

Appendix D

Using the Download Utilities

This appendix describes how you use the `download_flash` and `network_download` utilities to update the firmware on the workgroup EISA SGI adapter. You must run one of these utilities on every workstation that has a workgroup EISA SGI adapter.

The `download_flash` Utility

You must be logged in as root to use the download utilities. Use the following command to copy the utilities from the DDS tape to the workstation's hard disk:

```
tar -xvf /dev/tape
```

The format of the **`download_flash`** utility command line is:

```
download_flash [-f fddinum] filename
```

fddinum is the FDDI interface number. The default is 0. Interface 0 is the first EISA SGI adapter in the machine. Interface 1 is the second adapter, and so on. You only need to use the `-f` option if you want to download firmware to any adapter other than interface 0.

filename is the name of the file (in S-record format) containing the EISA SGI firmware. A typical filename is `eisa34.rom`. This parameter is always required. The number indicates the revision level of the Flash software.

The following example downloads firmware in the `eisa34.rom` file to FDDI interface 0:

```
download_flash eisa34.rom
```

The following example downloads firmware in the `eisa34.rom` file to FDDI interface 1:

```
download_flash -f 1 eisa34.rom
```

the network_download Utility

Normally, `download_flash` is used to download firmware to an EISA SGI adapter in the local machine. However, you can use the `network_download` script to download firmware to an EISA SGI 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:

```
network_download eisa34.rom remote_machine_name
```