



# EDO UNIVERSITY IYAMHO

## Department of Computer Science

### CMP 312 Compiler Design and Implementation

**Instructor:** Dr. Bunakiye Japheth, email: [japheth.bunakiye@edouniversity.edu.ng](mailto:japheth.bunakiye@edouniversity.edu.ng)

Lectures: Tuesday, 8am – 12.10 pm, LT1, phone: (+234) 8061324564

Office hours: Wednesday, 2.30 to 3.30 PM (just before class), Office: ICT Floor2 Rm 4

**Teaching Assistants:** Mr. Uddin Osemengbe.

**Description:** This course is intended to give the students a thorough knowledge of compiler design techniques and tools for modern computer programming languages. This course covers advanced topics such as data-flow analysis and control-flow analysis, code generation and program analysis and optimization.

**Prerequisites:** Students should be familiar with the concepts in theory of computation (e.g., regular sets and context-free grammars); design and analysis of algorithms (e.g., asymptotic complexity, divide and conquer and dynamic-programming techniques); and have strong programming skills using dynamic, pointer-based data structures either in C or C++ programming languages. Students should also be familiar with basic concepts of imperative programming languages such as scoping rules, parameter passing disciplines and recursion.

**Assignments:** We expect to have 5 individual homework assignments throughout the course in addition to a Mid-Term Test and a Final Exam. Home works are due at the beginning of the class on the due date. Home works are organized and structured as preparation for the midterm and final exam, and are meant to be a studying material for both exams. There will also be 3 individual programming projects in this class. The goal of these projects is to have the students experiment with very practical aspects of compiler construction and program analysis.

**Grading:** We will assign 10% of this class grade to home works, 10% for the programming projects, 10% for the mid-term test and 70% for the final exam. The Final exam is comprehensive.

**Textbook:** The recommended textbook for this class are as stated:

Title: *Compilers: Principles, Techniques and Tools*

Authors: A. Aho, M. Lam, R. Sethi and J. Ullman

Publisher: Addison-Wesley 2nd edition

ISBN-13: 978-0321547989

Year: 2007

Title: *Engineering a Compiler*

Authors: Keith Cooper and Linda Torczon,

Publisher: Morgan-Kaufman Publishers

ISBN: 1-558600-698-X

# Design And Implementation Of Compiler Design And Implementation Of Compiler

**Michael Brown**

## **Design And Implementation Of Compiler Design And Implementation Of Compiler:**

**Advanced Compiler Design Implementation** Steven Muchnick,1997-08 Computer professionals who need to understand advanced techniques for designing efficient compilers will need this book It provides complete coverage of advanced issues in the design of compilers with a major emphasis on creating highly optimizing scalar compilers It includes interviews and printed documentation from designers and implementors of real world compilation systems   **Advanced Compiler Design and Implementation** Steven S. Muchnick,1997   **Compiler Design and Implementation** Volker Sasse,1988-01-01

**A Retargetable C Compiler** David Hanson,1995-01-01   **A Retargetable C Compiler** Christopher W. Fraser,David R. Hanson,1995 This book brings a unique treatment of compiler design to the professional who seeks an in depth examination of a real world compiler Chris Fraser of AT a target independent front end and three target dependent back ends are packaged as a single program designed to run on three different platforms Rather than transfer code into a text file the book and the compiler itself are generated from a single source to ensure accuracy   **Compiler Design** Ajit Singh,2020-08-31 This book is an introduction to the field of compiler construction It combines a detailed study of the theory underlying the modern approach to compiler design together with many practical examples and a complete description with source code of a compiler for a small language It is specifically designed for use in an introductory course on compiler design or compiler construction at the advanced undergraduate level This textbook is intended for an introductory course on Compiler Design suitable for use in an undergraduate programme in computer science or related fields This book undertakes to provide the proper balance between theory and practice and to provide enough actual implementation detail to give a real flavor for the techniques without overwhelming the reader In this text I provide a complete compiler for a small language written in C and developed using the different techniques studied in each chapter In addition detailed descriptions of coding techniques for additional language examples are given as the associated topics are studied Finally each chapter concludes with an extensive set of exercises which are divided into two sections The first contains those of the more pencil and paper variety involving little programming The second contains those involving a significant amount of programming Simply In Depth   **A Practical Approach to Compiler Construction** Des Watson,2017-04-10 This book provides a practically oriented introduction to high level programming language implementation It demystifies what goes on within a compiler and stimulates the reader's interest in compiler design an essential aspect of computer science Programming language analysis and translation techniques are used in many software application areas A Practical Approach to Compiler Construction covers the fundamental principles of the subject in an accessible way It presents the necessary background theory and shows how it can be applied to implement complete compilers A step by step approach based on a standard compiler structure is adopted presenting up to date techniques and examples Strategies and designs are described in detail to guide the reader in implementing a translator for a programming language A simple high level language loosely based on C is used to illustrate

aspects of the compilation process Code examples in C are included together with discussion and illustration of how this code can be extended to cover the compilation of more complex languages Examples are also given of the use of the flex and bison compiler construction tools Lexical and syntax analysis is covered in detail together with a comprehensive coverage of semantic analysis intermediate representations optimisation and code generation Introductory material on parallelisation is also included Designed for personal study as well as for use in introductory undergraduate and postgraduate courses in compiler design the author assumes that readers have a reasonable competence in programming in any high level language

Introduction to Compiler Design Torben Ægidius Mogensen,2023-12-10 The third edition of this textbook has been fully revised and adds material about the SSA form polymorphism garbage collection and pattern matching It presents techniques for making realistic compilers for simple to intermediate complexity programming languages The techniques presented in the book are close to those used in professional compilers albeit in places slightly simplified for presentation purposes Further reading sections point to material about the full versions of the techniques All phases required for translating a high level language to symbolic machine language are covered and some techniques for optimising code are presented Type checking and interpretation are also included Aiming to be neutral with respect to implementation languages algorithms are mostly presented in pseudo code rather than in any specific language but suggestions are in many places given for how these can be realised in different language paradigms Depending on how much of the material from the book is used it is suitable for both undergraduate and graduate courses for introducing compiler design and implementation

*Programming Language Design and Implementation* Torben Ægidius Mogensen,2022-11-22 This textbook is intended as a guide for programming language designers and users to better help them understand consequences of design decisions The text aims to provide readers with an overview of the design space for programming languages and how design choices affect implementation It is not a classical compilers book as it assumes the reader is familiar with basic compiler implementation techniques nor is it a traditional comparative programming languages book because it does not go into depth about any particular language instead taking examples from a wide variety of programming languages to illustrate design concepts Readers are assumed to already have done at least a bit of programming in functional imperative and object oriented languages Topics and features Provides topic by topic coverage of syntax types scopes memory management and more Includes many technical exercises and discussion exercises Inspires readers to think about language design choices how these interact and how they can be implemented Covers advanced topics such as formal semantics and limits of computation Suitable for advanced undergraduates and beginning graduates this highly practical and useful textbook guide will also offer programming language professionals a superb reference and learning toolkit

**Computerworld** ,1979-04-23 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research

form the hub of the world's largest global IT media network **Groupware: Design, Implementation, and Use** Luis Carriço, Nelson Baloian, Benjamim Fonseca, 2009-09-04 This book constitutes the refereed post conference proceedings of the 15th International Workshop on Groupware Design Implementation and Use held in Peso da Régua Douro Portugal during September 13-17 2009 The 30 papers presented were carefully reviewed and selected from numerous submission The topics covered are mobile collaboration social aspects of collaboration technology for CSCW groupware evaluation CSCW design geo collaboration collaborative learning and modeling CSCW

**Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation** Stankov, Slavomir, Glavinic, Vlado, Rosic, Marko, 2010-07-31 This book addresses intelligent tutoring system ITS environments from the standpoint of information and communication technology ICT and the recent accomplishments within both the e learning paradigm and e learning systems Provided by publisher

**Handbook of Research on Mobile Software Engineering: Design, Implementation, and Emergent Applications** Alencar, Paulo, Cowan, Donald, 2012-05-31 The popularity of an increasing number of mobile devices such as PDAs laptops smart phones and tablet computers has made the mobile device the central method of communication in many societies These devices may be used as electronic wallets social networking tools or may serve as a person's main access point to the World Wide Web The Handbook of Research on Mobile Software Engineering Design Implementation and Emergent Applications highlights state of the art research concerning the key issues surrounding current and future challenges associated with the software engineering of mobile systems and related emergent applications This handbook addresses gaps in the literature within the area of software engineering and the mobile computing world

**Proceedings of the National Conference on Software Engineering**, 1975 **Computerworld**, 1984-07-09 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research

form the hub of the world's largest global IT media network **Compiler Design** Ajit Singh, 2024-04-15 Welcome to the world of Compiler Design This book is a comprehensive guide designed to provide you with a deep understanding of the intricate and essential field of compiler construction Compilers play a pivotal role in the realm of computer science bridging the gap between high level programming languages and the machine code executed by computers They are the unsung heroes behind every software application translating human readable code into instructions that a computer can execute efficiently Compiler design is not only a fascinating area of study but also a fundamental skill for anyone aspiring to become a proficient programmer or computer scientist This book is intended for students professionals and enthusiasts who wish to embark on a journey to demystify the art and science of compiler construction Whether you are a seasoned software developer looking to deepen your knowledge or a newcomer curious about the magic that happens behind the scenes this book will guide you through the intricate process of designing implementing and optimizing compilers A great many texts

already exist for this field Why another one Because virtually all current texts confine themselves to the study of only one of the two important aspects of compiler construction The first variety of text confines itself to a study of the theory and principles of compiler design with only brief examples of the application of the theory The second variety of text concentrates on the practical goal of producing an actual compiler either for a real programming language or a pared down version of one with only small forays into the theory underlying the code to explain its origin and behavior I have found both approaches lacking To really understand the practical aspects of compiler design one needs to have a good understanding of the theory and to really appreciate the theory one needs to see it in action in a real or near real practical setting Throughout these pages I will explore the theory algorithms and practical techniques that underpin the creation of compilers From lexical analysis and parsing to syntax directed translation and code generation we will unravel the complexities step by step along with the codes written into the C language You will gain a solid foundation in the principles of language design syntax analysis semantic analysis and code optimization To make this journey as engaging and instructive as possible I have included numerous examples and real world case studies These will help reinforce your understanding and enable you to apply the knowledge gained to real world compiler development challenges Compiler design is a dynamic field constantly evolving to meet the demands of modern software development Therefore we encourage you to not only master the core concepts presented in this book but also to explore emerging trends languages and tools in the ever changing landscape of compiler technology As you delve into the pages ahead remember that the journey to becoming a proficient compiler designer is both rewarding and intellectually stimulating I hope this book serves as a valuable resource in your quest to understand and master the art of Compiler Design Happy coding and compiling

**Datamation** ,1978-10 **Modern**

**Compiler Implementation in ML** Andrew W. Appel,1998 Describes all phases of a modern compiler including techniques in code generation and register allocation for imperative functional and object oriented languages

**Modern Compiler**

**Implementation in Java** Andrew W. Appel,2002-10-21 This textbook describes all phases of a compiler lexical analysis parsing abstract syntax semantic actions intermediate representations instruction selection via tree matching dataflow analysis graph coloring register allocation and runtime systems It includes good coverage of current techniques in code generation and register allocation as well as the compilation of functional and object oriented languages that is missing from most books The most accepted and successful techniques are described concisely rather than as an exhaustive catalog of every possible variant and illustrated with actual Java classes This second edition has been extensively rewritten to include more discussion of Java and object oriented programming concepts such as visitor patterns A unique feature is the newly redesigned compiler project in Java for a subset of Java itself The project includes both front end and back end phases so that students can build a complete working compiler in one semester

**ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,2000

## Whispering the Secrets of Language: An Mental Journey through **Design And Implementation Of Compiler Design And Implementation Of Compiler**

In a digitally-driven world where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and emotional nuances concealed within words frequently move unheard. Yet, situated within the pages of **Design And Implementation Of Compiler Design And Implementation Of Compiler** a interesting literary treasure pulsating with raw thoughts, lies a fantastic quest waiting to be undertaken. Written by a skilled wordsmith, that enchanting opus encourages readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the fabric of each word. Within the emotional depths of this poignant evaluation, we can embark upon a sincere exploration of the book is key themes, dissect its captivating writing model, and yield to the powerful resonance it evokes strong within the recesses of readers hearts.

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