TIPS & TECHNIQUES

Measuring Local Disk Space

System administrators often want to find how much space is available on just the local disks, without also checking imported file systems.

There's an infrequently used argument to the UNIX **df** command that helps with this: the **-t** flag with an argument specifying the type of the file system to check. Values of the argument to **-t** can be of any valid file system type, like those used in **/etc/fstab** or as arguments to or output from the UNIX **mount** command.

Figure 1 shows three examples of how to use this option.

Figure 1:   *Examples of running **df** with the **-t** flag*

```
sabre [~]-412% df -t 4.3
Filesystem               kbytes      used     avail capacity  Mounted on
/dev/sd0b                498935    405012     44029    90%     /NeXT-3.0
/dev/sd0a                500015    372758     77255    83%     /
/dev/fd0a                  1231       905       326    74%     /SneakerNet
sabre [~]-413% df -i -t 4.3
Filesystem                iused     ifree    %iused  Mounted on
/dev/sd0b                 23102     83394     22%    /NeXT-3.0
/dev/sd0a                 17075     89421     16%    /
```

```
/dev/fd0a                      16      368      4%    /SneakerNet
rhino [~]-414% df -t dos
Filesystem                 kbytes     used    avail capacity  Mounted on
/dev/rfd0b                   1424     1320     104     93%     /stuff
```

The first example shows how to examine the free space on the local 4.3BSD-type file systemsÐthese are the normal UNIX file systems on NEXTSTEP computers.   Note that this includes a locally mounted floppy disk, **/dev/fd0a**, mounted on **/SneakerNet**.

The second example shows the same file systems, but instead of checking the free space available, it examines the number of inodes (files) stored on the file systems. The third example shows a floppy disk with a DOS-format file system.

Thanks to Alan M. Marcum for this useful tip.

sendmail Security Patch

Two versions of **sendmail** are provided with NEXTSTEP Release 3.1 and 3.2: **sendmail** (version 5.67) and **sendmail.old** (version 5.52). Late last year, the Computer Emergency Response Team (CERT) identified a handful of security problems with NeXT's versions of **sendmail**. These problems are described in CERT Advisories CA-93: 16 and CA-93: 16A.   In response, NeXT has modified **sendmail** and **sendmail.old** to close these security holes. The new versions are now available as a patch on NeXTanswers. To get them, use e-mail or **ftp** to retrieve documents 1513 and 1514.

Mending the Error of Our Ways

We'd like to correct a few inaccuracies in the *NEXTSTEP In Focus* Fall issue.

In ªAdvanced Networking Tools,º we describe several programs that can help you manage a NEXTSTEP network. These programs are part of UNIX. None of the programs was written by NeXT.

Also, in ªUsing SCSI in a PC World,º a diagram depicts a fax modem card on a SCSI chain. However, we're not aware that any such device is really available.

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