

Addendum to AIS Manual 25-L1Y-AJT-ZZZ-EM

1. Purpose of the Addendum to the End User Manual. The purpose of this Addendum to the End User Manual (EM) is to provide the Systems Administrator (SA) and the SARSS1 user with the information necessary to set-up, install, and operate the upgrade from the current fileserver to the MicronPC ClientPro 525-G fileserver.

2. System Summary. This paragraph provides an overview of the software and hardware configuration of the new SARSS-1 fileserver.

2.1 Software Overview. Solaris 8 Version 02/02 has been selected to replace the Solaris 2.6 Operating System. New application software will be released in conjunction with the upgrade to the SARSS-1 platform in ICP L1Y-03-26. Paragraph 3.2 describes the steps to load the new operating system and application software.

2.2 Hardware Overview. The new hardware platform consists of the following components:

- MicronPC ClientPro 525-G w/Tower Case
- Intel Pentium 4 2.40GHz processor
- 512MB of memory
- 2 20 GB hard drives
- DVD-ROM
- SCSI CD-RW
- 104 key enhanced keyboard
- Microsoft IntelliMouse
- Samsung SyncMaster 151s 15" flat panel monitor.

2.2.1 Operating Environment.

2.2.1.1 Temperature. The MicronPC 525-G is designed to function normally at temperatures from 41° F to 95°. The system is designed to handle temperatures between 32°F to 122°F when powered off. It is important to keep the system out of direct sunlight and other heat sources. Make sure that the fan vents on the chassis are not blocked. High levels of dust, dirt, and smoke can damage your system. Place the computer in an area with good ventilation. Check the system's case, side, and bottom periodically to ensure that dust or dirt has not accumulated in the vents.

2.2.1.2 Humidity and Moisture. The MicronPC 525-G is designed to function normally at between 10% to 90% humidity non-condensing. When powered off, the system can handle between 5% to 95% humidity non-condensing. Warning: Never expose the computer to moisture. Moisture can lead to an electrical shock or a fire hazard. Operating the computer in areas with high humidity can damage components. Caution: If your computer was been exposed to cold weather, do not power it up until it has come to room temperature. Exposing the system to cold temperatures can produce condensation that can damage or destroy your system.

2.2.2 Internal Battery. The systems uses an internal 3V lithium battery (type CR2032) to power the Real Time Clock (RTC) circuit which maintains the date and time on the system. The normal life span of this battery is several years. If the battery for the RTC is low, your system will fail the Power ON Self Test (POST) and you will not get a display. When replacing a battery, remember the proper handling and disposal of the battery and prevent against Electrostatic Discharge (ESD) when working inside the system.

2.2.3 Front Panel View. The front panel of the Micron 525-G is laid out as follows. top to bottom and left to right:

- DVD-ROM Drive.
- Plextor CD-RW Drive
- Two 3.5 inch Expansion Slots (unused).
- Two USB ports (to the right of the expansion slots).
- 3.5 inch floppy disk drive.
- Multifunction Power Button (to the right of the floppy drive).
- Power Status LEDs (to the right of the power button).

2.2.4 Rear Panel View. The back panel of the Micron 525-G is laid out as follows, top to bottom and left to right:

- AC Power Supply.
- Keyboard (purple port).
- PS/2 Mouse (green port).
- Serial (COM1) Port (teal port).
- Parallel (printer) Port (burgundy port)(to the right of the COM ports) .
- Serial (COM2) Port (teal port)
- Two USB 2.0 Ports (black ports).
- Ethernet/LAN Adapter (to the right of the USB ports).
- Audio-in Jack (light blue).
- Audio-out Jack (lime)
- Microphone Jack (pink)
- Monitor port (blue port).
- Internal Modem (bottom slot, not used).

2.2.5 Monitor Controls. Samsung SyncMaster 151s 15” flat panel monitor has six (6) control buttons on the front. They are from top to bottom: Power, Menu, +, -, Exit, and Auto. You should only need to utilize the “Power” and the “Auto” buttons. When you first power up the system and the monitor, the display may be off center or otherwise out of adjustment. Press the “Auto” button to have the monitor adjust itself automatically. Refer to the manual provided with the monitor for instructions on how to fine tune the monitor settings.

2.2.6 CD-ROM Drives. There are two CD-ROM drives installed in the Micron 525-G. The CD-ROM drive mounted in the top most position is a DVD-ROM drive. It is capable of reading DVD-ROMS and CD-ROMS. This drive will be used during the system load and can be used whenever you need to restore files or load patches. The CD-ROM drive mounted in the lower position is a PLEXTOR SCSI CD-R/W drive. This drive is capable of reading CD-ROMS and is capable of writing to CD-R and CD-RW CD-ROMS. This drive is the primary CD-ROM drive on the system and will be used when loading the system. This drive also replaces the 4mm Tape Streamer as your backup device.

2.2.7 CD-ROM Media.

2.2.7.1 DVD-ROMS. DVD-ROMS are high capacity CD-ROMS. DVD-ROMS may be used in the future for fielding software for the SARSS system. The DVD-ROM drive installed in your SARSS-1 server is a read-only device

2.2.7.2 CD-R CD-ROMS. CD-R CD-ROMS are CDs that can be written to. The CD-R can be written to only once. The SARSS-1 software fielded with the system will be written on CD-R CD-ROMS. You may use CD-R CD-ROMS as your backup media for BKUP, RMF, CLO, and SYSBLD.

2.2.7.3 CD-RW CD-ROMS. CD-RW CD-ROMS can be written to and rewritten to a number of times. CD-RW CD-ROMS are more expensive to purchase, but since they can be written to multiple times, they may be more cost effective. You may use CD-RW CD-ROMS as your backup media for BKUP, RMF, CLO, and SYSBLD.

2.3 SARSS-1 System Setup Instructions.

2.3.1 Unpack the Hardware. Unpack and inventory the box containing the MicronPC ClientPro 525-G. This box should contain the PC, power cable, keyboard, and the mouse. Unpack and inventory the box containing the Samsung SyncMaster 151s 15" flat panel monitor. This box should contain the monitor, power cable and the monitor cable.

2.3.2 Connect the Components. Place the computer where it can be easily moved into position after the connections are made. Keep in mind that the Server must be plugged into an Uninterruptible Power Supply (UPS) and will need to be connected to your LAN. Remember that the system should be placed in an area that is dry, free of as much dirt and dust as possible, and not subject to temperature extremes. The plugs and ports are color coded to aid in correct installation. Ensure that the plug and port colors are the same before connecting. Most of the plug-ends are keyed and can only be inserted one way. Do not force the connections as you may damage the plug or port.

2.3.2.1 Connect the Keyboard and Mouse. Plug the PS/2 keyboard cable into the matching purple port and plug the PS/2 mouse cable into the matching green port.

2.3.2.2 Connect the Monitor. Plug the monitor cable into the matching blue port. Note: The video card installed in your file server has two blue ports. Use the blue port labeled “monitor 1” on the right side of the card.

2.3.2.3 Connect to the LAN. Plug the LAN connector into the Ethernet/LAN adapter port located to the right of the two USB ports on the back panel. Ensure the other end of the LAN cable is plugged into your Hub.

2.3.2.4 Connect to the Power Source. Connect the AC power cable to the PC and then plug it into the UPS. Plug the provided AC power cable into the Monitor and plug it into the UPS or surge protector. Note: both the PC and the monitor can automatically select between 110V and 240V, you need only to provide an adapter for the power receptacle you are connecting to.

3. Software Installation.

3.1 System BIOS. The Basic Input/Output System(BIOS) for you system come pre-configured and requires little or no modification prior to installing the Solaris 8 and SARSS-1 Software. It is recommended you verify your BIOS settings prior to installing the software by running the BIOS Setup Program.

3.1.1 Running the BIOS Setup Program. Power up the system. After the Power-on Self Test (POST) completes the memory test, press [F2], at the prompt to enter setup. The Bios Setup Program initially displays the Main menu screen see Figure 3-1. Each screen menu has options for modifying different aspects of the system configuration.

3.1.2 Navigating the Setup Utility Menus. To navigate between the Main, Advanced, Security, Power, Boot and Exit menus, use the left and right arrow keys. To select an item from a given menu use the up and down arrow keys. To select a field within an item, use the tab key. To enter a sub-menu, press enter when the selected item is highlighted. Sub-menus will be denoted by a “_” preceding the sub-menu name. Press F9 to load the setup defaults. Press F10 to save and exit the setup utility. Press ESC to exit the setup utility without saving.

3.1.3 The BIOS Setup Main Menu. The BIOS Setup Main menu (Figure 3-1) displays system information about the BIOS version, processor type and speed, bus speed, Cache RAM, and the total memory and how it is installed. In addition this screen allows you to select which language the BIOS will be displayed in and allows you to set the date and time. The language should always be English. The system date and time should be the current date and time.

BIOS SETUP UTILITY	
Main	Advanced Security Power Boot Exit
BIOS Version	MV85010.A.0038.P15
Processor Type	Intel ® Pentium ®4
Processor Speed	2.40 GHz
System Bus Speed	533 MHz
Cache RAM	512 KB
Total Memory	512 MB
RIMM1	256 MB
RIMM2	256 MB
RIMM3	Not Installed
RIMM4	Not Installed
Language	[English]
System Time	[14:00:00]
System Date	[Tue 1/22/2002]

Figure 3-1 BIOS Setup Main Menu

3.1.4 The BIOS Setup Advanced Menu. The Advanced menu (Figure 3-2) is used to configure advanced features available through your chipset. Setting items in the “Advanced” menu to incorrect values may cause your system to fail. This menu allows you to set your PCI configuration, boot configuration, peripheral configuration, IDE configuration, diskette configuration, event log configuration, and the video configuration.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
Setup Warning Setting items on this screen to incorrect values may Cause your system to malfunction!					
Extended Configuration		[Not Used]			
_ PCI Configuration _ Boot Configuration _ Peripheral Configuration _ IDE Configuration _ Diskette Configuration _ Event Log Configuration _ Video Configuration					
_ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit					

Figure 3-2 BIOS Setup Advanced Menu

3.1.4.1 PCI Configuration Sub-menu. The PCI Configuration sub-menu (Figure 3-3) is used to configure the IRQ priority of PCI slots individually. The options allowed are “AUTO” which is the default and IRQ’s 5, 9,10, and 11. The settings used for the SARSS-1 system require each entry to be set to “AUTO” as shown below.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
PCI Configuration					
PCI Slot1 IRQ Priority [Auto] PCI Slot2 IRQ Priority [Auto] PCI Slot3 IRQ Priority [Auto] PCI Slot4 IRQ Priority [Auto] PCI Slot5 IRQ Priority [Auto]					
_ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit					

Figure 3-3 PCI Configuration Sub-menu

3.1.4.2 Boot Configuration Sub-menu. The Boot Configuration Sub-menu (Figure 3-4) is used for setting Plug and Play (PNP) options, configuration data, the power-on state of the Numlock key. The correct settings for a SARSS-1 system are shown below. Be aware that the default setting for Plug & Play O/S is “YES”. SARSS-1 requires this item to be set to “NO”.

BIOS SETUP UTILITY			
Main	Advanced		
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> Boot Configuration Plug & Play O/S [No] Reset Config Data [No] Numlock [On] ISA Enable Bit [Enabled] PCI Latency Timer [32] </td> <td style="width: 50%; vertical-align: top;"> Security Power Boot Exit _ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit </td> </tr> </table>		Boot Configuration Plug & Play O/S [No] Reset Config Data [No] Numlock [On] ISA Enable Bit [Enabled] PCI Latency Timer [32]	Security Power Boot Exit _ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit
Boot Configuration Plug & Play O/S [No] Reset Config Data [No] Numlock [On] ISA Enable Bit [Enabled] PCI Latency Timer [32]	Security Power Boot Exit _ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit		

Figure 3-4 Boot Configuration Sub-menu

3.1.4.3 Peripheral Configuration Sub-menu. The Peripheral Configuration Sub-menu (Figure 3-5) is used to configure the serial (COM) ports, parallel (printer) port, audio device, LAN device, and USB. The correct settings for SARSS-1 are displayed below.

BIOS SETUP UTILITY	
Main	Advanced
<div style="display: flex; justify-content: space-around; font-weight: bold;"> Security Power Boot Exit </div>	
Peripheral Configuration	
Serial Port A	[Enabled]
Base I/O Address	[3F8]
Interrupt	[IRQ 4]
Serial Port B	[Enabled]
Base I/O Address	[2F8]
Interrupt	[IRQ 3]
Parallel Port	[Enabled]
Mode	[Bi-directional]
Base I/O Address	[378]
Interrupt	[IRQ 7]
Audio Device	[Enabled]
LAN Device	[Enabled]
High Speed USB	[Enabled]
Legacy USB Support	[Enabled]
	_ Select Menu _ Select Item Tab Select Field Enter Select_Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit

Figure 3-5 Peripheral Configuration Sub-menu

3.1.4.4 IDE Configuration Sub-menu. The IDE Configuration Sub-menu (Figure 3-6) is used to configure the IDE device options. The correct settings for SARSS_1 are displayed below. The Secondary IDE Master may have another device displayed, such as an “JLMS XJ-HD166S” which is another DVD-ROM type. The Primary IDE Master and Slave and the Secondary IDE Master devices should be set to “AUTO”. To verify this setting, use the down arrow key to highlight the item and then press “Enter”. The drive type should be set to “AUTO” which is the default setting. Press <ESC> to return to the IDE Configuration Sub-menu. Repeat the action for each of the IDE devices listed.

BIOS SETUP UTILITY															
Main	Advanced														
<table border="0"> <tr> <td></td> <td>Security</td> <td>Power</td> <td>Boot</td> <td>Exit</td> </tr> </table>			Security	Power	Boot	Exit									
	Security	Power	Boot	Exit											
<p>IDE Configuration</p> <p>IDE Controller [Both] PCI IDE Bus Master [Enabled] Hard Disk Pre-delay [Disabled]</p> <p>_ Primary IDE Master [ST320011A] _ Primary IDE Slave [ST320011A] _ Secondary IDE Master [Liteon DVD-ROM LTD1] _ Secondary IDE Slave [Not Installed]</p>															
<table border="0"> <tr> <td>_</td> <td>Select Menu</td> </tr> <tr> <td>_</td> <td>Select Item</td> </tr> <tr> <td>Tab</td> <td>Select Field</td> </tr> <tr> <td>Enter</td> <td>Select _Sub-Menu</td> </tr> <tr> <td>F9</td> <td>Setup Defaults</td> </tr> <tr> <td>F10</td> <td>Save and Exit</td> </tr> <tr> <td>ESC</td> <td>Exit</td> </tr> </table>		_	Select Menu	_	Select Item	Tab	Select Field	Enter	Select _Sub-Menu	F9	Setup Defaults	F10	Save and Exit	ESC	Exit
_	Select Menu														
_	Select Item														
Tab	Select Field														
Enter	Select _Sub-Menu														
F9	Setup Defaults														
F10	Save and Exit														
ESC	Exit														

Figure 3-6 IDE Configuration Sub-menu

3.1.4.5 Diskette Configuration Sub-menu. The Diskette Configuration Sub-menu (Figure 3-7) is used to configure the diskette drive. The correct settings for SARSS-1 are displayed below. These settings are also the default settings.

BIOS SETUP UTILITY															
Main	Advanced														
<table border="0"> <tr> <td></td> <td>Security</td> <td>Power</td> <td>Boot</td> <td>Exit</td> </tr> </table>			Security	Power	Boot	Exit									
	Security	Power	Boot	Exit											
<p>Diskette Configuration</p> <p>Diskette Controller [Enabled] Floppy A [1.44/1.25 MB 3 _"] Diskette Write Protect [Disabled]</p>															
<table border="0"> <tr> <td>_</td> <td>Select Menu</td> </tr> <tr> <td>_</td> <td>Select Item</td> </tr> <tr> <td>Tab</td> <td>Select Field</td> </tr> <tr> <td>Enter</td> <td>Select _Sub-Menu</td> </tr> <tr> <td>F9</td> <td>Setup Defaults</td> </tr> <tr> <td>F10</td> <td>Save and Exit</td> </tr> <tr> <td>ESC</td> <td>Exit</td> </tr> </table>		_	Select Menu	_	Select Item	Tab	Select Field	Enter	Select _Sub-Menu	F9	Setup Defaults	F10	Save and Exit	ESC	Exit
_	Select Menu														
_	Select Item														
Tab	Select Field														
Enter	Select _Sub-Menu														
F9	Setup Defaults														
F10	Save and Exit														
ESC	Exit														

Figure 3-7 Diskette Configuration Sub-menu

3.1.4.6 Event Log Configuration Sub-menu. The Event Log Configuration Sub-menu (Figure 3-8) is used to configure the event logging features. The correct settings for SARSS-1 are displayed in the figure below.

BIOS SETUP UTILITY	
Main	Advanced
Security Power Boot Exit	
Event Log Configuration	
Event Log	[Space Available]
Event Log Validity	[Valid]
_ View Event Log	
Clear All Event Logs	[No]
Event Logging	[Enabled]
ECC Event Logging	[Disabled]
_ Mark Events As Read	
_ Select Menu __ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit	

Figure 3-8 Event Log Configuration Sub-menu

3.1.4.7 Video Configuration Sub-menu. The Video Configuration Sub-menu (Figure 3-9) is used to configure the video features. The correct settings for the SARSS-1 system are displayed below.

BIOS SETUP UTILITY	
Main	Advanced
Security Power Boot Exit	
Video Configuration	
AGP Aperature Size	[64MB]
Primary Video Adapter	[AGP]
_ Select Menu __ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit	

Figure 3-9 Video Configuration Sub-menu

3.1.5 BIOS Setup Security Menu. The BIOS Setup Security Menu (Figure 3-10) is used to set passwords and security features. The correct settings for SARSS-1 are displayed below. It is recommended that Supervisor and User passwords not be set at this time.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
Supervisor Password Is		[Not Installed]			
User Password Is		[Not Installed]			
_ Set Supervisor Password				_ Select Menu	
_ Set User Password				_ Select Item	
				Tab Select Field	
				Enter Select _Sub-Menu	
				F9 Setup Defaults	
				F10 Save and Exit	
				ESC Exit	

Figure 3-10 BIOS Setup Security Menu

3.1.6 BIOS Setup Power Menu. The BIOS Setup Power Menu (Figure 3-11) is used to for setting the power management features. The correct settings for SARSS-1 are displayed below. The “After Power Failure” item is set to “Stay Off” so that if there is a power failure, you will be required to press the power button to restart the machine. It is advised that you display the APM and ACPI Sub-menus to verify their settings.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
_ APM					
_ ACPI					
After Power Failure		[Stay Off]			
The options below are not related to ACPI and may Be ignored when shutting down using and ACPI OS.					
Wake On LAN		[Power On]		_ Select Menu	
Wake On PME		[Power On]		_ Select Item	
Wake On Modem Ring		[Stay Off]		Tab Select Field	
				Enter Select _Sub-Menu	
				F9 Setup Defaults	
				F10 Save and Exit	
				ESC Exit	

Figure 3-11 BIOS Setup Power Menu

3.1.7 BIOS Setup Boot Menu. The BIOS Setup Boot Menu (Figure 3-14) is used to set the boot features and the boot sequence of devices on the system. The correct settings for SARSS-1 are displayed in the figure below. It is important that “Quiet Boot” be disabled or you will not see the Power-on Self Test (POST) messages. You should view the “Boot Device Priority” sub-menu to verify the sequence of boot devices.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
Quiet Boot		[Disabled]			
Intel ® Rapid BIOS Boot		[Enabled]			
Scan User Flash Area		[Disabled]			
USB Boot		[Enabled]			
PXE Remote Boot		[Disabled]			
_ Boot Device Priority				_	Select Menu
_ Hard Disk Drives				_	Select Item
_ Removable Devices				Tab	Select Field
_ ATAPI CD-ROM Drives				Enter	Select _Sub-Menu
				F9	Setup Defaults
				F10	Save and Exit
				ESC	Exit

Figure 3-14 BIOS Setup Boot Menu

3.1.7.1 Boot Device Priority Sub-menu. The Boot Device Priority Sub-menu (Figure 3-15) is used to specify the boot sequence according to the device type. The correct settings for SARSS-1 are displayed in the figure below.

BIOS SETUP UTILITY					
Main	Advanced	Security	Power	Boot	Exit
1 st Boot Device		[ATAPI CD-ROM]			
2 nd Boot Device		[Removable Device]			
3 rd Boot Device		[Hard Drive]			
4 th Boot Device		[Adaptec SCSI CD-ROM DR]			
				_	Select Menu
				_	Select Item
				Tab	Select Field
				Enter	Select _Sub-Menu
				F9	Setup Defaults
				F10	Save and Exit
				ESC	Exit

Figure 3-15 Boot Device Priority Sub-menu

3.1.8 BIOS Setup Exit Menu. The BIOS Setup Exit Menu (Figure 3-16) is used to exit the BIOS Setup utility, save changes, and load and save defaults. Note: If you choose “Load Setup Defaults”, you BIOS settings will be incorrect for SARSS-1 and you will need to go back through and correct the settings.

BIOS SETUP UTILITY	
Main	Advanced
Security	Power
Boot	Exit
_ Exit Saving Changes _ Exit Discarding Changes _ Load Setup Defaults _ Load Custom Defaults _ Discard Changes	_ Select Menu _ Select Item Tab Select Field Enter Select _Sub-Menu F9 Setup Defaults F10 Save and Exit ESC Exit

Figure 3-16 BIOS Setup Exit Menu

3.2 Install the Solaris and SARSS-1 Software. You will need the following software:

- Solaris 8 System Build diskette (Custom Jump Start)
- Solaris 8 version 02/02 CDROM volumes 1 and 2
- Solaris 8 Update Patches CDROM
- SARSS-1 SYSBLD CDROM L1Y-03-26

1. Insert the Solaris 8 System Build diskette in the floppy drive and power up the server.
2. Insert the Solaris 8 Version 02/02 CD Volume 1 in the CDROM (lower) drive.
3. The server will boot up and the screen will display “Loading /solaris/boot.bin”
4. Next the “Solaris Device Configuration Assistant” (Figure 3-17) screen will be displayed.

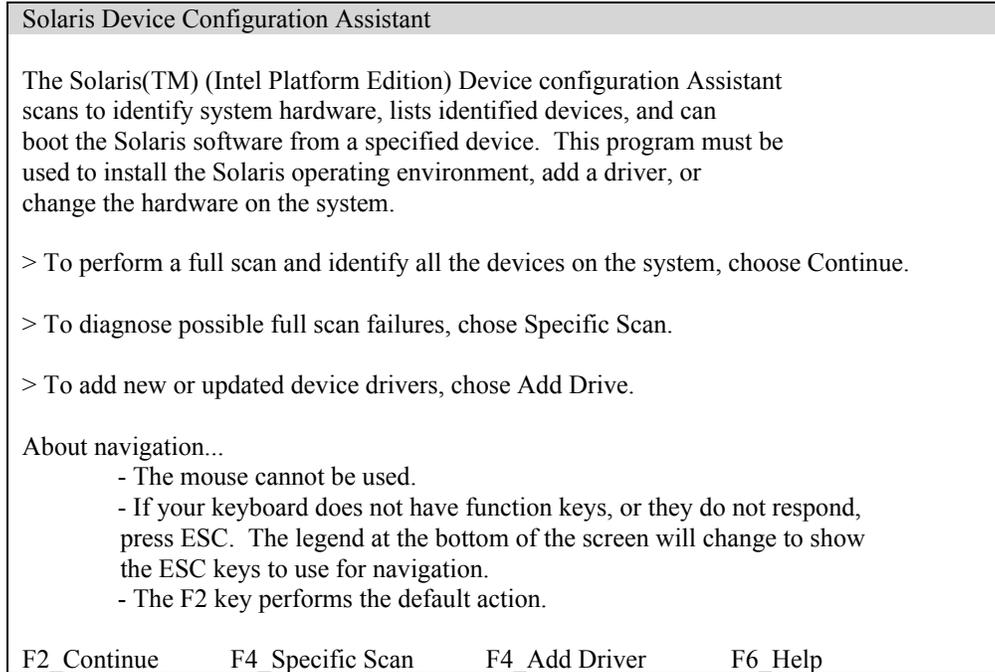


Figure 3-17 Solaris Device Configuration Assistant Screen

5. Press “F2” to continue.
6. The scanning devices screen (Figure 3-18) will be displayed.

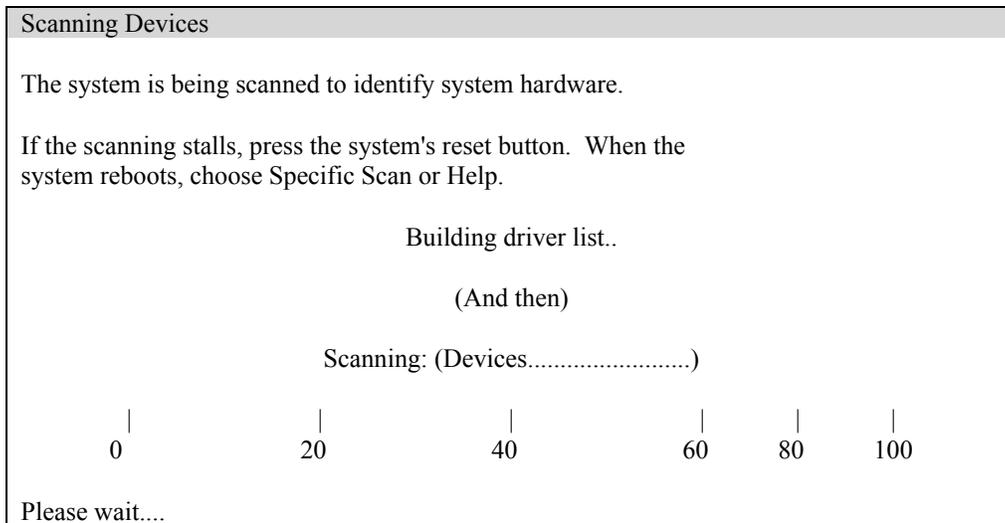


Figure 3-18 Scanning Devices Screen

7. The Identified Devices screen (Figure 3-19) will be displayed.

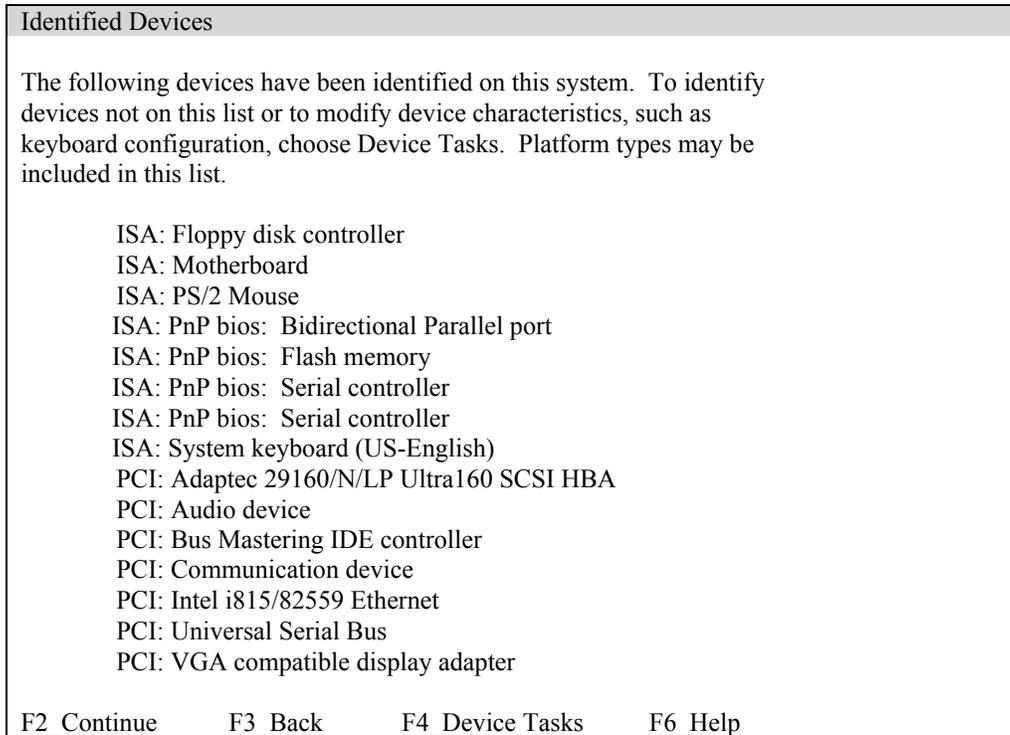


Figure 3-19 Identified Devices Screen

8. Press "F2" to continue.

9. The "Loading Drivers" screen (Figure 3-20) is displayed.

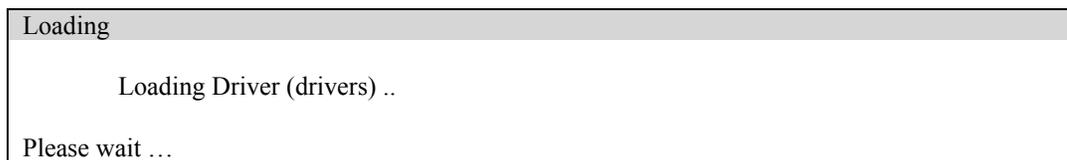


Figure 3-20 Loading Drivers Screen

10. The “Boot Solaris” screen (Figure 3-21) is displayed.

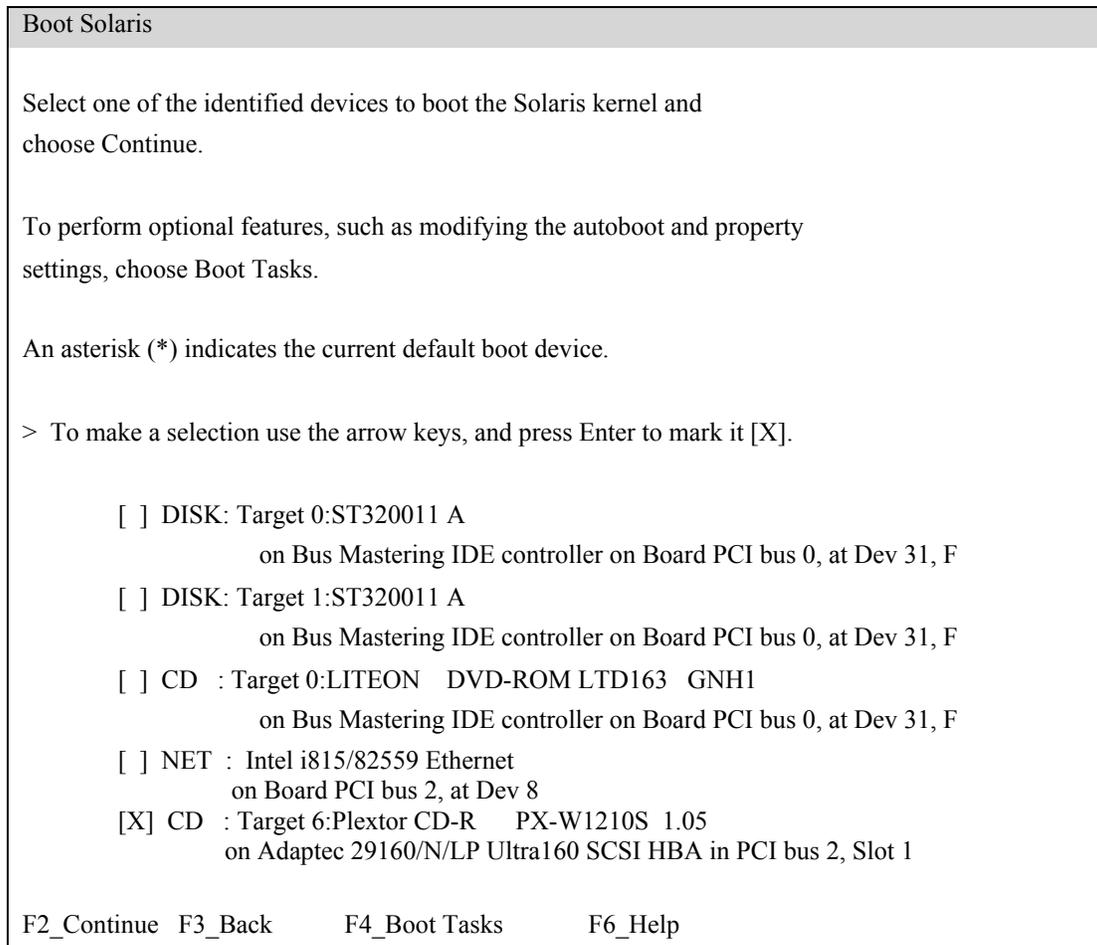


Figure 3-21 Boot Solaris Screen

12. Select “[] CD : Target 6:Plextor CD-R PX-W1210S 1.05” and press “F2” to continue.
13. You will be prompted to select the type on installation you want to perform. Select “2” for “Custom JumpStart” and press enter. If you enter anything other than a “2” or you wait longer than 30 seconds, the interactive installation will begin and you will have to start the installation process from the beginning.

14. A gray screen will appear and the following messages will be displayed:

Configuring /dev and /devices
Using RPC Bootparams for network configuration information
Skipping interface iprb0
Searching for configuration files(s)...
Using sysid configuration file from local floppy
All devices are configured...
Starting OpenWindows...

15. The screen will go black for about 10-15 seconds then the Solaris logo screen is displayed.

16. The Solaris Install Console (Figure 3-22) will be displayed after a few moments.

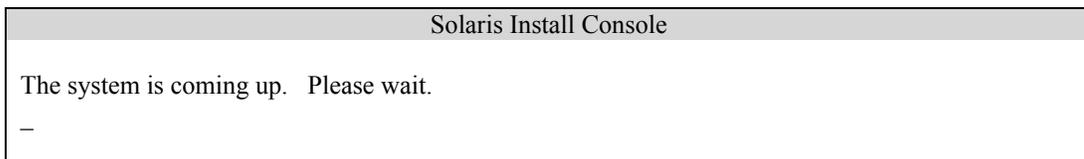


Figure 3-22 Solaris Install Console

17. A window titled "The Solaris Installation Program" (Figure 3-23) will be displayed.

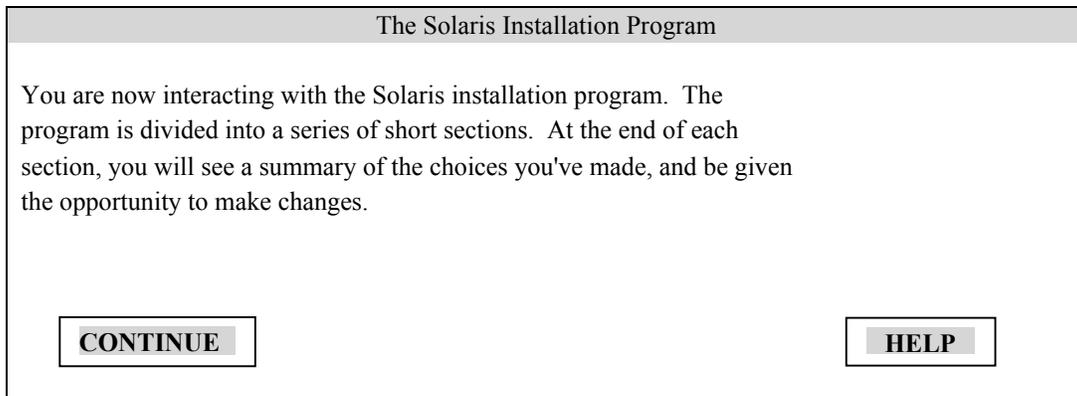


Figure 3-23 Solaris Installation Program Screen

18. Click "Continue" to go to the first section.

19. A window titled “Identify This System” (Figure 3-24) will be displayed.

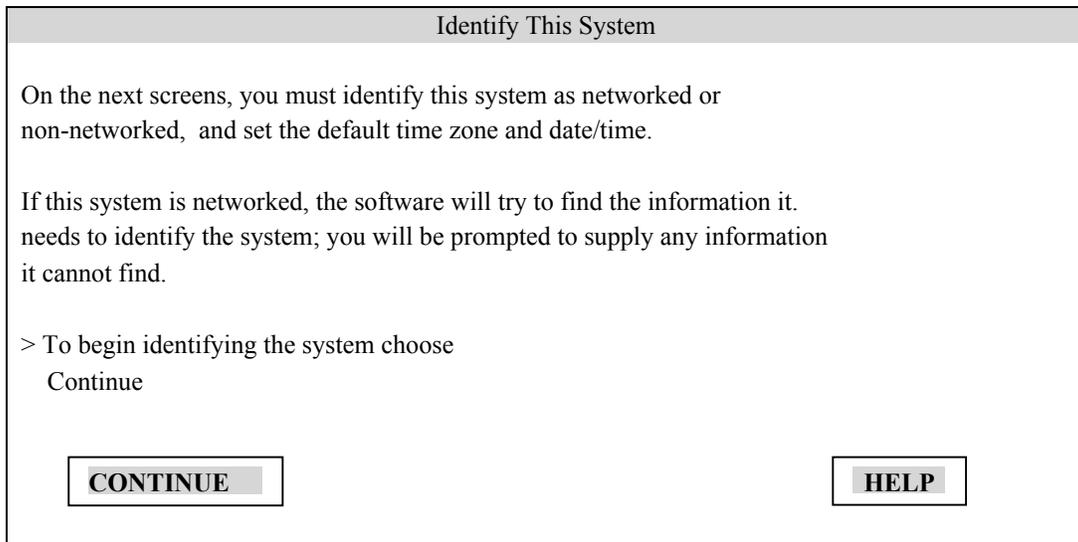


Figure 3-24 Identify This System Screen

20. Click “Continue” to go to the next step.

21. A window titled “Time Zone” (Figure 3-25) will be displayed.

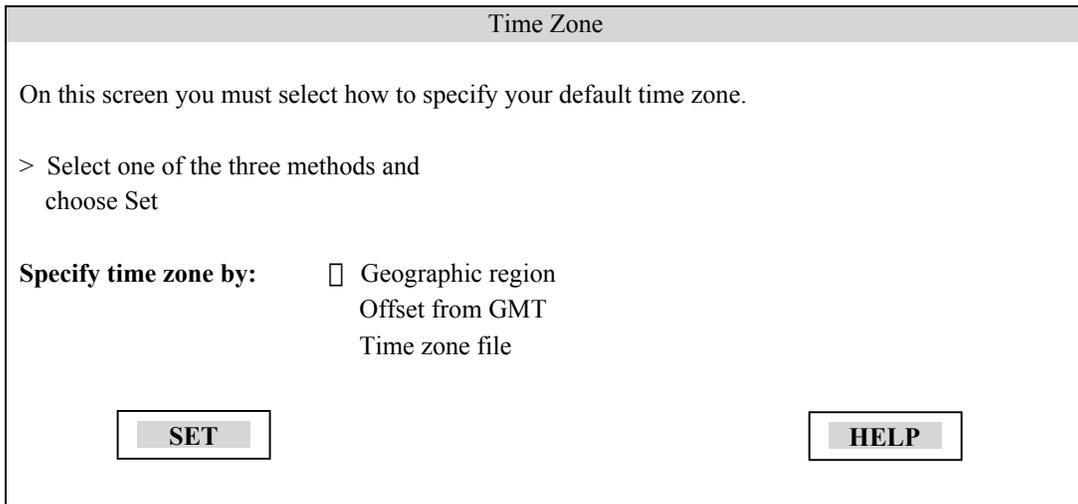


Figure 3-25 Time Zone Screen

22. Select “Geographic region” and click “Set”.

23. A window titled “Geographic Region” (Figure 3-26) is displayed.

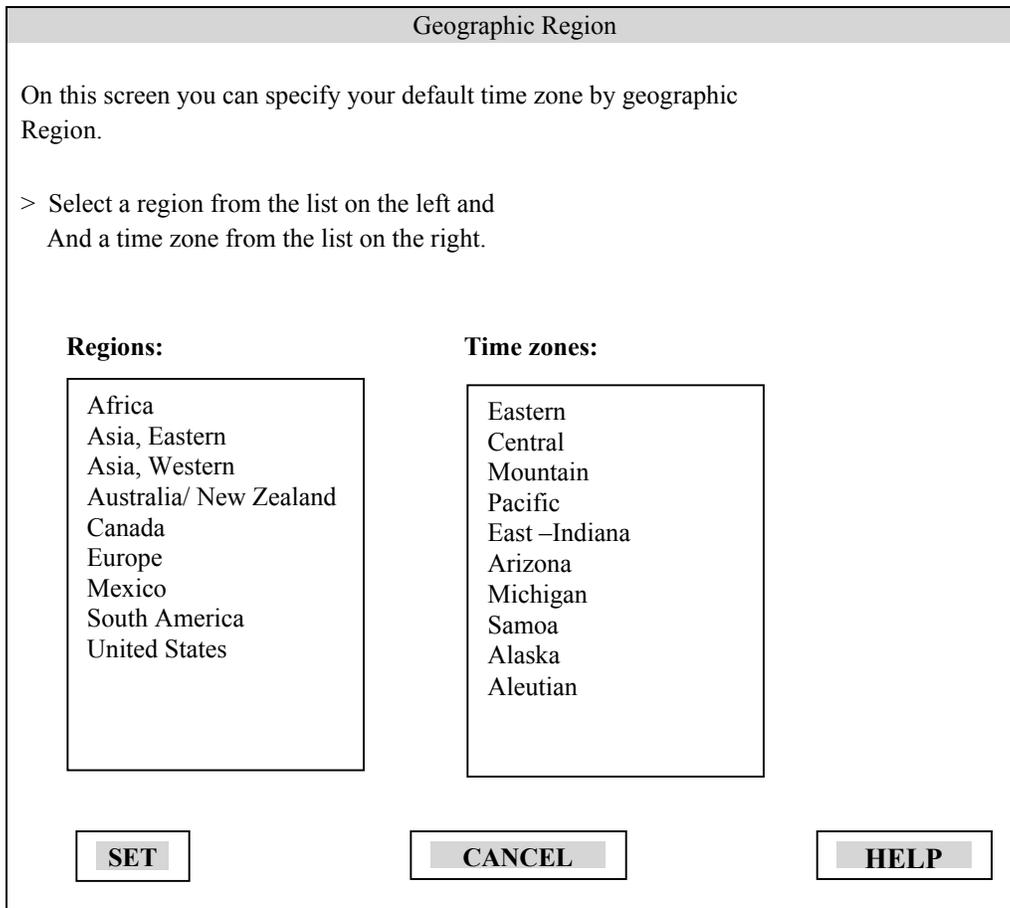


Figure 3-26 Geographic Region Screen

24. Select the appropriate region and time zone and click “Set”. For example, Ft. Bragg would select United States Eastern, Ft. Hood would select United States Central, and Germany would select Europe Central.

25. A window titled “Date and Time” (Figure 3-27) will be displayed.

Date and Time

> Accept the default date and time or enter new values.

Date and time: 2003-04-7 12:55

Year (4 digits) :

Month (1-12) :

Day (1-31) :

Hour (1-23) :

Minute (1-59) :

Figure 3-27 Date and Time Screen

26. Click “Continue” to accept the default date and time, or modify the date and time in the boxes and then click “Continue” to set the date and time.

27. A window titled “Confirm Information” (Figure 3-28) will be displayed.

Confirm Information

> Confirm the following information. If it is correct, choose Continue; to change any information choose Change.

Time zone: US/Eastern
Date and time: 2003-04-7 12:55

Figure 3-28 Confirm Information Screen

28. Click “Continue” to confirm the information and go to the next step, or click “Change” to correct the information.
29. The installation of Solaris from the CD begins now and messages displaying the progress of the installation are displayed in the “Solaris Install Console”.
30. You will be prompted to insert Solaris Software CD disk 2 of 2 in the top CD-ROM drive (Figure 3-29).

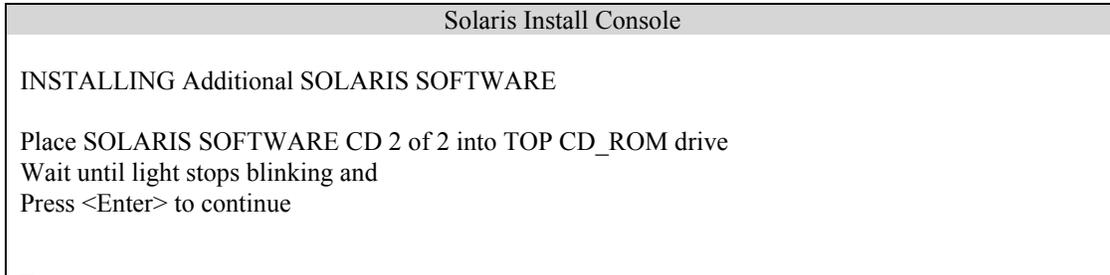


Figure 3-29 Solaris Install Console (Additional Solaris Software).

31. When the Solaris Software is done loading you will be prompted to insert Solaris 8_x86 Patch CD into the top CD-ROM drive (Figure 3-30).

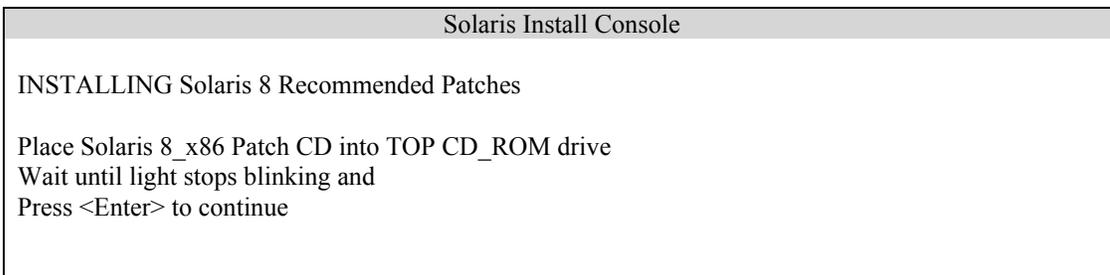


Figure 3-30 Solaris Install Console (Patches)

32. The Solaris patches will begin loading. You will be prompted on two occasions to decide whether a certain patch should be loaded or not. In each case respond “yes” to the question or wait sixty (60) seconds and the patch will be loaded (Figure 3-31).

```
Solaris Install Console

dhcpagent supports a new keyword in /etc/default/dhcpagent,
Please merge the existing /etc/default/dhcpagent with the
Patched version of /etc/default/dhcpagent shipped with this
patch.

Do you wish to continue this installation {yes or no} [yes]?
(by default, installation will continue in 60 seconds)
```

Figure 3-31 Solaris Install Console (dhcpagent)

33. When the patch install is complete you will be prompted to insert the SARSS-1 SYSBLD CD-ROM in the top CD-ROM drive (Figure 3-32).

```
Solaris Install Console

INSTALLING SARSS SOFTWARE

Place SARSS-1 Sysbuild CD-ROM into TOP CD_ROM drive
Wait until light stops blinking and
Press <Enter> to continue
```

Figure 3-32 Solaris Install Console (Installing SARSS Software)

34. The SARSS-1 files will be loaded. When the load is complete, you will be prompted to remove the boot (custom jumpstart) diskette and press <Enter> to reboot the system (Figure 3-33). When the system reboots, remove the CD from the PLEXTOR CD-ROM drive.

```
Solaris Install Console

Finished with SARSS SYSTEM Restore

REMOVE BOOT DISKETTE and
Press <Enter> to reboot system_
```

Figure 3-33 Solaris Install Console (Restore Finished)

35. The system will reboot. As the system boots back up a screen will be displayed (Figure 3-34) that asks you to create a root password. Enter the desired password and press “Return” then re-enter the password and press “Return”.

On this screen you can create a root password.

A root password can contain any number of characters, but only the first eight characters in the password are significant. (For example, if you create 'a1b2c3d4e5f6' as your root password, you can use 'a1b2c3d4' to gain root access.)

You will be prompted to type the root password twice; for security, the password will not be displayed on the screen as you type it.

> If you do not want a root password, press RETURN twice.

Root password:

Press Return to continue.

Figure 3-34 Create Root Password

36. The system will finish booting up and the SARSS-1(O) ajt01 screen will be displayed.
37. Logon as "root", type root and press "Return", then enter the password you just assigned and press "Return". A welcome screen (Figure 3-35) will be displayed that asks you to choose your default desktop.

Welcome to Solaris. The following desktops are available. Which one would you like to use as your default desktop?

Note: You can change this default at any time by using the Session Menu located on the Desktop Login Screen's Options Menu.

Choose one:

SARSS-1 (O) Common Desktop Environment (CDE)

OpenWindows Desktop

Figure 3-35 Select Desktop Screen

38. Select “SARSS-1 (O) Common Desktop Environment (CDE)” and click “OK”.
39. The Solaris Welcome Screen will be displayed briefly, and then the Desktop will be displayed.
40. Close the “File Manager” and “Help Viewer” windows.
41. Click on the “arrow head” above the performance meters and select “This Host” from the menu. This will open a terminal window.
42. Select “Options” from the terminal menu, select “Font Size”, and select 17.0 point. This will set the window size. Drag the window to the center of the screen if desired.
43. At the prompt type “lpc up ajt01” and press <Enter>. This will enable the printer assigned to the server.
44. Click the “EXIT” icon on the Desktop Taskbar. Confirm that you wish to exit.
45. The SARSS-1(O) ajt01 screen will be displayed.
46. Logon as ajt01.
47. The “SARSS QUEUES CHECK” window may be displayed. If the window is displayed press <Enter> to continue.
48. Logon on to SARSS as you normally would. You may now perform any of your SARSS-1 functions. It is recommended that you restore you latest master file backup, then create a new SYSBLD CD, and a new master file backup CD. If you are upgrading from the old server to the new server, you must follow the conversion instructions provided separately in the SVD for LIY-03-26.

4. Functional Changes. The MicronPC ClientPro 525-G designated as the new server is equipped with a CD-RW drive which replaces the 4MM tape drive as the backup device for the server. This hardware device change changes the procedures and commands for CLO, SYSBLD, BKUP, and RMF commands. Each command will be covered in more detail below.

4.1 About CD-ROMS. SARSS-1 has replaced the 4mm tape drive with a PLEXTOR CD-RW drive. The CD drive can read all types of CD-ROMS and/or write CD-ROMS. There are two types of CD-ROMS that this drive can write to. The first is the CD-R CD-ROM. This type of CD-ROM can be written to only once and from that point on can only be read. The second type is the CD-RW CD-ROM. This type of CD-ROM can be written to, and then later written over. You can overwrite a CD-RW many times. In addition the SARSS-1 server is also equipped with a DVD-ROM drive. This drive can only read DVDs and CD-ROMS. This drive is not capable of writing to any type of CD-ROM media.

4.2 SYSBLD Utility. The SYSBLD utility has been changed to accommodate the replacement of the 4mm tape drive with a CD-RW drive. Option 2 in the menu has been changed (see Figure 4-1) to create a System Load CD_ROM.

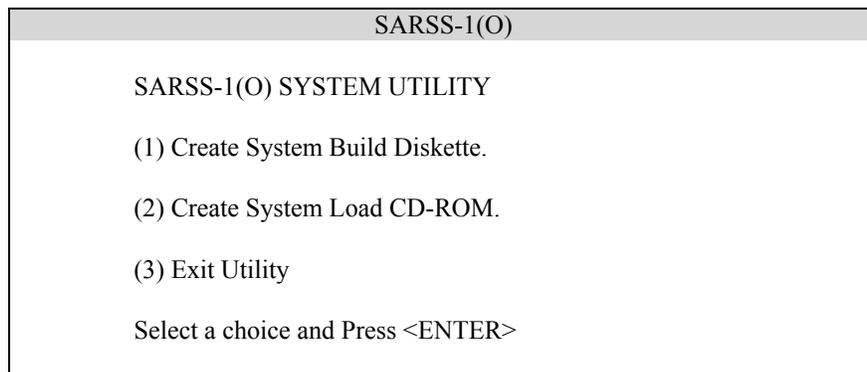


Figure 4-1 System Utility (SYSBLD) Screen

4.2.1 Create System Load CD-ROM. To create a System Load CD-ROM, enter the command "SYSBLD" on the Action line and press <ESC>. The SYSBLD Utility menu will be displayed (Figure 4-1). Press "2" and Press <ENTER> to create the System Load CD-ROM. The system will bring down all workstations, communications, printing, and background processes (see Figure 4-2).

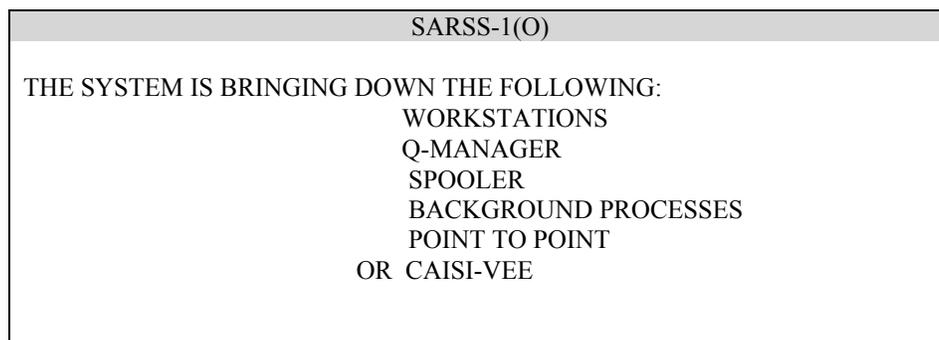


Figure 4-2 Bringing Down Processes

After the background processes have been brought down, a screen will be displayed indicating the files are being processed for backup (Figure 4-3).

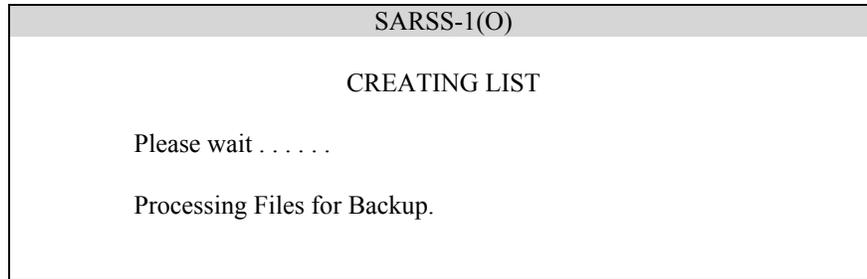


Figure 4-3 Creating List

Next you will be prompted to insert a blank CD-R/CD-RW CD-ROM into the PLEXTOR CD-ROM drive. After the CD-ROM is recognized, the system will display that it is writing the CD (Figure 4-4).

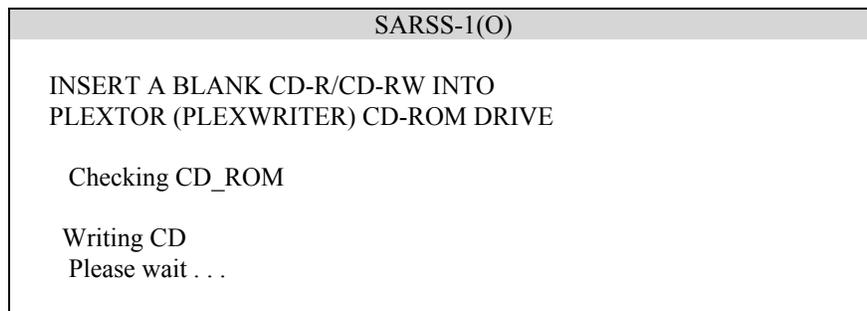


Figure 4-4 Insert Blank CD-R/CD-RW

After successfully creating the System Load CD-ROM, a screen (Figure 4-5) will display messages indicating the successful creation and verification of the CD-ROM. The CD-ROM will be ejected and you will be prompted to label the CD-ROM. Press <ENTER> to continue and finally press <ENTER> return to the SYSBLD main menu (Figure 4-1).

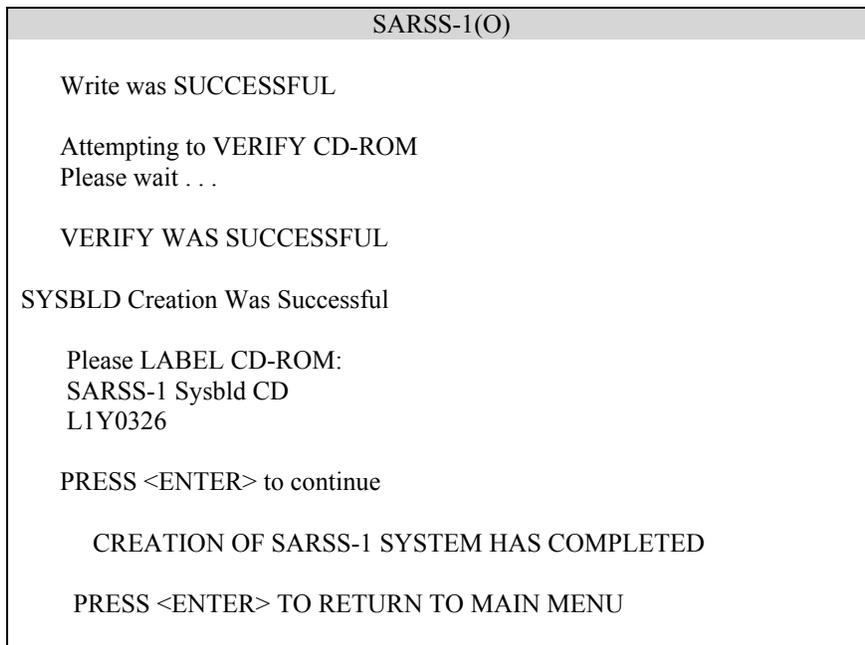


Figure 4-5 Successful Creation of System Load CD-ROM

After pressing <ENTER> to return to the main menu, the system will display a screen indicating that the processes are being brought back up (Figure 4-6). After the processes are brought back up the SYSBLD Main Menu (Figure 4-1) will be displayed. Press “3” and press <ENTER> to return to the SARSS Main Menu.

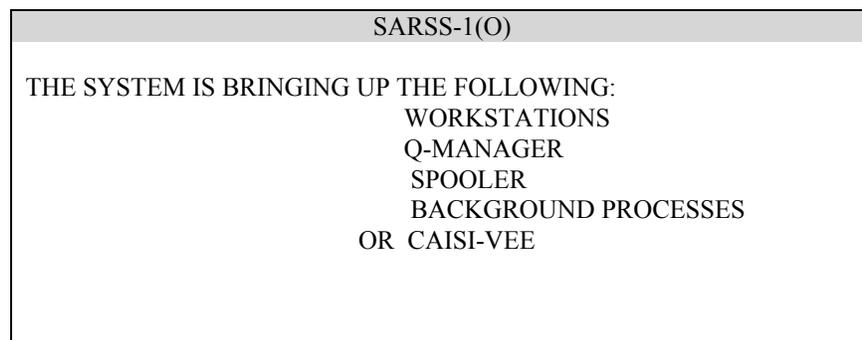


Figure 4-6 Bring Processes Back Up

4.2.2 SYSBLD Errors and Messages. During creation of the System Load CD, several messages indicating exceptions or errors may be displayed. When an error condition occurs, you will be given the option to retry the operation or to “ABORT” the operation. An example of a message indicating an exception is shown in (Figure 4-7). In the example given, the system has detected that a CD-RW was used which already contained data. The system was able to erase the data and reuse the CD-RW CD-ROM successfully.

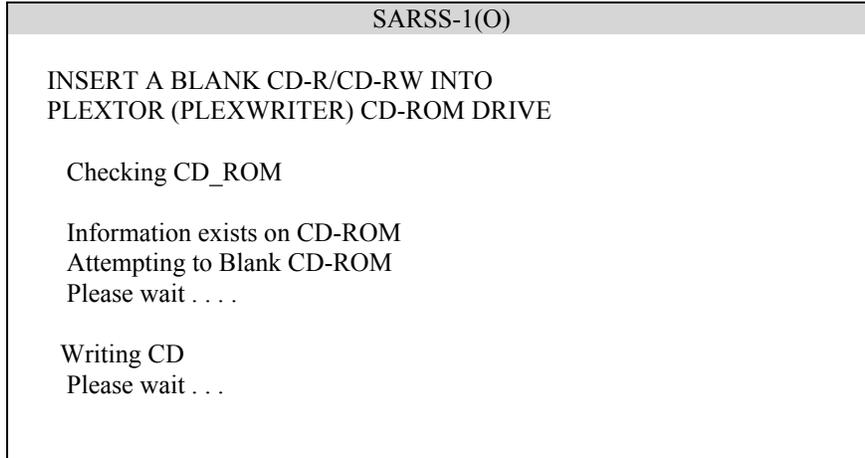


Figure 4-7 Exception Message

If the system encounters an error while creating the System Load CD-ROM, you will be prompted to replace the CD-R/CD-RW CD-ROM and Press<ENTER> to continue or type “ABORT” to exit the SYSBLD Utility. An example of an error in creating a CD is shown in (Figure 4-8). The error shown below could be caused by a bad CD-RW or by a CD-R that has been previously written to.

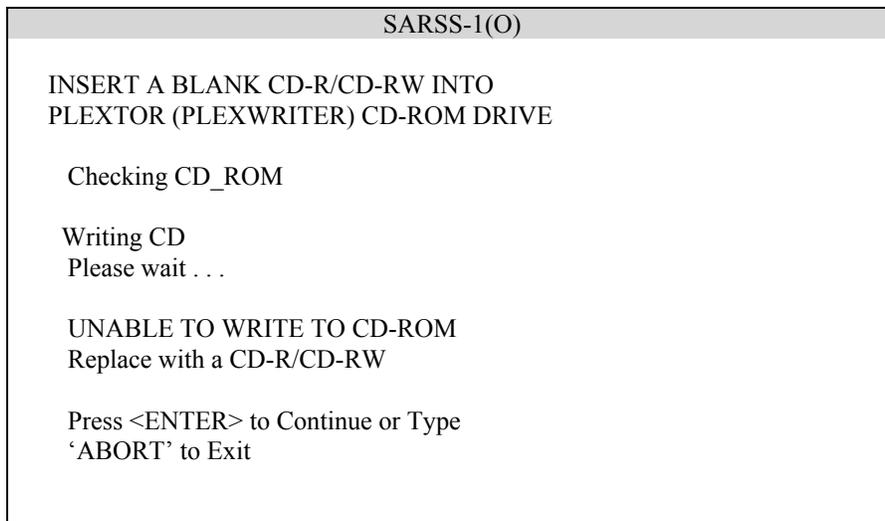


Figure 4-8 Unable to Write CD

4.3 Back-up (BKUP) Changes. The BKUP process has been changed to accommodate the replacement of the 4mm tape drive with a CD-RW drive. The valid media types for backup are now diskettes and CD-ROMS. The Media Selection screen (see Figure 4-9) has been changed to use ‘C’ for compact Disks (CDs) as opposed to ‘T’ for tape streamer. There are new screens that will display the progress of the backup to the CD-ROM. You may use CD-RW CD-ROMS that have previously used. If you are going to use CD-R CD-ROMS, they must be new blank CD-ROMS or you will receive an error and will be prompted to insert a blank CD-ROM.

4.3.1 Create Backup CD-ROM. Enter ‘BKUP’ on the action line and press <ESC>. When the Media Selection screen is displayed (Figure 4-9), enter a ‘C’ and press <ESC>.

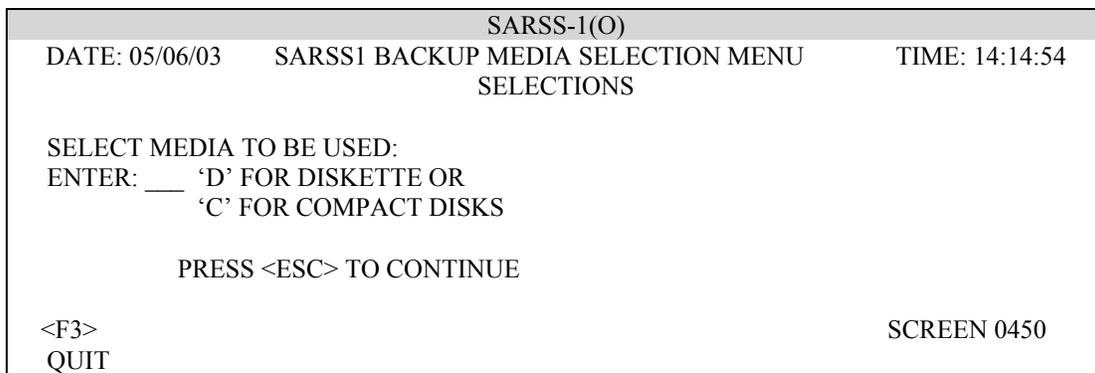


Figure 4-9 Backup Media Selection Screen

You will be prompted to enter a blank CD-R/CD-RW into the PLEXTOR drive and press <ENTER> (Figure 4-10). After pressing <ENTER> the system will check the CD-ROM to see if it has previously been written to or if it is bad. If the CD was previously written on, the system will try to blank the CD then write to it. If the system cannot blank the CD, you will be prompted to insert a blank CD-R/CD-RW and press <ENTER> to continue or to type ‘ABORT’ to exit.

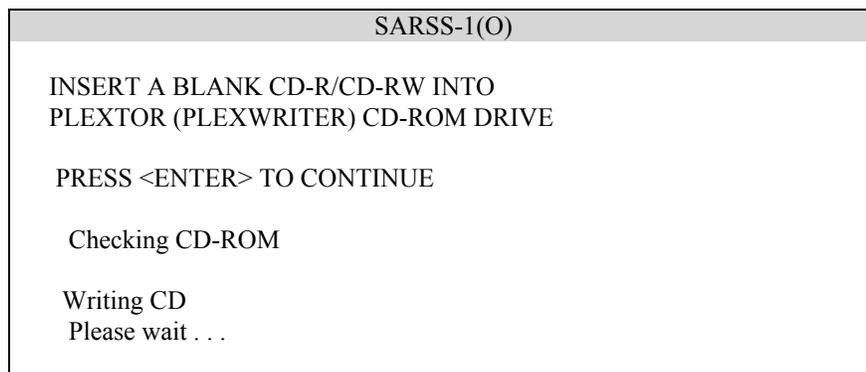


Figure 4-10 Insert CD

After the CD-ROM has been written and verified, the CD-ROM will be ejected and you will be prompted to label the CD-ROM and press <ENTER> to continue (Figure 4-11)

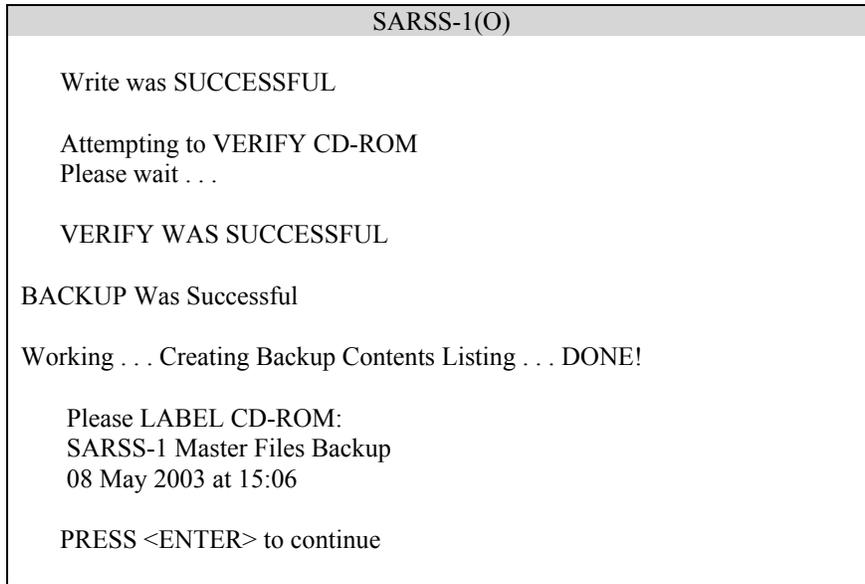


Figure 4-11 Write Successful

After you press <ENTER> to continue you will be asked whether you wish to print the Backup Listing or not (Figure 4-12). Enter “Y” and press <ENTER> to print the Backup Listing, else enter “N” and press <ENTER> and printing of the Backup Listing will be bypassed. The default answer to the question is “Y”, if you just press <ENTER>, the Backup Listing will be printed.

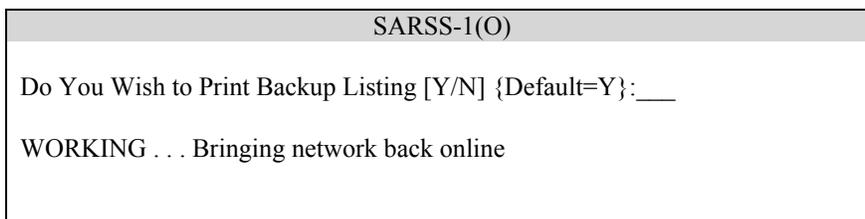


Figure 4-12 Print Backup Listing

After the Network is brought back online, you will be asked to verify whether the backup was successful or not (Figure 4-13). Enter an ‘X’ next to backup failed and press <ESC> to return to the SARSS menu, or enter an ‘X’ next to backup successful and press <ESC> to continue.

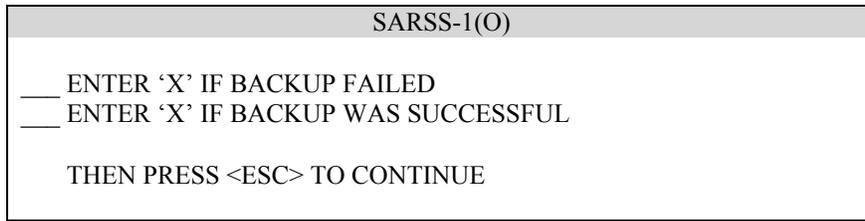


Figure 4-13 Verify Backup Success

After you indicate that the backup was successful and press <ESC>, a screen will be displayed indicating that the backup is complete (Figure 4-14).

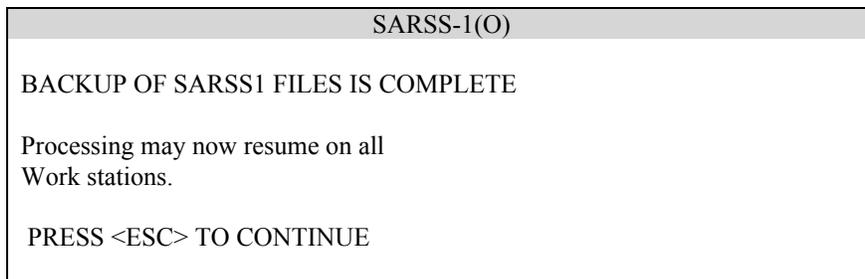


Figure 4-14 Backup Complete

When you press <ESC> to continue you will be returned to the SARSS Master Menu.

4.3.2 Backup Errors and Messages. During creation of the Backup CD, several messages indicating exceptions or errors may be displayed. When an error condition occurs, you will be given the option to retry the operation or to “ABORT” the operation. An example of a message indicating an exception is shown in (Figure 4-15). In the example given, the system has detected that a CD-RW was used which already contained data. The system was able to erase the data and reuse the CD-RW CD-ROM successfully.

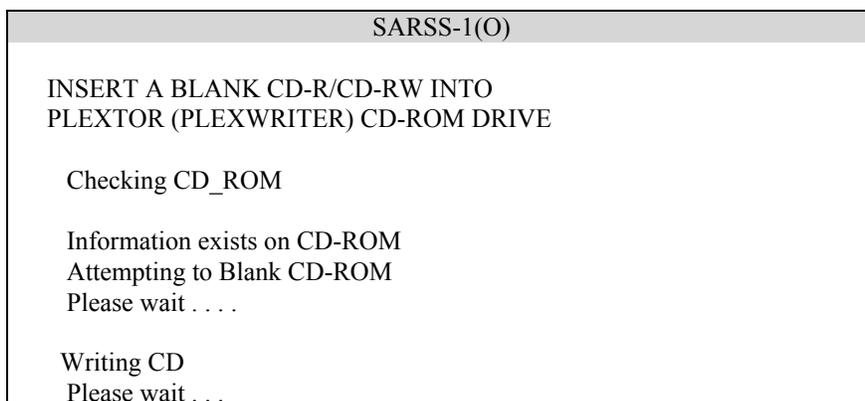


Figure 4-15 Exception Message

If the system encounters an error while creating the Backup CD-ROM, you will be prompted to replace the CD-R/CD-RW CD-ROM and Press<ENTER> to continue or type “ABORT” to exit Backup. An example of an error in creating a CD is shown in (Figure 4-16). The error shown below could be caused by a bad CD-RW or by a CD-R that has been previously written to.

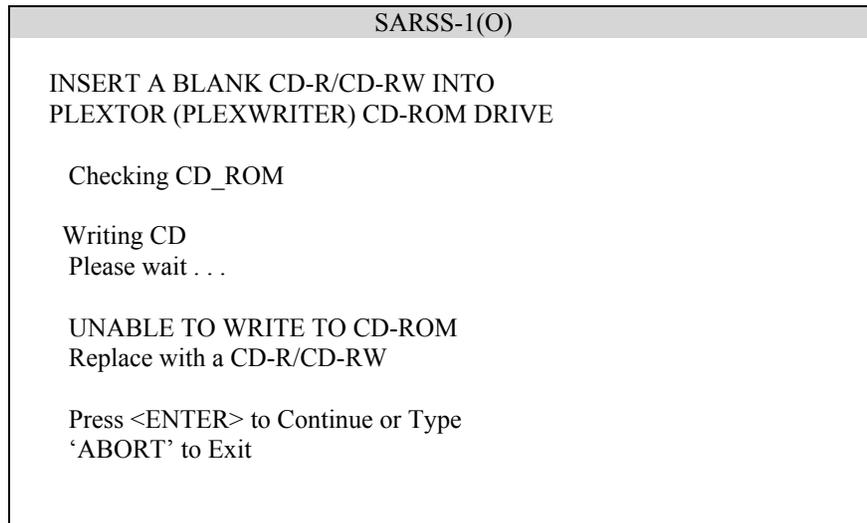


Figure 4-16 Unable to Write CD

4.4 Restore Master Files (RMF) Changes. The RMF process has been changed to accommodate the replacement of the 4mm tape drive with a CD-RW drive. The valid media types to restore master files from are now diskettes and CD-ROMS. The Media Selection screen (see Figure 4-17) has been changed to use ‘C’ for compact Disks (CDs) as opposed to ‘T’ for tape streamer. There are new screens that will display the progress of the restore from the CD-ROM.

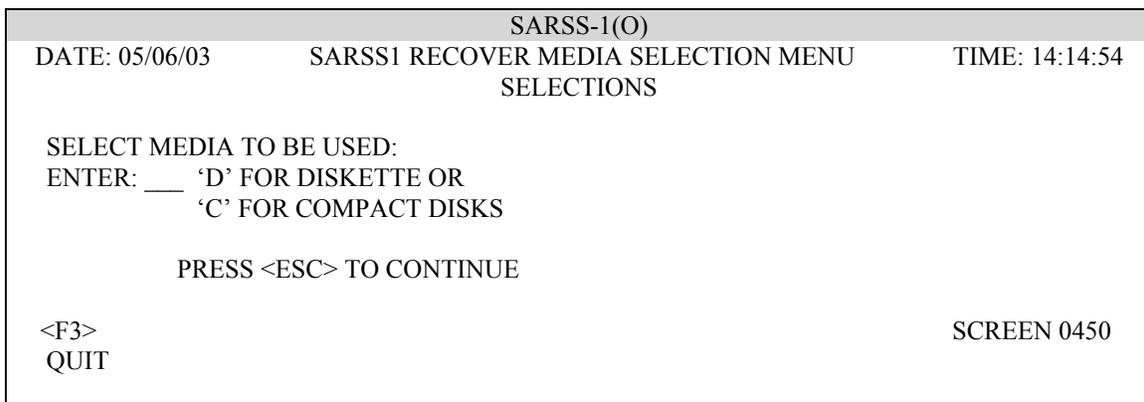


Figure 4-17 Recover Media Selection Menu

4.4.1 Restore Master Files From CD-ROM. To restore you master files from CD-ROM, enter the command “RMF” on the Action line and press <ESC>. The system will inform you that it is bringing MROCS and other background processes off line. The ‘RMF’ process screens remain the same until you get to the Media Selection Menu (Figure 4-17). Enter a ‘C’ and Press <ESC> to restore your master files from CD-ROM. The SARSS1 Recover Master Files screen # 0451 (Figure 4-18) will be displayed explaining the consequences of running the RMF process.

```

SARSS-1(O)
DATE: 05/06/03          SARSS1 RECOVER MASTER FILES          TIME: 14:14:54

CAUTION: WORKSTATIONS WILL BE DISABLED AND MUST BE
          LOGGED INTO AGAIN AFTER FILE RESTORES ARE
          COMPLETED.

WHEN YOU RUN THIS PROCESS YOU WILL REPLACE THE CURRENT FILES WITH
DATA FROM YOUR MOST RECENT BACKUP.

IF YOU DO NOT WISH TO RECOVER THESE FILES, ENTER A COMMAND ON THE
ACTION LINE AND PRESS <ESC>, ELSE PRESS <ESC> TO CONTINUE.

ACTION: ____ <=== ENTER COMMAND TO SELECT YOUR PROCESS          SCREEN 0451
<HOME>=HELP MENU=PREVIOUS MENU; SMM=SARSS MASTER MENU; LOGOUT = QUIT

```

Figure 4-18 Recover Master Files Screen 0451

Press <ESC> to continue the master files restore or enter a command such as ‘SMM’ on the action line to quit the “RMF” process. When you press <ESC> the SARSS1 Recover Master Files screen # 0467 (Figure 4-19) will be displayed again warning of the consequences of running the ‘RMF’ process and giving you the option to exit the process. Enter ‘RESTORE’ on the action line and press <ESC> to continue or enter a command such as ‘SMM’ to exit the process.

```

SARSS-1(O)
DATE: 05/06/03          SARSS1 RECOVER MASTER FILES          TIME: 14:14:54

WARNING: ALL PREVIOUSLY EXISTING FILES WILL BE
          ELIMINATED UPON RESTORATION OF YOUR

ENTER ‘RESTORE’ ON THE ACTION LINE TO CONTINUE ELSE
ENTER A COMMAND ON THE ACTION LINS AND PRESS <ESC>

ACTION: ____ <=== ENTER COMMAND TO SELECT YOUR PROCESS          SCREEN 0467
<HOME>=HELP MENU=PREVIOUS MENU; SMM=SARSS MASTER MENU; LOGOUT = QUIT

```

Figure 4-19 Recover Master files Screen 0467

After entering 'RESTORE' on the action line and pressing <ESC>, messages indicating the PTP/FTP are being brought down and the space required will be displayed. You will be prompted to insert the CD-ROM containing your master files into the CD-ROM drive (Figure 4-20). You may use either CR-ROM drive when restoring files.

```
SARSS-1(O)

INSERT A CD-ROM
PRESS <ENTER> TO CONTINUE
IF THERE ARE ANY ERRORS DURING THIS RESTORE:
ENTER 'RMF' AND PRESS <ENTER> TO RESTART YOUR RESTORE.
```

Figure 4-20 Insert CD-ROM

After pressing <ENTER> to continue, the label information for the CD-ROM will be displayed (Figure 4-21) and you will be asked to enter a 'y' to continue or an 'n' to quit.

```
SARSS-1(O)

The CD contains the following header information:
TBUALL Backup: May 08, 2003 09:25
Do you wish to continue [y/n]? - ____
```

Figure 4-21 Header Information

After entering 'y' and pressing <ENTER>, you see the list of files to be restored scroll by. Then the messages informing you that that the files are being restored and the status of the restore will be displayed (Figure 4-22). You will be prompted to press <ENTER> to continue.

```
SARSS-1(O)

Restoring Master Files

Restore was successful – Return Code = 0.

    THE RESTORE OF THE SARSS1 FILES IS NOW COMPLETE.

Press <Enter> to continue - ____
```

Figure 4-22 Restoring Master Files

After pressing <ENTER> to continue, you will see a message that the system is Bringing the network back on line, then you will be asked to verify the success or failure of the recover process (Figure 4-23). Place an 'X' in the appropriate space and press <ESC> to

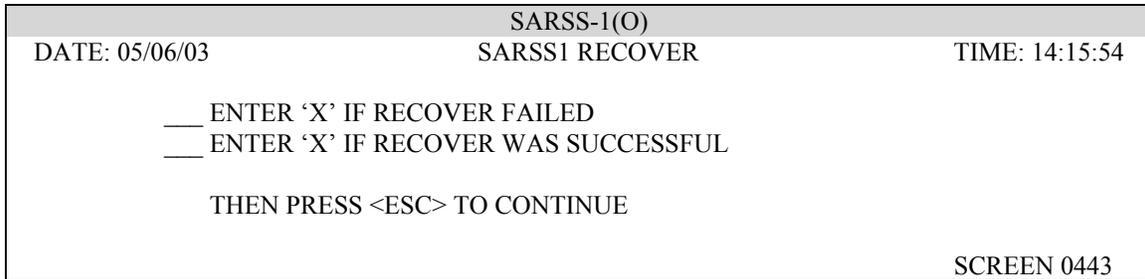


Figure 4-23 SARSS1 Recover Screen 0443

After indicating that the recovery was successful and pressing escape, the system will display a screen informing you that the system will be rebooted (Figure 4-24). You will be prompted to press <ESC> to continue. Pressing <ESC> will cause the system to reboot.

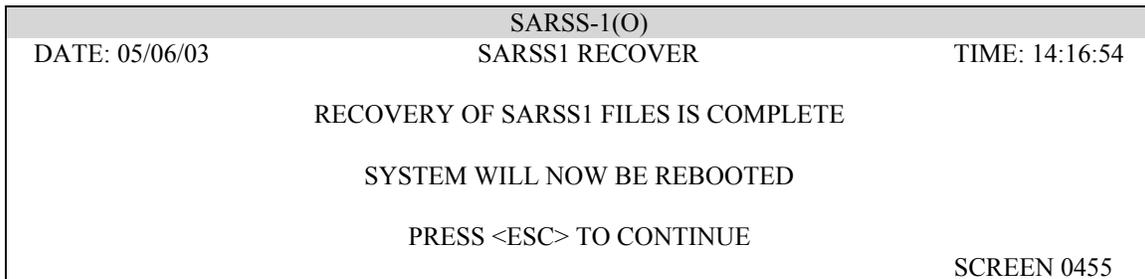


Figure 4-24 Recovery Complete

4.5 Close-out (CLO) Changes. The backup portion of Close-out has been changed to accommodate the replacement of the 4mm tape drive with a CD-RW drive. The valid media types for backup are now diskettes and CD-ROMS. The Media Selection screen (see Figure 4-25) has been changed to use 'C' for compact Disks (CDs) as opposed to 'T' for tape streamer. There are new screens that will display the progress of the backup to the CD-ROM. You may use CD-RW CD-ROMS that have previously used. If you are going to use CD-R CD-ROMS, they must be new blank CD-ROMS or you will receive an error and will be prompted to insert a blank CD-ROM.

4.5.1 Closeout Backup Process. When close-out gets to the backup portion the Close-out Media Selection screen will be displayed (Figure 4-25). You will be prompted to select the media type and to press <ESC>.

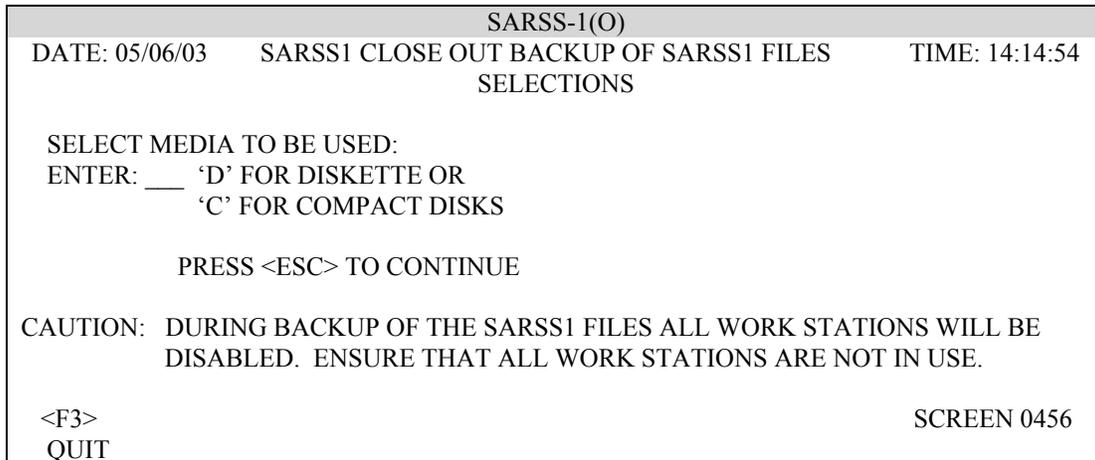


Figure 4-25 Media Selection Screen 0456

Enter 'C' for Compact Disks and press <ESC> to continue with the backup. You will be prompted to enter a blank CD-R/CD-RW into the PLEXTOR drive and press <ENTER> (Figure 4-26). After pressing <ENTER> the system will check the CD-ROM to see if it has previously been written on or if it is bad. If the CD was previously written on, the system will try to blank the CD then write to it. If the system cannot blank the CD, you will be prompted to insert a blank CD-R/CD-RW and press <ENTER> to continue or to type 'ABORT' to exit.

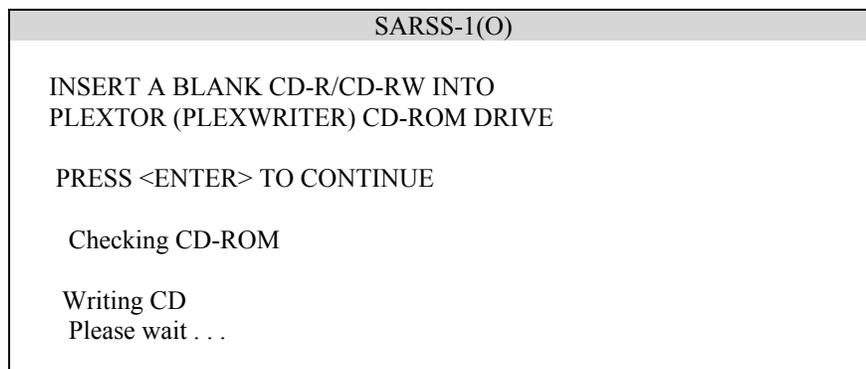


Figure 4-26 Insert CD-R/CD-RW

After the CD-ROM has been written and verified, the CD-ROM will be ejected and you will be prompted to label the CD-ROM and press <ENTER> to continue (Figure 4-27)

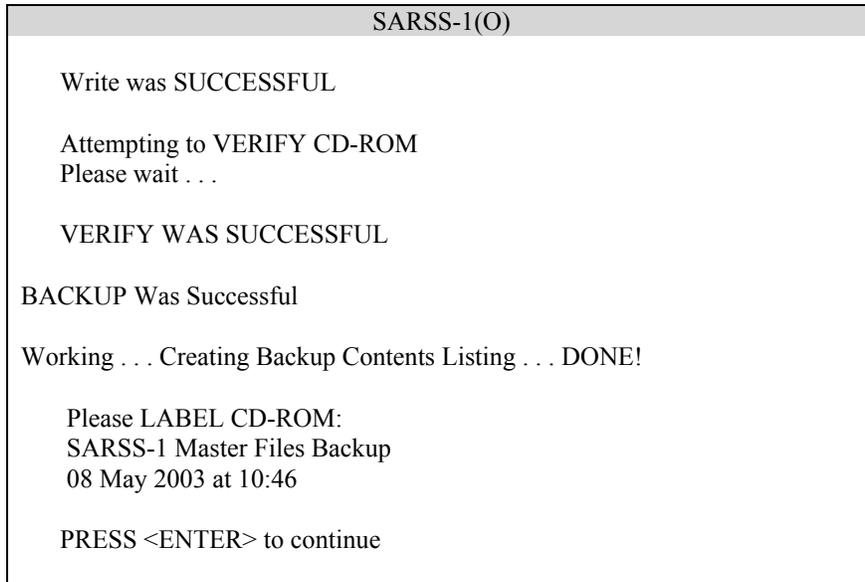


Figure 4-27 Backup Successful

After you press <ENTER> to continue you will be asked whether you wish to print the Backup Listing or not (Figure 4-28). Enter "Y" and press <ENTER> to print the Backup Listing, else enter "N" and press <ENTER> and printing of the Backup Listing will be bypassed. The default answer to the question is "Y", if you just press <ENTER>, the Backup Listing will be printed. If this the day that 'REORG' runs in closeout, "REORG" will run prior to being asked to print the backup listing.

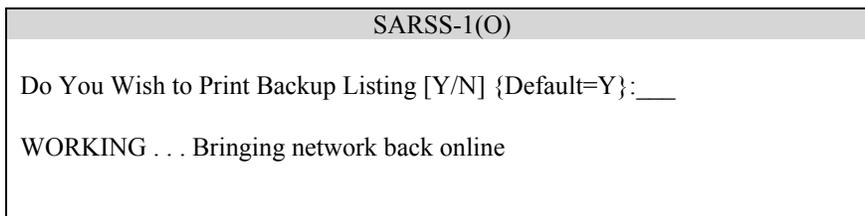


Figure 4-28 Print Backup Listing

After the Network is brought back online, you will be asked to verify whether the backup was successful or not (Figure 4-29). Enter an 'X' next to backup failed and press <ESC> to return to the SARSS menu, or enter an 'X' next to backup successful and press <ESC> to continue.

```

SARSS-1(O)

__ ENTER 'X' IF BACKUP FAILED
__ ENTER 'X' IF BACKUP WAS SUCCESSFUL

THEN PRESS <ESC> TO CONTINUE

```

Figure 4-29 Verify Backup Success

After you indicate that the backup was successful and press <ESC>, a screen will be displayed indicating that the backup is complete (Figure 4-30).

```

SARSS-1(O)

BACKUP OF SARSS1 FILES IS COMPLETE

Processing may now resume on all
Work stations.

PRESS <ESC> TO CONTINUE

```

Figure 4-30 Backup Complete

When you press <ESC> to continue, close-out will continue..

4.5.2 Backup Errors and Messages. During creation of the Backup CD, several messages indicating exceptions or errors may be displayed. When an error condition occurs, you will be given the option to retry the operation or to “ABORT” the operation. An example of a message indicating an exception is shown in (Figure 4-31). In the example given, the system has detected that a CD-RW was used which already contained data. The system was able to erase the data and reuse the CD-RW CD-ROM successfully.

```

SARSS-1(O)

INSERT A BLANK CD-R/CD-RW INTO
PLEXTOR (PLEXWRITER) CD-ROM DRIVE

Checking CD_ROM

Information exists on CD-ROM
Attempting to Blank CD-ROM
Please wait . . . .

Writing CD
Please wait . . .

```

Figure 4-31 Exception Message

If the system encounters an error while creating the Backup CD-ROM, you will be prompted to replace the CD-R/CD-RW CD-ROM and Press<ENTER> to continue or type “ABORT” to exit Backup. An example of an error in creating a CD is shown in (Figure 4-32). The error shown below could be caused by a bad CD-RW or by a CD-R that has been previously written to.

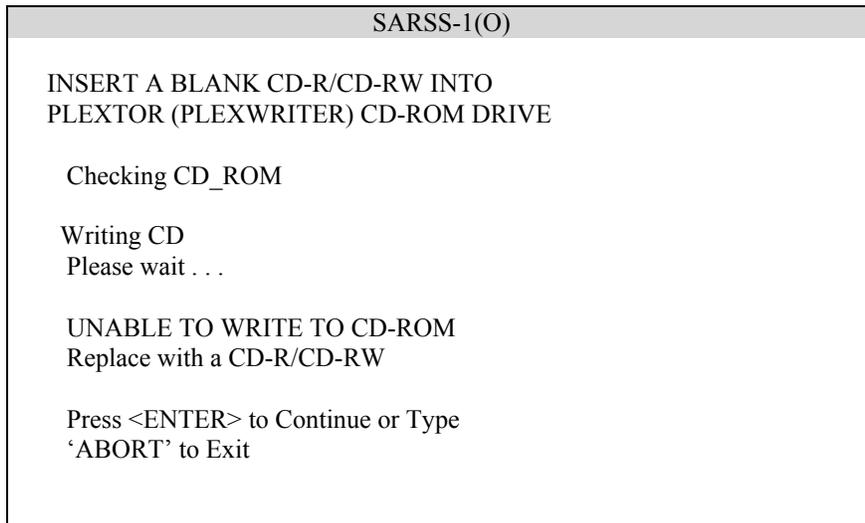


Figure 4-32 Unable to Write CD