or split into multiple routines?  
Agreed

### Documentation

- ☒ Is the code clearly and adequately documented with an easy-to-maintain commenting style?  
Agreed
- ☒ Are all comments consistent with the code?  
Discussed -- found inconsistency in the comments throughout the code

### Variables

- ☒ Are all variables properly defined with meaningful, consistent, and clear names?  
Discussed -- temp could be dealt with in an array and the team could be changed to type
- ☒ Do all assigned variables have proper type consistency or casting?  
Agreed
- ☒ Are there any redundant or unused variables?  
Agreed

## **Arithmetic Operations**

- ☒ Does the code avoid comparing floating-point numbers for equality?  
Agreed
- ☒ Does the code systematically prevent rounding errors?  
Discussed -- not applicable to code
- ☒ Does the code avoid additions and subtractions on numbers with greatly different magnitudes?  
Agreed
- ☒ Are divisors tested for zero or noise?  
Agreed

## **Loops and Branches**

- ☒ Are all loops, branches, and logic constructs complete, correct, and properly nested?  
Agreed
- ☒ Are the most common cases tested first in IF- -ELSEIF chains?  
Discussed -- found that it wasn't possible as this code would be used to parse variuos csvs
- ☒ Are all cases covered in an IF- -ELSEIF or CASE block, including ELSE or DEFAULT clauses?  
Agreed
- ☒ Does every case statement have a default?  
Discussed -- NOT APPLICABLE
- ☒ Are loop termination conditions obvious and invariably achievable?  
Agreed
- ☒ Are indexes or subscripts properly initialized, just prior to the loop?  
Discussed -- found cases of uninitialed values
- ☒ Can any statements that are enclosed within loops be placed outside the loops?  
Agreed
- ☒ Does the code in the loop avoid manipulating the index variable or using it upon exit from the loop?  
Discussed -- found no disagreeing cases upon futher review