About Solaris 8 Documentation

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Contents

Preface

About Solaris 8 Documentation lists the books and other documentation you might need for installing and using the Solaris™ 8 operating environment.

Note - The Solaris operating environment runs on two types of hardware, or platforms - SPARC and IA. The Solaris operating environment also runs on both 64–bit and 32–bit address spaces. The information in this document pertains to both platforms and address spaces unless called out in a special chapter, section, note, bullet, figure, table, example, or code example.

Note - In this document the term “IA” refers to the Intel 32–bit processor architecture, which includes the Pentium, Pentium Pro, Pentium II, Pentium II Xeon, Celeron, Pentium III, and Pentium III Xeon processors and compatible microprocessor chips made by and Cyrix.

How This Book Is Organized

Chapter 1 describes the Solaris 8 documentation set and provides instructions for viewing AnswerBook2™ documentation.

Chapter 2 describes changes to the documentation set since the release of the Solaris 7 operating environment.

Chapter 3 lists Solaris 8 documentation by tasks or subjects.

Chapter 4 lists the Solaris 8 documentation collections and provides a brief description of each document in these collections.

Ordering Sun Documents

Fatbrain.com, an Internet professional bookstore, stocks select product documentation from Sun Microsystems, Inc.

For a list of documents and how to order them, visit the Sun Documentation Center on Fatbrain.com at `http://www1.fatbrain.com/documentation/sun`.

Accessing Sun Documentation Online

The docs.sun.com[SM] Web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. The URL is `http://docs.sun.com`.

CHAPTER 1

Getting More Information About Solaris 8

This chapter describes the Solaris 8 documentation set and provides instructions for viewing AnswerBook2 documentation.

Overview of the Solaris Documentation Set

When you purchase the Solaris 8 product, you receive a documentation set that can include:

- Printed documents that describe installation and configuration, including:
  - An installation quick reference card to guide you through the installation: *Solaris 8 Start Here*
  - Release notes that contain installation issues: *Solaris 8 (SPARC Platform Edition) Release Notes* or *Solaris 8 (Intel Platform Edition) Release Notes*
- Online documents, including:
  - Online AnswerBook2 collections that contain the full documentation set for the product
  - A README file that describes the installation of the Solaris documentation collections: *Solaris 8 Documentation CD README*
  - Installation documentation in PDF and HTML format, including:

- *Solaris 8 (SPARC Platform Edition) Online Release Notes* or *Solaris 8 (Intel Platform Edition) Online Release Notes*
- *Solaris 8 (SPARC Platform Edition) Installation Guide* or *Solaris 8 (Intel Platform Edition) Installation Guide*
- *Solaris 8 (Intel Platform Edition) Hardware Compatibility List*
- *Solaris 8 (Intel Platform Edition) Device Configuration Guide*

Note - You might not have printed documents if your software was preinstalled. You might have printed documentation for other products that are packaged with the Solaris operating environment, but they are not described here.

Viewing Online AnswerBook2 Documentation

An AnswerBook2 collection is a set of documents that you can view using a browser. Users can share AnswerBook2 collections across a network through a web-browser-based interface. You can use the AnswerBook2 system as you would any library: you can browse, search, bookmark, and print the information.

The AnswerBook2 product allows you to view and print a variety of information, including AnswerBook2 collections and older "AnswerBooks" (previously accessed through the AnswerBook™ script). The Solaris 8 Documentation CD includes the AnswerBook2 server software and documentation packages. You can choose to:

- Install the AnswerBook2 server and documentation packages from the Documentation CD using the standard Solaris installation programs.
- Read the documentation directly from the Documentation CD by using the `ab2cd` script located on the Documentation CD.
- View all released Solaris documentation at `http://docs.sun.com`.

For information about how to get started using the AnswerBook2 product, how to install an AnswerBook2 documentation server, or how to read documentation directly from the CD, see the file `README_en.html` on the Solaris 8 Documentation CD.

CHAPTER 2

Important Changes in the Solaris 8 Documentation Set

This chapter describes changes to the documentation set since the release of the Solaris 7 operating environment.

Release Notes and SUNWrdm Package

The Solaris online release notes are no longer included in the SUNWrdm package on the Solaris Software CD. The *Solaris 8 Online Release Notes* are now available on the Solaris Documentation CD. The online release notes are provided there in HTML, PDF, and AnswerBook form. Printed Release Notes are still included with the Solaris 8 product and cover installation issues only.

Installation Documentation

Your hardware manufacturer might supply the *Solaris 8 (SPARC Platform Edition) Installation Guide* or *Solaris 8 (Intel Platform Edition) Installation Guide* in printed form. The installation guides are also available on the Solaris 8 Documentation CD.

Reference Manual Reorganization

The section of the *SunOS Reference Manual* that describes the C library functions (but does not include the system calls) now contains six books instead of one. These books are:

- Library Interfaces and Headers
- Basic Library Functions
- Networking Library Functions
- Threads and Realtime Library Functions
- Extended Library Functions
- Curses Library Functions

In addition, many of the man page suffixes have been changed to reflect the library that contains the function (for example, all man pages describing functions contained in `libnsl` now have the suffix `.3nsl`).

For more information, see the Solaris 8 Reference Manual Collection.

Network Interface Guide

The *Network Interface Guide* replaces the *Transport Interfaces Programming Guide* in the Solaris 8 documentation set. For more information, see the *Network Interface Guide*.

Solaris Transition Guide Update

The *Solaris Transition Guide Update* is a supplement to the *Solaris Transition Guide*. It describes the differences between SunOS™ release 4 and SunOS release 5 as of the Solaris 8 release. Use this book with the *Solaris Transition Guide*, which describes differences between SunOS release 4 and SunOS release 5 through the Solaris 7 release.

For more information, see the *Solaris Transition Guide Update*.

System Administration Guide, Volume 3

The *System Administration Guide, Volume 3* is a new document that contains information previously documented in the *TCP/IP Administration Guide*, the *NFS Administration Guide*, and the *Mail Administration Guide*, as well as information on new and enhanced technology shipping with this Solaris release. The focus is on task-based procedures, with reference material covered separately in the guide.

For more information, see the *System Administration Guide, Volume 3*.

End-of-Life Statements

Programming Utilities Guide

The *Programming Utilities Guide* is not included in the Solaris 8 release. Implementation information on the topics that were covered in the guide is available in the following man pages:

- `lex`(1)
- `yacc`(1), a compiler compiler
- `make`(1S)
- `sccs`(1), source code control system
- `m4`(1) processor
- `sysV-make`(1)

Reference information can be found by going to at `http://www1.fatbrain.com`. Look for books, such as those published by O'Reilly, on the following topics:

- applying `RCS` and `SCCS`
- `lex` and `yacc`
- `make`

XGL Collection

The XGL™ Collection is not included in the Solaris 8 documentation set. XGL is not supported in the Solaris 8 operating environment.

CHAPTER 3

Finding the Documentation for Your Task

This chapter lists Solaris 8 documentation by tasks or subjects.

- Table 3–1 “Installing”
- Table 3–2 “Troubleshooting”
- Table 3–3 “Using the Desktop”
- Table 3–4 “Administering Systems and Networks”
- Table 3–5 “Developing Applications”
- Table 3–6 “Man Page Documentation”

Installing

The following table lists documentation that describes installation issues, features, and functionality.

TABLE 3–1 Installing

System	Book Title	Where to Find it
Desktop	*Solaris 8 (SPARC Platform Edition) Installation Guide* or *Solaris 8 (Intel Platform Edition) Installation Guide*	Installation Collection, HTML, PDF on Solaris 8 Documentation CD
	Solaris 8 (Intel Platform Edition) Device Configuration Guide	Installation Collection, HTML, PDF on Solaris 8 Documentation CD
	Solaris 8 (Intel Platform Edition) Hardware Compatibility List	Installation Collection, HTML, PDF on Solaris 8 Documentation CD
	Solaris 8 Start Here Card	Printed
Desktop and Servers	*Solaris 8 (SPARC Platform Edition) Release Notes* or *Solaris 8 (Intel Platform Edition) Release Notes*	Printed
	Solaris 8 (SPARC Platform Edition) Online Release Notes or *Solaris 8 (Intel Platform Edition) Online Release Notes*	Release Documents Collection, HTML, and PDF on the Solaris 8 Documentation CD
	What's New in the Solaris 8 Operating Environment	Installation Collection on Solaris 8 Documentation CD
	Solaris 8 Documentation CD README	Solaris 8 Documentation CD
Servers	*Solaris 8 Advanced Installation Guide*	Installation Collection on Solaris 8 Documentation CD

Troubleshooting

The following table lists documentation that describes troubleshooting procedures.

TABLE 3–2 Troubleshooting

Subject	Book Title	Where to Find it
Installation	*Solaris 8 (SPARC Platform Edition) Installation Guide* or *Solaris 8 (Intel Platform Edition) Installation Guide*	Installation Collection, PDF, HTML, on Solaris 8 Documentation CD
Installation and System Administration	*Solaris 8 (SPARC Platform Edition) Release Notes* or *Solaris 8 (Intel Platform Edition) Release Notes*	Printed
	Solaris 8 (SPARC Platform Edition) Online Release Notes or *Solaris 8 (Intel Platform Edition) Online Release Notes*	Release Documents Collection, PDF, HTML, on Solaris 8 Documentation CD
System Administration	*Solaris Common Messages and Troubleshooting Guide*	System Administrator Collection on Solaris 8 Documentation CD

Using the Desktop

The following table lists documentation that describes desktop features and procedures. All of these documents are located on the Solaris 8 Documentation CD.

TABLE 3–3 Using the Desktop

Title	Where to Find it
About Solaris 8 Documentation	Solaris 8 System Administrator Collection
OpenWindows Advanced User's Guide	Solaris 8 User Collection
OpenWindows User's Guide	Solaris 8 User Collection
Solaris Common Desktop Environment: Advanced User's and System Administrator's Guide	Solaris 8 User Collection

TABLE 3–3 Using the Desktop *(continued)*

Title	Where to Find it
Solaris Common Desktop Environment: User's Guide	Solaris 8 User Collection
Solaris Common Desktop Environment: User's Transition Guide	Solaris 8 User Collection
Using Power Management	Solaris 8 User Collection

Administering Systems and Networks

The following table lists documentation that describes system administration features and procedures. All these documents are located on the Solaris 8 Documentation CD.

TABLE 3–4 Administering Systems and Networks

Title	Where to Find it
About Solaris 8 Documentation	Solaris 8 System Administrator Collection
Authentication Management Infrastructure Administration Guide	Solaris 8 System Administrator Collection
Binary Compatibility Guide	Solaris 8 System Administrator Collection
Font Administrator User's Guide	Solaris 8 System Administrator Collection
NIS+ Transition Guide	Solaris 8 System Administrator Collection
OpenBoot 2.x Command Reference Manual	OpenBoot Collection

TABLE 3–4 Administering Systems and Networks *(continued)*

Title	Where to Find it
OpenBoot 2.x Quick Reference	OpenBoot Collection
OpenBoot 3.x Command Reference Manual	OpenBoot™ Collection
OpenBoot 3.x Quick Reference	OpenBoot Collection
Service Location Protocol Administration Guide	Solaris 8 System Administrator Collection
Solaris Common Desktop Environment: Advanced User's and System Administrator's Guide	Solaris 8 User Collection
Solaris Java Plug-in User's Guide	Solaris 8 System Administrator Collection
Solaris Naming Administration Guide	Solaris 8 System Administrator Collection
Solaris Naming Setup and Configuration Guide	Solaris 8 System Administrator Collection
Solaris Smart Cards Administration Guide	Solaris 8 System Administrator Collection
Solaris Transition Guide	Solaris 8 System Administrator Collection
Solaris Transition Guide Update	Solaris 8 System Administrator Collection
Solaris WBEM Services Administrator's Guide	Solaris 8 System Administrator Collection
Solstice Enterprise Agents 1.0 User Guide	Solaris 8 System Administrator Collection
SunSHIELD Basic Security Module Guide	Solaris 8 System Administrator Collection
System Administration Guide, Volume 1, 2, and *3*	Solaris 8 System Administrator Collection

Developing Applications

The following table lists documentation that describes software development features and procedures. All these documents are located on the Solaris 8 Documentation CD.

TABLE 3–5 Developing Applications

Subject	Book Title	Where to Find it
General Development Tools	*Application Packaging Developer's Guide*	Solaris 8 Software Developer Collection
	Linker and Libraries Guide	Solaris 8 Software Developer Collection
	JDK 1.1 for Solaris Developer's Guide	Solaris 8 Software Developer Collection
	Java 2 SDK for Solaris Developer's Guide	Solaris 8 Software Developer Collection
	Solaris Modular Debugger Guide	Solaris 8 Software Developer Collection
Interfaces	*Application Packaging Developer's Guide*	Solaris 8 Software Developer Collection
	Authentication Management Infrastructure Programming Guide	Solaris 8 Software Developer Collection
	Federated Naming Service Programming Guide	Solaris 8 Software Developer Collection
	International Language Environments Guide	Solaris 8 Software Developer Collection

TABLE 3–5 Developing Applications *(continued)*

Subject	Book Title	Where to Find it
Interfaces *(continued)*	*Linker and Libraries Guide*	Solaris 8 Software Developer Collection
	Multithreaded Programming Guide	Solaris 8 Software Developer Collection
	Network Interface Guide	Solaris 8 Software Developer Collection
	ONC+ Developer's Guide	Solaris 8 Software Developer Collection
	Solaris 64-bit Developer's Guide	Solaris 8 Software Developer Collection
	Source Compatibility Guide	Solaris 8 Software Developer Collection
	SPARC Assembly Language Reference Manual	Solaris 8 Software Developer Collection
	STREAMS Programming Guide	Solaris 8 Software Developer Collection
	System Interface Guide	Solaris 8 Software Developer Collection
	WebNFS Developer's Guide	Solaris 8 Software Developer Collection
	Writing FCode 3.x Programs	OpenBoot Collection
	IA-32 Assembly Language Reference Manual	Solaris 8 Software Developer Collection

TABLE 3–5 Developing Applications *(continued)*

Subject	Book Title	Where to Find it
Desktop Applications	*Common Desktop Environment: Application Builder User's Guide*	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Desktop KornShell User's Guide	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Help System Author's and Programmer's Guide	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Internationalization Programmer's Guide	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Product Glossary	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Programmer's Overview	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: Style Guide and Certification Checklist	Solaris Common Desktop Environment Developer Collection
	Common Desktop Environment: ToolTalk Messaging Overview	Solaris Common Desktop Environment Developer Collection
	International Language Environments Guide	Solaris 8 Software Developer Collection
	Solaris 64-bit Developer's Guide	Solaris 8 Software Developer Collection
	Solaris Common Desktop Environment: Motif Transition Guide	Solaris Common Desktop Environment Developer Collection

TABLE 3–5 Developing Applications *(continued)*

Subject	Book Title	Where to Find it
Desktop Applications *(continued)*	*Solaris Common Desktop Environment: Programmer's Guide*	Solaris Common Desktop Environment Developer Collection
	Solaris X Window System Developer's Guide	Solaris 8 Software Developer Collection
	ToolTalk User's Guide	Solaris 8 Software Developer Collection
Graphics, Multimedia Applications, and Imaging	*KCMS Application Developer's Guide*	KCMS™ Collection
	KCMS CMM Developer's Guide	KCMS Collection
	KCMS CMM Reference Manual	KCMS Collection
	KCMS Calibrator Tool Loadable Interface Guide	KCMS Collection
	KCMS Test Suite User's Guide	KCMS Collection
Devices	*Writing Device Drivers*	Solaris 8 Software Developer Collection

Man Page Documentation

The following table lists the sections of the Solaris 8 Reference Manual. To access these documents, use the `man` command, or refer to the Solaris 8 Reference Manual Collection on the Solaris 8 Documentation CD.

TABLE 3–6 Man Page Documentation

Solaris 8 Reference Manual Section and Content
man pages section 1: User Commands
man pages section 1M: System Administration Commands
man pages section 2: System Calls
man pages section 3: Library Interfaces and Headers
man pages section 3: Basic Library Functions
man pages section 3: Networking Library Functions
man pages section 3: Threads and Realtime Library Functions
man pages section 3: Extended Library Functions
man pages section 3: Curses Library Functions
man pages section 4: File Formats
man pages section 5: Standards, Environments, and Macros
man pages section 6: Demos
man pages section 7: Device and Network Interfaces

TABLE 3–6 Man Page Documentation *(continued)*

Solaris 8 Reference Manual Section and Content
man pages section 9: DDI and DKI Overview
man pages section 9E: DDI and DKI Driver Entry Points
man pages section 9F: DDI and DKI Kernel Functions
man pages section 9S: DDI and DKI Data Structures

CHAPTER 4

Documentation Descriptions

This chapter lists the Solaris 8 documentation collections and provides a brief description of each document in these collections.

Printed Documents

The following documents are provided in print. (For documents that are online, refer to “Documents on the Solaris 8 Documentation CD” on page 26).

Note - You might not have printed documents if your software was preinstalled. You might have printed documentation from your hardware manufacture or for other products that are packaged with Solaris software. Other products packaged with Solaris software are not described here.

TABLE 4–1 Solaris 8 Printed Documents

Document	Description
Solaris 8 (SPARC Platform Edition) Release Notes or *Solaris 8 (Intel Platform Edition) Release Notes*	The printed Solaris 8 Release Notes, provided with the product, contain all installation issues known at the time of release. For runtime issues, see the *Solaris 8 (SPARC Platform Edition) Online Release Notes* or *Solaris 8 (Intel Platform Edition) Online Release Notes*. Also, for any updates, see the *Solaris 8 Online Release Notes* on `http://docs.sun.com`.
Solaris 8 Start Here	This booklet outlines how to use Solaris Web Start to install the Solaris operating environment and related software on both the SPARC and IA platforms.

Documents on the Solaris 8 Documentation CD

The following documents and AnswerBook collections are provided on the Solaris 8 Documentation CD. For information on viewing the contents of the AnswerBook2 collections, refer to the section “Viewing Online AnswerBook2 Documentation” on page 8.

Solaris 8 Documentation CD README

The *Solaris 8 Documentation CD README* contains information about the contents of the Documentation CD. It includes information on installing the AnswerBook2 server software and accessing online documentation.

KCMS Collection

The KCMS Collection contains documents relevant for software developers using the Kodak Color Management System™ (KCMS™) application program interface. A brief description of each KCMS document follows.

TABLE 4–2 KCMS Collection

KCMS Document	Description
KCMS Application Developer's Guide	This book describes the Kodak Color Management System (KCMS) framework application programming interface (API). The KCMS framework enables the accurate reproduction, and improves the appearance of, digital color images on desktop computers and associated peripherals. With this API you can write applications that perform correct color conversions and manipulations.
KCMS CMM Developer's Guide	This book describes how to create a KCMS color management module (CMM). It provides information on how to use the KCMS foundation library, which is a graphics porting interface (GPI) implemented in C++. These interfaces link the device-independent layer of the KCMS library with the color module and enable the flow of data from the application to the color module. Read this document if you are a driver developer who is writing a color module for color management technology.
KCMS CMM Reference Manual	This book describes each C++ class in the KCMS foundation library. This library is a graphics porting interface implemented in C++ for creating KCMS color modules. Read this document if you are a driver developer who is writing a color module for color management technology.
KCMS Calibrator Tool Loadable Interface Guide	This book describes how to create a dynamically loadable device handler module that provides the KCMS Calibrator Tool with color correction data to update ICC format files. The document presents an overview of the interaction between the dynamically loadable module and the KCMS Calibrator Tool.
KCMS Test Suite User's Guide	This book describes a suite of test scripts and the testing facility the CMM developer can use to ensure that a CMM is KCMS-framework compliant. The document is also a reference for anyone interested in the development and use of the KCMS framework.

OpenBoot Collection

The OpenBoot Collection contains documents that are relevant to those who use OpenBoot™ firmware to configure and debug systems. A brief description of each document follows.

TABLE 4–3 OpenBoot Collection

OpenBoot Document	Description
OpenBoot 2.x Command Reference Manual	This book describes the OpenBoot 2.x firmware that is part of the boot PROM in Sun systems. The features of the OpenBoot firmware allow it to be used by end users as well as by system administrators and developers. This document is for those who want to use the OpenBoot 2.x firmware to configure and debug their systems.
OpenBoot 2.x Quick Reference	This quick-reference card is a companion document to the *OpenBoot 2.x Command Reference Manual*. The card has a convenient fold-out format, and provides useful tables from the Command Reference Manual.
OpenBoot 3.x Command Reference Manual	This book describes how to use Sun systems that implement firmware that responds as described by IEEE Standard 1275-1994. This document is written for all users, from systems designers to systems administrators and end users, who want to use OpenBoot to configure and debug their systems.
OpenBoot 3.x Quick Reference	This quick-reference card is a companion document to the *OpenBoot 3.x Command Reference Manual*. The card is a brief summary of the OpenBoot 3.x commands that can be used to administer and develop for hardware that includes OpenBoot firmware.
Writing FCode 3.x Programs	This book describes how to write, debug, and test FCode programs for SPARC-based systems and PCI or SBus interface card devices. This document is written for designers who have some familiarity with PCI or SBus card design requirements and Forth Programming.

Solaris Common Desktop Environment Developer Collection

The Solaris Common Desktop Environment Developer Collection contains documents relevant for software developers programming in the Common Desktop Environment (CDE). A brief description of each document follows.

TABLE 4–4 Solaris Common Desktop Environment Developer Collection

Solaris CDE Document	Description
Common Desktop Environment: Application Builder User's Guide	This book introduces the Application Builder and shows you how to use it. The Application Builder is an interactive tool for developing applications. It provides features that facilitate both the construction of an application's graphical user interface and the incorporation of CDE's desktop services, including the Help System, ToolTalk™ messaging, drag and drop, and the Session Manager.
Common Desktop Environment: Desktop KornShell User's Guide	This book explains how to use the Desktop KornShell to create Motif applications. It introduces basic `dtksh` skills and provides several sample scripts. The samples are presented in order of increasing complexity, so you can gradually build your understanding of how `dtksh` works. The guide also includes a list of the commands supported by `dtksh` and their syntaxes.
Common Desktop Environment: Help System Author's and Programmer's Guide	This book describes how to develop online help for Common Desktop Environment application software. It explains how to create help topics and how authors and developers collaborate to integrate online help into a Motif application. For authors, this document is a step-by-step guide to creating and testing online help that can contain multiple text styles, graphics, and hyperlinks. For application developers, this document describes the Help System application programming interface that allows the application to invoke help topics. It explains the help dialog widgets, how to respond to help requests, and how to navigate hyperlink data.
Common Desktop Environment: Internationalization Programmer's Guide	This book provides information for internationalizing an application so that it can support various languages and cultural conventions in a consistent user interface. This document contains guidelines and hints for developers on how to write applications for worldwide distribution, an overall view of internationalization topics that span different layers within the desktop, and pointers to reference and more detailed documentation.
Common Desktop Environment: Product Glossary	This book provides a comprehensive list of terms used in the Common Desktop Environment and is a resource and reference base for all users of CDE. Glossary definitions can include information about the audience, where the term originated, the CDE component that uses the term in its graphical user interface, and a preferred term where appropriate.
Common Desktop Environment: Programmer's Overview	This book provides a high-level view of the Common Desktop Environment development environment and the developer documentation set. It also contains an architectural overview of the entire CDE desktop.

TABLE 4–4 Solaris Common Desktop Environment Developer Collection *(continued)*

Solaris CDE Document	Description
Common Desktop Environment: Style Guide and Certification Checklist	This book provides application design style guidelines and the list of requirements for Common Desktop Environment application-level certification. This document provides information to assist the application designer in developing consistent applications and behaviors within the applications. By default, this checklist assumes that your application is being designed for a left-to-right language environment in an English-language locale. These style requirements consist of the Motif 2.1 requirements with Solaris Common Desktop Environment-specific additions. Though Solaris 8 software predates the Open Group's CDE 2.1 standard, you might also want to consult the Style Guide Set published by the Open Group for additional style considerations.
Common Desktop Environment: ToolTalk Messaging Overview	This book describes the ToolTalk components, commands, and error messages offered as routines to enable your application to conform to the Media Exchange and Desktop Services message set conventions. This document is for developers who create or maintain applications that use the ToolTalk service to interoperate with other applications in the Common Desktop Environment.
Solaris Common Desktop Environment: Motif Transition Guide	This book addresses issues of concern to Sun Motif developers: how to run existing OPEN LOOK and Motif applications on the OpenWindows™ and Solaris Common Desktop Environment desktops; and porting OPEN LOOK and Motif applications to the Solaris CDE environment. This document assumes familiarity with OPEN LOOK or Motif programming.
Solaris Common Desktop Environment: Programmer's Guide	This book describes the Solaris Common Desktop Environment. Use this guide if you are a programmer integrating an existing application into Solaris CDE, or developing a new application that uses the features and functionality of Solaris CDE. Some sections of this guide assume familiarity with Motif, X, UNIX®, or C programming. It is intended for use alongside the *Common Desktop Environment: Programmer's Overview*, and the *Motif Programmer's Reference Set* published by The Open Group.

Solaris 8 Installation Collection

The Solaris 8 Installation Collection contains documents relevant to installing on a desktop or a network. A brief description of each document in this collection follows.

For information on printed installation documents, see "Printed Documents" on page 25.

Note - The documents in the installation collection are also available in French, German, Italian, Swedish, and Spanish in the following packages:

- Collection de manuels d'installation Solaris 8
- Solaris 8 Installation-Dokumentationsreihe
- Installationssamling för Solaris 8
- Solaris 8: Colección de instalación
- Collezione per l'installazione di Solaris 8

TABLE 4–5 Solaris 8 Installation Collection

Installation Document	Description
Solaris 8 (Intel Platform Edition) Device Configuration Guide	This book contains guidelines and Device Reference Pages to use when configuring IA devices to run with Solaris *Intel Platform Edition*.
Solaris 8 (Intel Platform Edition) Hardware Compatibility List	This book provides information about IA hardware requirements and supported system platforms and devices for Solaris *Intel Platform Edition*. The contents are presented in tables, by manufacturer and model, and the document is designed to be scanned quickly. This book also contains information about how to obtain drivers and supplemental driver documentation developed between Solaris *Intel Platform Edition* product releases.
Solaris 8 (SPARC Platform Edition) Installation Guide and *Solaris 8 (Intel Platform Edition) Installation Guide*	These books describe how to use Solaris Web Start to install the Solaris operating environment and related software.
Solaris 8 Advanced Installation Guide	This book describes how to install the Solaris operating environment on both networked and non-networked, SPARC and IA platforms. It describes how to use the Solaris Interactive Installation Program and the Solaris JumpStart™ technology to set up, automate, customize, and automatically install Solaris on any number of systems, primarily in enterprise network environments.
What's New in the Solaris 8 Operating Environment	This book contains high-level feature descriptions of new functionality in the Solaris 8 operating environment.

Solaris 8 Reference Manual Collection

The Solaris 8 Reference Manual Collection contains the *SunOS Reference Manual* man pages. These sections are in SGML format.

TABLE 4–6 Solaris 8 Reference Manual Collection

Man Page Section	Description
man pages section 1: User Commands	This section describes the commands and utilities available with this operating system, including commands found only in the SunOS/BSD Compatibility Package; commands for communicating with other systems; commands associated with the Form and Menu Language Interpreter (FMLI); and commands specific to the SunOS system. The available options, arguments, and operands for each command are provided in accordance with standard rules of command syntax, along with availability attributes, diagnostic information, and cross-references to other document pages and reference material with relevant information. This section is for all UNIX system users.
man pages section 1M: System Administration Commands	This section describes the Solaris system administration and maintenance utilities and is for system and network administrators.
man pages section 2: System Calls	This section describes the system calls. A system call is a C library function that requests kernel services. Readers of this section should be familiar with C programming language constructs.
man pages section 3: Library Interfaces and Headers	This section describes the interface libraries that are implemented as shared objects and the headers that are used by the functions that make up these libraries. Headers contain function prototypes, definitions of symbolic constants, common structures, preprocessor macros, and defined types. Readers of this section should be familiar with C programming language constructs.
man pages section 3: Basic Library Functions	This document describes the core library functions found in the standard C library (`libc`), the dynamic linking library (`libdl`), the SunOS/BSD compatibility library (`libucb`), and the various memory allocation libraries. Readers of this section should be familiar with C programming language constructs.

TABLE 4–6 Solaris 8 Reference Manual Collection *(continued)*

Man Page Section	Description
man pages section 3: Networking Library Functions	This section describes the functions in the various networking libraries, including the Kerberos library (`libkrb`), the Lightweight Directory Access Protocol (LDAP) library (`libldap`), the network service library (`libnsl`), the remote asynchronous calls library (`librac`), the resolver library (`libresolv`), the remote procedure call libraries (`librpcsvc` and `librpcsoc`), the sockets library (`libsocket`), the X/Open® Federated Naming (XFN) library (`libxfn`), and the X/Open network service library (`libxnet`). Readers of this section should be familiar with C programming language constructs.
man pages section 3: Threads and Realtime Library Functions	This section describes the functions in the threads libraries (`libthread` and `libthread`), the realtime library (`librt`), and other related libraries. Readers of this section should be familiar with C programming language constructs.
man pages section 3: Extended Library Functions	This section describes the functions in the various specialized libraries, including device ID (`libdevid`) and device information (`libdevinfo`) libraries, executable and linking format (ELF) library (`libelf`), kernel statistics (`libkstat`) and kernel VM (`libkvm`) libraries, and the mathematical library (`libm`). Readers of this section should be familiar with C programming language constructs.
man pages section 3: Curses Library Functions	This section describes the functions in the libraries that provide graphics and character screen updating capabilities, including the curses library (`libcurses`), the forms library (`libform`), the menus library (`libmenu`), the panels library (`libpanel`), and the graphics interface library (`libplot`). Readers of this section should be familiar with C programming language constructs.
man pages section 4: File Formats	This section outlines the formats of various files that include the C structure declarations, where applicable. The headers containing these structure declarations are generally found in the directories `/usr/include` or `/usr/include/sys`. In the pages that outline the various library structures, both public and private interfaces are listed. A public interface provides a stable, committed set of symbols for application development; private interfaces are for internal use only and can change at any time. This section is for software engineers.
man pages section 5: Standards, Environments, and Macros	This section describes miscellaneous subjects, including headers, environments, macro packages, character sets, and standards. These descriptions provide further elaboration on Solaris constructs described elsewhere in this section.
man pages section 6: Demos	This section describes audio and video games and demos provided by Solaris software.

TABLE 4–6 Solaris 8 Reference Manual Collection *(continued)*

Man Page Section	Description
man pages section 7: Device and Network Interfaces	This section describes the various device and network interfaces available on the system. It includes descriptions of character and block devices, STREAMS modules, network protocols, file systems, and `ioctl( )`requests for driver subsystems and classes. This section is for software engineers who write, maintain, or modify device drivers.
man pages section 9: DDI and DKI Overview	This section describes the reference information required to write device drivers, which control data transferred to and received from peripheral devices, and are developed independently from the kernel. This section is for software engineers who write, modify or maintain device drivers. Readers should be familiar with the C programming language as well as system internals.
man pages section 9E: DDI and DKI Driver Entry Points	This section describes entry-point routines a developer can use to provide calling and return syntax from the kernel to the device driver. This section is for software engineers who write, modify, or maintain device drivers. Readers should be familiar with the C programming language as well as system internals.
man pages section 9F: DDI and DKI Kernel Functions	This section describes functions a developer can use to provide calling and return syntax from a device driver to the kernel. This section is for software engineers who write, modify, or maintain device drivers. Readers should be familiar with the C programming language as well as system internals.
man pages section 9S: DDI and DKI Data Structures	This section describes the data structures used by drivers to share information between the kernel and device drivers. This section is for software engineers who write, modify, or maintain device drivers. Readers should be familiar with the C programming language as well as system internals.

Solaris 8 Release Documents Collection

The Solaris 8 Software Release Documents Notes Collection contains documents relevant for any user. A brief description of the release notes follows.

TABLE 4–7 Solaris 8 Release Documents Collection

Release Document	Description
Solaris 8 (SPARC Platform Edition) Online Release Notes or *Solaris 8 (Intel Platform Edition) Online Release Notes*	These books contain installation and runtime issues, CERT Advisories, late-breaking new features, end-of-software-support statements, documentation issues, driver update information, and a list of integrated patches. They are on the Solaris 8 Documentation CD and any update is available on `http://docs.sun.com`. Also see the printed *Solaris 8 (SPARC Platform Edition) Release Notes* or *Solaris 8 (Intel Platform Edition) Release Notes*.

Solaris 8 Software Developer Collection

The Solaris 8 Software Developer Collection contains documents relevant for software developers working in the Solaris environment. A brief description of each document follows.

TABLE 4–8 Solaris 8 Software Developer Collection

Authentication Management Infrastructure Programming Guide	This guide describes the Java™ and C APIs available from the Java Developer's Toolkit 1.2 and the `libami.so` C library for building a public-key infrastructure. It contains material and code samples that explain how to build functionality, such as a key pair and certificate generation, and encryption services.
Application Packaging Developer's Guide	This book provides step-by-step instructions and relevant background information for designing, building, and verifying packages. This document also includes information on, and examples of, advanced techniques that you might find helpful during the package creation process.
Federated Naming Service Programming Guide	This book provides support for flexible composition of different, autonomous naming systems into a single service, accessible using a single, simple naming system interface.
International Language Environments Guide	This book describes new internationalization features in the Solaris 8 operating environment. It contains important information on how to use Solaris 8 software to build software products that support various languages and cultural conventions. It contains guidelines and hints for developers on how to use Solaris 8 software to write applications for international markets, and includes pointers to more detailed documentation.

TABLE 4–8 Solaris 8 Software Developer Collection *(continued)*

JDK 1.1 for Solaris Developer's Guide	This book gives Java developers information about using Java on the Solaris 2.6, Solaris 7 and Solaris 8 operating environment. It includes overviews and descriptions of the important components and their benefits for developers, and describes how to use Java on Solaris to get the best performance for your applications. In addition, this document covers compatibility and style issues.
Java 2 SDK for Solaris Developer's Guide	This book gives Java developers information about using Java in the Solaris 8 operating environment. It includes overviews and descriptions of the new components of Java on Solaris and their benefits for developers. This document also includes compatibility and style issues.
Linker and Libraries Guide	This book describes the operations of the Solaris link editor and runtime linker, and the objects on which they operate. The main areas this guide includes are: the Link-Editor: `ld(1)`, the Runtime Linker: `ld.so.1(1)`, Shared Objects (sometimes referred to as Shared Libraries), and the ELF object file format.
Multithreaded Programming Guide	This book includes the POSIX and Solaris threads APIs, programming with synchronization objects, compiling multithreaded programs, and finding analysis tools for multithreaded programs. This guide is for developers who want to use multithreading to separate a process into many independent execution threads to improve application performance and structure.
Network Interface Guide	This book presents the most basic interfaces that allow an application developer to construct networking applications: Internet domain sockets, XTI and TLI, transport selection, and mappings between names and addresses. It also provides information on other fundamental networking technology. The *ONC+ Developer's Guide* explains higher level networking interfaces.
ONC+ Developer's Guide	This book describes the programming interfaces to remote procedure call (RPC) and to NIS+ (a network name service), which belong to the ONC+™ distributed services developed at Sun Microsystems. The guide describes converting an existing single-computer application to a networked, distributed application, as well as developing and implementing distributed applications.
Solaris Modular Debugger Guide	This book describes the Solaris Modular Debugger (MDB), which is a new general purpose debugging tool for the Solaris operating environment. The primary feature of MDB is its extensibility. This book describes how to use MDB to debug complex software systems, with a particular emphasis on the facilities available for debugging the Solaris kernel and associated device drivers and modules. The book also includes a complete reference for and discussion of the MDB language syntax, debugger features, and MDB Module Programming API.

TABLE 4–8 Solaris 8 Software Developer Collection *(continued)*

Solaris 64-bit Developer's Guide	This book is written primarily for the application developer and provides guidance on choosing whether to use the 32-bit or 64-bit Solaris application programming environment. It explains the similarities and differences between the 32-bit and 64-bit application environments and explains how to write code that is portable between the two environments. This book also describes some of the tools provided by the operating system for developing 64-bit applications.
Solaris X Window System Developer's Guide	This book provides detailed information for software developers interested in interfacing with the Solaris X server. Read this document for detailed information about features of the Solaris X server, the DPS imaging system, supported display devices, authorization schemes and protocols for server connections, and differences from and enhancements to the X Consortium sample server.
Source Compatibility Guide	This book describes installation, use, and the components of the *SunOS/BSD Source Compatibility Package*. The optional *SunOS/BSD Source Compatibility Package* provides many SunOS 4.0 operating system and compatible versions and BSD interfaces not otherwise available in the SunOS 5.0 operating system and other compatible versions, and other interfaces that might differ in functionality between the SunOS 4.0 operating system and compatible versions, and the SunOS 5.0 operating system and compatible versions.
SPARC Assembly Language Reference Manual	This book describes the assembler that runs on the SPARC architecture and translates source files that are in assembly language format into object files in linking format. The text in this book is current to Solaris 7 software.
STREAMS Programming Guide	This book provides a full introduction to the STREAMS facility for UNIX system communications services in the Solaris environment. It includes STREAMS mechanisms, modules, drivers, pipes, polling, signalling, and multiplexing, and includes examples.
System Interface Guide	This book is the most general of a set that describes the major elements of the Application Programming Interface. This guide introduces the Application Programming Interface concept and describes the process control, scheduling control, file input/output, System V interprocess communication, memory management, and real time interfaces. Other documents in the set are the *STREAMS Programming Guide*, the *Multithreaded Programming Guide*, and the *Network Interface Guide*.
ToolTalk User's Guide	This book describes the ToolTalk service and how to modify applications to send and receive ToolTalk messages. This document is for developers who create or maintain applications that use the ToolTalk service to interoperate with other applications; it is also useful for system administrators who set up workstations. This guide assumes familiarity with Solaris operating environment commands, system administrator commands, and system terminology.

TABLE 4–8 Solaris 8 Software Developer Collection *(continued)*

WebNFS Developer's Guide	This book includes information about the following topics: ■ NFS™ classes for the Extended File system (XFile) API, the first implementation of remote file system access for Java applications that provides 100% Pure Java™ compatibility. ■ Extended File system (XFile) API classes that provide a common interface for multiple file system types and allow for dynamic loading of file system implementations. The API also provides a means to access file and file system-specific information. ■ WebNFS Client SDK for Java™, including Java class libraries that provide a way to access files using the same UI for local and remote file access. ■ The XFileChooser JavaBeans™ component, which provides a Graphical User Interface (GUI) component for selecting files based on the XFile API.
Writing Device Drivers	This book provides information on developing device drivers for character-oriented devices, block-oriented devices, and SCSI HBA devices for the Solaris operating environment. This book discusses how to develop multithreaded reentrant device drivers for all architectures that conform to the Solaris DDI/DKI. A common driver programming approach is described that enables drivers to be written without concern for platform-specific issues such as endianness and data ordering. Additional topics include porting Solaris drivers to a 64-bit environment, cluster-aware drivers, and hardened drivers.
IA-32 Assembly Language Reference Manual	This book describes the assembler that generates code for the Intel 32-bit processor architecture (IA-32) and translates source files that are in assembly language format into object files in linking format. The text in this book is current to Solaris 7 software.

Solaris 8 System Administrator Collection

The Solaris 8 System Administrator Collection contains online documents describing all aspects of system administration and SunOS commands. A brief description of each document follows.

TABLE 4–9 Solaris 8 System Administrator Collection

System Administrator Document	Description
About Solaris 8 Documentation	This book lists the documentation needed to install and use Solaris 8 software. It also provides a tabular organization of the documents by task and brief descriptions of these documents.
Authentication Management Infrastructure Administration Guide	This book explains how to set up and administer a public key infrastructure, which generates the keys used in encrypted communications. It also contains procedures for Certificate Authority activities, including generating certificates that authenticate users and verifying signatures on encrypted communications.
Binary Compatibility Guide	This book is intended for application writers who want to ensure that their SunOS 4.0 operating system applications, and compatible versions of them, will execute easily on the Solaris 8 release. It describes the binary compatibility package, what it does and does not handle, and how to install and use it. It also discusses specific areas to consider in developing an application or in evaluating how easily an existing application on one of these SunOS versions will execute on this release. Most important, this guide describes areas where binary compatibility is not available. The Binary Compatibility Package on Solaris 2.0 operating environment and compatible versions emulates SunOS versions. This allows executables compiled and linked on these SunOS versions to execute on he Solaris 8 operating environment.
Font Administrator User's Guide	This book provides detailed instructions for managing fonts in the OpenWindows environment.
NIS+ Transition Guide	This book describes how to convert a site running the NIS name service to a site running the NIS+ name service. It provides an introduction and overview of the transition process, information about designing a new NIS+ name space, planning security measures, and running NIS+ in NIS-compatibility mode. It includes the prerequisites and steps required to implement a NIS-to-NIS+ transition.
Service Location Protocol Administration Guide	This book provides a conceptual description of the Service Location Protocol (SLP) V2 framework as it is implemented in the Solaris 8 software. The document also provides a checklist of considerations for planning and administering the SLP agents. It also includes procedures for logically or geographically extending the network, for activating the SLP-specific security feature, and for setting other SLP agent property configurations to optimize agent performance on the network.
Solaris Common Messages and Troubleshooting Guide	This book lists causes, solutions, background information, and references for more than 250 common Solaris error messages.

TABLE 4–9 Solaris 8 System Administrator Collection *(continued)*

System Administrator Document	Description
Solaris Java Plug-in User's Guide	This book describes Java Plug-in 1.2 for the Solaris operating environment, an add-on product for Netscape Navigator™, which enables Java applets and JavaBeans components to run on Web pages using Java Runtime Environment (JRE) 1.2 instead of the default Java Virtual Machine (JVM) bundled with Navigator.
Solaris Naming Administration Guide	This book describes how to customize and administer existing NIS+, NIS, FNS, and DNS name spaces. It provides overview descriptions of these four name services, conceptual information describing how they work, and step-by-step descriptions and explanations of how to perform common name space administration tasks. This guide also includes common name space error messages and a troubleshooting appendix.
Solaris Naming Setup and Configuration Guide	This book describes how to set up and configure NIS+, NIS, FNS, and DNS name services in a Solaris environment. It provides network planning instructions and step-by-step set up and configuration instructions for each of the four naming services. It also describes the name service switch file (`nsswitch.conf`) and how to use it to coordinate the use of multiple naming services in a single environment.
Solaris Smart Cards Administration Guide	This book tells security administrators how to set up Solaris smart cards and card readers so that they can be used to authenticate users attempting to log in to the desktop or other application. It also tells owners how to use their smart cards.
Solaris Transition Guide	This book focuses on the differences between the SunOS release 4 and SunOs release 5.7 operating systems for anyone already familiar with the SunOS release 4 operating system. This book also describes other aspects of the Solaris 7 operating environment that can help end users, developers, and system administrators through the transition.
Solaris Transition Guide Update	This book is designed to be used with *Solaris Transition Guide* to help users, system administrators, and developers transition from SunOS release 4 to SunOS release 5. Information on differences between the Solaris 1 and Solaris 7 operating environments is documented in the *Solaris Transition Guide*. This update focuses on those changes specific to SunOS release 5.8 delivered with the Solaris 8 software.
Solaris WBEM Services Administrator's Guide	This book explains Common Information Model (CIM) concepts and describes how to administer Web-Based Enterprise Management (WBEM) services in the Solaris operating environment.

TABLE 4–9 Solaris 8 System Administrator Collection *(continued)*

System Administrator Document	Description
Solstice Enterprise Agents 1.0 User Guide	This book covers Solstice Enterprise Agents™, an extensible agent technology that uses the Simple Network Management Protocol (SNMP) to manage different components and applications separately within a device. It describes how to install and configure Solstice Enterprise Agents components, how to invoke Master Agents and subagents, and how to use the Desktop Management Interface (DMI).
SunSHIELD Basic Security Module Guide	This document is intended for the system administrator whose duties include setting up and maintaining the SunSHIELD™ Basic Security Module (BSM). The product provides the security features defined as C2 in the Trusted Computer System Evaluation Criteria (TCSEC). The document includes installation instructions, explains how to administer auditing using BSM, provides audit trail analysis processes, and describes how to allocate devices. In addition, it contains a detailed description of the audit records.
System Administration Guide, Volume 1	This book is for anyone responsible for administering one or more systems running the Solaris 8 release. It covers a broad range of Solaris system administration topics such as managing user accounts and groups; managing server and client support; shutting down and booting a system; managing removable media; managing software (packages and patches); managing disks and devices; managing file systems, and backing up and restoring data. Topics are described for both SPARC and IA based systems where appropriate.
System Administration Guide, Volume 2	This book is for anyone responsible for administering one or more systems running the Solaris 8 release. It covers a broad range of Solaris system administration topics such as managing printing services; working with remote systems (`rlogin`, `ftp`, and `rcp`); managing terminals and modems; managing system security; managing system resources (disk quotas, accounting, and crontabs); managing system performance; and troubleshooting Solaris software problems. Topics are described for both SPARC and IA based systems where appropriate.
System Administration Guide, Volume 3	This book is for anyone responsible for administering one or more systems running the Solaris 8 release. It covers a broad range of Solaris network administration topics such as managing TCP/IP networks, modems, remote file systems, mail and DHCP. Topics are described for both SPARC and IA based systems where appropriate.

Solaris 8 User Collection

The Solaris 8 User Collection contains documents relevant to users of workstations, and includes use of the Common Desktop Environment software, the OpenWindows DeskSet™ tools, and tasks performed at the command line that are common to any desktop environment. A brief description of each document follows.

Note - The documents in the User Collection are also available in French, German, Italian, Swedish, and Spanish in the following packages:

- Solaris 8 User-Dokumentationsreihe
- Collection de manuels utilisateur Solaris 8
- Användarboksamling för Solaris 8
- Solaris 8: Colección de manuales de usario
- Collezione per l'utente di Solaris 8

TABLE 4–10 Solaris 8 User Collection

User Document	Description
OpenWindows Advanced User's Guide	This guide is for users of the Solaris system software, which consists of SunOS and OpenWindows. Use this guide to learn how to log in and out, start OpenWindows, use basic SunOS commands to get more information, work with files and directories, search the file system, use passwords, monitor processes and disk usage, use the `vi` editor, send electronic mail, print documents, use the network, and customize the environment. This guide also provides information about making the transition to OpenWindows 3.3 and Solaris 2.5, modifying keyboard behavior, running networked applications, and using PCMCIA cards. This guide provides detailed instructions for managing fonts in the OpenWindows environment.
OpenWindows User's Guide	This book provides new and experienced users with the basic information to get started with the Solaris user environment using OpenWindows and DeskSet applications. It describes tasks such as using the mouse, icons, scrollbars, windows, menus, pushpins, choosing exclusive and non-exclusive items, selecting from a scrolling list, and multiple objects. Additional topics include how to modify the OpenWindows workspace, troubleshooting, and how to access the AnswerBook2 server software to view documents online.

TABLE 4–10 Solaris 8 User Collection *(continued)*

User Document	Description
Solaris Common Desktop Environment: Advanced User's and System Administrator's Guide	This book explains the advanced tasks needed to customize the appearance and behavior of the Solaris Common Desktop Environment (CDE). It includes chapters on customizing system initialization; login; session initiation; adding applications and providing interface representations for applications and their data; configuring desktop processes, applications, and data across the network; and customizing desktop services such as window management, printing, colors, and fonts.
Solaris Common Desktop Environment: User's Guide	This book describes the basic features of the CDE. It describes how to use the desktop and desktop applications.
Solaris Common Desktop Environment: User's Transition Guide	This book is for users who are making the transition from the OpenWindows environment to the Common Desktop Environment. It discusses CDE as a graphical operating environment and, where helpful, identifies the differences in behavior between OpenWindows and CDE. The answers to frequently asked questions have been integrated into the relevant topics. This document gives only an overview of CDE features and functions. You will find more complete information in *Solaris Common Desktop Environment: User's Guide* and the CDE online help.
Using Power Management	This book describes use of Power Management™ hardware and software features on desktop machines. The hardware features allow the machine to shut down or reduce power consumption when it has been idle, according to conditions set with the software. This book covers use of the GUI and command line operations and activation of Suspend-Resume features through the keyboard.