

How `napoleon` mounts its file systems

This note gives some information about how the DG/UX operating system actually mounts its directories. It relates some of the operations described in Section 5.14 to commands performed and files created by the system administrator.

When `napoleon` is booted the `init` process, process number 1, executes the shell script in the file `/etc/rc`. One of the first commands in this script is:

```
mount -vat dg/ux
```

which, via the “a” option, tells the system to mount all the “dg/ux” file systems described in `/etc/fstab`, a file containing several lines, one for each file system to be mounted. One of these lines is:

```
/dev/dsk/c24d1s3 /unc1 dg/ux rw 0 1
```

which causes the file system `/dev/dsk/c24d1s3` to be mounted at the mount point directory `/unc1`. The file system `/dev/dsk/c24d1s3` was created by the system administrator with the `newfs` command. If you perform the command:

```
% ls -l /dev/dsk
```

you will see that the major and minor device numbers of `/dev/dsk/c24d1s3` are 2 and 11 respectively.

The “dg/ux” file systems are the on-li disks. Napoleon also mounts several remote disks that are accessed through software called “nfs,” network file system, developed by Sun Microsystems, Inc. The `/etc/rc` shell script calls the `/etc/nfs.rc` shell script to mount the remote file systems. The file `/etc/nfs.rc` contains the command:

```
/etc/mount -vat nfs
```

which causes the `nfs` file systems mentioned in `/etc/fstab` to be mounted. For example, `/etc/fstab` contains the line:

```
dopey:/usr2 /dousr2 nfs rw,rsiz=2048,wsiz=2048,soft 0 0
```

which causes the directory `/usr2` on machine `dopey`, a VAX 785 computer, to be mounted as directory `/dousr2` on `napoleon`.