Sun Fire™ V20z and Sun Fire V40z Servers

Guide for Pre-Installed Solaris™ 10 Operating System

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Preface

This document contains instructions for configuring the Solaris 10 operating system on a Sun Fire V20z and V40z server.

Related Documentation

Application	Title	Part Number
Installation	*Sun Fire V20z and Sun Fire V40z Servers—Installation Guide*	817-5246-xx
Service	*Sun Fire V20z and Sun Fire V40z Servers—User Guide*	817-5248-xx
Server Management	*Sun Fire V20z and Sun Fire V40z Servers—Server Management Guide*	817-5249-xx
Linux OS Installation	*Sun Fire V20z and Sun Fire V40z Servers—Linux OS Installation Guide*	817-5250-xx
Troubleshooting	*Sun Fire V20z and Sun Fire V40z Servers—Troubleshooting Techniques and Diagnostics Guide*	817-7184-xx
Late-breaking information	*Sun Fire V20z and Sun Fire V40z Servers—Release Notes*	819-1771-xx

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Sun Fire V20z and Sun Fire V40z Servers—Guide for Pre-Installed Solaris 10 OS, part number 819-1811-10

Configuring the Pre-Installed Solaris™ 10 Operating System

This guide walks you through the steps for configuring the Solaris™ 10 Operating System (OS) that has been pre-installed on your Sun Fire™ V20z or Sun Fire V40z server. These steps include:

1. Logging on to the Service Processor (SP) and setting up the Serial-over-LAN option for console output.
2. Configuring the Solaris 10 OS that is pre-installed on your server.

Worksheet for Installation

Use the following worksheet to gather the information that you need to install the Solaris 10 OS.

You do not need to gather all of the information that is requested on the worksheet. You only need to collect the information that applies to your system.

TABLE 1 Worksheet for Installation

Info Needed to Install	Description/Example	Your Answers:
Network	Is the system connected to a network?	Yes/No
Network interfaces	Which network interfaces are connected to the system?	
DHCP	Can the system use Dynamic Host Configuration Protocol (DHCP) to configure its network interfaces?	Yes/No

TABLE 1 Worksheet for Installation *(Continued)*

Info Needed to Install	Description/Example	Your Answers:
Host Name	If you are not using DHCP, supply a host name that you choose for the system.	
IP Address	If you are not using DHCP, supply the IP address for the system. Example: `129.200.9.1`	
Subnet	If you are not using DHCP, is the system part of a subnet? If yes, what is the netmask of the subnet? Example: `255.255.0.0`	Yes/No
IPv6	Do you want to enable IPv6 on this machine?	Yes/No
Default Route ***NOTE:*** *This option appears only if you choose to assign a static IP address to the server.*	Do you want to specify a default route IP address or let the Solaris Web Start installation program or Solaris `suninstall` program find one? The default route provides a bridge that forwards traffic between two physical networks. An IP address is a unique number that identifies each host on a network. You have the following choices: You can specify the IP address. An `/etc/defaultrouter` file is created with the specified IP address. When the system is rebooted, the specified IP address becomes the default route. You can let the software detect an IP address The Solaris `suninstall` program detects an IP address when the system is rebooted. You can choose None if you do not have a router or do not want the software to detect an IP address at this time. The software automatically tries to detect an IP address on reboot. Host IP address:	• Specify One • Detect One • None
Time Zone	How do you want to specify your default time zone?	• Geographic region • Offset from GM • Time zone file
Root Password	Choose a root password for the system.	

Before You Start

Note – Visit the Web site to ensure that you have the most recent version of the user documentation for the Sun Fire V20z and Sun Fire V40z servers:

http://www.sun.com/products-n-solutions/hardware/docs/Servers/Workgroup_Servers/Sun_Fire_V20z/index.html

- **You must first perform the initial setup of the Service Processor (SP).**

  To do so, refer to the two following sections in the *Sun Fire V20z and Sun Fire V40z Servers—Server Management Guide* (817-5249). (This guide is included on your Sun Fire V20z and Sun Fire V40z Servers—Documentation and Support Files CD.)

  In Chapter 1, under the heading "Initial Setup of the Service Processor"

  - "Part I: Assigning Network Settings to the SP"
  - "Part II: Securing the SP"

Service Processor

Note – For a complete list of commands and options available on the SP, refer to the appendices in the *Sun Fire V20z and Sun Fire V40z Servers—Server Management Guide* (817-5249).

The Sun Fire V20z and Sun Fire V40z servers include a dedicated chipset for complete OS independence and maximum availability of server-management functions. This chipset, called Service Processor (SP), is an embedded PowerPC chip providing the following:

- Environmental monitoring of the platform (such as temperatures, voltages, fan speeds and panel switches)
- Alert messages when problems occur
- Remote control of server operations (boot, shutdown and reboot of the server's operating system, turning the server's power on and off, stopping the server's boot process in BIOS, and upgrading the BIOS)

Configuring the Pre-Installed Solaris 10 Operating System

Note – Before you perform this procedure, you need to perform the initial setup of the Service Processor. If you have not done so, see "Before You Start" on page 3.

Gather information on your system and network as shown in the "Worksheet for Installation" on page 1, and use this information as you proceed through the configuration.

1. **Using an SSHv1 or SSHv2 client, connect to the IP address of the SP on your Sun Fire V20z or Sun Fire V40z server.**
2. **Log in to the SP with the *user account* that you previously created.**
3. **Enable the Serial-over-LAN feature on the SP by running the following command:**

   ```
   # platform set console -s sp -e -S 9600
   ```

Note – Ensure that the baud rate value passed to the `-S` argument matches the speed that was specified for the serial-redirection feature of the BIOS and the speed used for your boot loader and OS configuration.

The default baud rate in the BIOS settings is `9600`.

Note – By default, the pre-installed Solaris 10 OS image is configured to send output to the serial port.

---

4. **At the prompt, run the following command:**

   ```
   # platform console
   ```

5. **Power on the platform by pressing the platform-power button on the front panel.**

   You should see the POST messages on your screen as the OS boots up.

Note – If you do not see the messages on your screen, the Serial-over-LAN feature may not be configured correctly.

Verify first that you correctly entered the command and options shown in Step 3.

---

6. **Choose the terminal type when prompted.**

   If prompted, confirm your selection(s).

7. **Press Esc+2 to continue.**

8. **Follow the on-screen prompts.**

9. **Use the information in "Worksheet for Installation" on page 1 to help you fill out the system and network information as prompted.**

   The screens that display will vary, depending on the method that you chose for assigning network information to the server (DHCP or static IP address).

   After you have entered the system-configuration information, the server completes the boot process and displays the Solaris login prompt.

Resetting the Console Output to the Video Port

Caution – This step is intended for advanced users of Solaris only.

You can seriously disrupt the proper functioning of the server or render the server unbootable if you introduce a problem in the `bootenv.rc` file.

10. ***(optional)* While logged in to the SP, if you wish to re-direct the console output to the video port, run the `eeprom` command at the prompt with the following arguments:**

```
eeprom output-device=screen
eeprom input-device=keyboard
```

User Documentation

You can access the various collections of the Solaris 10 OS user documentation at

http://docs.sun.com/app/docs/prod/solaris.10#hic

Specifically, you can access the Solaris 10 OS Release and Installation Collection at

http://docs.sun.com/app/docs/coll/1236.1?q=Solaris+10

Removing the Pre-Installed Solaris 10 OS from the Server

If you wish to remove the pre-installed version of the Solaris 10 OS from your server, use the Sun Installation Assistant for Sun Fire V20z and Sun Fire V40z Servers CD-ROM. This CD-ROM is included in the accessory box for your server.

The Sun Installation Assistant CD-ROM helps you to install a supported Linux operating system (OS). As part of this installation, you can remove an existing OS from your hard disk drive.

For more information on the Sun Installation Assistant CD-ROM, refer to Chapter 2 in the *Sun Fire V20z and Sun Fire V40z Servers—Linux Operating System Installation Guide* (817-5250).

Downloading Solaris 10 OS

If you need to re-install Solaris 10 after removing it, you can download the Solaris 10 OS or order the Solaris 10 OS media kit.

For more information, go to the following URL:

http://www.sun.com/software/solaris/index.jsp