SunSoft Press

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SunSoft Press is the publishing group within SunSoft, Inc. that publishes retail books on Sun™ products and technologies for developers, system administrators, and end users. SunSoft Press copublishes these books with Ziff-Davis Press (for general programmer books) and with the Professional/Technical/Reference (PTR) division of Prentice Hall (for professional books and documentation). All books feature the authorized SunSoft Press logo as well as the logo of the respective publisher.

SunSoft Press

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On-line Book Catalog

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Book descriptions and publication information are updated regularly. Selected forthcoming titles are also referenced.

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Note – All book prices and publication dates are subject to change without notice. Book prices are US$ suggested list. This catalog was last updated on February 21, 1994.

Books from SunSoft Press/Prentice Hall

The following books are currently available. They are organized alphabetically by title.

All About Administering NIS+

by Rick Ramsey
Paperback, 290 pages; $35.00 US
ISBN 0-13-068800-2

This book is written for network administrators who want to know more about NIS+ (Network Information Service Plus), which is part of SunSoft's ONC+™ product available in Solaris®. This book discusses the capabilities of NIS+, its requirements, how it works, and how to get the most out of it. Modular step-by-step instructions to set up and administer NIS+ are provided. Also included is a planning chapter that provides advice and guidelines for laying out your NIS+ namespace, and for transitioning to NIS+ from NIS.

The book is divided into three parts:

- Part 1 — Understanding NIS+

  Provides the conceptual foundation to NIS+ and compares NIS+ to NIS and DNS.

- Part 2 — Setting Up the NIS+ Service

  Provides a planning chapter and modular step-by-step instructions for setting up the components of an NIS+ namespace from the root domain to individual clients.

- Part 3 — Using the NIS+ Commands

  Describes how to use the NIS+ commands to perform routine administrative tasks.

Highlights include:

- Detailed descriptions of the structure of NIS+ objects and security
- Planning transition guidelines
- Modular, fully-tested, step-by-step instructions for setting up different components of a namespace

The book provides many illustrations, examples, and tips.

Multiprocessor System Architectures

A Technical Survey of Multiprocessor/ Multithreaded Systems using SPARC, Multilevel Bus Architectures and Solaris (SunOS)

by Ben Catanzaro
Paperback, 493 pages; $42.00 US
ISBN 0-13-089137-1

This book is the first of its kind to bring together in one volume a coherent description of the elements that provide for the design and development of multiprocessor systems from Sun Microsystems, Inc. It includes new technology that integrates packet-switched buses and multithreading techniques in the implementation of multiprocessor systems.

Multiprocessor System Architectures can serve as a reference text for design engineers as well as a hands-on design guide to multiprocessor systems that provides both hardware and software engineers with a coherent understanding of the problems and solutions to multiprocessor system design.

Topics covered include:

- Reviews design considerations associated with multiprocessor systems and presents practical solutions
- Provides an in-depth study on the Scalable Processor ARChitecture (SPARC®) and details the various SPARC implementations
- Introduces and details various multilevel bus architectures including MBus (a processor-level interconnect bus) and XBus/XDBus® (packet switched buses)
- Discusses the use of the SPARC MPSAS Behavioral Simulator to model SPARC multiprocessor systems with many design examples
- Introduces and details components of the Solaris®/SunOS™ multithreaded architecture such as threads, lightweight processes, synchronization, scheduling, preemption, real-time facilities, and programming
- Examines several multiprocessor system implementations by highlighting tightly coupled, shared-memory model architectures using multilevel bus implementations such as MBus and XDBus
- Provides an MBus Interface Specification and Design Guide that conveys significant aspects of designing MBus modules

Solaris International Developer's Guide

by Bill Tuthill
Paperback, 216 pages; $30.00 US
ISBN 0-13-031063-8

This book is written for software developers and business managers interested in creating global applications to run on the Solaris® distributed computing environment, for either SPARC® or x86 platforms. It begins with a marketing overview, then provides detailed instructions on how to develop software with the help of SunOS™ system libraries and the OpenWindows™ desktop environment.

Topics covered include:

- Cultural differences and how programmers deal with them
- Graphical user interface design with the X Window System and its toolkits OLIT and XView™
- The DevGuide interface generator
- Numerous C code examples
- How to translate software
- Writing translatable documentation
- International standards, including Unicode
- Future considerations, for example the Common Desktop Environment and Motif®
- Linguistic overview of Chinese, Japanese, and Korean Solaris environments

Special guidelines are given for major language markets around the world, including multibyte Asian languages and key European languages. Detailed appendices cover language and territory names, SPARC and x86 keyboard layouts, and provide a bibliography and glossary.

Solaris Porting Guide

by SunSoft ISV Engineering: Michele Ann Goodman, Manoj Goyal, and Robert A. Massoudi.
Paperback, 790 pages; $49.00 US (includes a diskette)
ISBN 0-13-030396-8

Ideal for application programmers and software developers, this guide provides a comprehensive technical overview of porting to the Solaris® environment, including the information necessary to migrate from Solaris 1.x (SunOS™ 4.x) to Solaris 2.x (SunOS 5.x). SunOS 5.x is the new SVR4-based operating system which is a component of Solaris.

Topics covered include:

- Multiprocessing and multithreading (MP/MT)
- Real-time functions in the Solaris environment
- Writing device drivers (DDI/DKI)
- Interprocess communication (IPC)
- Standards compliance
- OpenWindows™ and graphics
- Application interoperability (including ToolTalk®)
- Architectural differences (SPARC® and x86)
- Project DOE: Future Solaris Technologies

Many of the chapters in this book are appropriate for the general SVR4 UNIX® community, including the chapters on networking, MP/MT, IPC, and standards.

SunSoft Press/Prentice Hall Books Under Development

The following books are currently under development. They are organized alphabetically by title.

Designing Visual Interfaces

Communication Oriented Techniques

by Kevin Mullet and Darrell K. Sano
Paperback; $46.00 US
ISBN 0-13-303389-9
Pub date: June 1994

This book describes fundamental techniques that can be used to enhance the visual quality of graphical user interfaces, data displays, and multimedia documents. It applies the orientation, process, and training of modernist graphic design, industrial design, interior design, and architecture to the problems of visual interface design. Few software developers or human factors engineers receive any training in these disciplines. This book attempts to address the problem by describing some of the most important design rules and techniques.

Designing Visual Interfaces is organized according to the problems experienced in commercial software development. It describes basic design principles (the what and why), common errors, and practical techniques (the how) in each of six major areas:

- Elegance and Simplicity
- Scale, Contrast, and Proportion
- Organization and Visual Structure
- Module and Programme
- Image and Representation
- Style

This book will be useful to anyone responsible for designing, specifying, implementing, documenting, or managing the visual appearance of computer-based information displays. Points are well illustrated with over 400 examples from the design world, with an emphasis on the human computer interface (HCI). Readers will gain a new perspective on product development as well as an appreciation for the contribution visual design can offer to their products and users.

Expert C Programming: Deep C Secrets

by Peter van der Linden
Paperback; $32.00 US
ISBN 0-13-177429-8
Pub date: May 1994

This is a very different book on the C language! In an easy, conversational style *Expert C Programmin*g explains the difficult areas of ANSI C that other books gloss over, like why C declarations are so complicated and how to code arrays that can grow and shrink in size.

Author Peter van der Linden has worked for Sun's compiler and OS kernel group for the past seven years. He presents dozens of astonishing examples drawn from practical experience, including:

- Software that blew up the space probe to Venus
- The C bug that shut down the entire AT&T phone system
- How hardware quirks affect C software
- C programmer job interview secrets
- Why programmers can't tell Halloween from Christmas day!
- The C code for a complete BASIC interpreter

Expert C Programming reveals the coding techniques used by the best C programmers. It relates C to other languages, and includes the first introduction to C++ that can actually be understood by programmers without weeks of mind-bending study.

This colorful book covers both the IBM PC and UNIX® systems. It is an entertaining and educational romp through C showing how it is really used by the experts. *Expert C Programming* is a **must read** for everyone who has ever used the C programming language, or who wants to learn more about its implementation, practical use, and folklore.

This is the only book on the market that decodes key sections of the ANSI C standard into English, and explains how compiler writers and programmers cope with the whole thing. Its down-to-earth approach is packed full of practical help.

Don't expect *Expert C Programming* to describe what i = j; means, but instead it's a grab-bag of all the quirks and oddities of the C language that you won't find written down anywhere else!

This book should be every programmer's **second** book on C.

Moving to Motif

by Mark G. Graff
Paperback (includes a diskette); Price TBA
ISBN 0-13-124660-7
Pub date: TBA

This practical guide is written for software developers who need to port their OPEN LOOK® GUI applications from XView™ and OLIT to the common desktop environment Motif®. It provides a roadmap for transitioning applications to Motif and includes detailed conversion tips and routines.

Topics covered include:

- A description of the software model underlying the Motif and OPEN LOOK graphical user interfaces (GUIs), the X11 server, and the XView, OLIT, and Motif toolkits
- A comparison of the two GUIs
- A comparison of function calls, widget sets, and resources for each toolkit.

- Parallel sample programs for each toolkit that are based on well-known programs developed for Sun™ platforms and now in the public domain (e.g., xvnews, shinban, xvtodo)
- A survey of alternative transition strategies, including special run-time libraries

A diskette is included which contains public domain porting tools and sample programs.

Solaris x86 Hardware Configuration Guide

by Ron Ledesma
Paperback; Price TBA
ISBN 0-13-124678-x
Pub date: TBA

Since there are no configuration standards between x86 hardware vendors, every system configuration can literally be different! This book provides a simple structured approach to x86 hardware installation and configuration for the Solaris® x86 environment for both stand-alone and networked machines.

Topics covered include:

- What is Solaris x86?
- x86 hardware configuration requirements
- Descriptions and examples of networked hardware
- Planning and designing your network
- Partitioning your hard disk
- MCA, ISA, and EISA configuration and installation
- Installing Solaris x86

- Troubleshooting

Also included is a two-page configuration worksheet and a multitude of figures and tables outlining x86 hardware requirements and options.

Solaris Implementation

A Guide for System Administrators

by George Becker and Kathy Slattery
Paperback; Price TBA
ISBN 0-13-353350-6
Pub date: spring 1994

This guide is written for system administrators who implement and maintain 50+ node networks running Solaris® 2 on SPARC® systems. The authors are Sun™ system administrators who present tested procedures culled from their real-life experiences. This book will help system administrators improve and customize their networks by eliminating trial-and-error methodologies. It also provides advice for administrators converting to SunOS™ 5.x (SVR4) who may still need to run several versions of the Solaris environment.

Topics covered include:

- Differences between Solaris 1.x and 2.x
- Installation issues
- New Solaris 2 files and commands
- Networking tools and technologies
- Window systems

- Additional features new to Solaris 2

ToolTalk and Open Protocols

Inter-Application Communication

by Astrid M. Julienne and Brian Holtz
Paperback, $36.00 US
ISBN 0-13-031055-7
Pub date: April 1994

This book is the second in a series of books related to the ToolTalk® service, one of the first commercial products to facilitate information exchange between applications from different developers.

The ToolTalk service is an inter-application communication system that enables communication and information exchange between diverse applications. This book discusses how to design, write, and implement "good" open protocols with examples using the ToolTalk messaging service. The book discusses both procedural and object-oriented protocols in similar detail. The procedural protocol examples emphasize using the ToolTalk standard message sets; the object-oriented protocol examples emphasize the ToolTalk object manager.

Key topics covered include:

- Solving the application integration problem
- Understanding ToolTalk
- Principles of open ToolTalk protocols
- Creating procedural protocols
- Creating object protocols

- Implementing ToolTalk protocols and applications.

The book also discusses using ToolTalk in both the common desktop environment and SunSoft's Project DOE system.

ToolTalk is available on multiple platforms, including SPARC®, x86, NCR, SGI, IBM, HP, and DEC. The software on all platforms is equivalent in both usage and design, and the platforms are compatible with each other. ToolTalk has been chosen as the standard messaging facility for the Common Desktop Environment that will be shipped in the first half of 1994 by COSE participants SunSoft, HP, IBM, and USL.

Other Books under Development

Information on these titles will be updated regularly on the on-line book catalog (e-mail: sunsoftpress@Sun.com).

- *Rightsizing the New Enterprise: Management Control and Implementation*
- *Rightsizing for Corporate Survival*
- *CDE Motif*
- *Sun™ Performance and Tuning*
- *Project DOE: Distributed Object Services*

Manuals from SunSoft Press/Prentice Hall

These manuals have been written (as much as possible) in a non-hardware-platform-specific manner; all are appropriate for the general SPARC® platform; some are appropriate for the x86 and other platforms. Modifications need to be interpreted for keyboard mapping differences between

SPARC and x86; Audio Tool requires hardware-specific coverage, etc. Several manuals include material not available in their related sister Solaris® documentation manuals.

These manuals are organized alphabetically by title.

OpenBoot Command Reference

Version 2.x

Paperback, 160 pages; $45.00 US
(includes a foldout quick reference card)
ISBN 0-13-107194-7

This manual describes OpenBoot™ 2.x firmware that is part of the boot PROM in Sun™ systems. This manual contains information on how to use the OpenBoot firmware to perform such tasks as booting the operating system, running diagnostics, modifying system start-up configuration parameters, loading and executing programs, and troubleshooting. It also describes the commands of the OpenBoot Forth interpreter.

Detailed contents include:

- An overview of the user interface
- Booting and testing OpenBoot firmware systems
- Setting NVRAM configuration parameters
- Using Forth tools
- Loading and executing programs from various sources
- Debugging with the disassembler, the Forth source-level debugger, and setting breakpoints

This manual is also available as part of the 4-volume *SBus/SCSI Developer's Kit, Release III* (see description of the kit in this section). The Kit is available from SunExpress for $149.00 US or from PTR Prentice Hall worldwide for $215 US suggested list price.

SBus Handbook

Paperback, 200 pages; $35.00 US
ISBN 0-13-107210-2

The SBus Handbook provides design engineers with a comprehensive source of SBus design information based on the IEEE 1496-1993 standard. Intended for hardware engineers, it explains the design requirements necessary to produce IEEE SBus compliant products. In addition, it discusses design considerations for the various SMCC hardware architectures, and it contains a reference section of enabling products and services.

Detailed contents include:

- An overview of the SBus specification
- A description of the basic SBus signals and protocols
- A description of the electrical and mechanical specifications of the SBus standard
- In-depth design information to develop IEEE-compliant SBus products
- A review of design considerations for Sun™ computer systems relative to the SBus standard
- A guide to enabling products and services for the developer

This manual is also available as part of the 4-volume *SBus/SCSI Developer's Kit, Release III* (see description of the kit in this section). The Kit is available from SunExpress for $149.00 US or from PTR Prentice Hall worldwide for $215 US suggested list price.

SBus/SCSI Developer's Kit, Release III

4 volume paperback set, $215.00 US
ISBN 0-13-107202-1

This set of 4 manuals is a comprehensive guide to the developer of SBus cards and SCSI device drivers. The four manuals are:

- *SunOS™ 5.3 Writing Device Driver*s
  (includes a diskette of sample drivers and utility programs, and an extensive listing of man pages)
- *Writing FCode Programs*
- *OpenBoot™ Command Reference*
- *SBus Handbook*

*SunOS 5.3 Writing Device Driver*s is a very much expanded version of the preliminary manual distributed as part of the Solaris Migration Kit. It also contains an extensive selection of man pages which will be a comprehensive reference for the driver writer. The information contained in this manual is key to insuring compatibility with the current and future releases of the DDI interface.

The *SBus Handbook* summarizes the IEEE SBus 1496-1993 specification and provides a guide to design considerations for the various SPARC® uni- and multiprocessing architectures. It also contains a reference to enabling products and services available to the SBus/SCSI developer.

The FCode and OpenBoot manuals discuss OpenBoot, rev. 2, and extensions to the Forth language, of use to the firmware developer and systems administrator.

For a detailed summary of the manuals' contents, please see this section; manuals are listed alphabetically by title.

Each manual is available for individual purchase. SunExpress carries the kit for $149.00 US. Call 1-800-USE-SUNX. PTR Prentice Hall also sells this kit, as well as the individual manuals, worldwide.

Solaris Application Developer's Guide (AppDevGuide)

Paperback, 102 pages; $28.00 US
ISBN 0-13-205097-8

This manual provides an overview of the Solaris® application development environment and its interfaces. It is intended for programmers and developers who are transitioning from Solaris 1.x to 2.x: porting applications from SunOS™ 4.x to SunOS 5.x and conforming applications to standards such as ANSI C, ABI, and SVID3.

Topics covered include:

- A technical overview of the Solaris 2 application development environment: languages, tools, libraries, debuggers, and compatibility packages

- An overview of the Solaris 2 integrated environment: operating system, windows, networking, and graphics
- C language functions and tools
- A networking tutorial
- Internationalizing applications
- An overview of the ToolTalk® service, an inter-application communication package

Solaris OpenWindows Desktop Integration Guide (DIG)

(OpenWindows™ Version 3.1)

Paperback, 204 pages; $42.00 US (includes a diskette)
ISBN 0-13-035726-X

This manual provides an overall introduction to desktop integration in the Solaris® environment. It describes the technologies available to create interoperable applications, i.e., applications that can share data and processes with other applications.

Topics covered include:

- Drag and drop

  A mechanism for moving data between or within applications using the mouse or the cut//paste keys.
- Classing engine

  A database that allows applications to determine or define the identity and operating characteristics of objects on the desktop.

- The ToolTalk® service

  A mechanism for exchanging command and process messages between applications.

- Integrating with DeskSet™

  Issues related to integrating an application with the DeskSet applications.

Source code (on a diskette) for a sample application incorporating these desktop integration technologies is included.

Solaris OpenWindows DeskSet Reference

(OpenWindows™ Version 3.1)

Paperback, 343 pages; $32.00 US
ISBN 0-13-035718-9

This manual provides a complete reference to the fifteen DeskSet™ applications for OpenWindows™ Version 3.1. Each DeskSet application is described in detail in separate chapters, which are arranged in alphabetical sequence.

The fifteen DeskSet applications are: Mail Tool, Calendar Manager, File Manager, Command Tool, Text Editor, Clock, Calculator, Print Tool, Audio Tool, Tape Tool, Binder, Snapshot, Icon Editor, Performance Meter, and Shell Tool.

Topics covered include:

- An introductory chapter on the DeskSet applications, including an overview of the drag-and-drop feature
- A separate chapter on each of the fifteen DeskSet applications

- How to view and print man page summaries for the DeskSet applications
- A troubleshooting section, including solutions

Solaris OpenWindows User's Guide

(OpenWindows™ Version 3.1)

Paperback; 311 pages; $32.00 US
ISBN 0-13-035700-6

This manual describes the OpenWindows™ Version 3.1 implementation of the OPEN LOOK® graphical user interface. It provides the reader with basic information needed to use OpenWindows, run the DeskSet™ applications, and customize the OpenWindows environment.

The fifteen DeskSet applications are: Mail Tool, Calendar Manager, File Manager, Command Tool, Text Editor, Clock, Calculator, Print Tool, Audio Tool, Tape Tool, Binder, Snapshot, Icon Editor, Performance Meter, and Shell Tool.

Topics covered include:

- Basic post-installation procedures needed to start up the OpenWindows environment
- Introduction to the OW environment: discusses the use of the mouse, icons, menus, windows, and customization options
- Task-oriented descriptions of the 15 DeskSet applications and the on-line help facilities
- OpenWindows troubleshooting information
- How to access on-line man pages via AnswerBook®

- Keyboard and mouse modification information
- Internetworking information on applications and DECnet, including network security issues
- Glossary of OpenWindows terminology

SunOS 5.3 Writing Device Drivers

Paperback, 1000 pages; $90.00 US
(includes man pages and a diskette)
ISBN 0-13-107228-5

This manual describes how to develop SBus device drivers for character-oriented devices, block-oriented devices, and SCSI target devices. Written for UNIX® programmers who are familiar with drivers, this book discusses the development of dynamically loadable and unloadable, multithreaded reentrant device drivers applicable to all SPARC® architectures that conform to the Solaris® 2.x SPARC DDI/DKI.

Detailed contents include:

- An overview of the SunOS™ kernel
- Hardware issues related to device drivers
- An overview of SunOS device drivers
- Multithreading mechanisms of the SunOS kernel
- Autoconfiguration support for drivers
- Interrupt handlers, including registering, servicing, and removing
- Interrupts
- DMA (direct memory access) and DMA interfaces

- Drivers for character and block devices
- SCSI target drivers
- Loading and unloading drivers
- Debugging, including coding suggestions, testing hints, and a simple adb/kadb tutorial

SunOS 5.3 Writing Device Drivers includes a diskette containing sample drivers and utilities, and an extensive (over 800 pages) selection of man pages for use as a reference. Sample drivers included are:

  - PIO
  - DMA
  - SCSI Block
  - SCSI Target
  - Streams
  - RAM disc

This manual is also available as part of the 4-volume *SBus/SCSI Developer's Kit, Release III* (see description of the kit in this section). The Kit is available from SunExpress for $149.00 US or from PTR Prentice Hall worldwide for $215 US suggested list price.

The ToolTalk Service

An Inter-Operability Solution

Paperback, 349 pages; $30.00 US
ISBN 0-13-088717-X

This book describes the ToolTalk® service, an inter-application message service by SunSoft™, and provides instructions on how to modify your applications to send and receive ToolTalk messages. One of the first commercial products to facilitate information exchange between applications from different developers, the ToolTalk service is a breakthrough for developers, enabling them to leverage the functionality of other applications to solve larger-scale technical problems. This book describes how the service works and how to take advantage of this emerging technology.

Topics covered include:

- Running the ToolTalk service on both Solaris® and non-OpenWindows™ environments
- Setting up and maintaining ToolTalk processes
- Identifying message patterns
- How to effectively participate in ToolTalk sessions
- Sending and receiving messages
- Handling errors
- Numerous code examples

ToolTalk is available on multiple platforms, including SPARC®, x86, NCR, SGI, IBM, HP, and DEC. The software on all platforms is equivalent in both usage and design, and the platforms are compatible with each other. ToolTalk has been chosen as the standard messaging facility for the Common Desktop Environment that will be shipped in the first half of 1994 by COSE participants SunSoft, HP, IBM, and USL.

Writing FCode Programs

Version 2.x

Paperback, 414 pages; $45.00 US
ISBN 0-13-107236-6

This manual is written for designers of SBus interface cards and other devices that use the FCode interface language. It assumes familiarity with SBus card design and Forth programming. The material covered discusses SBus development for both OpenBoot™ 1.x and 2.x systems.

Detailed contents include:

- Relationships between FCode device drivers and hardware
- Basic elements of FCode programming
- Producing FCode programs from source through testing
- FCode packages and properties
- Block, byte and serial devices and their programming requirements
- FCode dictionary and examples

This manual is also available as part of the 4-volume *SBus/SCSI Developer's Kit, Release III* (see description of the kit in this section). The Kit is available from SunExpress for $149.00 US or from PTR Prentice Hall worldwide for $215 US suggested list price.

SunSoft Press/Prentice Hall Manuals Under Development

The following manuals are currently under development. They are organized alphabetically by title.

Solaris Guide to Multithread Programming

Paperback; Price TBA
ISBN TBA
Pub date: late spring 1994

Books from SunSoft Press/Ziff-Davis Press

The following books are currently available. They are organized alphabetically by title.

Guide to Solaris

by John Pew
Paperback, 625 pages; $34.95 US
ISBN 1-56276-087-4

This book discusses the entire Solaris® distributed computing environment. Throughout the book, the author challenges the reader with special sections on how to customize the environment to the reader's tastes.

The book's four parts include:

- Part 1 — Solaris Fundamentals

  Includes a brief structural overview of the Solaris environment, including DeskSet™ applications, OPEN LOOK graphical user interface, OpenWindows™ windowing environment, SunOS™ system, ONC™ networking products.

- Part 2 — The DeskSet

  Provides more detail on the DeskSet applications, including File Manager, Mail Tool, Calendar Manager, Shell Tool, Command Tool, Text Editor, and more, including a chapter on customizing the OpenWindows environment.

- Part 3 — Working from the SunOS Command Line

  Continues with SunOS fundamentals and working from the command line. Topics covered include SunOS system fundamentals, the vi editor, using the network.

- Part 4 — System Administration

  Introduces system administration fundamentals, including installation and configuration information and using the admin tool.

Solaris System Administrator's Guide

by Janice Winsor
Paperback, 288 pages; $29.95 US
ISBN 1-56276-080-7

This practical guide for system administrators at all levels of experience provides the information for efficiently managing the Solaris® 2 environment. Loaded with step-by-step examples and based on a trusty in-house reference manual that became an underground classic at Sun Microsystems, Inc., this task-oriented book gets you the information you need every time. First-time administrators, administrators new to the Solaris system software, and experienced administrators looking for an easy-access reference will all find a valuable resource in this clear, no-nonsense handbook. Employing a quick-reference approach, the author presents the command sequence for each system administration task followed by supporting sample code. Also included is a brief description of every task so that you can choose the right command for the job.

Topics covered include:

- File systems
- Networking
- Printing

- Shells
- Troubleshooting
- Detailed appendix on differences between SunOS™ 4.x and 5.0 (also available in a quick-reference card format)
- Special appendix on new administration tools in Solaris 2.1

Solaris Advanced System Administrator's Guide

by Janice Winsor
Paperback; 477 pages; $29.95 US
ISBN 1-56276-131-5

This companion volume to the *Solaris® System Administrator's Guide* covers more advanced Solaris 2 system administration tasks in the same practical, step-by-step, task-oriented style for which the first book was applauded. It is ideal for system administrators who are experienced with day-to-day system maintenance and who need to add system components, improve service access, or automate routine tasks.

Topics covered include:

- Setting up a mail service or revising an existing one
- Understanding the NIS+ naming service environment and adding a client system in an existing NIS+ environment
- Planning for automounting service and administering the automounter configuration files
- Using the Service Access Facility (SAF) to set up access to printers, modems, and terminals

- Installing and making available third-party application software
- Writing shell scripts to automate routine tasks

Also included are appendices on Solaris 2.2 Volume Management and Solaris 2.3 Serial Port Manager. A glossary of system administration terms completes this volume.