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Sun Ultra 10 Software Supplement

The *Sun™ Ultra™ 10 Software Supplement CD* contains:

- *Sun Ultra 10 Hardware AnswerBook2™ with ShowMe™ How Multimedia*
- *Sun Ultra 10 Hardware Service Manual* (HTML version for use with Solaris™ 2.5.1 Hardware: 11/97)
- Solaris 2.5.1 Hardware: 11/97 and Solaris 2.6 5/98 Required Software Update for PGX24 Graphics
- *README.txt* file

Sun Ultra 10 Hardware AnswerBook2 Installation

The *Sun Ultra 10 Hardware AnswerBook2* online documentation contains hardware service documentation and multimedia video for the Sun Ultra 10 system. After the AnswerBook2 package is installed, you can view the documentation on the screen and print selected pages or sections.

System Requirements

You can install the *Sun Ultra 10 Hardware AnswerBook2* software on any SPARC™ system running the Solaris operating environment, version 2.6 or later.

If your system is running Solaris 2.5.1 software and is connected to a server running Solaris 2.6 software or later, you can view the AnswerBook2 on that server.

What's On This AnswerBook2?

The Sun Ultra 10 Hardware AnswerBook2 contains:

Sun Ultra 10 Hardware Service Manual

This book provides detailed system service instructions, including topics such as troubleshooting, subassembly removal and replacement, system board and component replacement, and product specifications.

ShowMe How Multimedia Collection

This collection contains video clips that illustrate subassembly removal and replacement, and service procedures.

Installing This AnswerBook2

1. **Start the OpenWindows™ or the Common Desktop Environment (CDE) windowing environment.**

2. **If there is already a CD in the drive, remove it by typing** `eject cd` **in a Command Tool window.**

3. **Insert the** *Sun Ultra 10 Software Supplement CD* **(with caddy, if necessary) into your CD-ROM drive.**

Note – If you are running Volume Manager, it automatically detects the CD and opens a File Manager window that displays the contents of the CD. If you are not running Volume Manager, either open File Manager and go to `/cdrom/u10svc`, or type `cd /cdrom/u10svc` from a shell window to view the contents of the CD.

---

4. **In a command tool, become root by typing the** `su` **command and your superuser password.**

5. **Start Software Manager by typing the** `swmtool` **command at the** # **prompt:**

```
# /usr/sbin/swmtool -d /cdrom/cdrom0/
```

The Admintool: Software window is displayed.

Note – If your system's authorizations are not set correctly for root clients, you might see an error message similar to: `Xlib: Client is not authorized to connect to server` displayed in the console window. One way to correct this problem is to exit superuser status and type: `xhost +`*hostname* (where *hostname* is the name of the host you are using), then become root again and restart Software Manager. Alternatively, you can use the `xauth` command to permanently change the authorization information so that root clients can attach to the X server.

---

6. **Select Sun Ultra 10 Hardware AnswerBook2, then click Add.**

The Admintool: Add Software window is displayed.

7. **Type the number of the installation option you want (**`nil` **or** `heavy`**).**

Note – You need 405 MBytes of free space in your target directory to do a `heavy` installation. After you select installation type and target directory, the install script checks the directory to verify there is enough free space.

---

8. Type the directory where you want the AnswerBook2 installed.

`/opt` is the default home directory for AnswerBook2.
The installation process takes a few minutes.

Note – Read the installation script messages carefully, looking in particular for any warning messages after the line,
`## Verifying disk space requirements`.
—If you do not have enough space in your target directory, type `n` at the prompt to cancel the installation. You can then free up more space, or you may want to perform a `nil` installation or view this AnswerBook2 collection directly from the CD. (To check how much space is in your directory manually, at a command line, type `df` *<directory name>)*
—If you have enough space, continue with the next step in this procedure.

---

9. **Type** `y` **at the following prompt to continue the installation:**

```
This package contains scripts which will be
executed with superuser permission during the
process of installing this package.

Do you want to continue with the installation
of <SUNWabda2> [y,n]
```

10. **Press Return when you see the following prompt:**

```
Installation of <SUNWabda2> was successful.
Press Return to continue.
```

11. **Exit Software Manager (the Admintool: Software window).**

Note – For further information on installing AnswerBook2, or for installing AnswerBook2 on a server, refer to the *Software and AnswerBook2 Installation Guide* or *SPARC: Installing Solaris Software on the Desktop*, one of which will be supplied with your Solaris Media Kit.

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12. **Exit superuser status.**

13. **At the% prompt, type** `answerbook2.`

The AnswerBook2 Navigator window is displayed.

Note – If you receive any error messages related to AnswerBook2 server environmental variables, contact your system administrator for help, or refer to the *Software and AnswerBook2 Installation Guide* or the *SPARC: Installing Solaris Software on the Desktop*, one of which is supplied with your Solaris Media Kit.

---

14. **To view your new AnswerBook2, double-click Sun Ultra 10 Hardware AnswerBook2 in the AnswerBook2 Navigator window.**

Note – The video content of the AnswerBook2 collection on this CD is very large. You may want to view it directly from the CD rather than installing this software package on a system already running an AnswerBook2 server. You also can view the video clips from a web browser.

Running An Answerbook2 Server From The CD

To run the video clips directly from the CD, perform the following steps:

1. **Insert the Sun Ultra 10 Software Supplement CD into your CD-ROM drive.**

2. **Make sure you are logged in as super-user.**

```
% su
```

3. **Change directory to the top level of the CD-ROM volume.**

```
% cd /cdrom/cdrom0/
```

Among other things, this directory contains the executable script:

```
ab2cd
```

4. **Run the following command:**

```
#./ab2cd
```

5. **If you have existing AnswerBook2 documentation collections installed on your server machine and you want the CD-driven server software to recognize those collections, use the following command:**

```
#./ab2cd -s
```

This causes the CD-driver server software to scan for other collections installed on this system and add them to its database.

6. **You can now access the document server from your browser from the following URL:**

```
http://<server>:8888/
```

Where <server> is the name of the machine to which the CD is attached.

7. **To view video clips that are contained in a Answerbook2 document, edit your browser's preferences to specify an MPEG Video application. For example, to use the ShowMe™ TV™ software provided on this CD in a Netscape Communicator browser, perform these steps:**

   a. **Edit your browser's preferences to specify an MPEG Video application.**

      For example, to use the ShowMe™ TV™ software provided on this CD in a Netscape Communicator browser, perform these steps:

   b. **In the top bar menu of the browser, select Edit --> Preferences.**

   c. **In the Preferences window, click on the triangle to the left of Navigator and select the subcategory of Applications.**

   d. **In the list of Applications, find and edit the MPEG Video application to be the following:**

```
/cdrom/cdrom0/pkgs/showmetv/bin/showmetv -nowrap
-exit %s
```

   e. **Click OK to apply this change to the Preferences.**

8. **In the document, click on the video clip icon to launch the viewer.**

Note – If you let a video clip play through to the end, the viewer will automatically be dismissed. However, if you want to view another video clip before a prior clip has finished, be sure to first dismiss the viewer displaying the previous video clip. If you start another video clip without dismissing the previous viewer, the later video will not play correctly.

---

9. **To stop running the server from the CD, run the following command:**

```
# /cdrom/cdrom0/ab2cd stop
```

Important Notes When Running the AnswerBook2 Server From the CD:

1. The AnswerBook2 Server run from the CD always runs on port 8888. If you already have an AnswerBook2 Server running on your system using the default port (8888), the `ab2cd` script will display the following message:

   A document server is already running on this system as <server>:8888. Please shut down the current server before running the ab2cd command.

Use the following command to shut down the existing server:

```
# /usr/lib/ab2/bin/ab2admin -o stop
```

2. Always use `ab2cd` stop to stop the server running from the CD. Do not use:

   ```
   /etc/init.d/ab2mgr stop
   ```

   to stop the CD-based server.

   The `ab2cd stop` command stops the AnswerBook2 server process and cleans up all files in the `/tmp/.ab2/` and `/tmp/ab2cd_config/` directories.

   The `/etc/init.d/ab2mgr stop` command stops all server processes, but does not clean up the files in the `/tmp/.ab2/` and `/tmp/ab2cd_config/` directories.

3. To run two AnswerBook2 servers (one on your system, one from the CD), keep these rules in mind:

   STARTUP

   - The `/etc/init.d/ab2mgr start` command always starts the server on your system.
   - The `ab2cd` command always starts the server from the CD.

   SHUTDOWN

   - Always use the `ab2cd stop` command to stop the server running from the CD.

- To stop both servers, first use the `ab2cd stop` command to stop the server running from the CD, then use either

  `/etc/init.d/ab2mgr stop` or

  `/usr/lib/ab2/bin/ab2admin -o stop`

  to stop the server running on your system.

Alternatives To Using Answerbook2

You can also view the video clips from an HTML version of the Answerbook2 if you are using a system that does not permit you to run the AnswerBook2 server software, such as a Sun workstation running Solaris 2.5.1 or earlier.

To view video clips that are contained in a Answerbook2 document, edit your browser's preferences to specify an MPEG Video application. For example, to use the ShowMe™ TV™ software provided on this CD in a Netscape Communicator browser, perform these steps:

1. **Edit your browser’s preferences to specify an MPEG Video application.**

   For example, to use the ShowMe(tm) TV(tm) software provided on this CD in a Netscape Communicator browser, perform these steps:

2. **In the top bar menu of the browser, select Edit --> Preferences.**

3. **In the Preferences window, click on the triangle to the left of Navigator and select the subcategory of Applications.**

4. **In the list of Applications, find and edit the MPEG Video application to be the following:**

   ```
   /cdrom/cdrom0/pkgs/showmetv/bin/showmetv -nowrap -
   exit %s
   ```

5. **Click OK to apply this change to the Preferences.**

Reading the Service Manual (HTML files)

You may read the *Sun Ultra 10 Service Manual* (HTML files) on the *Sun Ultra 10 Software Supplement CD* with an HTML-compliant browser. The HTML document is found at

```
/cdrom/cdrom0/Docs/HTML/Book.htm
```

If you choose to use a browser on a Sun system, the browser must be configured to run MPEG-1 video files. You can do this as follows:

1. **Edit your browser's preferences to specify an MPEG video application.**
   For example, to use the ShowMe™ TV™ software provided on this CD in a Netscape Communicator browser, perform these steps:

   a. **In the top bar menu of the browser, select Edit: Preferences.**

   b. **In the Preferences window, click on the triangle to the left of Navigator and select the subcategory of Applications.**

2. **In the list of Applications, find and edit the MPEG Video application to be the following:**

```
#   /cdrom/cdrom0/pkgs/showmetv/bin/showmetv -nowrap -exit %s
```

   Click OK to apply this change to the Preferences.

3. **In the document, click on the video clip icon to launch the viewer.**

4. **Before you view another video clip, dismiss the viewer that displayed the previous video clip. If you start another video clip without dismissing the previous viewer windows, the later video will not play correctly.**
   If you let the video clip play through to the end, the viewer will automatically be dismissed.

Reading the Service Manual (HTML files) from Other Platforms

You may view the HTML document and watch the video clips on a PC with a CD-ROM drive running Windows 95 or later by using Netscape Navigator™, version 4.0 or later, or Internet Explorer, version 4.0 or later. Refer to the browser documentation about configuring your browser to view MPEG-1 files.

You may view the HTML document and watch the video clips on a Power Macintosh with a CD-ROM drive by using Netscape Navigator, version 4.0 or later, or Internet Explorer, version 4.0 or later. To enable the browser to display MPEG-1 movies, you must have installed both QuickDraw 2.5.1 or later and the MPEG system extension.

PGX24 Graphics Software Update

You must install patches on top of the following releases:

- Solaris 2.5.1 Hardware:11/97 release (patch 103792-18)
- Solaris 2.6 5/98 Release (patch 105362-18)

Software patches may be updated after the release of this product. You may contact Sun Enterprise Services, or go to the Sun Online Support Tools web site, `http://www.sun.com/service/online` to obtain the latest software patch.

Note – These patches do not support optional PGX, Creator, or Elite graphics cards.

Installing PGX24 Graphics Software on the Solaris 2.5.1 Hardware:11/97

1. **Insert the** *Sun Ultra 10 Software Supplement CD* **into your CD-ROM drive.**
2. **Become superuser on the system.**
3. **Go to the directory that contains the patch by typing:**
   `cd /cdrom/cdrom0/Patches/103792-18`

4. **Install the patch by typing:**
   `./installpatch.`

5. **Reboot the system.**

6. **After the system reboots, become superuser on the system.**

7. **Set the PGX24 graphics display mode to 24-bit by typing:**
   `m64config -depth 24 -res 1152x900x66`

8. **The resolution can be any value less than or equal to 1152x900.**

9. **Either log out or exit the operating environment, then restart the operating environment.**

   When the operating environment starts up, the display will be in 24-bit mode.

Installing PGX24 Graphics Software on the Solaris 2.6 5/98

1. **Insert the** *Sun Ultra 5 Software Supplement CD* **into your CD-ROM drive.**

2. **Become superuser on the system.**

3. **Go to the directory that contains the patch by typing:**
   `cd /cdrom/cdrom0/Patches/105362-18`

4. **Install the patch by typing:**
   `./installpatch.`

5. **Reboot the system.**

6. **After the system reboots, become superuser on the system.**

7. **Set the PGX24 graphics display mode to 24-bit by typing:**
   `m64config -depth 24 -res 1152x900x66`

8. **The resolution can be any value less than or equal to 1152x900.**

9. **Either log out or exit the operating environment, then restart the operating environment.**

   When the operating environment starts up, the display will be in 24-bit mode.