

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

^{*} - Supported by CIC (Comisión de Investigaciones Científicas de la Provincia de Buenos Aires)

Computer Aided Logic Design

Ying-Ying Zheng



Computer Aided Logic Design:

The book delves into Computer Aided Logic Design. Computer Aided Logic Design is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Computer Aided Logic Design, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Computer Aided Logic Design
- Chapter 2: Essential Elements of Computer Aided Logic Design
- Chapter 3: Computer Aided Logic Design in Everyday Life
- Chapter 4: Computer Aided Logic Design in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Computer Aided Logic Design. This chapter will explore what Computer Aided Logic Design is, why Computer Aided Logic Design is vital, and how to effectively learn about Computer Aided Logic Design.

3. In chapter 2, the author will delve into the foundational concepts of Computer Aided Logic Design. This chapter will elucidate the essential principles that must be understood to grasp Computer Aided Logic Design in its entirety.

4. In chapter 3, this book will examine the practical applications of Computer Aided Logic Design in daily life. The third chapter will showcase real-world examples of how Computer Aided Logic Design can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Computer Aided Logic Design in specific contexts. The fourth chapter will explore how Computer Aided Logic Design is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Computer Aided Logic Design. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Computer Aided Logic Design.

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