1.1 How to Restore MISER from a Tape Backup

NOTE This instructions use the DEC AlphaStation 500 unit as the restore device. However, the instructions can easily be generalized to other devices.

Before starting the tape restore process, ensure that the backup tape drive is connected to the appropriate SCSI connector at the rear of the AlphaStation 500 unit.

> **If a SCSI port has no SCSI peripheral connected to it, it must be terminated with a SCSI terminator (provided by DEC), otherwise the system will not boot properly.**

Boot from an OpenVMS CD-ROM Disk

The AlphaStation 500 should have the **OpenVMS**^{TM} operating system installed on the CPU model's hard drive. At power up, the system will boot to full system status unless instructed otherwise. To boot from the CD-ROM drive, perform the following steps.

1. Power up the AlphaStation 500 (without the OpenVMS disk in the CD-ROM drive). A number of messages will scroll down the screen. Press CNTRL-C immediately after you see the following:

    ```
    CPU 0 booting
    ```

    to interrupt the normal boot process and access the console prompt (>>>). Alternatively, you may depress the reset button (on the front panel) to interrupt the standard OpenVMS startup, and bring up the console prompt.

2. At the console prompt, type the following to confirm the CD-ROM disk label. It should be dka400, if not, use the indicated device name in the following procedure.

    ```
    >>> show device disk
    ```

    ```
    >>>show device mka
    ```

    Insert the OpenVMS disk into the CD-ROM drive, and tyep the following to boot the system off of the disk in the CD-ROM drive:

    ```
    >>> set auto_autoaction HALT
    ```

    ```
    >>>boot dka400
    ```

    The first command tells the system not to automatically boot to full system status at startup. The second starts the actual boot process from the CD-ROM drive. A number of messages will scroll down the screen. Eventually a menu of choices will appear.

    ```
    1) Install or upgrade OpenVMS Alpha Version...
    ```

    ```
    2) List layered product kits that this process can install
    ```

    ```
    3) Install or upgrade layered product(s)
    ```

```
4) Execute DCL commands and procedures
```

```
5) Shut down this system
```

```
Enter CHOICE or ? to repeat menu:  (1/2/3/4/5/?)
```

Enter 4 at the prompt, after a short series of warning messages, a system prompt of $$$ will appear.

Performing the Image Restore Operation

1. At the VMS prompt, type the following commands. First, check that both the source and destination disk drives display as recognized devices. You can not proceed until both are recognized by the operating system.

```
$$$ show device disk
```

```
$$$ show device mka
```

2. Insert the 4mm DAT backup tape into the tape drive unit. This drive will be referred to as the source drive or disk.

3. The target disk must be mounted before proceeding. In this example, dka100is the target disk.

```
$$$ mount dka100: /foreign
```

4. Perform a device display again to verify that the source disk is mounted correctly.

```
$$$ show device disk
```

5. To start the backup process, enter the following command:

```
$$$ backup /image mka500:TPA11NOV97.BCK dka100
```

Note that TOA11NOV97.BCK is the name of the saveset which is to be restored.

Ignore any messages that may appear which list files that could not be copied because they could not be four or because the files were marked "Not for backup." After a few minutes, the $$$ prompt will reappear.

6. Type the following to log out of the $$$ prompt:

```
$$$ log out
```

The five menu choices listed above will display. Chose number 5 (Shut down this system). After the system shuts down and reboots, the >>> prompt will reappear.

7. The boot sequence must be reset to automatic. Enter the following at the >>> prompt:

```
>>> set auto_action boot
```

8. Power down the Alpha machine. Disconnect the external tape drive unit if it is no longer needed.