

SILVER Baselevel 4

Release Notes

This document contains a list of problems and workarounds specific to SILVER Baselevel 4 and is divided into the following sections:

- Installation Notes
- Remote Installation Services Notes
- Processor-Specific Notes
- Software Notes

1 Installation Notes

The following notes apply to the installation of SILVER Baselevel 4. For installation notes specific to the Remote Installation Services (RIS), see the section *Remote Installation Services Notes*; for installation notes specific to individual processors, see the section *Processor-Specific Notes*.

1.1 SILVER Baselevel 4 Overwrites Existing Disklabel

When you install SILVER Baselevel 4, the installation overwrites any existing OSF/1 disklabel with the default disklabel. As a result, customized system disk partitions will be lost. By default, the `root` file system on SILVER Baselevel 4 is set to 16MB.

2 Remote Installation Services Notes

The following notes apply to the Remote Installation Services (RIS).

2.1 How to Install SILVER Baselevel 4 Into an Ultrix RIS Server Area

The following instructions explain how to install SILVER Baselevel 4 into an Ultrix RIS Server area.

Note

If you do not have an established ULTRIX RIS Server, you must create one before continuing. For directions on how to create an ULTRIX RIS Server, see the *Guide to Server Setup* and the *Guide to the Remote Installation Services* or –if you have access to it– the *Guide to Sharing Software on a Local Area Network* that shipped with 4.2-A.

In addition to the ORDS distribution, this guide is available in the following formats on ravine:

- Bookreader

ravine:/doclib/books/v4.2-A/Condis/sharing.decw_book

To view this file, change your working directory to /doclib/books/v4.2-A/Condis, and enter the following command, replacing the italic *your_system_name* with the actual name of your system:

```
% dxbook -display your_system_name:0 ./sharing
```

- PostScript

ravine:/doclib/seattle/4.2a/sharing/sharing.ps

1. Log in as root or become superuser.
2. To install SILVER Baselevel 4 into your established Ultrix RIS server area, follow the directions in Chapter 3, "Server Setup and Maintenance," in the *Guide to the Remote Installation Services* or Chapter 4, "Creating a New RIS Area," in the *Guide to Sharing Software on a Local Area Network*.

Install the SILVER Baselevel 4 tapes in the following order:

- a. **DEC OSF/1 AGL4 Rev. 36 Operating System Software Volume 1**
- b. **DEC OSF/1 AGL4 Rev. 36 Operating System Software Volume 2**

Note

Do not place the tape marked **DEC OSF/1 AGL4 Rev. 36 Installation Software** into the tape drive at this time; if you attempt to install the tape marked **DEC OSF/1 AGL4 Rev. 36 Installation Software** now, the installation will fail.

3. After the SILVER Baselevel 4 product has been installed, the RIS utility prompts you for the architecture of your system, as follows:

```
Rewinding Tape...
Enter the identifier for the architecture of clients to be
served from the environment, either mips or vax:
```

Enter mips at the prompt.

4. The RIS utility then displays the absolute path of the SILVER Baselevel 4 environment with output like the following:

```
The new environment is in /var/adm/ris/ris.2.mips.
```

Record the absolute path of the SILVER Baselevel 4 environment; you will need it for the next step.

5. Change your working directory to the location of the new environment displayed by the RIS utility by entering a command like the following:

```
# cd /var/adm/ris/ris.2.mips
```

6. Change your working directory to product_1, as follows:

```
# cd product_1
```

7. You must now install the SILVER Baselevel 4 SAS into the product area by following these steps:
 - a. Insert the tape marked **DEC OSF/1 AGL4 Rev. 36 Installation Software** into the tape drive and ensure that it is online and write protected.
 - b. Ensure that the tape is properly rewound so that the ensuing dd command will not produce unpredictable

results, as follows:

```
# mt rew
```

- c. Move to the second record on the tape by entering the following command:

```
# mt fsf 2
```

- d. Extract capital ROOT from the tape by entering the following command, substituting the logical unit number of your tape drive for the italic *N* in the following example:

```
# dd if=/dev/rmt/Nh of=ROOT bs=20b
966+0 records in
966+0 records out
```

8. Restore the SAS kernel by entering the following commands:

a. # **restore -if ROOT**

b. **restore> add vmunix.sas**

c. **restore> extract**
setowner/node for '.'? [yn]

Answer n to the prompt.

d. **restore> exit**
File read error while skipping over inode 6
continue? [yn]

Answer n to the prompt.

9. Copy **vmunix.sas** to the preceding directory and give it the appropriate compressed suffix, by entering the following command:

```
# cp vmunix.sas ../vmunix.Z
```

10. Change your working directory to the preceding directory by entering the following command:

```
# cd ..
```

11. Ensure that you are in the correct RIS environment, by entering the following command:

```
# pwd
```

The **pwd** command should return the same absolute path that the RIS utility displayed in step 4.

12. Uncompress **vmunix.Z** by entering the following command:

```
# uncompress vmunix.Z
```

13. Check the listing of files in the SILVER Baselevel 4 RIS area to ensure that it contains the following files and directories by entering the following command:

```
# ls -F
ProdNames      product_1/      vmunix*
```

14. Change your working directory to the **product_1** directory and remove the compressed SAS kernel by entering the following commands:

```
# cd product_1
# rm vmunix.sas
```

15. Install the **netload** program into the SILVER Baselevel 4 environment by copying the program from **krisis**, replacing the italic *N* with the number of your SILVER Baselevel 4 RIS environment, as follows (use only one of the following commands):

```
# rcp krisis:/tmp/netload/netload /usr/var/adm/ris/risN.mips
# dcp krisis:/tmp/netload/netload /usr/var/adm/ris/risN.mips
```

2.2 Performing a Remote Installation of SILVER Baselevel 4

To perform a remote installation of SILVER Baselevel 4, follow these steps:

1. Boot your system from the RIS server using the network boot string appropriate to your processor.

If you do not know the correct boot string for your processor, you can either type the `printenv` command at the console prompt before you begin the installation, or you can consult the *ULTRIX Guide to System Shutdown and Startup* that shipped with ULTRIX Version 4.2-A.

In addition to the ORDS distribution, this guide is available in the following formats on ravine:

- Bookreader

```
ravine:/doclib/books/v4.2-A/Condis/shdwn.decw_book
```

To view this file, change your working directory to `/doclib/books/v4.2-A/Condis`, and enter the following command, replacing the italic *your_system_name* with the actual name of your system:

```
% dxbook -display your_system_name:0 ./shdwn
```

- PostScript

```
ravine:/doclib/seattle/4.2a/shutdown/shdwn.ps
```

2. Provide information necessary to allow the RIS server to downline load the initial boot image.

To allow the RIS server to downline load the initial boot image to your system, you must provide the following information to the installation script:

- The hostname and Internet Address of the RIS server
- The hostname and Internet Address of the RIS client
- The netmask of your network

If you are running a version of OSF software, you can find your network's netmask by entering the following command:

```
% grep netmask /etc/rc.config
```

The `grep` command will return output like the following:

```
IFCONFIG_0="130.180.7.10 netmask 255.255.252.0"
```

If you are running a version of ULTRIX software, you can find your network's netmask by entering the following command:

```
% grep netmask /etc/rc.local
```

The `grep` command will return output like the following:

```
/etc/ifconfig ni0 '/bin/hostname' broadcast 130.180.7.255 netmask 255.255.252.0
```

During the remote installation, after you choose the type of installation you want to perform, the installation script prompts you as follows:

```
Enter the hostname of the SERVER system:
Enter the internet address of the SERVER system:
Enter the hostname of the CLIENT system:
Enter the internet address of the CLIENT system:
Enter the NETMASK for your network:
```

When you have provided and confirmed the requested information, the installation continues.

Note

Unlike an ULTRIX remote installation, the SILVER Baselevel 4 remote installation does not automatically set up your network. As a result, when the installation completes, you must run `netsetup` to set up your network.

3 Processor-Specific Notes

The following notes are specific to DECstation 5000 series processors and the DECsystem 5500.

3.1 DECstation 5000

The following note applies to the DECstation 5000.

3.1.1 Performing a RIS Install to a DECstation 5000 Series Processor

If you are performing a RIS install of SILVER Baselevel 4 to a DECstation 5000 series processor, after you select the type of installation you want to perform, the installation script asks the following question:

Are you installing from the network? (y/n) []:

Answer y to the prompt.

3.2 DECsystem 5500

The following notes are specific to the DECsystem 5500.

3.2.1 DECsystem 5500 Can Only Install from SCSI TK Tape Drives

Because only DECsystem 5500 CPU and baseboard SCSI support is in SILVER Baselevel 4, you can only install SILVER Baselevel 4 on a DECsystem 5500 using a SCSI TK tape drive.

3.2.2 DECsystem 5500 Panics on Reboot While Running SAS or genvmunix

If you are running either the SAS or the generic kernel, genvmunix, on your DECsystem 5500, the system will crash when you reboot. The system crashes because when it reboots, it calls the `netnuke` routine which in turn calls the lance network driver. However, because there is no lance network driver on the DECsystem 5500, the driver data structures are not initialized and the machine crashes.

4 Software Notes

The following note applies to the SILVER Baselevel 4 operating system.

4.1 Incorrect Compiler Macro Redefinition Warning Message

When you redefine a macro in SILVER Baselevel 4, the MIPS 3.0 compiler generates the following error message, which is incorrect:

WARNING

```
cfe: Warning: file_name.c:line_number: Tried to redefine the macro macro_name, this macro keeps the old definition in std/std1 mode, otherwise the macro is redefined.
```

Note that the macro *macro_name* is always redefined; however, the old definition is no longer kept in `std/std1` as it was in TIN.