Viewing Online Documentation Using the AnswerBook2 System

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Part No: 805-4189
September 1998

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Preface

This book provides information on using the AnswerBook2 product to view online information.

Who Should Use This Book

Anyone who uses the AnswerBook2 software might need to use this book.

How This Book Is Organized

This book contains the following information:

- Chapter 1 provides an introduction to the AnswerBook2 product.
- Chapter 2 explains how to start viewing online documentation.
- Chapter 3 describes the kinds of pages you see in this product and how to move among them.
- Chapter 4 describes the special interface the AnswerBook2 product provides for SGML-based man pages.
- Chapter 5 explains how to use the product to search for information.
- Chapter 6 explains how to print a book or sections of a book in a PostScript format that includes typical printed information, such as page numbers.
- Chapter 7 identifies some known areas of confusion and how to respond to them.
- *Glossary* lists terms and definitions associated with the product.

Ordering Sun Documentation

The SunDocs program provides more than 250 manuals from Sun Microsystems, Inc. If you live in the United States, Canada, Europe, or Japan, you can purchase documentation sets or individual manuals using this program.

For a list of documents and how to order them, see the catalog section of the SunExpress™ Internet site at `http://www.sun.com/sunexpress`.

CHAPTER 1

Introduction

This chapter introduces the AnswerBook2 product and explains where you can find more information about using it. It includes the following information:

- "AnswerBook2 Overview" on page 1
- "AnswerBook2 Features and Functions" on page 2
- "New AnswerBook2 Features for This Release" on page 2
- "Pieces and Parts" on page 3
- "Frequently Asked Questions" on page 3

For information about running a documentation server, rather than viewing documentation, see *Installing and Administering an AnswerBook2 Server*.

AnswerBook2 Overview

The AnswerBook2 product is Sun's online documentation system. It uses a web-browser interface that lets you view and print a variety of Solaris information, including SGML-based AnswerBook™ collections, Display PostScript™ AnswerBook collections, and man pages.

The AnswerBook2 product provides a search engine that lets you find information throughout the documentation library. You can install AnswerBook2 document collections on a centralized documentation server or on a local server.

Note - Throughout the AnswerBook2 documentation, the term *AnswerBook1* refers to the version of the AnswerBook product provided with pre-2.6 versions of the Solaris operating environment.

AnswerBook2 Features and Functions

The AnswerBook2 product provides the following features and functions:

- Uses a web-browser-based interface so that you can view online documentation from any platform (running any operating system), provided that your web browser supports HTML 3.2
- Lets you copy information from AnswerBook2 documents and paste it into other locations, such as your command line, depending on your web browser's functionality
- Provides a search engine for finding words and word phrases throughout the documentation library
- Gives you the ability to print sections and books directly from the AnswerBook2 interface in a PostScript format that is near print-quality output
- Lets you view old and new AnswerBook documents using a single interface
- Lets you define a subset of document collections (a Personal Library) to be displayed when using a specific documentation server
- Allows you to choose a language in which to view on-screen instructions and Help information
- Uses a client-server architecture that allows the documents to be stored in a single location (server) and accessed from the user's desktop (client)
- Provides a command-line interface (CLI) and a browser-based interface (GUI) for performing documentation server administration functions

New AnswerBook2 Features for This Release

The following list identifies the new or substantially enhanced features provided in this release of the AnswerBook2 software.

- Man pages (Reference Manual) in AnswerBook2 format

  Traditional UNIX-style manual (man) pages are available in AnswerBook2 format. The search interface allows you to choose to search only the SGML-based man pages installed on the documentation server.

- Support for multimedia content

  If the document source includes audio or video files, the AnswerBook2 system lets you access them according to what you have defined in your browser for audio and video support.

- Ability to run an AnswerBook2 server directly from the CD

  You can run the AnswerBook2 server directly from the Solaris 7 Documentation CD using the `ab2cd` script if you have the CD and you have root access to the system on which the CD is connected. For detailed information about this feature,

see the section *Running a Documentation Server from the CD* in *Installing and Administering an AnswerBook2 Server*.

Pieces and Parts

The AnswerBook2 product consists of the following elements:

- A client web browser — The Solaris 7 release includes the Netscape™ browser; however, you can use any HTML 3.2-compliant browser to view Sun's online documentation. To view Solaris 7 documentation, you need to know the URL for a documentation server or you can view all released Solaris documentation at `http://docs.sun.com`.

Note - If you just want to view online documentation, you only need this element. All other elements are part of the documentation server system.

- A documentation server — Performs query functions and "serves" documents to the client browser. Includes templates that provide a common "look and feel" for document viewing and printing; and provides both web-browser and command-line administration interfaces that perform database, password authentication, and other administrative functions.
- Document collections — Can be new (SGML) documents or old (Display PostScript) documents.

Frequently Asked Questions

This section lists some common questions about the AnswerBook2 product along with answers to those questions.

What is AnswerBook2?

The AnswerBook2 product uses a standards–based documentation server to deliver Sun's online documentation through your favorite web browser. The AnswerBook2 interface lets you browse, search, and print a variety of Solaris information, including AnswerBook1 collections and man pages.

How is AnswerBook2 different from AnswerBook?

The previous AnswerBook product (now called AnswerBook1) used Display PostScript™ to display electronic versions of documents primarily developed for paper delivery. The AnswerBook2 product uses a web browser to display

documentation developed for online delivery using SGML and to display existing AnswerBook1 documents.

The following list identifies some key differences between the products:

- Web-browser interface — You can use any HTML 3.2-compliant browser on any platform to view online documentation with the AnswerBook2 product.
- Source flexibility — The documentation server can deliver AnswerBook1 (Display PostScript) documents or AnswerBook2 (SGML) documents.
- Client–server support — The AnswerBook2 product allows you to install the server and document collections in a central location and view the documents from other systems. In addition, it includes a "fail-over" mechanism in which the document administrator can define multiple documentation servers so that links between documents always work.
- Cross-platform — For this release, the AnswerBook2 documentation server must run in the Solaris 7 operating environment (SPARC or Intel). However, AnswerBook2 clients can run on any platform, and future releases might provide server functionality on additional platforms.
- Default search behavior — The AnswerBook2 product uses AND for its default search behavior rather than OR (the default search behavior in the AnswerBook1 product).

Can I still view my old AnswerBook collections with AnswerBook2?

Yes, unless your old AnswerBook documents were created before the release of the Solaris 2.2 operating environment. To add AnswerBook1 collections to the documentation server's database, the document administrator uses the AnswerBook2 "add collection" function and points to the directory containing the AnswerBook1 `ab_cardcatalog` file.

Does AnswerBook2 provide the same functionality for AnswerBook1 and AnswerBook2 documents?

No. For consistency, the AnswerBook2 interface for AnswerBook1 documents is similar to the AnswerBook1 product interface. The following briefly lists the differences in functionality for AnswerBook1 and AnswerBook2 collections:

- You cannot show or hide all levels of an entire AnswerBook1 table of contents listing; you can only show or hide details for a specific section within the table of contents.
- AnswerBook1 content pages do not include Other Topics sections. To navigate from one page to another, you can use the Next Topic link or return to the Table of Contents and select another section in the book.
- AnswerBook1 content pages display the entire chapter at one time, not smaller sections.

- Search results icons poorly represent the probability of a match for AnswerBook1 information; the icons tend to be either completely filled or completely empty.
- Search terms are not highlighted in AnswerBook1 text.
- Some AnswerBook1 graphics cannot be displayed inline; they are identified by an icon that, when clicked on, brings up a PostScript display of the graphic.
- A **Man Pages by Keyword** search includes only the AnswerBook2 (SGML-based) man pages on the server, not the AnswerBook1 man pages.
- The AnswerBook1 man pages use the same interface as other AnswerBook1 documents; they do not have a special man page interface.

CHAPTER 2

Getting Started

The AnswerBook2 product replaces the AnswerBook product and is part of the Solaris 7 operating environment release. To view online documentation, you need an HTML 3.2-compatible browser (such as HotJava™ or Netscape Navigator™) and access to a documentation server (a machine on which the document collections are installed and which runs a web-based server to deliver them to you). For more information, choose from the following:

- "Do I Need to Install Anything?" on page 7
- "Launching the AnswerBook2 Viewer" on page 8
- "Viewing Information" on page 9
- "Finding a Documentation Server" on page 9
- "Customizing AnswerBook2 Information" on page 10

Do I Need to Install Anything?

The following table indicates what you need to do or install to provide specific AnswerBook2 functionality.

TABLE 2–1 When and What to Install

If you want to do this....	Then do this...
View online documentation from your desktop (any platform, any operating environment).	Start a web browser and enter the documentation server's URL (for example, `http://imaserver:8888/`). See "Launching the AnswerBook2 Viewer" on page 8.
Automatically launch a web browser with the appropriate server URL from your desktop.	If you are running the Solaris 7 operating environment, then identify a documentation server and select the AnswerBook2 option from the CDE Help pop-up menu or the OpenWindows Programs menu. See "Launching the AnswerBook2 Viewer" on page 8.
Enable your system (machine) to deliver (serve) documentation.	Install the documentation server software from the Solaris 7 Documentation CD. See *Installing and Administering an AnswerBook2 Server*.
Add documentation from the Solaris 7 Documentation CD or other locations to your documentation server.	The document administrator is the only user authorized to perform this function. See *Installing and Administering an AnswerBook2 Server*.

Launching the AnswerBook2 Viewer

The system launches a web browser with the URL for the documentation server if you are running the Solaris 2.6 or later operating environment and you either:

- Select the AnswerBook2 icon from the Help menu on the CDE front panel.
- Select AnswerBook2 from the OpenWindows Programs menu.
- Enter the `answerbook2` command from the command line.

The system determines the web browser to launch by searching your path and launching Netscape Navigator™ or the first web browser it finds in your path. For information on how the system determines the URL for the documentation server, see "Finding a Documentation Server" on page 9.

You can also access the AnswerBook2 product from any HTML 3.2-compliant web browser. Start up your web browser and enter the appropriate documentation server URL. For example, if your system administrator installed an AnswerBook2

documentation server on the system `imaserver`, you would enter the URL **`http://imaserver:8888/`**.

Viewing Information

Once you have launched the AnswerBook2 viewer, you click on underlined text (depending on how your browser is configured to display its links) to navigate to a book or chapter. For more information about how to navigate through the AnswerBook2 system, see Chapter 3.

Finding a Documentation Server

When you launch the AnswerBook2 viewer from the Solaris operating environment, the software displays a list of collections installed on the “default” documentation server. The “default” server is identified using one of the following mechanisms:

1. If you have defined the environment variable, `AB2_DEFAULTSERVER`, the AnswerBook2 viewer launches using the URL defined by that variable. For example, you might have the following line in your `.cshrc` file:

   ```
   setenv AB2_DEFAULTSERVER http://imaserver.eng.sun.com:8888/
   ```

2. If the machine from which you initiated the AnswerBook2 function is a documentation server, the AnswerBook2 viewer launches using the URL: **`http://localhost:`*`port`*`/`**

   Where *port* is the port number on which the documentation server is running and defaults to **`8888`**.

3. If your document administrator has registered the AnswerBook2 server with FNS (Federated Naming Service), the AnswerBook2 viewer uses the URL of the registered server.

If you have no documentation servers available and you have Internet access, you can also access Sun’s master documentation server at `http://docs.sun.com/`.

Customizing AnswerBook2 Information

To customize the information you see in the browser, select the **AnswerBook2 Options** button. This brings up the Options Page, from which you can:

- Define your personal library.
- Choose the language in which you want on-screen instructions and Help displayed.
- Use the AnswerBook2 server administration GUI.

You need to redefine your preferences if you:

- Change documentation servers
- Change user names
- Switch browsers

Documentation server names are interpreted literally. For example, `imaserver.eng.sun.com` is considered to be a different server from `imaserver`.

Note - Personal Library and Language Preferences functions are available only if your browser supports *cookies* and you have not turned off cookie support. Preferences expire after approximately one year and must be reset.

Defining Your Personal Library

An AnswerBook2 server might contain a large number of collections, each of which contains several books. You can choose whether or not to view all of the collections on the server, based on the settings in your Personal Library Preferences.

The Personal Library Preferences page lists the Complete Library (all collections) available on the current documentation server. To add collections to your Personal Library, click on the checkbox next to the collections you want displayed, then click **Save Changes**. The change appears immediately on your library page.

You need to redefine your Personal Library if you:

- Change documentation servers
- Change user names
- Switch browsers

Documentation server names are interpreted literally. For example, `imaserver.eng.sun.com` is considered to be a different server from `imaserver`.

Note - The Personal Library Preferences function is available only if your browser supports *cookies* and you have not turned off cookie support. Personal Library Preferences expire after approximately one year and must be reset.

Specifying a Language

You use the Language Preferences page to tell the AnswerBook2 product to display its on-screen instructions and Help to you in a specific language, such as English. Changing your language preference does not automatically provide translated document collections; The documentation server displays document collections in the language in which they are created.

Some document collections look wrong unless the correct language preference is chosen. For example, a Japanese book will not display correctly unless the language preference is set to Japanese and the correct encoding (EUC or Shift-JIS) is selected.

To specify the language you want used for instructions and other on-screen information, on the Language Preferences page, select the icon that displays the language you want used and click **`Apply`**. For some languages, you might see an additional screen that asks you to choose a specific code set (or encoding) for that language. For more information about specifying a language encoding, see “Specifying Language Encoding” on page 12.

You need to redefine your Language Preferences if you:

- Change documentation servers
- Change user names
- Switch browsers

Documentation server names are interpreted literally. For example, `imaserver.eng.sun.com` is considered to be a different server from `imaserver`.

Note - The Language Preferences function is available only if your browser supports *cookies* and you have not turned off cookie support. Language Preferences expire after approximately one year and must be reset.

If your browser does not support cookies but allows you to set the browser's language and sends that information to the server, the AnswerBook2 interface uses the browser's language setting.

Caution - The AnswerBook2 interface defaults to the language of the server if any of the following conditions apply:

- You specify a language that the documentation server does not support.
- Your browser does not support cookies.
- Your browser does not send language information to the server.

Specifying Language Encoding

If you ask the server to display instructions and Help in a language that can be encoded differently (for example, in the Japanese language, you might want EUC or Shift-JIS encoding), the AnswerBook2 server asks you to specify the encoding. To respond to this query, click on the encoding scheme that reads "correctly" to you.

Note - You might also have to change the encoding of your browser to match the encoding of the AnswerBook2 interface.

Accessing Server Administration Functions

The Options Page provides a link to the documentation server Administration interface for the current documentation server. If administrative access control is turned on for this server, the system prompts you for a valid administrator name and password. For more information about administering a documentation server, see *Installing and Administering an AnswerBook2 Server*.

CHAPTER 3

Navigating Through the AnswerBook2 Interface

This section contains information about the different pages you see in the AnswerBook2 interface and explains how to navigate between the pages. It contains the following topics:

- "Library Page" on page 13
- "Book Contents Page" on page 14
- "Book Contents Page for AnswerBook1 Documents" on page 14
- "Information Contents Page" on page 15
- "Information Contents Page for AnswerBook1 Documents" on page 16
- "Icon Functions" on page 16

Library Page

The AnswerBook2 library page shows all available books in the library. The library page is similar to an online card catalog that you might use in a library. It contains a list of book titles, grouped together by collection. A collection is a logical grouping of books. For information about the function of the icons on this page, see Table 3–1.

From the library page, you can:

- Search through your Personal Library, the Complete Library on the documentation server, the AnswerBook2 Help information, or the SGML-based man pages for specific information. For more information about searching, see Chapter 5.
- Click on a book's title to view the book's table of contents. For more information, see "Book Contents Page" on page 14.

- Tell the documentation server to display a subset of the Complete Library (all collections on the server) by setting your **Personal Library Preferences**. To access this function, select the **AnswerBook2 Options** button at the top of the page. For more information, see “Defining Your Personal Library” on page 10.

Book Contents Page

To open a book (view its table of contents), click on its title in the library page. This takes you to the book’s table of contents. For information about the function of the icons on this page, see Table 3–1. From the book’s table of contents, you can:

- Click on a chapter or section title to go to that chapter or section.
- Click on the symbol to the left of the part, chapter, or section title to show more detail for that part, chapter, or section.
- Click on the symbol to the left of the part, chapter, or section title to show less detail for that part, chapter, or section.
- Click on the icon to show all part, chapter, section, and subsection headings for this book.
- Click on the icon to show only the top–level headings (part, chapter, or section headings, depending on the book’s structure) for this book.
- Use the search function to search for specific information. For more information, see Chapter 5.

Book Contents Page for AnswerBook1 Documents

To open a book (view its table of contents), click on its title in the library page. This takes you to the book’s table of contents. Although the table of contents includes entries for a list of figures, a list of tables, and an index, these items are not especially helpful to view. Like the old AnswerBook Navigator, these items do not provide additional links to other pages. For more information about how AnswerBook2 functionality differs for AnswerBook1 (Display PostScript) documents, see “Frequently Asked Questions” on page 3.

For information about the function of the icons on this page, see Table 3–1. From an AnswerBook1 book's table of contents, you can:

- Click on a chapter (or section) title to go directly to that chapter (or section).
- Click on the symbol to the left of the chapter or section title to show more detail for that chapter or section.
- Click on the symbol to the left of the chapter or section title to show less detail for that chapter or section.
- Use the search mechanism to search for specific information in the book. For more information, see Chapter 5.

Note - Some existing AnswerBook collections contain additional collections (nested collections or "booksets"). The AnswerBook2 interface only supports one level of booksets.

Information Contents Page

Similar to a book you can hold in your hand, an AnswerBook2 page has pages before it and pages after it. Use the following mechanisms to navigate through the pages:

- Use the navigation items at the top of the page to go to other places within the AnswerBook2 system. For more information, see Table 3–1.
- Links to other locations within the text are indicated using standard web browser mechanisms, such as underlines and different colors. Click on these links to follow them.
- Use the **`Next Topic`** link at the bottom of the text to go to the next topic in the book. This is similar to "paging through" a paper book.
- At the bottom of the page, there is an expanded portion of the book's table of contents that provides links to topics that are located near the current page in the book. The arrow indicates your current location in the book. Click on a topic in the list to go to that topic.
- Click on **`Complete Table of Contents`** at the bottom of the page or the Table of Contents icon in the navigation bar to go to the book's table of contents.
- Click on **`Copyright`** at the bottom of the page to view this book's abstract and copyright information.

Information Contents Page for AnswerBook1 Documents

Similar to a book you can hold in your hand, an AnswerBook2 page has pages before it and pages after it. For an AnswerBook1 (Display PostScript) document, however, a "page" usually includes an entire chapter and has a small "bookmark" along the left side of the page. For more information about how AnswerBook2 functionality differs for AnswerBook1 documents, see "Frequently Asked Questions" on page 3.

For information about the function of the icons on this page, see Table 3–1. Use the following mechanisms to navigate through the pages:

- If you see an underlined (hot-linked) figure reference or a graphic icon , click it to bring up a view of the graphic. The graphic display mechanism is defined by your browser's configured MIME type for `application/postscript`, similar to the AnswerBook2 printing function. For more information about setting this value, see "Changing Printing Options" on page 28.
- Use the **`Next Topic`** link at the bottom of the text to go to the next chapter in the book.
- Click on **`Complete Table of Contents`** at the bottom of the page or the Table of Contents icon in the navigation bar to go to the book's table of contents.

Icon Functions

This table identifies common navigational icons used throughout the AnswerBook2 interface. If an icon is dimmed (grayed out), that function is not available on that page. If an icon has an arrow under it, this indicates you are on the page represented by that icon.

TABLE 3–1 Navigational Icon Functions

Icon	Description
	Go to the documentation library catalog.
	Go to the table of contents for the book that contains the page you are currently viewing.

TABLE 3–1 Navigational Icon Functions *(continued)*

Icon	Description
	Print a book, selected chapters, or selected man pages from a book.
	Go to the Options Page which contains links to other pages on which you define your Personal Library, set your Language Preference, or administer the documentation server.
	View help information.

CHAPTER 4

Working with Man Pages

This section contains information about accessing Reference Manual (man) pages in the AnswerBook2 interface. It contains the following topics:

- "Manual Pages and the AnswerBook2 Product" on page 19
- "Man Pages Search Results Page" on page 20
- "Man Pages Table of Contents" on page 20
- "Man Pages Information Page" on page 20

Manual Pages and the AnswerBook2 Product

Manual (man) pages provide reference information for UNIX commands, utilities, programming functions, device drivers, and other functions. Man pages get their name from two places: Reference Manuals (where the information usually resides) and the `man` command (used on UNIX systems).

Starting with the release of the Solaris 7 operating environment, standard UNIX man pages (manual pages in reference format) can be written using SGML tags, rather than the traditional nroff formats. SGML-sourced man pages are an integrated part of the AnswerBook2 environment and have a special interface for you to use. For more information about the man page interface, see:

- "Man Pages Search Results Page" on page 20
- "Man Pages Table of Contents" on page 20
- "Man Pages Information Page" on page 20

Man Pages Search Results Page

When you choose **Man Pages by Keyword** from the pop-up menu in the Search box, the AnswerBook2 system searches through the SGML-based man pages registered with the server. The resulting list shows all man pages (man page name and brief description) that appears to match what you entered.

The search results window displays a special icon to the left of each item listed. This icon indicates how closely the particular section matches your search criteria. The more filled the icon, the closer the match. For example, this icon indicates an almost certain match to your search criteria whereas this icon indicates about a 50% chance that the section contains a match to your search criteria.

If your search produced no matching results, the search results page displays a message that tells you no matches were found. Because the Man Pages by Keyword search only looks through SGML-based man pages, this message might indicate the man page is in a non-SGML book. In this case, try searching your **Personal Library** or the **Complete Library** to find the appropriate man page.

Man Pages Table of Contents

When you select a Reference Manual book from an AnswerBook2 library page, you see something that looks similar to a book's table of contents, but with two major differences:

- No expand or collapse icons — Because of the specific nature of a man page table of contents, it shows all man pages within the book and does not allow you to expand it or collapse it.
- An alphabetical "jump table" — Use this table to jump directly to a list of man pages that begin with the selected letter.

Man Pages Information Page

An AnswerBook2 man page looks similar to a man page you would see when you use the UNIX `man` command. However, the AnswerBook2 man page interface includes a "jump table" after the man page name. Clicking on the various items in the jump table (for example, **DESCRIPTION**) takes you directly to that location

within the man page. The same functionality is provided by a similar jump table at the bottom of the man page scrolling window.

CHAPTER 5

Searching for Information in the AnswerBook2 System

The AnswerBook2 search mechanism allows you to search through all documents in the AnswerBook2 library for information about a specific word or group of words. For more information, see the following topics:

- "Search Tips" on page 23
- "Search Rules" on page 24
- "Interpreting Search Results" on page 25

Search Tips

The AnswerBook2 library on any specific documentation server can contain from one to several hundred document collections, each of which can include from one to several books and man pages. To specify that a search apply only to a specific subset of the library, select **Personal Library**, **Man Pages by Keyword**, **This Book**, or **AnswerBook2 Help** from the pop-up menu in the Search box.

If you get too many matches when you search, try the following:

- Define a subset of the library (a Personal Library) and confine the search to that subset. For information about defining a Personal Library, see "Customizing AnswerBook2 Information" on page 10.
- Confine the search to a specific book by going into that book, then selecting **This Book** from the pop-up menu in the Search box.
- Search for man (manual) page information by entering a command, utility, or keyword in the Search field and selecting **Man Pages by Keyword** from the

pop-up menu in the Search box. The man page search includes all SGML-based man pages on the server.

- Use logical operators (AND, OR) or wildcards (*). For more information about search syntax options, see “Search Rules” on page 24.

If your search results in too few matches, try the following:

- Use fewer words or use “OR” between these words (rather than “AND” which is the default).
- To increase the number of documents that are searched, select a larger search “scope” (for example, select **Personal Library** instead of **This Book** or **Complete Library** instead of **Personal Library**) . To continue to search a subset of the library, redefine your Personal Library to include additional collections.
- Use a wildcard to find variations of a word. For example, instead of looking for **installation**, try **install***. This matches anything that begins with install, such as installing, installed, installation, and so on.
- Try synonyms of the word for which you are looking. For example, instead of **boot**, try **start** or **startup**.

Search Rules

To specify that a search apply only to a specific subset of the library, select **Personal Library**, **Man Pages by Keyword**, **This Book**, or **AnswerBook2 Help** from the pop-up menu in the Search box. Use the following rules to enter search information in the Search field:

Example	Description
Solaris AND operating AND environment **Solaris operating environment**	Finds word or words (within 20 words of each other)
"Solaris operating environment"	Finds exact matches to the word phrase
Solaris OR "operating environment"	Finds at least one of the specified words or word phrases

Example	Description
Solar*	Finds all words that begin with the specified word or word fragment
SOLARIS **solaris**	Finds references to the word, regardless of case (**SOLARIS** produces the same results as **solaris**)

Interpreting Search Results

After you enter search criteria and submit your search, AnswerBook2 returns a page that looks similar to a library listing (if you searched the Complete or Personal Library) or a book table of contents (if you searched a specific book). The search results list, however, only includes those items that contain information that matched the search criteria you entered.

The search results window displays a special icon to the left of each item listed. This icon indicates how closely the particular section matches your search criteria. The more filled the icon, the closer the match. For example, this icon indicates an almost certain match to your search criteria whereas this icon indicates about a 50% chance that the section contains a match to your search criteria.

Note - For AnswerBook1 documents, the icons poorly indicate the probability of match. They tend to be either completely filled or completely empty.

If your search produced no matching results, the search results page displays a message indicating that no matches were found in this book or library. In this case, you can try a different book, expand your search to include more collections or the entire library, or change your search criteria.

Note - If you choose to return to the Table of Contents (by clicking the icon), your search is cleared.

CHAPTER 6

Printing AnswerBook2 Documents

The AnswerBook2 printing function lets you print books or chapters in PostScript format. The quality of the AnswerBook2 printing function is not as good as a printed book; however, the AnswerBook2 output includes page numbers and is more similar to a printed book than a typical “screen print.” For more information, see the following topics:

- “Selecting Items to Print” on page 27
- “Changing Printing Options” on page 28

Selecting Items to Print

The AnswerBook2 printing function brings up a page that lists section titles or man page names (for SGML-based man pages), with a checkbox next to each title. To print, select items on the page, then click on the **Print** button at the bottom of the list. You can make the following selections:

- To print the entire book, choose the top item on the list (**All Sections**).
- To print a section or man page, click on the checkbox next to the title.
- To print a specific page in a book (other than an SGML-based man page), go to that page and use your browser’s print function.

If you choose to print the entire book and also select individual segments, one copy of the entire book is printed.

When you click on **Print**, the AnswerBook2 server returns information in PostScript™ format. What happens with the PostScript information depends on your

web browser's configuration. For more information, see "Changing Printing Options" on page 28.

Changing Printing Options

The AnswerBook2 printing function returns information in PostScript™ format for printing. What happens with the PostScript information depends on your web browser's configuration. Specifically, the AnswerBook2 print mechanism responds according to what is configured in the MIME type for `application/postscript`. To change this configuration, you need to use your web browser's functions.

The following examples illustrate how to change your printing options for a version of the "HotJava Browser" on page 28 and "Netscape Navigator Browser" on page 28. Specific steps will change, depending on the version of the browser you are using, but are provided here for illustrative purposes.

▼ HotJava Browser

1. **Use the `Edit` menu to go to the `Preferences` window.**
2. **Select `Viewer Applications`.**
3. **Scroll down the `Content Types` list until you find an entry for `Postscript File` or for `application/postscript`.**

   The entry to display the PostScript information using ImageTool would have **`View in Application`** selected for what to do and **`imagetool %s`** in the application field.
4. **To print directly to a printer, you would change the application field to something like `lp -d my_printer %s` and leave everything else the same.**

▼ Netscape Navigator Browser

1. **Use the `Options` menu to go to the `General Preferences` window.**
2. **Select `Helpers` and change the entry for `application/postscript`.**

   The entry to display the PostScript information using ImageTool would be **`imagetool %s`**.

The entry to print directly to a PostScript-compatible printer would be something like **`cat %s | lp -d my_printer`**.

CHAPTER 7

Solving AnswerBook2 Problems

This section explains how to solve known problems with the AnswerBook2 product and includes the following:

- "Functional Errors" on page 31
- "Error Messages" on page 33

Functional Errors

This section lists problems you might encounter when viewing online documentation.

TABLE 7–1 Possible Functional Problems

If you see this...	Try this...	See also...
Browser proxy error	Contact your document administrator to find out if the documentation server you are trying to access is set up correctly.	If the problem persists, try turning off the proxies on your web browser.
Error message when launching AnswerBook2 from the CDE front panel	If you do not have an HTML 3.2-compliant web browser on your system, install the browser from the Solaris product CD and try again. If you launch a browser, but it cannot find a documentation server, you need to find a valid URL for the documentation server and use your browser's normal functions to go to that URL. The URL for a documentation server is typically **`http://`*`server_name`*`:8888/`**, for example `http://imaserver:8888/`	If you do not have a local documentation server, but have Internet access, you can view all released Solaris documentation at `http://docs.sun.com`
Problems using the AnswerBook2 printing function	Set up the `application/postscript` mime type in your browser to print to a file or directly to a printer.	For more information about the AnswerBook2 printing function, see Chapter 6.
Unrecognized characters on the library page	Either change your language preference or change the language encoding in your browser.	For more information about defining language preferences, see "Specifying a Language" on page 11 and "Specifying Language Encoding" on page 12.
A document collection that you are certain exists is not listed on the library page	Check your Personal Library definition to see if it includes the "missing" collection.	For information on defining your Personal Library, see "Defining Your Personal Library" on page 10.
TCL script exception messages when trying to view a book	If you see a TCL script exception message, this means that something is wrong with the book you are trying to view.	Ask whoever provided the book source for a fixed version of the book.
Browser errors indicating documentation server is not responding	Wait a few minutes and try to access the server again. This error usually means the server is down or busy.	If the problem persists, contact the document administrator for the documentation server.
You cannot access functions for defining your personal library or language preferences	Your browser does not support *cookies* or you have turned off cookie support in your browser.	Contact your browser's support center.

TABLE 7–1 Possible Functional Problems *(continued)*

If you see this...	Try this...	See also...
Library or language preferences, although set, do not appear to be active	Your browser does not support *persistent cookies*.	Contact your browser's support center.
Library page (`http://`*server*`:8888/ab2/`) displays the navigation bar, but no document collections	Click on the Reload button on your web browser's button panel in case the page did not load correctly or has not finished loading yet. To ensure the page reloads from the server rather than from the web browser's cache, hold down the `Shift` key while clicking on the Reload button.	Contact the document administrator for the documentation server.
While looking through a book, you see text displayed in red with the word "BUG"	The document source for this book contains unrecognized markup information.	Contact the document administrator for the documentation server.
Unable to access administrative functions on documentation server	Only authorized administrative users can access these functions.	If you need access, contact the document administrator for the server.

Error Messages

This section lists AnswerBook2 error messages and how to respond to them.

No AnswerBook2 documentation server was found. An attempt to use the `answerbook2` script or launch the client viewer from the CDE front panel failed because there is no default documentation server defined.

The client viewer uses the following approach to finding a default documentation server:

1. If the AB2_DEFAULTSERVER environment variable is defined, the AnswerBook2 viewer launches using the URL defined by that variable. For example, you might have the following line in your `.cshrc` file:

```
setenv AB2_DEFAULTSERVER http://imaserver.eng.sun.com:8888/
```

2. If the machine from which you initiated the AnswerBook2 function is a documentation server, the AnswerBook2 viewer launches using the URL: **`localhost:`*`port`***, where *port* defaults to **`8888`**.
3. If an AnswerBook2 server is registered with FNS (Federated Naming Service), the AnswerBook2 viewer uses the URL of the registered server.

Cannot find local AnswerBook2 server to administer. Attempt to administer the `answerbook2_admin` script or launch the Admin GUI from the CDE front panel failed because there is no documentation server on this system.

Do one of the following to administer the AnswerBook2 server:

- Log in on the system on which the documentation server software is installed and try again.

  Enter the URL for the documentation server you want to administer in your browser.

Glossary

This glossary defines how terms are used with respect to the AnswerBook2 product.

AnswerBook Sun's online documentation product that was provided with pre-2.6 versions of the Solaris operating environment and supplied Display PostScript versions of hardcopy documentation. Throughout this book, the term *AnswerBook1* is used to differentiate this product from the *AnswerBook2* product.

AnswerBook2 Sun's online documentation system that uses a web-browser interface and follows a client-server model. The AnswerBook2 product lets you view and print a variety of Solaris information, including SGML-based document collections, Display PostScript AnswerBook collections, and man pages.

alternate server When a user clicks on a link in a book, the AnswerBook2 product can follow that link to an alternate server. If the book being linked to exists on the current server, the link goes there. If, however, the book is not located on the current server, the AnswerBook2 server "falls through" to any defined alternate servers.

browser For purposes of AnswerBook2, browser means any HTML 3.2-compliant web-based browser, such as HotJava™ or Netscape Navigator™.

catalog When referring to an AnswerBook1 collection, a catalog file is named `ab_cardcatalog` and a single `ab_cardcatalog` file contains information about multiple AnswerBook collections (sets of books, often referred to as "AnswerBooks"). When referring to an AnswerBook2 collection, a catalog file is named `collinfo` and contains information about a specific collection.

client An AnswerBook2 client is any HTML 3.2-compliant browser that connects to an AnswerBook2 documentation server's URL.

collection, document collection — A document collection is just a logical grouping of books. For example, you might have a collection of Solaris Developer books and another collection of Solaris System Administrator books.

documentation server, server — A document server is a machine that serves document files to clients. For this product release, the documentation server must be running the Solaris 7 operating environment.

HTML — HyperText Markup Language. HTML is an implementation of SGML that is widely used for authoring information that is accessible through the World Wide Web.

library — The AnswerBook2 library is the top level of the document hierarchy. The library can contain multiple collections of AnswerBook1 and AnswerBook2 documents.

SGML — Standard Generalized Markup Language. SGML is an international standard for defining document structures.

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