CHAPTER 9

Design Constraints and Optimization

9.1 Overview

Constraints are used to influence the FPGA design implementation tools including the synthesizer, and place-and-route tools. They allow the design team to specify the design performance requirements and guide the tools toward meeting those requirements. The implementation tools prioritize their actions based on the optimization levels of synthesis, specified timing, assignment of pins, and grouping of logic provided to the tools by the design team. The four primary types of constraints include synthesis, I/O, timing and resource constraints.

Synthesis constraints influence the details of how the synthesis of HDL code to RTL occurs. There are a range of synthesis constraints and their content, format and use typically vary between different tools.

I/O constraints (also commonly referred to as pin assignments), are used to assign a signal to a specific I/O (pin) or I/O bank. I/O constraints may also be used to specify the user-configurable I/O characteristics for individual I/Os and I/O banks.

Timing constraints are used to specify the timing characteristics of the design. Timing constraints may affect all internal timing interconnections, delays through logic and LUTs and between flip-flops or registers. Timing constraints can be either global or path-specific.

Area constraints are used to map specific circuitry to a range of resources within the FPGA. Location constraints specify the location either relative to another design element or to a specific fixed resource within the FPGA.

9.2 Design Constraint Management

One of the most important constraint implementation issues is the wide range of potential configuration overlap and interference. **Effective design constraint implementation requires a solid knowledge and understanding of both the system requirements and the current design implementation approach.** Even with solid knowledge of the design, there are a broad range of design constraint combinations that can be applied to the design. Complex inter-relationships can and do occur between the different constraint types. This inter-relationship

Chapter Design Constraints And Optimization

JR Anderson

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