

CALD: Computer-Aided Logic Design System

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Abstract: This paper presents a new design tool (CALD) for logical circuit design. This system is shown to be powerful because of its relationship with an HDL language and thanks to a user friendly drawing interface which allows both automatic and manual connection drawing processes.

The system is limited to circuit drawing generation while actual physical simulation is not considered.

This paper carries out a comparative analysis of the CALD along with classic similar tools from the market, such as B²Logic, EWB, Circuit Maker.

The discussion is illustrated through Windows environment applications.

The CALD is mainly an education-oriented tool; so synthesis oriented design systems such as Viewlogic, Orcad, Altera or Xilinx Foundation are not dealt with.

Introduction

The starting point of CALD has been the analysis of classic tools for generating logical circuits. From this analysis, good features have been pointed out in order to preserve or improve them, while bad features have been identified with the purpose of elimination or, as far as possible, impact alleviation.

Routing and visualization processes have been improved while intermediate code generation is reviewed for its extension to simulation and synthesis applications.

The CALD system is providing effective interface for capturing circuit schemes with both didactical and industrial applications. In this context, the system is addressed to educational institutions as well as technological design groups.

The innovative CALD feature rests upon the following:

- circuit drawings can be generated from a custom CALD-HDL hardware description language mixed with manual user operations,
- from any compatible circuit drawing CALD automatically generates an HDL description.

CALD-HDL is a structural subset of the VHDL language. As such it is fully portable as a front-end of standard design tools [HEI99][BIO2000].

Standard design tools reviewed in this paper are the following:

- Electronics Workbench, Version 4.0d, Interactive Image Technologies Ltd. 1992-1995.
- Electronics Workbench EDA, Demo, Interactive Image Technologies Ltd. 1992-1996.
- CircuitMaker, Version 3.03, MicroCode Engineering, 1993-1995.
- B-Squared Logic, Version 3.0.8a, Beige Bag Software, 1993.

Friendly interfaces

Nowadays computer systems are available to an increasing number of people. One of the main tasks for the designer is to cope with abilities and needs of the potential users so that fulfilling needs ends in enhancing abilities.

Friendly interface refers to something more powerful than a simple *help* feature. Actually it consists of an environment in which the user can handle tasks with minimum effort and maximum profit.

Within this context the first step for the tool designer is to identify functional requirements and to define a task set in the most

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