THE OPTIMIZATION COMPONENT LIBRARY (GENERAL DESCRIPTION)

Type758: TRNOPT Printer

TRNOPT and the Type758 TRNOPT Printer were written in order to couple the TRNSYS simulation software package with the GENOPT optimization algorithms produced by Lawrence Berkeley National Laboratory (LBNL). GENOPT is a generic optimization algorithm developed by LBNL to interface with black-box simulation programs like TRNSYS. TRNOPT acts as an interface between TRNSYS and the GENOPT Optimizer and streamlines the optimization process. With TRNOPT, the entire process of optimizing the results from a TRNSYS simulation reduces to choosing the TRNSYS input file, choosing the variables which will be varied to optimize the results, and choosing the simulation result to be optimized.

TRNOPT requires that the user register and download the GENOPT optimization engine from Lawrence Berkeley National Laboratory; instructions for doing so are contained in the Technical Description of this component.