

## 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
```