# Portability of Numerical Software

- Numerical software to work on different computers.
  - EISPACK - DEC, IBM, CDC
  - LINPACK - Vector, pipelined
  - LAPACK - Vector, RISC, SMPs
  - ScaLAPACK
    - DSM
    - Clumps
    - Heterogeneous networks

# Portability Of Numerical Software Proc

Rudolf Ebert,J. Lügger,L. Goecke

**Portability Of Numerical Software Proc:**

     Portability of Numerical Software W. Cowell,Wayne Cowell,1977-10      **Pade and Rational Approximation** E.B. Safe,2013-05-09 Pad and Rational Approximation Theory and Applications presents the proceedings of the Conference on Rational Approximation with Emphasis on Applications of Pad Approximants held in Tampa Florida on December 15 17 1976 The contributors focus on the interplay of theory computation and physical applications This book is composed of six parts encompassing 44 chapters The introductory part discusses the general theory of orthogonal polynomials that is the mathematical basis of Pad approximants and related matters evaluation This text also examines the connection between approximants on a stepline in the ordinary Pad table and certain continued fractions and the convergence of diagonal Pad approximants to a class of functions with an even number of branch points The following parts deal with the special functions and continued fractions of Pad approximation and the theory of rational approximations These parts also investigate the geometric convergence of Chebyshev rational approximation on the half line the optimal approximation by Almost Classical interpolation and the incomplete polynomials approximation The discussion then shifts to the physical applications and computations of the Pad approximants The concluding part presents the applications of rational approximation to gun fire control and to the White Sands Missile Range Computer Facility This part also provides a list of some open problems and conjectures concerning polynomials and rational functions This book is of great benefit to mathematicians physicists and laboratory workers      *Production and Assessment of Numerical Software* M. A. Hennell,L. M. Delves,1980 Analysis of numerical software Software verification Software portability Design of software libraries      **Practice in Software Adaption and Maintenance** Rudolf Ebert,J. Lügger,L. Goecke,1980      Guide to Programs National Science Foundation (U.S.),1980      **Quality of Numerical Software** Ronald F. Boisvert,2016-01-09 Numerical software is central to our computerized society It is used to control aeroplanes and bridges operate manufacturing lines control power plants and refineries and analyse financial markets Such software must be accurate reliable robust efficient easy to use maintainable and adaptable Quality assessment and control of numerical software is still not well understood Although measurement is a key element it remains difficult to assess many components of software quality and to evaluate the trade offs between them Fortunately as numerical software is built upon a long established foundation of mathematical and computational knowledge there is great potential for dramatic breakthroughs This volume will address enabling techniques and tools such as benchmarks testing methodologies quality standards metrics and accuracy control mechanisms and their application to software for differential equations linear algebra data analysis as well as the evaluation of integrals derivatives and elementary and special functions      Actes de la Session International Statistical Institute,1977      *Software Engineering for Science* Jeffrey C. Carver,Neil P. Chue Hong,George K. Thiruvathukal,2016-11-03 Software Engineering for Science provides an in depth collection of peer reviewed chapters that describe experiences with applying software engineering practices to

the development of scientific software It provides a better understanding of how software engineering is and should be practiced and which software engineering practices are effective for scientific software The book starts with a detailed overview of the Scientific Software Lifecycle and a general overview of the scientific software development process It highlights key issues commonly arising during scientific software development as well as solutions to these problems The second part of the book provides examples of the use of testing in scientific software development including key issues and challenges The chapters then describe solutions and case studies aimed at applying testing to scientific software development efforts The final part of the book provides examples of applying software engineering techniques to scientific software including not only computational modeling but also software for data management and analysis The authors describe their experiences and lessons learned from developing complex scientific software in different domains About the Editors Jeffrey Carver is an Associate Professor in the Department of Computer Science at the University of Alabama He is one of the primary organizers of the workshop series on Software Engineering for Science http www SE4Science org workshops Neil P Chue Hong is Director of the Software Sustainability Institute at the University of Edinburgh His research interests include barriers and incentives in research software ecosystems and the role of software as a research object George K Thiruvathukal is Professor of Computer Science at Loyola University Chicago and Visiting Faculty at Argonne National Laboratory His current research is focused on software metrics in open source mathematical and scientific software

*Bulletin de L'Institut International de Statistique* International Statistical Institute,1977 Includes the Compte rendu of the institute s sessions no sessions held 1914 1922     Mathematics of Computation 1943-1993: A Half-Century of Computational Mathematics Walter Gautschi,1994 Proceedings of an International Conference held in Vancouver B C August 1993 to commemorate the 50th anniversary of the founding of the journal Mathematics of Computation It consisted of a Symposium on Numerical Analysis and a Minisymposium of Computational Number Theory This proceedings contains 14 invited papers including two not presented at the conference an historical essay on integer factorization and a paper on componentwise perturbation bounds in linear algebra The invited papers present surveys on the various subdisciplines covered by Mathematics of Computation in a historical perspective and in a language accessible to a wide audience The 46 contributed papers address contemporary specialized work Annotation copyright by Book News Inc Portland OR     Mathematical Software John R. Rice,2014-05-27 Mathematical Software deals with software designed for mathematical applications such as Fortran CADRE SQUARS and DESUB The distribution and sources of mathematical software are discussed along with number representation and significance monitoring User modifiable software and non standard arithmetic programs are also considered Comprised of nine chapters this volume begins with a historical background in the form of a chronological list of events that trace the development of computing in general and mathematical software in particular The next chapter examines where and how mathematical software is being created and how it is being disseminated to eventual consumers A

number of important shortcomings are identified The future of mathematical software and the challenges facing mathematical software are then discussed Subsequent chapters focus on the point of view of people outside the professional community of mathematical software the monitoring of significance in computation and its relation to number representation libraries of mathematical software and the automation of numerical analysis Eleven algorithms for numerical quadrature are also compared This book should be of considerable interest to students and specialists in the fields of mathematics and computer science      Software Manual for the Elementary Functions William James Cody,William McCastline Waite,1980 Mathematics of Computing Numerical Analysis      Software Engineering Herbert Freeman,Philip M. Lewis,1980 An important goal of this workshop was to establish a dialogue between three of the groups that have an important stake in this new technology the researchers who are actually creating the new technology industrial and government managers who see the current problems every day and who will be the eventual customers for the new technology and funding agencies mostly in government who are supporting much of the current research      *Proceedings of the Computer Science and Statistics* Jane F. Gentleman,1979      Cybernetics Abstracts ,1979      A Comparative Review of Statistical Software Ivor Francis,International Association for Statistical Computing,1979      Software for Computer Control 1982 G. Ferrate,E. A. Puente,2014-05-16 Software for Computer Control 1982 covers the proceedings of the Third IFAC IFIP Symposium The book discusses the state of software development for digital computer applications for science and control With a total of 73 papers the book covers topics such as real time language and operating systems man machine communication software software for robots software for distributed control systems C A D of digital computer controls systems algorithms for digital computer control control software engineering and management and industrial applications Computer scientists engineers and I T professionals will find this book interesting since it provides discussions on the various applications of computer programs      **Portable Programming** Peter J. L. Wallis,1982      Bell Laboratories Talks and Papers Bell Telephone Laboratories. Libraries and Information Systems Center,1979      *Advances in Control Education 1994* A. Ichikawa,K. Furuta,2014-05-23 The implementation of effective control systems can help to achieve a wide range of benefits not least in terms of real cost savings Education plays a vital role in ensuring continued success and its importance is well recognized by IFAC with a specifically designated technical committee in this area This invaluable publication brings together the results of international research and experience in the latest control education techniques as presented at the most recent symposium Information on course curricula is presented as well as teachware including software and laboratory experimental appparatus

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