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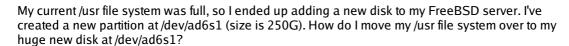
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FreeBSD Move /usr or /var File System To Another Hard Disk

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First, you need to partition and label the new disk with either sysinstall, or fdisk and disklabel. The procedure to add a new hard disk under FreeBSD is discussed here [2].

Once new disk added, create a temporary mount point to mount your /dev/ad6s1, enter:

```
# mkdir /newuser
```

Reboot and drop system to a signal user mode to migrate to a new disk:

```
# reboot
```

At boot prompt type:

```
# boot -s
```

Mount all file systems:

```
# mount -a -t ufs
```

Mount new /newuser file system:

```
# mount /dev/ad6s1 /newuser
```

Copy old /usr to /newuser:

```
# cd /newuser
# dump 0af - /usr | restore rf -
```

Sample outputs:

```
cd ∕usr0
df -H
ilesystем
                   Size
                                   Avail Capacity
                                                     Mounted on
                            Used
'de∨/da0s1a
                   442M
                            265M
                                     141M
                                             65%
                                                     /dev
                   1.0k
                            1.0k
                                       0B
                                             100%
devfs
dev/da0s1e
                                     370M
                   402M
                             27k
                                              9%
                                                     /tmp
                            5.1G
                                             87%
′dev∕da0s1f
                   6.4G
                                     752M
                                                     /usr
dev/da0s1d
                   761M
                                     578M
                            122M
                                              17%
                                                     /var
tmp/UMwareDnD
                   482M
                             27k
                                     370M
                                              9%
                                                     /var/run/vmblock
'de∨⁄da1s1d
                    42G
                            4.1k
                                      38G
                                              9\%
                                                     /usr0
       0af
                    : restore -rf
 dимр
              /usr
 DUMP: WARNING: should use -L when dumping live read-write filesystems!
 DUMP: Date of this level 0 dump: Sat Nov
                                                 22:22:40 2009
        Date of last level 0 dump: the epoch
Dumping /dev/da0s1f (/usr) to standard output
 DUMP:
 DUMP: Dumping
 DUMP: mapping (Pass I) [regular files]
 DUMP: mapping (Pass II) [directories]
 DUMP: estimated 5026890 tape blocks.
 DUMP: dumping (Pass III) [directories]
 DUMP: dumping (Pass IV) Iregular files]
         ./.smap: File exists
 DUMP: 27.08% done, finished in 0:13 at Sat Nov 7 22:41:15 2009
```

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Fig.01: FreeBSD Copy /usr To New Disk Using dump Command

Open /etc/fstab, enter:

```
# vi /etc/fstab
```

Modify /usr entry to point to a new location:

```
/dev/ad6s1 /usr ufs rw 2 2
```

Save and close the file. Reboot the server:

```
# reboot
```

Make sure everything is working fine after reboot:

```
# df -H
# tail -f /var/log/messages
```

Recommend readings:

• man pages dump, fstab, mount, restore

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URLs in this post:

- [1] Image: http://www.cyberciti.biz/faq/category/freebsd/
- [2] FreeBSD is discussed here: http://www.cyberciti.biz/faq/freebsd-adding-second-hard-disk-howto/
- [3] Image: http://www.cyberciti.biz/faq/freebsd-move-usr-filesystem-to-new-disk/freebsd_format-hard-disk/

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