

Automating Saber with TCL/TK and AIM: Electrical load extrapolation and schematic generation

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Abstract. - Synopsys Saber uses TCL/TK scripting language to establish a user-friendly and platform independent graphical user interface (GUI). This GUI is customizable and expandable by writing small TCL applets. These applets allow the Saber user to tailor the integrated development environment (IDE) by small scripts to specific modelling or project purposes. By combining TCL/TK with Saber's own scripting language AIM, which is a superset of TCL/TK, it is not only possible to create user-friendly and project-specific GUIs. In fact, it allows to completely automate the modelling process (schematic entry) and can hide the SaberSketch IDE from the user. This paper presents an introduction to this approach on the basis of an EADS research project on future electrical supply networks for civil aircrafts. An electrical load extrapolation is done and then an electrical schematic is auto-generated on the results of the extrapolation.