The Programming Language Pascal

N. Wirth*

Summary. A programming language called Pascal is described which was developed on the basis of Algol 60. Compared to Algol 60, its range of applicability is considerably increased due to a variety of data structuring facilities. In view of its intended usage both as a convenient basis to teach programming and as an efficient tool to write large programs, emphasis was placed on keeping the number of fundamental concepts reasonably small, on a simple and systematic language structure, and on efficient implementability. A one-pass compiler has been constructed for the CDC 6000 computer family; it is expressed entirely in terms of Pascal itself.

1. Introduction

The development of the language *Pascal* is based on two principal aims. The first is to make available a language suitable to teach programming as a systematic discipline based on certain fundamental concepts clearly and naturally reflected by the language. The second is to develop implementations of this language which are both reliable and efficient on presently available computers, dispelling the commonly accepted notion that useful languages must be either slow to compile or slow to execute, and the belief that any nontrivial system is bound to contain mistakes forever.

There is of course plenty of reason to be cautious with the introduction of yet another programming language, and the objection against teaching programming in a language which is not widely used and accepted has undoubtedly some justification—at least based on short-term commercial reasoning. However, the choice of a language for teaching based on its widespread acceptance and availability, together with the fact that the language most widely taught is thereafter going to be the one most widely used, forms the safest recipe for stagnation in a subject of such profound paedagogical influence. I consider it therefore well worth-while to make an effort to break this vicious circle.

Of course a new language should not be developed just for the sake of novelty; existing languages should be used as a basis for development wherever they meet the chosen objectives, such as a systematic structure, flexibility of program and data structuring, and efficient implementability. In that sense Algol 60 was used as a basis for Pascal, since it meets most of these demands to a much higher degree than any other standard language [1]. Thus the principles of structuring, and in fact the form of expressions, are copied from Algol 60. It was, however, not deemed appropriate to adopt Algol 60 as a subset of Pascal; certain construction principles, particularly those of declarations, would have been incom-

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Pascal The Language And Its Implementation

Allen B. Tucker

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language is assumed *Programming Languages and System Architectures* Jürg Gutknecht,1994-02-22 Programming languages and system architectures are at the frontiers of two different worlds The conference on which this book is based was an adventure in a land where the two worlds the formal world of algorithms and the physical world of electronic circuits interact The participants explored this land under the guidance of internationally renowned researchers such as Butler W Lampson Susan Graham Jan L A van de Snepscheut and C A R Hoare all of whom gave invited papers The volume includes these papers together with sixteen session papers Subjects of special interest include programing language design and history programming environments programming methods operating systems compiler construction and innovative system architectures Language Architectures and Programming Environments Tadao Ichikawa,H. Tsubotani,1992 This book contains articles on advanced topics in language architectures and programming environments The chapters are written by distinctive leaders in their respective research fields The original articles and reprints are enhanced by the editors descriptions which are intended to guide the reader The book will be of immense use to computer science students computer system architects and designers and designers of programming environments requiring a deep and broad knowledge of these fields Incremental Compilation and its Implementation in the PECAN Programming Environment Generator James Popple,1987-11-16 The methodology and developmental history of incremental compilation is discussed The implementation of incremental compilation in the PECAN programming environment generator is discussed in detail The PECAN environment generated for Pascal has been modified to support procedure by procedure compilation and complete traditional compilation The time efficiency of these compilation methods is compared with that of incremental compilation *Computing Handbook, Third Edition* Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century **Computer Science Handbook** Allen B. Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT

professionals need With a broadened scope more emphasis on applied computing and more than 70 chap **Encyclopedia of Computer Science and Technology** Allen Kent,James G. Williams,2000-09-06 This 43rd volume asseses the value of EDI to using workstations as building blocks for parallel computing **Encyclopedia of Microcomputers** Allen Kent,James G. Williams,1989-02-15 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology Computer Graphics Programming Günter Enderle,Klaus Kansy,Günther Pfaff,2012-12-06 TO COMPUTER GRAPHICS BASED ONGKS Part I gives an introduction to basic concepts of computer graph ics and to the principles and concepts of GKS The aims of this part are twofold to provide the beginner with an overview of the terminology and concepts of computer graphics based on GKS and to give the computer graphics expert an introduc tion to the GKS standard In the early chapters of this part the main areas of computer graphics the various classes of com puter graphics users the interfaces of GKS and its underlying design concepts are discussed and important terms are defined The later chapters give an informal introduction to the main concepts of GKS and their interrelationships output attributes coordinate systems transformations input segments metafile state lists and error handling This introduction to the GKS framework will prepare the ground for the detailed description of 2D GKS functions in Part III and the 3D extensions to GKS in Part IV 1 WHAT IS COMPUTER GRAPHICS 1 1 Defmition of Computer Graphics The Data Processing Vocabulary of the International Organization for Stan dardization ISO ISO 84 defines Computer Graphics as follows Methods and techniques for converting data to and from a graphic display via computer This definition refers to three basic components of any computer graphics system namely data computer and display Computing Handbook Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject

index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management **The School of Niklaus Wirth** László Böszörményi,2000 **On the Construction of Programs** R. M. McKeag,A. M. Macnaghten,1980-11-28 **Programming Language Pragmatics** Michael Scott,2009-03-23 Programming Language Pragmatics Third Edition is the most comprehensive programming language book available today Taking the perspective that language design and implementation are tightly interconnected and that neither can be fully understood in isolation this critically acclaimed and bestselling book has been thoroughly updated to cover the most recent developments in programming language design inclouding Java 6 and 7 C 0X C 3 0 F Fortran 2003 and 2008 Ada 2005 and Scheme R6RS A new chapter on run time program management covers virtual machines managed code just in time and dynamic compilation reflection binary translation and rewriting mobile code sandboxing and debugging and program analysis tools Over 800 numbered examples are provided to help the reader quickly cross reference and access content This text is designed for undergraduate Computer Science students programmers and systems and software engineers Classic programming foundations text now updated to familiarize students with the languages they are most likely to encounter in the workforce including including Java 7 C C 3 0 F Fortran 2008 Ada 2005 Scheme R6RS and Perl 6 New and expanded coverage of concurrency and run time systems ensures students and professionals understand the most important advances driving software today Includes over 800 numbered examples to help the reader quickly cross reference and access content **Tutorial, Programming Language Design** Anthony I. Wasserman,1980 Presents programming language design and recent advances in the field 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

Self-Sustaining Systems Robert Hirschfeld,Kim Rose,2008-10-16 The Workshop on Self sustaining Systems S3 is a forum for the discussion of topics relating to computer systems and languages that are able to bootstrap implement modify and maintain themselves One property of these systems is that their implementation is based onsmall but powerfulabstractions examples include amongst others Squeak Smalltalk COLA Klein Self PyPy Python Rubinius Ruby andLisp Suchsystemsaretheenginesoftheirownreplacement giving researchers and developers great power to experiment with and explore future directions from within their own small language kernels S3 took place on May 15 16 2008 at the Hasso Plattner Institute HPI in Potsdam Germany It was an exciting opportunity for researchers and prac tioners interested in self sustaining systems to meet and share their knowledge experience and ideas for future research and development S3 provided an portunity for a community to gather and discuss the need for self sustainability in software systems and to share and explore thoughts on why such systems are needed and how they can be created and deployed Analogies were made for example with evolutionary cycles and with urban design and the subsequent inevitable socially driven change TheS3participantsleftwithagreatersenseofcommunityandanenthusiasm for probing more deeply into this subject We see the need for self sustaining systems becoming critical not only to the developer s community but to e users in business academia learning and play and so we hope that this S3 workshop will become the rst of many Knowledge Engineering and Computer Modelling in CAD Alison Smith,2013-10-22 Knowledge Engineering and Computer Modelling in CAD covers the proceedings of CAD86 The Seventh International Conference on the Computer as a Design Tool The book presents 49 papers that are organized into 14 parts according to their respective themes The main themes of the conference are modeling and expert systems Materials covering database control and geometric modeling are also presented The coverage of the text includes expert systems in process planning selections and evaluation of cost effective CAD systems and designing complex artifacts with the assistance of a microcomputer based system The book will be of great use to researchers and practitioners whose work involves the utilization of CAD **Programming Language Translation** Patrick D. Terry,1986 For students of systems programming this book provides a pragmatic and practically orientated course in programming language translation Using standard Pascal throughout students are encouraged to explore areas of language design and implementation through

carefully integrated practical work Complete case studies suitable for use on small systems serve as a foundation and provide a stimulating challenge in the many projects and exercises that are suggested

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