

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 systems—these 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.