SPISPro Overview:

SPISPro is an add-on module on top of SPIVPro waveform viewing/analysis application. It is designed for S-parameters which, is an inevitable portion of platform modeling, measurement or simulation process. It supports many S-Param. analysis functions only available at much more expensive EDA tools. Straight-forward UI components targeted at S-Param. also make SI/PI engineers' analysis work with S-Parameters much easier and efficient.

SPIVPro Overview:

SPIVPro product is a waveform viewer/tool designed for signal/power integrity analysis, measurement and processing. Built on-top of SPISim framework, it provides an unified, straight-forward environment with many general and advanced analysis capabilities. It supports common simulation, lab-measured data or even IBIS models. SPIVPro also has scripting functionality for extended/customized processing. We also provide module customization service to meet your platform analysis challenges.
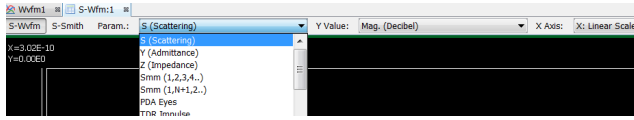
APPLICATION SCOPES:

• S-Parameter waveform/data viewing, measurement in different matrix formats and plots.

• S-Parameter analysis such as cascading, lumping, renormalization and de-embedding etc.

• Batch s-parameter post-processing to report TDR eye, crosstalks, insertion or return losses etc.

MAJOR BENEFITS:

• Built on-top of SPIVPro module, bring all VPro features/benefits to this advanced add-on module.

• Support touch-stone or citi format, view data in plot or matrix format in dedicated waveform/table windows designed for s-parameter.

• >20 S-Parameter analysis functions: mixed-mode (differential) conversion, lumping, combine, extraction, cascading, DC conductivities and more.

• Configurable report generation to batch process multiple S-Parameter in both time and frequency domain and generate summarized report.

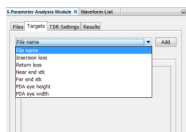• Avoid expensive RF toolbox purchase and save engineering effort in scripting or debugging.

SPISIM

Data Format and Viewer:

SPISPro supports both touch-stone (in .s#p/.ts extensions) and citi (.citi) formats. Once activated, SPISPro module will install several extra menu items on-top of VPro menu system. Among which, S-Waveform window is an enhanced viewer designed for S-param. data viewing. User can switch between different parameters (S, Y, Z or Mixed-mode etc) with different Y-unit (Magnitude, dB etc) and X-Scale (Linear or Log). Data can be plotted in either trace type viewer or Y/Z Smith-charts. Multi-Pane/Page viewing is also built-in as those are in VPro module.

S-Table window enables viewing frequency-specific S-Param. matrix content or frequency-dependent trace value in textual format. User may also visualize matrix value in color-coded fashion. Textual data can be copied to tools like excel or SPIMPro module.
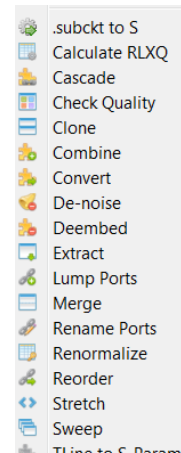
S-Parameter Post-Processing:

SPISPro also includes a dedicated UI

pane for batch mode post-processing of one ore more traces from one or more S-Param. files. Measurements like insertion/return losses or through-type TDR eye hight/width can be extracted (using iFFT) and results will be summarized in a .csv table format for further analysis or modeling.

S-Parameter Analysis:

SPro has many advanced S-Param. analysis functions only available from much more expensive EDA tools or by extensive engineering programming. More than 20 functions like cascade, convert (to mixed-mode or Y/Z), lump ports, re-ordering, renormalizing (to different reference impedance) etc are included. HSpice* input file generation to extract S-Param. via circuit simulation is also supported. These capabilities make SPISPro as an indispensable tool for each SI/PI engineer's daily analysis work. Further customization to meet your company's specific need is also available through our consultation/EDA service.

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http://www.spisim.com/products/spispro/

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