

## *A Comparison of the Programming Languages C and Pascal*

The focus of the language is the focus of the world.

Charles W. Morris

### **1. INTRODUCTION**

The languages C and Pascal are growing in popularity. Although they were designed for different application areas, there are being used for similar kinds of programming. In this paper we summarize and compare the two languages and provide a basis on which to select between them for a particular programming application.

In comparing C and Pascal we were confronted with the problem of deciding what to compare them to in our effort with conventional high language and what constituted the environment. It is not sufficient to say that each language is specified by its reference manual since the designers of the two languages adopted different philosophies about what belongs to a language. For example, input/output is considered to be part of Pascal and is listed in its reference manual, *The Pascal Manual*<sup>1</sup> but input/output is not considered to be part of C, instead, input/output issues with the standard library and is not included in *The C Reference Manual*.<sup>2</sup>

We resolved this problem by considering each language with its environment as described in the manual for the language. For Pascal we used *The Pascal User Manual and Report* Lamos and Wirth, (1974) and for C we used *The C Programmer*.

<sup>1</sup> The Pascal Report is part of *The Pascal User Manual and Report* by Lamos and Wirth (1974).

<sup>2</sup> *The C Reference Manual* included as an appendix to *The C Programming Language* by Kernighan and Ritchie (1978).

# Comparing And Assessing Programming Languages Ada C And Pascal

**Narain Gehani**



## **Comparing And Assessing Programming Languages Ada C And Pascal:**

**Comparing and Assessing Programming Languages** Alan R. Feuer, Narain Gehani, 1984 This book explores the topic of programming language comparison and assessment by closely examining the popular languages Ada C and Pascal The chapters are written by experts in the field of programming languages and compare and contrast the three languages assessed This book is designed to enhance knowledge of these languages by assisting in assessing which language is best suited to a particular application

**Ada** Narain Gehani, 1995 Written for readers familiar with at least one procedural programming language Focus is on novel aspects of Ada Includes an ATandT diskette of examples Annotation copyrighted by Book News Inc Portland OR

**Software Design for Real-time Systems** J. E. Cooling, 2013-11-11 WHAT IS THIS BOOK ABOUT? In recent times real time computer systems have become increasingly complex and sophisticated It has now become apparent that to implement such schemes effectively professional rigorous software methods must be used This includes analysis design and implementation Unfortunately few textbooks cover this area well Frequently they are hardware oriented with limited coverage of software or software texts which ignore the issues of real time systems This book aims to fill that gap by describing the total software design and is given development process for real time systems Further special emphasis of microprocessor based real time embedded systems to the needs WHAT ARE REAL TIME COMPUTER SYSTEMS Real time systems are those which must produce correct responses within a definite time limit Should computer responses exceed these time bounds then performance degradation and or malfunction results WHAT ARE REAL TIME EMBEDDED COMPUTER SYSTEMS Here the computer is merely one functional element within a real time system it is not a computing machine in its own right WHO SHOULD READ THIS BOOK Those involved or who intend to get involved in the design of software for real time systems It is written with both software and hardware engineers in mind being suitable for students and professional engineers

Introduction to Programming Languages Arvind Kumar Bansal, 2013-12-14 In programming courses using the different syntax of multiple languages such as C Java PHP and Python for the same abstraction often confuses students new to computer science Introduction to Programming Languages separates programming language concepts from the restraints of multiple language syntax by discussing the concepts at an abstract level Designed for a one semester undergraduate course this classroom tested book teaches the principles of programming language design and implementation It presents Common features of programming languages at an abstract level rather than a comparative level The implementation model and behavior of programming paradigms at abstract levels so that students understand the power and limitations of programming paradigms Language constructs at a paradigm level A holistic view of programming language design and behavior To make the book self contained the author introduces the necessary concepts of data structures and discrete structures from the perspective of programming language theory The text covers classical topics such as syntax and semantics imperative programming program structures information exchange between subprograms object oriented

programming logic programming and functional programming It also explores newer topics including dependency analysis communicating sequential processes concurrent programming constructs web and multimedia programming event based programming agent based programming synchronous languages high productivity programming on massive parallel computers models for mobile computing and much more Along with problems and further reading in each chapter the book includes in depth examples and case studies using various languages that help students understand syntax in practical contexts

**Applied Programming Techniques in C** Terry A. Ward,1985      **UNIX Ada Programming** Narain Gehani,1987      **The Anatomy of Programming Languages** Alice E. Fischer,Frances Schlamowitz Grodzinsky,1993 A comprehensive discussion of the components of programming languages which emphasises how a language is built It covers core concepts including specification objects expressions control and types with discussions of fundamentals implementations strategies and related semantic issues      Understanding Concurrency in Ada Kenneth C. Shumate,1988

**Understanding and Assessing Logic Control Design Methodologies** Morrison Ray Lucas,2003      **Proceedings of 3rd Annual National Conference on Ada Technology** ,1985      **Programming Language Choice** Mark Woodman,1996 When faced with a particular programming task how do you choose the most suitable programming language This book identifies the influential factors in judging the suitability of languages not on theoretical grounds but by looking at the pragmatic reasons for a particular language choice It provides descriptions of language choices made in commerce industry teaching and research including established languages such as Ada 83 Modula 2 Smalltalk and C as well as new object oriented languages such as Ada 95 O O Turing Cool and Omega      **Programmer's Journal** ,1985      **Programming C on the Macintosh** Terry A. Ward,1986      *Systems Modeling and Computer Simulation* Naim A. Kheir,1988 This second edition describes the fundamentals of modelling and simulation of continuous time discrete time discrete event and large scale systems Coverage new to this edition includes a chapter on non linear systems analysis and modelling complementing the treatment of of continuous time and discrete time systems and a chapter on the computer animation and visualization of dynamical systems motion College or university bookstores may order five or more copies at a special student price available on request from Marcel Dekker Inc      **The Humanities Computing Yearbook 1989-1990** Ian Lancashire,1991 This is the second in a series of comprehensive annual reference guides to the use of computers in all the disciplines of the humanities Like its predecessor this volume provides a taxonomy of the field and an annotated survey of publications research centers text archives and termbanks electronic communications software and hardware relevant to the humanities It also includes special larger entries for important software that offer up to date information and practical help in applying that information to research projects and instruction in colleges and universities For the 1989 1990 edition Lancashire has for the first time appointed an international advisory board of specialists to assist in discovering assembling and evaluating materials for inclusion and to keep up with the rapidly developing nature of the field and its international constituency Lancashire has

included many completely new or revised sections including a major new chapter on computing in Law A monumental work of current and enduring value The Humanities Computing Yearbook will prove invaluable to a wide range of students teachers and researchers in humanities and social sciences computational linguistics and related fields in computer science

**C Programming in a UNIX Environment** Judy Kay,Bob Kummerfeld,1988 This books is for anyone who already knows another programming language and wants to be able to use C well It is ideal for students of computer science who have taken an introductory programming course and need to progress rapidly to C before taking a course on operating systems or systems programming It is also suitable for professionals providing a comprehensive tutorial on C as well as a lasting reference book Emphasis throughout is on developing a programming style which ensures safe code that is both readable and maintainable At the same time the reader is encouraged to make full use of the standard libraries available in the UNIX environment and to acquire the UNIX tools philosophy BOOK JACKET      *1986 Conference Proceedings* ,1986      *ACM SIGPLAN Notices* ,1996-07      IBM Systems Journal ,1984      Proceedings of the 1986 SIGPLAN Symposium on Compiler Construction ,1986

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