



## LLVM Essentials (Paperback)

By Suyog Sarda, Mayur Pandey

Packt Publishing Limited, United Kingdom, 2015. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Become familiar with the LLVM infrastructure and start using LLVM libraries to design a compiler About This Book \* Learn to use the LLVM libraries to emit intermediate representation (IR) from high-level language \* Build your own optimization pass for better code generation \* Understand AST generation and use it in a meaningful way Who This Book Is For This book is intended for those who already know some of the concepts of compilers and want to quickly get familiar with the LLVM infrastructure and the rich set of libraries that it provides. What You Will Learn \* Get an introduction to LLVM modular design and LLVM tools \* Convert frontend code to LLVM IR \* Implement advanced LLVM IR paradigms \* Understand the LLVM IR Optimization Pass Manager infrastructure and write an optimization pass \* Absorb LLVM IR transformations \* Understand the steps involved in converting LLVM IR to Selection DAG \* Implement a custom target using the LLVM infrastructure \* Get a grasp of C's frontend clang, an AST dump, and static analysis In Detail LLVM is currently...



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