





Data

Analyzing the Original Data File



Information Contained in the File



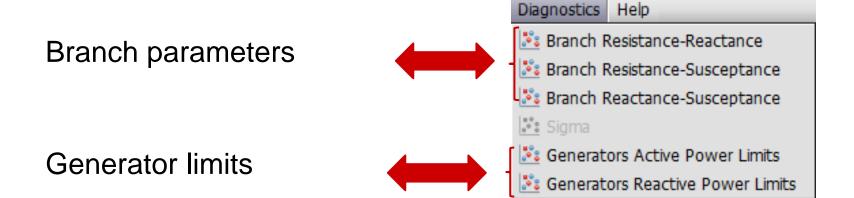
- Network parameters.
 - Branch parameters.
 - Generators limits.
- Voltages and phases from data (previously computed with another program and imported here).
 - Deltas (node flow balance mismatches).
 - Voltages and phases with original.
 - Controls.



Analyzing Network Parameters



In the Diagnostics menu:

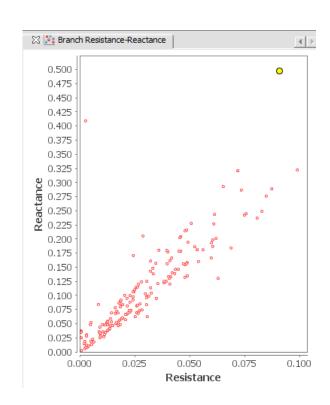


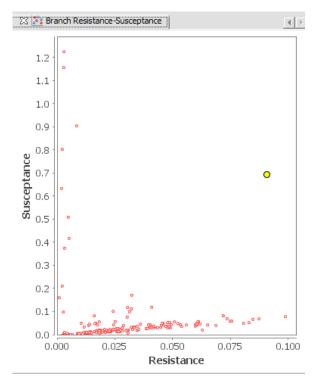


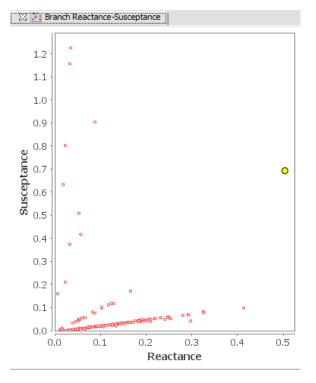
Network Parameters: Branches



Graphically spotting abnormal values: reactance, susceptance, resistance.





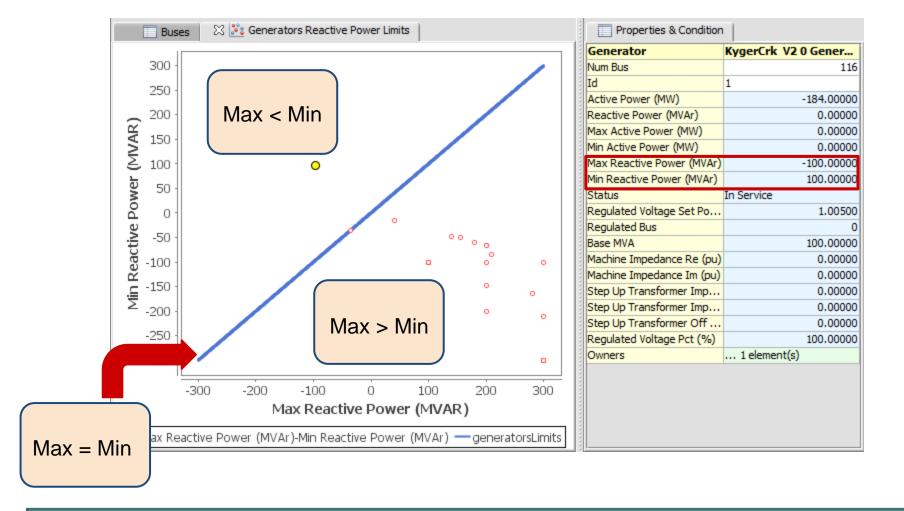




Network Parameters: Generators



Spotting wrong generator limits.



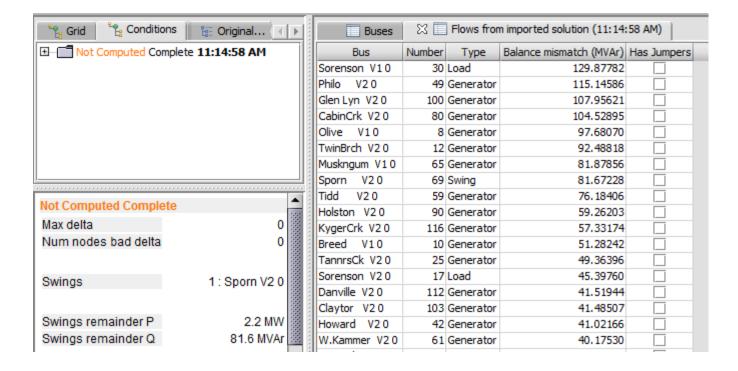


Mismatches in Original Data



Even if the original data comes from a converged problem, there can be *mismatches* (powerflow residue) at some nodes.

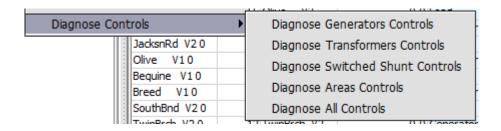
It is not required to run any power flow for this test





Diagnosing of Controls





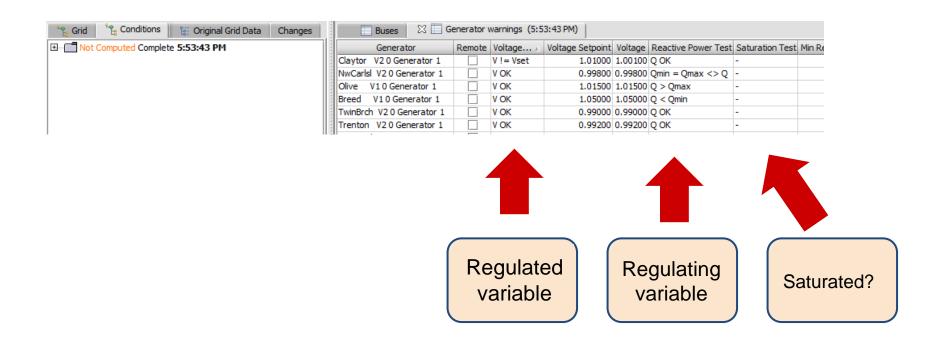
We can check if a control involving generators, transformers, switched shunts, or area transfers has been actually enforced or not in the original file.



Diagnosing Controls



A control is satisfied if the variable being regulated (a.k.a. the setpoint) takes the correct value, and the regulating variable (the resource) is within limits.







HQ Barcelona

Av. de la Torre Blanca, 57 08172 Sant Cugat del Vallès Barcelona Tel. +34 93 504 49 00

San Francisco

48 Terra Vista Ave. # D San Francisco, CA 94115 Tel. 1 415 978 98 00

Fax. 1 415 978 98 10