Mindluster Platform

About the course Compiler optimization techniques

Course Presenter : 0612 TV w NERDfirst

Compiler optimization, in this course we will learn about the Compiler Optimization Course, designed to explore techniques for improving the efficiency of code generated by compilers. Starting with the fundamentals, weâ€™ll cover key optimization concepts such as dead code elimination, constant folding, and loop unrolling, along with advanced strategies like data flow analysis, register allocation, and vectorization. The course will delve into both local and global optimizations, providing a deep understanding of how compilers enhance performance, reduce memory usage, and optimize for specific hardware architectures. Through practical examples, youâ€™ll learn how to implement and evaluate these optimizations in real-world scenarios. By the end of the course, youâ€™ll have the skills to design and analyze compiler optimizations, ensuring your code runs faster and more efficiently on modern computing platforms. 0612 TV w NERDfirst

Programming Category's Courses

Course Lesson(69)

Lesson 1 : **Serialization A Crash Course**

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Lesson 3 : **Node Based Data Structures in Java**

Lesson 4 : **Event Driven Programming**

Lesson 5 : **Abstraction A Programming Concept**

Lesson 6 : **Introduction to Greasemonkey**

Lesson 7 : **Stacks and Queues**

Lesson 8 : **Eel for Python Quick and Easy GUI**

Lesson 9 : **Eel for Python Quick and Easy GUI**

Lesson 10 : **Build a Brute Force Sudoku Solver**

Lesson 11 : **A Database Crash Course**

Lesson 12 : **Compiler Optimization**

Lesson 13 : **Base64 Representation**

Lesson 14 : **GPU Computing**

Lesson 15 : **Voronoi Diagrams Friday Minis 141**

Lesson 16 : **Sine Waves**

Lesson 17 : **Animate Text Fields in Blender with Python**

Lesson 18 : **Program a Particle System in 30 Minutes**

Lesson 19 : **Building an Arduino Light Gun**

Lesson 20 : **What is Fizz Buzz**

Lesson 21 : **Arduino ShiftOut Friday Minis 206**

Lesson 22 : **4 pin Pushbuttons Friday Minis 214**

Lesson 23 : **Linked Lists**

Lesson 24 : **Markov Chains Make a Chatting AI**

Lesson 25 : **Integrated Circuits w Shift Register demo**

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Lesson 27 : **Koch Curves**

Lesson 28 : **Programming an Exercise Bike**

Lesson 29 : **Bubble Sort on Little Man Computer**

Lesson 30 : **Websockets Creating a Chat webapp**

Lesson 31 : **Little Man Computer Friday Minis 157**

Lesson 32 : **How to Reason about Recursion**

Lesson 33 : **Easily constrain values Friday Minis 203**

Lesson 34 : **A Web Development Roadmap**

Lesson 35 : **Memo Tables and the Magic of Higher Order Functions in Python**

Lesson 36 : **Top Down vs Bottom Up Friday Minis 188**

Lesson 37 : **Code Preprocessing**

Lesson 38 : **Build a queue from two stacks**

Lesson 39 : **Event Loops Their Management**

Lesson 40 : **Overloading in Programming**

Lesson 41 : **Searching For Help Tips for Coders**

Lesson 42 : **Searching For Help Tips for Coders**

Lesson 43 : **CSS Sprites Yet another Web Optimization**

Lesson 44 : **Interpolation Friday Minis 164**

Lesson 45 : **Here s a smart one liner for you**

Lesson 46 : **Beware of this basic Python pitfall**

Lesson 47 : **Autohotkey Hotstrings Friday Minis 163**

Lesson 48 : **Code Golf Friday Minis 232**

Lesson 49 : **Buffer Attacks**

Lesson 50 : **Programming Typing Conventions**

Lesson 51 : **Finite State Machines Friday Minis 168**

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Lesson 53 : **Bookmarklets Friday Minis 217**

Lesson 54 : **Asking Questions Online**

Lesson 55 : **Logical Short Circuiting**

Lesson 56 : **Java Varargs Friday Minis 191**

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Lesson 61 : **2D Arrays Revisited Friday Minis 225**

Lesson 62 : **The Increment Operator Friday Minis 154**

Lesson 63 : **Question Mark Operator Friday Minis 151**

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Lesson 66 : **Decrement While Friday Minis 219**

Lesson 67 : **Formatting Strings Friday Minis 229**

Lesson 68 : **2D Arrays Friday Minis 222**

Lesson 69 : **Returning to Parameters Friday Minis 226**

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