

On Domain-Specific Languages Reengineering

Christophe Alias and Denis Barthou

Laboratoire PRISM, Université de Versailles, France.
Christophe.Alias@prian.uvsq.fr
Denis.Barthou@prian.uvsq.fr

Abstract. Domain-specific languages (DSL) provides high-level functions making applications easier to write, and to maintain. Unfortunately, many applications are written from scratch and poorly documented, which make them hard to maintain. An ideal solution should be to rewrite them in a appropriate DSL. In this paper, we present **TeMa** (Template Matcher), an automatic tool to recognize high-level functions in source code. Preliminary results show how **TeMa** can be used to reformulate Fortran code into Signal Processing Language (SPL) used in SPIRAL. This opens new possibilities for domain-specific languages.

1 Introduction

With domain-specific languages, algorithms are described in a more abstract and compact way than with traditional imperative programming languages. Expressing algorithms at a higher level of abstraction adds portability and improves programmer productivity for code writing and maintenance. Moreover, the higher the representation of the program, the more aggressive the compiler optimizations can be: for instance a generative approach can yield from a mathematical formula in SPIRAL [16] a finely tuned code for a particular architecture, exploring both algorithmic variations and traditional code optimizations. The same benefit appears also for code verification.

However, this approach assumes that the user specifies his algorithm using a domain-specific language. Starting from an existing C or Fortran program and finding in it fragments that correspond to domain specific templates would be desirable but seems difficult to obtain. The reason is that it amounts to algorithm recognition, an old problem in computer science. Basically, one would like a compiler or analyzer to automatically find that lines 10 to 23 are an implementation of a DFT for instance. A natural solution would be to search the code for patterns of known functions (matrix-matrix product, tensor product or direct sum for the DFT). Such a facility would enable many important techniques:

- Program comprehension and reverse engineering: we can rewrite part of the code with a higher level language, enhancing code maintenance and portability.
- Program optimisation: if we have the necessary items in our library or if we can use a generative approach, we may replace lines 10 to 23 by an

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France,Jean-Marc Jézéquel,Bernhard Rumpe,2015 The development of modern complex software intensive systems often involves the use of multiple DSMLs that capture different system aspects Supporting coordinated use of DSMLs leads to what we call the globalization of modeling languages that is the use of multiple modeling languages to support coordinated development of diverse aspects of a system In this book a number of articles describe the vision and the way globalized DSMLs currently assist integrated DSML support teams working on systems that span many domains and concerns to determine how their work on a particular aspect influences work on other aspects Globalized DSMLs offer support for communicating relevant information and for coordinating development activities and associated technologies within and across teams in addition to providing support for imposing control over development artifacts produced by multiple teams DSMLs can be used to support socio technical coordination by providing the means for stakeholders to bridge the gap between how they perceive a problem and its solution and the programming technologies used to implement a solution They also support coordination of work across multiple teams DSMLs developed in an independent manner to meet the specific

needs of domain experts have an associated framework that regulates interactions needed to support collaboration and work coordination across different system domains The articles in the book describe how multiple heterogeneous modeling languages or DSMLs can be related to determine how different aspects of a system influence each other The book includes a research roadmap that broadens the current DSML research focus beyond the development of independent DSMLs to one that provides support for globalized DSMLs

Domain-specific Languages (DSL) David Sheridan Wile, J. Christopher Ramming, 1999

Domain-Specific Languages in Practice Antonio Bucchiarone, Antonio Cicchetti, Federico Ciccozzi, Alfonso Pierantonio, 2021-06-24 This book covers several topics related to domain specific language DSL engineering in general and how they can be handled by means of the JetBrains Meta Programming System MPS an open source language workbench developed by JetBrains over the last 15 years The book begins with an overview of the domain of language workbenches which provides perspectives and motivations underpinning the creation of MPS Moreover technical details of the language underneath MPS together with the definition of the tool s main features are discussed The remaining ten chapters are then organized in three parts each dedicated to a specific aspect of the topic Part I MPS in Industrial Applications deals with the challenges and inadequacies of general purpose languages used in companies as opposed to the reasons why DSLs are essential together with their benefits and efficiency and summarizes lessons learnt by using MPS Part II about MPS in Research Projects covers the benefits of text based languages the design and development of gamification applications and research fields with generally low expertise in language engineering Eventually Part III focuses on Teaching and Learning with MPS by discussing the organization of both commercial and academic courses on MPS MPS is used to implement languages for real world use Its distinguishing feature is projectional editing which supports practically unlimited language extension and composition possibilities as well as a flexible mix of a wide range of textual tabular mathematical and graphical notations The number and diversity of the presented use cases demonstrate the strength and malleability of the DSLs defined using MPS The selected contributions represent the current state of the art and practice in using JetBrains MPS to implement languages for real world applications

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