What is Yeq in the code?

From OpenDSSWiki

Question

The Yeq in the code is hard for me to understand. What is it?

Answer

There is no system variable with that name so I am assuming you are referring to the local variables that appear in various Power Conversion (PC) elements. It is generally the equivalent admittance at rated voltage. This value, or a modified form of it, is used to build the primitive Y matrix for the element. Then that matrix eventually finds its way into the System Y matrix.

So, Yeq would be used to model the Load, Generator, etc for the initial guess at the voltage when the solution is first performed. Then the compensation currents are computed based on the difference between the terminal currents and the currents that would be computed using the primitive Y matrix, or constant impedance model.

--Rdugan 02:15, 30 August 2010 (UTC)

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