Robert Schneider

Robert.F.Schneider@jpl.nasa.gov

321-225N

818-354-3678

Notes on using the Scheduling/Budget Margin Estimation Tool

* The application has the capability to read delimited .txt, and .dat files, however there is no guarantee that the data will be read correctly, but you can try. I would encourage you to switch over to using Excel.
* This application work best with spreadsheet files. Supported spreadsheet formats are .xls, .xlsb, .xlsm, .xlsx, .xltm, .xltx, .csv, or .ods.
* If there are illegal characters in a cell, then an error window will pop up, or your data wont read correctly. Legal characters are the following: $, weeks, months, days, years, hours, k, m, b, and commas. If you would like to add something to this list or have any questions, let me know.
* After computation, the two graphs displayed are a histogram fit graph, and a cumulative PDF. (If you would like something different, let me know)
* The Cumulative PDF figure displays two things. The main blue curve is a theoretical estimation of the sampled data. The vertical lines are margin values that were extracted empirically from the sampled data. Occasionally you will be able to see a difference in these two lines. This will show you how the theoretical varies from the sampled data.
* If you would like to access the specific theoretical values, you can select the desired point on the graph by clicking on the line. Make sure the data cursor mode button is selected in the toolbar. You can zoom in for more precision (7x zoom will give a continuous selection)
* You can change the number of samples. 1000 samples are generally sufficient. If you increase this number, expect a longer computation.
* The more Data you are evaluating, the longer it will take to compute
* This application was made using Matlab. If you would like to run this in the Matlab command window, I can give you the Matlab files, or I can give you this tool as a packaged app that you can install.
* If your uncertainty is displayed in one column, please ensure that it is in the following format: lower *value* – *upper value* example: $10k – 1302K Also see Example\_File.xls. The values must be separated with a -