

# Code Generation for Embedded Processors: An Introduction

P. Marwedel

## 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*<sup>1</sup> [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.

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<sup>1</sup>This 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).

<sup>2</sup>The 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.

# Code Generation For Embedded Processors

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