

Making a System Disk to Tape Image Copy on an Alpha (Bootable System Backup)

Following is a short summary of the steps to save the contents of your existing system disk to tape. This operation should be done on a MISER node that contains the source code. Usually this is **HSQMVB** or **HSQVSB**, where **HSQ** is HSQ's job designation, e.g. **UNJMVB**. In this example the tape drive is device MKA500, and the existing system disk is DKA0. Our example system also has a CD-ROM at DKA400 (another common address would be DQB0).

Copying Disk to Tape

1. Log in as SYSTEM, get a DECterm and do the commands:

```
TOOLS
STOP_MISER
SHUTDOWN
```

Press the RETURN button ten times and wait until the computer presents the console prompt (>>>).

Type:

```
SHOW DEVICE
```

You should see all SCSI devices that are attached to the SCSI bus. The tape drive is MKA500. The system disk is DKA0.

2. Boot from the CD-ROM:

```
>>>boot dka400
```

3. The system will boot up (it will take several minutes), and you will be presented with a menu of options involved with installing VMS. Take the option to **Run DCL Commands and Procedures** (usually Option #7). After a few more seconds, you will get the prompt: \$\$\$

4. Make sure your tape is write-enabled (the little sliding door on the tape should be blocking the hole) and put the tape in the drive.
5. Initialize the tape with the command:

```
INIT MKA500: dd-mmm
```

where **dd** is two digits for the day and **mmm** is the three letters for the month, e.g. **09-FEB**.

6. Mount the disk. Issue the command:

```
MOUNT DKA0: / OVER=ID
```

7. Now, make an image backup.

```
BACKUP / IMAGE DKA0: MKA500:jjjByyyy.BCK/LABEL=dd-mmm
```

where **jjj** is three letters for the HSQ job name (e.g. UNJ), and **yyyy** is the year (e.g. 2001).

The **B** is there if you are performing this backup on the “B” MISER node. If your source code is kept on **jjjVS1**, you should be making this tape on **jjjVS1** and a **1** should appear in place of the **B** in the save set name above.

8. When the backup is finished, enter:

```
LOGOUT
```

9. The menu will be presented again. Take the option to SHUT DOWN THIS SYSTEM.
10. When the >>> prompt appears, enter:

```
BOOT
```

11. Once the computer reboots, reinsert the tape in the drive (the tape will have popped out). Log in as SYSTEM, get a DECterm, and issue the command:

```
BACKUP/LIST MKA500:**
```

After a minute or so, a listing of files copied to the tape should start to scroll by. Once you see the first few, you can do a Ctrl-Y to cancel the listing, which takes a long time to finish listing.

12. Enter the command:

```
DISMOUNT MKA500:
```

This will eject the tape.

13. Label the tape as follows:

```
Label: dd-mmm  
Set: jjjByyyy.BCK IMAGE BACKUP
```

14. Write-protect the tape by unblocking the write-protect aperture. The process is now complete.