

Code Generation for Embedded Processors: An Introduction

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1 New, flexible target technologies

As the tendency towards more complex electronic systems continues, many of these systems are equipped with embedded processors. For example, such processors can be found in cars, and in audio-, video-, and telecommunication-equipment. Essential advantages of these processors include their high flexibility, short design time and (in the case of off-the-shelf processors) full-custom layout quality. Furthermore, they allow an easy implementation of optional product features as well as easy design correction and upgrading. Furthermore, processors are frequently used in cases where the systems must be extremely *dependable*¹ [32]. In such cases, the re-use of the design of an off-the-shelf processor greatly simplifies dependability analysis.

This contrasts with the limitations of *application-specific circuits (ASICs)*: due to their low flexibility, the cost for the design and fabrication of ASICs is still very high. Furthermore, this low flexibility makes a short time-to-market more difficult to achieve. Dependability analysis costs may even exclude ASICs as a target technology.

A short time-to-market can be achieved with *field programmable gate arrays (FPGAs)*. But FPGAs are not area-efficient. For example, multipliers require a large proportion of the available area. Furthermore, FPGAs with programmable interconnect usually do not allow high clocking frequencies.

Embedded processors come in different types. We will classify them according to three different criteria: flexibility of the architecture, architectural features for certain application domains, and the form in which the processor is available. The three criteria can be used as dimensions to form a 3D processor type space (see fig. 1).

The meaning of these dimensions and their values is as follows:

1. *Architectural features for certain application domains*

Processors can be designed for restricted or for larger classes of application areas. The two cases considered here are: “*General purpose architecture (GPA)*” and “*digital signal processors (DSPs)*”.

The term “general purpose processor” is used for processors which do not have particular support for special applications, such as Fourier transforms or digital filtering.

¹This is a reprint of material from the book “P. Marwedel, G. Goossens (ed.): Code Generation for Embedded Processors, Kluwer, June 1995”. Kluwer copyright restrictions apply. Refer to the book for correct cross-references to other contributions in the book. This work has been supported by the Commission of the European Communities under contract BRA 9138 (CHIPS).

²The term *dependability* includes all aspects of system safety, for example: absence of design faults, comprehensive testing after manufacturing, reliable components, and error-detection and recovery mechanisms.

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Table of Contents Code Generation For Embedded Processors

1. Understanding the eBook Code Generation For Embedded Processors
 - The Rise of Digital Reading Code Generation For Embedded Processors
 - Advantages of eBooks Over Traditional Books
2. Identifying Code Generation For Embedded Processors
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Code Generation For Embedded Processors
 - User-Friendly Interface
4. Exploring eBook Recommendations from Code Generation For Embedded Processors
 - Personalized Recommendations
 - Code Generation For Embedded Processors User Reviews and Ratings
 - Code Generation For Embedded Processors and Bestseller Lists
5. Accessing Code Generation For Embedded Processors Free and Paid eBooks

- Code Generation For Embedded Processors Public Domain eBooks
 - Code Generation For Embedded Processors eBook Subscription Services
 - Code Generation For Embedded Processors Budget-Friendly Options
6. Navigating Code Generation For Embedded Processors eBook Formats
 - ePub, PDF, MOBI, and More
 - Code Generation For Embedded Processors Compatibility with Devices
 - Code Generation For Embedded Processors Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Code Generation For Embedded Processors
 - Highlighting and Note-Taking Code Generation For Embedded Processors
 - Interactive Elements Code Generation For Embedded Processors
 8. Staying Engaged with Code Generation For Embedded Processors
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Code Generation For Embedded Processors
 9. Balancing eBooks and Physical Books Code Generation For Embedded Processors
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Code Generation For Embedded Processors
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Code Generation For Embedded Processors
 - Setting Reading Goals Code Generation For Embedded Processors
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Code Generation For Embedded Processors
 - Fact-Checking eBook Content of Code Generation For Embedded Processors
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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