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Alpha AXP Architecture Reference Manual Reading, Mass. : Addison-Wesley Publishing Company

Alpha Architecture Reference Manual, Third Edition is the authoritative reference on the definition of Alpha architecture. Revised by the Alpha Architecture Committee, this book contains a complete description of the common architecture required of all implementations and describes the interfaces to support the Windows NT, Digital UNIX, and OpenVMS operating systems. The third edition reflects the latest implementations of the architecture, including the 21164A, 21164PC, and 21264. Some of the extensions to the architecture and the enhancement to the technical content include: new byte and word load, store and sign-extend operations; new multimedia instructions; new population enumeration and floating-point square root instructions; new instructions to improve data cache efficiency and updated Windows NT section. The Alpha chip is the fastest chip on the marketplace today. It runs Windows NT, UNIX and OpenVMS operating systems. New base-level server configurations provide four times the memory of current systems. Contains updated Windows NT section to reflect current technical port to Alpha Includes new insights into the software aspects of the implementation Covers new multimedia instructions for increased performance with high-end graphics applications

Security Assistance Management Manual Cambridge University Press

This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics, extending the function coverage of major programming languages well beyond their international standards, including full support for decimal floating-point arithmetic. Written with clarity and focusing on the C language, the work pays extensive attention to little-understood aspects of floating-point and integer arithmetic, and to software portability, as well as to important historical architectures. It extends support to a future 256-bit, floating-point format offering 70 decimal digits of precision. Select Topics and Features: references an exceptionally useful, author-maintained MathCW website, containing source code for the book's software, compiled libraries for numerous systems, pre-built C compilers, and other related materials; offers a unique approach to covering mathematical-function computation using decimal arithmetic; provides extremely versatile appendices for interfaces to numerous other languages: Ada, C#, C++, Fortran, Java, and Pascal; presupposes only basic familiarity with computer programming in a common language, as well as early level algebra; supplies a library that readily adapts for existing scripting languages, with minimal effort; supports both binary and decimal arithmetic, in up to 10 different floating-point formats; covers a significant portion (with highly accurate implementations) of the U.S National Institute of Standards and Technology's 10-year project to codify mathematical functions. This highly practical text/reference is an invaluable tool for advanced undergraduates, recording many lessons of the intermingled history of computer hardware and software, numerical algorithms, and mathematics. In addition, professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades.

Buying Equipment and Programs for Home or Office Cambridge University Press

CHEP (Computing in High Energy Physics) is the largest international meeting of the communities of High Energy Physics, Computing Science and the Computing Industry. The sixth conference in this series was held in Rio de Janeiro, Brazil in September 1995. The focus of the conference was "Computing for the next Millennium". High Energy Physics is at a point where major changes in the way data acquisition and computing problems are addressed will be called for in the high energy physics programs of the year 2000 and beyond. The conference covered a wide spectrum of topics including Data Access, Storage, and Analysis; Data Acquisition and Triggering; Worldwide Collaboration and Networking; Tools, Languages, and Software Development Environments; and special purpose processing systems. The papers presented both recent progress and radical approaches to computing problems as candidates for the basis of future computing in the field of high energy physics. Readership: Physicists and engineers. Keywords: Computing; High Energy; Data Access; Storage; Analysis

Manual of Security Sensitive Microbes and Toxins Lecture Notes in Computer Science

This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.

Wentworth & Hill's Exercise Manuals John Wiley & Sons Incorporated

Security sensitive microbes (viruses, bacteria, fungi, and parasites) and toxins, which are often referred to as the select agents and toxins, have the capacity to cause serious illness and death in humans, animals, and plants. Throughout history, these microbes and toxins have been exploited in one form or another as biowarfare and bioterror agents that create fear and panic well beyond any actual physical damages they might cause. Manual of Security Sensitive Microbes and Toxins provides comprehensive, state-of-the-art coverage of microbes and toxins of biosecurity concern. The ultimate goal is to increase our awareness of these agents and enhance our preparedness against any future bio-emergencies. The book begins with an introduction containing a brief overview of the historical aspects of security sensitive microbes and toxins. This is followed by a concise summary of the current status in relation to the regulation of security sensitive microbes and toxins and a discussion of future development trends. The book is divided into seven parts: Microbes and Toxins Affecting Humans and Animals: Viruses Microbes and Toxins Affecting Human and Animals: Bacteria Microbes and Toxins Affecting Human and Animals: Fungus and Parasite Microbes and Toxins Affecting Human and Animals: Toxins Microbes Affecting Animals: Viruses Microbes Affecting Animals: Bacteria Microbes Affecting Plants Written by experts in the relevant areas of research, the chapters are authoritative reviews, each one covering a single microbe or toxin with respect to its classification, biology, epidemiology, pathogenesis, identification, diagnosis, treatment, and prevention. The chapters also discuss the limitations of our current knowledge and challenges relating to improved detection and control of the microbe or toxin.

File Structures Elsevier Health Sciences

The most-trusted resource for physiatry knowledge and techniques, Braddom's Physical Medicine and Rehabilitation remains an essential guide for the entire rehabilitation team. With proven science and comprehensive guidance, this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function. In-depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques. Optimize the use of ultrasound in diagnosis and treatment. A chapter covering PM&R in the international community serves to broaden your perspective in the field. Detailed illustrations allow you to gain a clear visual understanding of important concepts. New lead editor - Dr. David Cifu -- was selected by Dr. Randall Braddom to retain a consistent and readable format. Additional new authors and editors provide a fresh perspective to this edition. Features comprehensive coverage of the treatment of concussions and military amputees. Includes brand-new information on rehabilitating wounded military personnel, the latest injection techniques, speech/swallowing disorders, head injury rehabilitation, and the rehabilitation of chronic diseases. New chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field. Reader-friendly design features an updated table of contents and improved chapter approach for an enhanced user experience.

Advances in Petri nets, 1986 Decbooks

This new, expanded textbook describes all phases of a modern 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 functional and object-oriented languages, that are missing from most books. In addition, more advanced chapters are now included so that it can be used as the basis for two-semester or graduate course. The most accepted and successful techniques are described in a concise way, rather than as an exhaustive catalog of every possible variant. Detailed descriptions of the interfaces between modules of a compiler are illustrated with actual C header files. The first part of the book, Fundamentals of Compilation, is suitable for a one-semester first course in compiler design. The second part, Advanced Topics, which includes the advanced chapters, covers the compilation of object-oriented and functional languages, garbage collection, loop optimizations, SSA form, loop scheduling, and optimization for cache-memory hierarchies.

Modern Compiler Implementation in C World Scientific

The present volume is the second of two parts which constitute the proceedings of the 1986 Advanced Course on Petri Nets in Bad Honnef. It discusses tools supporting the design of petri nets as well as their modification and analysis, presents a variety of applications, and covers the relationship of petri nets to other concurrency models. These current issues of the "Advances in Petri Nets" present the most significant recent results in the application and theory of petri nets to the broad computer science community. They particularly address those who are: - interested in systems design and would like to learn to use petri nets, - familiar with subareas of the theory or the applications of nets and wish to become acquainted with the whole area, - interested in learning about recent results presented within a unified framework, - going to learn about successfully applying petri nets in - various practical situations, - interested in the relationship of petri nets to other models of concurrent systems. Laser Program Annual Report Elsevier Health Sciences

Microcomputer development language; Microcomputer software development tools; In circuit emulators; Network development systems; Microcomputer development systems; System design kits; PROM programming; EPLD development tools.

Energy Research Abstracts CRC Press

Ever since the early 1960s, the medical ready access to computer-stored med of subject matter and requiring vary world has awaited the promise of com ical records. Expert assistance in di ing levels of technical expertise. A typ ical issue might contain a review of an puterization. Many of us were fasci agnosis and treatment selection will be nated by the efforts of the pioneers: as close as the nearest telephone, which office practice management system Homer Warner's computerized diag will provide an immediate link to the --of interest to the physician, nurse, and office practice manager. Next to it nosis system, Octo Barnett's medical office computer. might be found a detailed article about information system, Howard Bleich's Since 1983, M.D. Computing has a language such as LISP and how it automated acid/base consultant, and explored and explained all of these as could be applied to medical problems, Warner Slack's history-taking program pects. Our magazine's major focus is on or a tutorial about real-time monitor were foretastes of what was to come. computer systems that serve the health At first, however, physicians and hos provider in the home or office environ ing of a patient's physiological state, along with book reviews and depart pital personnel resisted the computer ment. M.D. Computing has also ex ments reporting on pertinent comput because it was too slow, too fragile, too amined more general computer appli er news.

Modern Compiler Implementation in Java Addison-Wesley

The BMDP package is an extensive collection of computer programs that aids students, instructors and research professionals the world over in analyzing data. Running on most mainframes, minicomputers and PCs, the BMDP software has capabilities ranging from plots and simple data description to more sophisticated techniques such as repeated measures analysis. Practitioners in diverse fields, from psychology, sociology, and economics to biology, medicine and public health, should find the BDMP programs of use.

Technical Abstract Bulletin Springer Science & Business Media

Alpha Architecture Reference Manual Digital Press

GWAI-83 Cambridge University Press

The journal Computing has established a series of supplement volumes the fourth of which appears this year. Its purpose is to provide a coherent presentation of a new topic in a single volume. The previous subjects were Computer Arithmetic 1977, Fundamentals of Numerical Computation 1980, and Parallel Processes and Related Automata 1981; the topic of this 1982 Supplementum to Computing is Computer Algebra. This subject, which emerged in the early nineteen sixties, has also been referred to as "symbolic and algebraic computation" or "formula manipulation". Algebraic algorithms have been receiving increasing interest as a result of the recognition of the central role of algorithms in computer science. They can be easily specified in a formal and rigorous way and provide solutions to problems known and studied for a long time. Whereas traditional algebra is concerned with constructive methods, computer algebra is furthermore interested in efficiency, in implementation, and in hardware and software aspects of the algorithms. It develops that in deciding effectiveness and determining efficiency of algebraic methods many other tools - recursion theory, logic, analysis and combinatorics, for example - are necessary. In the beginning of the use of computers for symbolic algebra it soon became apparent that the straightforward textbook methods were often very inefficient. Instead of turning to numerical approximation methods, computer algebra studies systematically the sources of the inefficiency and searches for alternative algebraic methods to improve or even replace the algorithms.

BMDP Statistical Software Manual Springer

Describes all phases of a modern compiler, including techniques in code generation and register allocation for imperative, functional and object-oriented languages.

VAX Architecture Reference Manual Digital Press

Architectural specifications can make for dry reading, but this volume should be of interest to at least three types of readers. Serious computer engineers specializing in machine design, application or systems programmers of VAX computers, and computer science or engineering students. This volume provides an example of a successful computer architecture, and how it should be documented. It is a complete description of the machine language interface for VAX computers. And it provides a case study in design and computer organization or assembly language programming.

Early Warning Systems for Natural Disaster Reduction Springer Science & Business Media

The most-trusted resource for physiatry knowledge and techniques, Braddom's Physical Medicine and Rehabilitation remains an essential guide for the entire rehabilitation team. With proven science and comprehensive guidance, this medical reference book addresses a range of topics to offer every patient maximum pain relief and optimal return to function. In-depth coverage of the indications for and limitations of axial and peripheral joints through therapies enables mastery of these techniques. Optimize the use of ultrasound in diagnosis and treatment. A chapter covering PM&R in the international community serves to broaden your perspective in the field. Detailed illustrations allow you to gain a clear visual understanding of important concepts. New lead editor - Dr. David Cifu - was selected by Dr. Randall Braddom to retain a consistent and readable format.

Additional new authors and editors provide a fresh perspective to this edition. Features comprehensive coverage of the treatment of concussions and military amputees. Includes brand-new information on rehabilitating wounded military personnel, the latest injection techniques, speech/swallowing disorders, head injury rehabilitation, and the rehabilitation of chronic diseases. New chapters on pelvic floor disorders and sensory impairments keep you at the forefront of the field. Reader-friendly design features an updated table of contents and improved chapter approach for an enhanced user experience. Expert Consult eBook version included with purchase. This enhanced eBook experience gives access to the text, figures, over 2,500 references, 51 videos, and 750 self-assessment questions on a variety of devices.

IMSL Library Reference Manual Springer Science & Business Media

Alpha AXP Architecture Reference Manual, Second Edition describes the required behavior of all Alpha implementations, as seen by the machine-language programmer. This book discusses Alpha single-board computers, which have been introduced to cover the high-end embedded controller market. Organized into five parts, this edition begins with an overview of the instruction-set architecture. This text then describes the supporting PALcode routines for three operating systems. Other parts consider a particular console implementation that is specific to platforms that support the OpenVMS AXP or DEC OSF/1 operating systems. This book discusses as well the specific operating system PALcode architecture. The final part provides a discussion of console issues for Windows NT with its PALcode description. This book is a valuable resource for machine-language programmers.

Climatological Service, District No. 11, California Univ of California Press

This is the authoritative reference on Digital Equipment Corporation's new 64-bit RISC Alpha architecture. Written by the designers of the internal Digital specifications, this book contains complete descriptions of the common architecture required for all implementations and the interfaces required to support the OSF/1 and OpenVMS operating systems.

Modern Compiler Implementation in ML Alpha Architecture Reference Manual

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.

US Navy diving manual Digital Press

"This manual contains a detailed discussion of the IMSL Library, an extensive collection of mathematical and statistical subroutines written in Fortran".