Apple IIGS System Disk 5.0: Advanced Disk Utility and SCSI Mgr.

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With System Disk 5.0, the Advanced Disk Utility permits a larger number of partitions on a single SCSI drive. The maximum size of each partition is still limited to 32MB. The following table shows the number of possible partitions on a drive, given the drive size.

Drive Size	Max. No. of Partitions
20MB	8
40MB	8
80MB	8
160MB	8
256MB	8
320MB	10
512MB	16
640MB	20
800MB	25
1GB and up	32

SCSI Manager

The SCSI manager has been modified to provide a four-fold speed increase and additional SCSI support. The new driver is faster because it is loaded into memory and does not use the firmware on the card. When the driver was written, a number of new features were added:

- Full SCSI device support
        - 7 physical devices
        - 32 volumes per drive
        - full SCSI command support
- access to non-ProDOS partitions
- support for magneto-optical drives (with a driver)

The firmware must run at normal speed (1MHz) and not at fast speed. The new

drive talks directly to the hardware on the card and may not be compatible with any other existing SCSI interface cards. The SCSI manager was designed to work only with the Apple SCSI interface card.

The SCSI manager can support seven external boxes (a "box" being something that has a SCSI address). Each box can have up to eight devices, and block devices like hard drives can have up to 32 partitions.

The SCSI Manager works by having a device driver for each different type of SCSI device you want to hook up. This allows different types of devices to be added without modifying the external device or the SCSI card. You just need to add the driver to the system. This is how Apple supports SCSI hard disks and the AppleCD SC. The device drivers are located in the following folder:

   /disk/SYSTEM/DRIVERS.

Related Articles

- Apple IIGS System Disk 5.0: Overview
- Apple IIGS System Disk 5.0: ToolBox Changes
- Apple IIGS System Disk 5.0: Changes to BASIC.SYSTEM
- Apple IIGS System Disk 5.0: Disk II/Apple 5.25-inch Driver

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