

Put your name on the back in the upper right-hand corner and fold your quiz lengthwise - Thanks.

CS 409 Quiz 5

1. What does the following lines in an fstab file mean?

```
LABEL=vol4 /forms ext3 auto,rw,user,exe 1 3
```

Mount the partition labeled vol4 on /forms as an ext3 filesystem. This is to happen whenever mount -a is executed (auto), it is to be read-write access (rw), any user can mount the filesystem (user), and it is legal to execute executables on this filesystem (exe). It should be backed up by dump (1) and the order for fsck'ing is third (3).

```
/dev/hdc /spec vfat noauto,owner,ro,user 0 0
```

Mount the third IDE device on /spec as a vfat file system. It should be mounted only explicitly (noauto), the device owner is allowed to perform the mount and unmount, it is read-only (ro) and as before, any user can perform the mount. Have you considered what the users option means relative to the user option.

2. What does the following line in an exports file mean?

```
/forms/mq clumpy(ro) fx*.mydomain.edu (anonuid=500,anongid=200,rw)
```

The filesystem /form/mq is NFS exported to host clumpy for read-only access and to any host whose DNS name matches fx*.mydomain.edu for read-write access and with the uid and gid forced to be 500 and 200 respectively.

3. You acquire a new hard drive and want to put two partitions on it named movies and music. What steps do you go through to get the drive ready for use? Be specific

First you need to partition the drive, probably using `fdisk`, `sfdisk` or maybe `parted`. Then you need to save the partition table to the harddrive. Make an appropriate filesystem on each partition using `mkfs` or one of its derivatives, like `mk2efs`. Finally, label the partitions using `tune2fs`.

Assume the disk is `/dev/hdb`:

```
fdisk /dev/hdb
n to add a partition
n to add a partition
w to write the partition table to the disk
mke2fs /dev/hdb1
mke2fs /dev/hdb2
tune2fs -L movies /dev/hdb1
tune2fs -L music /dev/hdb2
```