Embedded Systems Design with Platform FPGAs: Principles and Practices

Ronald Sass, Andrew G. Schmidt

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This book will introduce professional engineers and students alike to system development using Platform FPGAs. The focus is on embedded systems but it also serves as a general guide to building custom computing systems. The text describes the fundamental technology in terms of hardware, software, and a set of principles to guide the development of Platform FPGA systems. The goal is to show how to systematically and creatively apply these principles to the construction of application-specific embedded system architectures. There is a strong focus on using free and open source software to increase productivity.

The organization of each chapter in the book includes two parts. The white pages describe concepts, principles, and general knowledge. The gray pages include a technical rendition of the main issues of the chapter and show the concepts applied in practice. This includes step-by-step details for a specific development board and tool chain so that the reader can carry out the same steps on their own. Rather than try to demonstrate the concepts on a broad set of tools and boards, the text uses a single set of tools (Xilinx Platform Studio, Linux, and GNU) throughout and uses a single developer board (Xilinx ML-510) for the examples.

- Explains how to use the Platform FPGA to meet complex design requirements and improve product performance
- Presents both fundamental concepts together with pragmatic, step-by-step instructions for building a system on a Platform FPGA
- Includes detailed case studies, extended real-world examples, and lab exercises

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