Appendix D
Using the Download Utilities

This appendix describes how to use the download_flash utility to update the firmware on the EISA HP adapter. To update the firmware, you must run this utility on every workstation that has an EISA HP adapter. To update software on a remote workstation, use the network_download utility.

The download_flash Utility

Note You must be logged in as root to use the download_flash utility.

The format of the **download_flash** utility command line is as follows:

```
/usr/local/cfddi/download_flash [-f fddinum] filename
```

fddinum is the fddi LAN interface number. The default is 1. You only need to use the -f option if you want to download firmware to any adapter other than LAN interface 1.

filename is the name of the file (in S-record format) containing the EISA firmware. A typical filename is eisa21.rom. This parameter is always required.

The following example downloads firmware in the eisa21.rom file of LAN interface 1:

```
download_flash eisa21.rom
```

The following example downloads firmware in the eisa21.rom file to LAN interface 2:

```
download_flash -f2 eisa21.rom
```

Network Downloading

Normally, download_flash is used to download firmware to an EISA HP adapter in the local machine. However, you can use the network_download script to download firmware to an EISA HP adapter on a remote machine. This script copies the download_flash utility and firmware file to the remote machine, and then remotely starts the download_flash utility.

The format of the network_download utility command line is as follows:

```
/usr/local/cfddi/network_download eisa21.rom remote_machine
```

You can also send download_flash parameters with the network_download script. The following example downloads firmware from the eisa21.rom file to the FDDI adapter in the remote machine simon:

```
network_download eisa21.rom simon
```