AWS95 & A/UX: Disk/Disk or Directory/Directory Copy (9/95)

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TOPIC ---

I want to copy all the files in the root (/) partition from one disk to another because I'm running out of disk space. Is there a way to accomplish this without loosing access privileges and without having to recreate the /dev directory.

DISCUSSION ---

The following sequence of commands will create a duplicate of the directory structure of the source drive onto the target drive. The same basic command sequence can be used to copy a directory tree from one directory to another.

To Copy The Complete Contents Of A Partition
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While logged in as root

Step 1

Mount the partition you want to copy to (target) on /mnt:

mount /dev/dsk/c5d0s0 /mnt (Replace SCSI ID and partition as appropriate)

Step 2

Go to the / directory:

cd /

Step 3

Perform the copy preventing the copy from becoming recursive and without overwriting the lost+found directory in the target partition:

find . -print | grep -v /mnt | grep -v /lost+found | cpio -pdlmuv /mnt

Step 4

Create the mnt directory in /mnt:

```
mkdir /mnt/mnt
chmod 777 /mnt
```

Step 5

Unmount the target disk and perform an fsck:

```
umount /mnt
fsck /dev/dsk/c5d0s0
```

Now you have a copy of the source drive, complete with the /dev directory.

To Create A Duplicate Copy Of A Directory Structure
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Step 1

Go to the directory containing the source directory to be copied:

```
cd /a_directory
```

Step 2

Perform the copy of the source_dir to the directory where you want the source_dir structure to be move to:

```
find source_dir -print | cpio -pdlmuv /target_dir
```

This results in a directory called source_dir inside of target_dir.

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