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Implementing Domain-Specific Languages with LLVM

Implementing Domain-Specific Languages with LLVM David Chisnall February 5, 2012 What are Domain-Specific Languages? UNIX bc / dc Graphviz JavaScript AppleScript / Visual Basic for Applications Firewall Iiter rules EMACS Lisp Simple language for implementing cellular automata

JTS: Tools for Implementing Domain-Specific Languages

JTS: Tools for Implementing Domain-Specific Languages Don Batory, Bernie Lofaso, and Yannis Smaragdakis Department of Computer Sciences The University of Texas at Austin Austin, Texas 78712 {batory, bernie, smaragd}@csutexas.edu Abstract1 The Jakarta Tool Suite (JTS) aims to reduce substantially the cost of generator development by providing

Domain Specific Languages for Business Process Management ...

implementing tools for domain specific languages with an orientation to the business process management It is not enough to build just an editor for the language, various specific services need to be provided as well In this paper, we describe our approach how to develop new domain specific languages for the mentioned field and their support

Implementing Domain Specific Languages With Xtext And Xtend

implementing domain specific languages with xtext and xtend, but end stirring in harmful downloads Rather than enjoying a fine PDF taking into account a mug of coffee in the afternoon, otherwise they juggled subsequent to some harmful virus inside their computer implementing domain specific languages with

IMPLEMENTING DOMAIN-SPECIFIC L HETEROGENEOUS P ...

implementing domain-specific languages for heterogeneous parallel computing domain-specific languages offer a solution to the performance and the productivity issues in heterogeneous computing systemsthe delite compiler framework simplifies the process of building embedded parallel dslsdsl developers can implement domain-specific operations by extending the dsl

Domain Specific Languages - CS448H - domain-specific ...

Domain Specific Languages* Paul Hudak Department of Computer Science Yale University December 15, 1997 1 Introduction Whenmostpeople think ofaprogramminglanguage they think ofageneral pur- pose language: one capable of programming any application with ...

Everything old is new again: Quoted Domain Specific Languages

Keywords domain-specific language, DSL, EDSL, QDSL, em-bedded language, quotation, normalisation, subformula property 1 Introduction Don't throw the past away You might need it some rainy day Dreams can come true again When everything old is new again - Peter Allen and Carole Sager Implementing domain-specific languages (DSLs) via quotation

Everything Old Is New Again: Quoted Domain-Specific ...

Keywords domain-specific language, DSL, EDSL, QDSL, em-bedded language, quotation, normalisation, subformula principle 1 Introduction Implementing domain-specific languages (DSLs) via quotation is one of the oldest ideas in computing, going back at least to Mc-Carthy's Lisp, which was introduced in 1960 and had macros as early as 1963

OptiML: An Implicitly Parallel Domain-Specific Language for ML

(domain decomposition) Automatically synchronize parallel iteration over domain-specific data structures Exploit structured communication patterns (nodes in a graph may only access neighbors, etc) Defer as many implementation-specific details to compiler and runtime as ...

Design Guidelines for Domain Specific Languages

Design Guidelines for Domain Specific Languages Gabor Karsai Institute for Software Integrated Systems Vanderbilt University Design Guidelines for Domain Specific Languages In: Proceedings of the 9th OOPSLA Workshop on Domain-Specific Modeling (DSM' 09) lines for implementing DSLs are given in [10] These focus

EMBEDDED DOMAIN-SPECIFIC LANGUAGES IN PROLOG

A domain-specific language is a language tailored to a specific application domain and precisely capture the domain's semantics It can be implemented by the traditional or by the embedded approach

The Open Domain-Specific Architecture - Netronome

425 Domain-Specific Languages 34 5 O p e n D o m a i n -S p e c i f i c A r c h i t e c t u r e (O D S A) 3 5 domain-specific SoCs for many infrastructure applications including several neural network accelerators [11, 17], cloud processing [30], security processing and switching fabrics critical to successfully implementing chiplets, inter

UDM: An Infrastructure for Implementing Domain-Specific ...

UDM: An Infrastructure for Implementing Domain-Specific Modeling Languages Endre Magyari, Arpad Bakay, Andras Lang, Tamas Paka, Attila

Vizhanyo, Aditya Agarwal, and Gabor Karsai Institute for Software-Integrated Systems Vanderbilt University Nashville, TN 37235, USA Abstract
Domain-specific modeling languages amortize the cost of the

Xtext User Guide - Eclipse

No matter if you want to create a small textual domain-specific language (DSL) or you want to implement a full-blown general purpose programming language With Xtext you can create your very own languages in a snap Also if you already have an existing language but it ...

Domain-Specific Languages: An Annotated Bibliography

Although many domain-specific languages have been de-signed and used over the years, the systematic study of domain-specific languages has only started more recently This bibliography has grown out of our own research needs to make an inventory of the field and provides references to re-search that deals with the following topics

Designing extensible, domain-specific languages for ...

Designing extensible, domain-specific languages for mathematical diagrams Katherine Ye with Keenan Crane Jonathan Aldrich Josh Sunshine Source: "An Algorithm to Generate Impossible Art?", Danny Tarlow 2 Off the Beaten Track '17

Using Domain-Specific Languages For Analytic Graph ...

Domain-Specific Languages for Graphs There is no standardization for graph languages yet and so there are multiple graph specific DSLs Our system adopts two DSLs - Green-Marl [24] and PGQL - as front-ends with which users describe their custom graph algorithms or pattern-matching queries Note that a few other DSLs have been

The Implementation of PARALLEL FUNCTIONAL ARRAY ...

DOMAIN SPECIFIC LANGUAGES Are restricted languages -Generally have specialised features to a particular application domain -HTML, Matlab, SQL, postscript, LaTeX ... Embedded domain specific languages -Implemented as libraries in the host language, so can integrate with the host language -Reuse the syntax of the host language (as well as parser,

An implementation approach to achieve MetaModel ...

An implementation approach to achieve MetaModel independence in Domain Specific Model Manipulation Languages Jerónimo Irazábal 1,2,3, Gabriela Pérez , Claudia Pons1,2,3 and Roxana Giandini 1LIFIA, Facultad de Informática, Universidad Nacional de La Plata 2CONICET, Consejo Nacional de Investigaciones Científicas y Técnicas 3UAI, Universidad Abierta Interamericana