Fast Electromagnetic Analysis Suite (FEMAS)
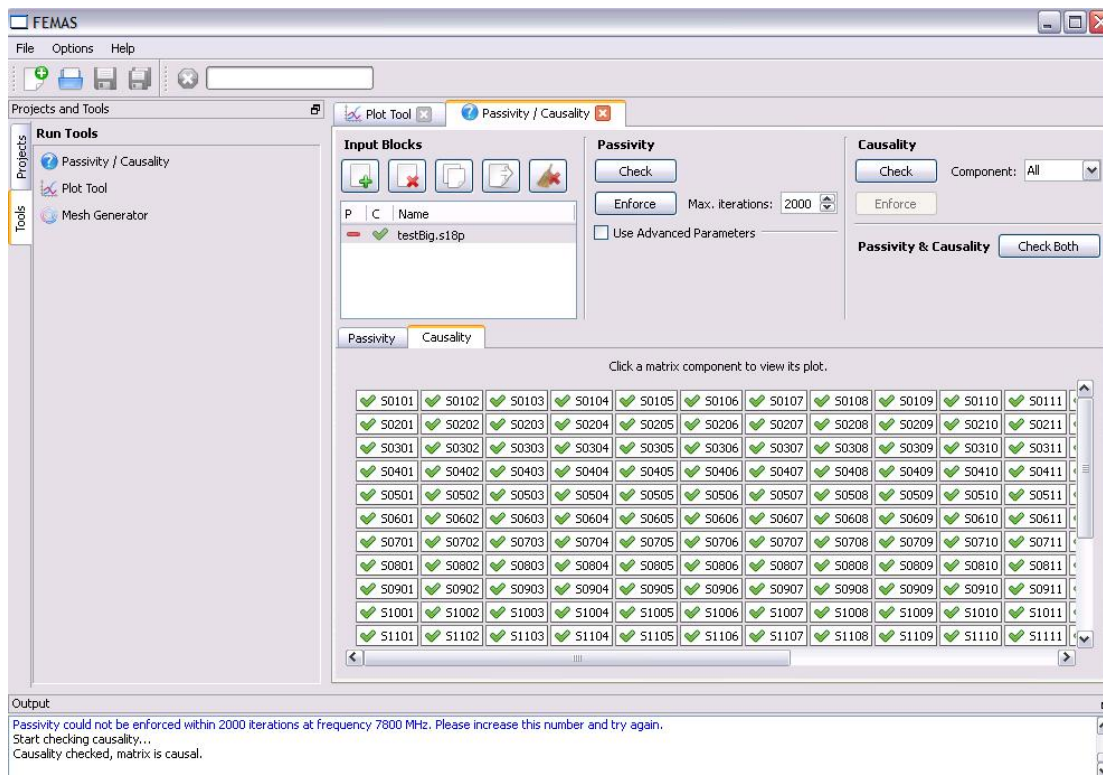
EMS+

Causality and Passivity (CaP) Tool

CaP is an *easy to use* tool to check the passivity and causality of S-parameter files. Both measured results and simulation results can result in non-causal and/or non-passive data. Using such non-passive or non-casual data for signal integrity analysis can result in incorrect results.

Any size S-parameter file can be used. Data is read directly from touchstone files, and the user can perform the analysis on any individual S-parameter or all S-parameters. A matrix of red/green indicators show if a particular S-parameter is causal and/or passive. Users can view the results for each S-parameter to see how badly the S-parameter fails the test.

Enforce Causality and Passivity
If an S-parameter file fails causality and/or passivity, users can select to force causality and then save the corrected file for use in further analysis.

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