

Driver:  
Select load case  
Select component  
Select T-pin component  
Set thresholds for: Green, BU/FRP, Absolute Error, % Error  
Set location of spreadsheets to be read

Read Excel File:  
Joint coordinates on either side of joint  
Orientation (Horizontal, vertical)  
Output components: Local U1/U2/U3 on either side, JS/JW/PFO  
Direction vectors: e1, e3

Read T-Pin Excel File:  
Joint coordinates at T-Pin  
Output components: Length, SRSS(U), U1/U2/U3  
Direction vectors: e1, e2

Read BU/FRP Excel File:  
Output components:  
Top/Left: Absolute error, % error, BU contribution.  
Bottom/Right: Absolute error, % error, BU contribution.

Given:  
Joint coordinates  
Component magnitude  
Joint orientation

Generate:  
Transformation matrix for bubble  
Transformation matrix for label

Given:  
Joint coordinates  
Component name  
Component magnitude  
Joint orientation

Plot:  
Place bubble into correct layer  
Place text at offset location  
with correct orientation

Input:  
Excel File  
Plotting parameters

Output:  
Rhino file