

Keith Haviland Unix System Programming

UNIX System Programming UNIX System V Commands Unix for VMS Users AUUGN Embedded Operating Systems Modeling And Simulation Of Distributed Systems (With Cd-rom) Introduction to Parallel Programming UNIX for MS-DOS Programmers UNIX Review Software Tools and Techniques for Electronic Engineers AUUGN Distributed Systems Logic Programming and Knowledge Engineering Performance Measurement of Computer Systems CoED. An Introduction to Functional Programming Through Lambda Calculus Object-Oriented Multithreading Using C++ Proceedings International Journal of Electrical Engineering Education Application-layer Fault-tolerance Protocols Keith Haviland Baird Peterson Philip E. Bourne Alan Holt Alexander Kostin Steven Brawer Steven Mikes Keith Jobes George F. Coulouris Tore Amble Phillip McKerrow Greg Michaelson Cameron Hughes Vincenzo De Florio

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this text concentrates on the programming interface that exists between the unix kernel and applications software that runs in the unix environment the unix system call interface the techniques required by systems programmers are developed in depth and illustrated by a wealth of examples

software operating systems

this practically oriented textbook provides a clear introduction to the different component parts of an operating system and how these work together the easy to follow text covers the bootloader kernel filesystem shared libraries start up scripts configuration files and system utilities the procedure for building each component is described in detail guiding the reader through the process of creating a fully functional gnu linux embedded os features presents a concise overview of the gnu linux system and a detailed review of gnu linux filesystems describes how to build an embedded system to run on a virtual machine and to run natively on an actual processor introduces the concept of the compiler toolchain demonstrating how to develop a cross toolchain so that programs can be built on a range of different architectures discusses the arm based platforms beaglebone and raspberry pi explains how to build openwrt firmware images for omxp open mesh devices and the dragino ms14 series

introduction to parallel programming focuses on the techniques processes methodologies and approaches involved in parallel programming the book first offers information on fortran hardware and operating system models and processes shared memory and simple parallel programs discussions focus on processes and processors joining processes shared memory time sharing with multiple processors hardware loops passing arguments in function subroutine calls program structure and arithmetic expressions the text then elaborates on basic parallel programming techniques barriers and race conditions and nested loops the manuscript takes a look at overcoming data dependencies scheduling summary linear recurrence relations and performance tuning topics include parallel programming and the structure of programs effect of the number of processes on overhead loop splitting indirect scheduling block scheduling and forward dependency and induction variable the publication is a valuable reference for researchers interested in parallel programming

comprehensive and detailed this book covering the unix system v is organized by application allowing the reader to look up any particular topic and quickly learn how it is accomplished in a unix environment

this new edition represents a significant update of this best selling textbook for distributed systems it incorporates and anticipates the major developments in distributed systems technology all chapters have been thoroughly revised and updated including emphasis on the internet intranets mobility and middleware there is increased emphasis on algorithms and discussion of security has been brought forward in the text and integrated with other related technologies as with previous editions this book is intended to provide knowledge of the principles and practice of distributed system design information is conveyed in

sufficient depth to allow readers to evaluate existing systems or design new ones case studies illustrate the design concepts for each major topic

this book is written for students and professionals with an interest in engineering who need a theoretical as well as practical introduction to logic programming and how it can be used to build knowledge based systems it is suitable for an undergraduate course at third or fourth year level for complete understanding it requires two years of programming experience with some knowledge of pascal but parts of the book should be comprehensible to a wider readership

computer systems organization performance of systems

a developer s guide to writing thread safe object oriented applications drawing on years of programming experience cameron and tracey hughes provide a building block approach to developing multithreaded applications in c this book offers programmers the first comprehensive explanation of multithreading techniques and principles for objects and class libraries it teaches c programmers everything they ll need to build applications that cooperate for system resources instead of competing this invaluable reference shows you how to avoid common pitfalls of multithreading whether you re programming in unix windows nt or os 2 environment all major examples are implemented in each environment and supported by thorough explanations of object oriented multithread architecture and incremental multithreading on the disk you ll find all the source code contained in the book important protocols and information resources a variety of multithreaded components ready to build into your own applications or class library you ll find a wealth of coverage on highly practical but little understood topics like thread safe container classes posix threads and the new thread standard 1003 1c stl algorithms and containers in multithread environments c synchronization components object oriented mutexes and semaphores avoiding deadlock and data race through encapsulation multithreaded application frameworks object oriented pipe streams visit our site at wiley com compbooks

in this technological era failure to address application layer fault tolerance a key ingredient to crafting truly dependable computer services leaves the door open to unfortunate consequences in quality of service application layer fault tolerance protocols increases awareness of the need for application layer fault tolerance alft through introduction of problems and qualitative analysis of solutions a necessary read for researchers practitioners and students in dependability

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