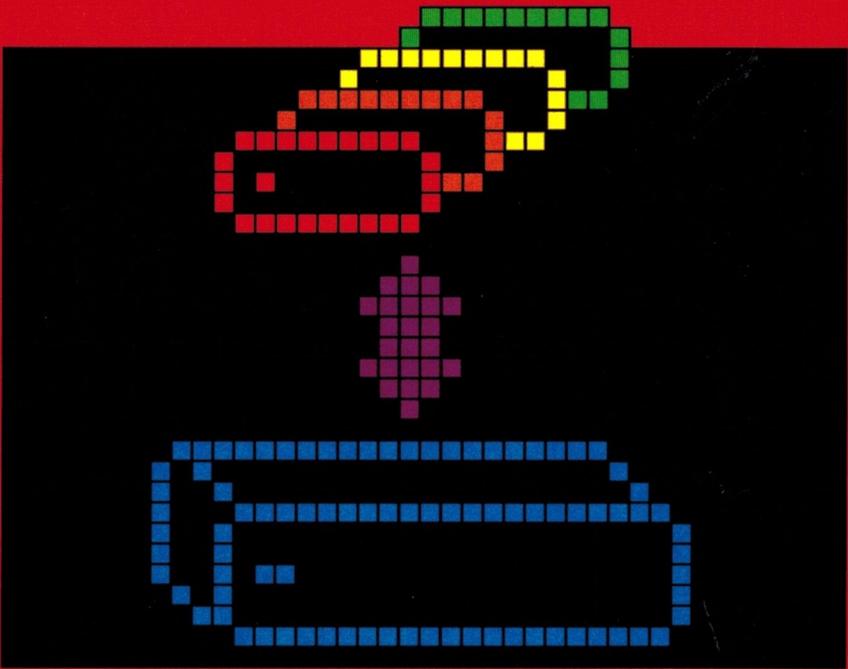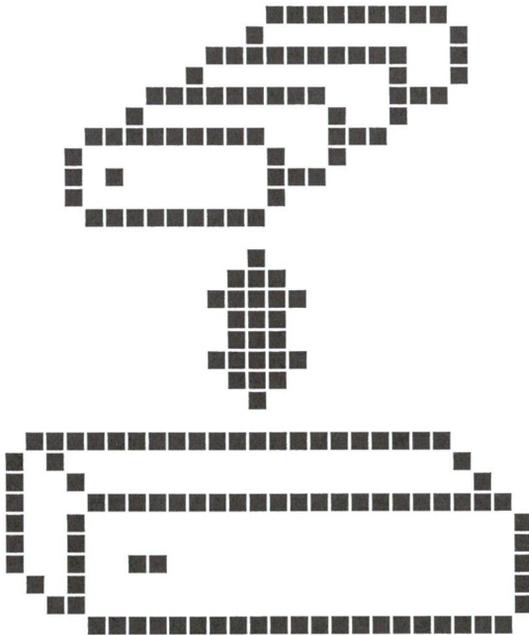# ALSoft

MultiDisk™

MultiDisk™

from...   ALSoft, Inc.

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CONTENTS

INTRODUCTION

MultiDisk is the ultimate Macintosh disk partitioning program. Now you can partition any disk into multiple disks. Each MultiDisk partition is just like the original disk only better!

Features
- Increase disk performance by grouping files into separate partitions.
- Makes your data safer! Files in one partition will not be affected by directory damage to another partition.
- Add or delete partitions at any time without having to reinitialize your hard disk.
- Exclusive! Partitions do not need to occupy contiguous (non-fragmented) free space.
- Exclusive! Partitions can be made larger without having to recreate them.
- Partitions are conveniently accessible through a desk accessory.
- Individually set partitions to automatically appear on the desktop at startup or only when requested.
- Password protection provides security to each partition.
- All information within a partition can be encrypted to provide an additional level of security.
- Network users of AppleShare™ and TOPS® can remotely mount partitions separately.
- Partition any HFS disk.
- Works on any Macintosh running System Software version 5.0 or greater.

About This Manual
Chapter 1, **GETTING STARTED**, will take you through the process of making a backup of MultiDisk and registering your purchase.

Chapter 2, **OVERVIEW**, provides background information on how MultiDisk operates.

Chapter 3, **INSTALLING MULTIDISK**, describes how to install and deinstall MultiDisk.

Chapter 4, **USING MULTIDISK**, provides complete instructions on the use of MultiDisk.

1

What If I Need Help?

Virtually all the questions asked by MultiDisk users can be answered by reading this manual. We believe that it is complete. If the answer to your question is not in the manual, please call the ALSoft customer support number (713) 353-1510. Have the serial number of your copy of MultiDisk ready to give to the customer support specialist. Support may be limited if you have not registered your purchase. See Chapter 1, **GETTING STARTED**, for information about registering.

1 | GETTING STARTED

This chapter will tell you how to create a backup copy of MultiDisk and register your purchase.

MultiDisk Copy

Make A Backup

MultiDisk is <u>not</u> copy protected, so the Finder can be used to create **one** backup of the MultiDisk master disk.

1) Set the write protect tab on the MultiDisk master disk to the "write protect" position (hole open).

2) From the Finder, erase a double-sided disk and name it "MultiDisk Copy."

3) Make a complete copy of the MultiDisk master disk by dragging the icon of the master disk onto the icon of the empty "MultiDisk Copy" disk. Let the Finder replace the entire contents of the empty disk.

Register Your Purchase

1) In the Finder, click once with the mouse pointer (arrow) on the MultiDisk™ file icon (shown to the left) to select it.

2) Choose the **Get Info** command from the **File** menu. The name, release number, and serial number are in the comment section of the Info window (shown in Figure 1-1).

```
┌─────────────── Info ───────────────┐
│                            Locked □ │
│   ⬗                                 │
│   ⬗  MultiDisk                      │
│   ⬗                                 │
│   Kind: Startup document            │
│   Size: 15,061 bytes used, 15K on disk │
│                                     │
│   Where: MultiDisk, internal drive  │
│                                     │
│                                     │
│   Created: Thu, Aug 11, 1988, 4:34 PM │
│   Modified: Thu, Aug 11, 1988, 4:34 PM │
│   Version: MultiDisk™ - Release 1.00 - Serial │
│            #H00001                   │
│  ┌────────────────────────────────┐ │
│  │ MultiDisk™ - Release 1.00 - Serial #H00001 │ │
│  │                                │ │
│  │ ©1988 ALSoft, Inc. - All rights reserved. │ │
│  └────────────────────────────────┘ │
└─────────────────────────────────────┘
```
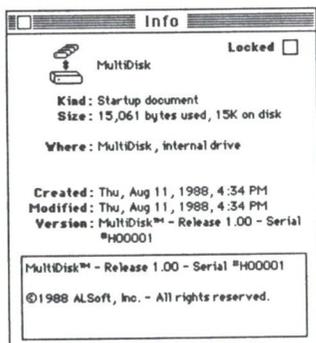
Figure 1-1
The Info window contains your serial number

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3) Completely fill out and sign the enclosed product registration card and mail it to ALSoft. **Be sure to include the serial number from the Info window.**

NOTE: The serial number is required for proper registration of your purchase, so that you may receive technical support, updates and future product special offers.

2 | OVERVIEW

This chapter provides background information on each facet of MultiDisk. Detailed information about using MultiDisk can be found in Chapter 4, **USING MULTIDISK.**

Disks are the magnetic media on which information is stored. There are both floppy disks, such as the 3.5-inch disk which MultiDisk comes on, and hard disks, like the Apple Hard Disk 20SC. A disk must be **initialized** before it can be used. When a disk is initialized, a part of it is set aside for a **directory**. The directory is used to store the number, names, locations, and sizes of files. Until you put files on a disk, the directory is empty.

An initialized disk is called a **volume**. Because a disk normally contains only one volume, the terms disk and volume are frequently used interchangeably. Any areas of a volume that are available to be allocated to files or the directory is called **free space**.

MultiDisk is a utility which allows you to allocate some or all of the free space of a volume to create additional volumes called **partitions**. The original volume is called the **root** or **parent** volume. Partitions are used exactly like their parent volumes. In fact, partitions are represented on the Finder desktop with the same icon as their parent volume.

The size of a partition is limited only by the amount of free space on its parent. If you make a partition too small, it can be resized later. Sizes are specified in **kilobytes** (K) or **megabytes** (MB). One kilobyte equals 1024 bytes while one megabyte equals 1024 kilobytes.

A partition must be **opened** before it can be used. Partitions can be opened manually with the MultiDisk DA or they can be configured to **open automatically** when their parent volumes are opened.

Partitions can be protected by a **password**. Without the correct password, you cannot open, modify, or delete a partition. Partitions can also be **encrypted**. Encryption

prevents advanced users with low-level disk tools from bypassing a password and retrieving files from a partition.

3 | INSTALLING MULTIDISK

This chapter will describe how to install and deinstall MultiDisk.

Installing MultiDisk

MultiDisk requires System version 4.2 or greater. System version 6.0 and Finder version 6.1 or greater are recommended. System 6.0 or its replacement is available from any authorized Apple dealer.

As stated in the copyright notice in this manual, page ii, each Macintosh that will or could run MultiDisk simultaneously will require a separately purchased copy of MultiDisk.

MultiDisk is composed of two parts: a desk accessory that is installed in the System file of your startup disk and a startup file that is copied to the System folder.

NOTE: If you have Font/DA Juggler™ *Plus* or MasterJuggler™ you need only follow their instructions on how to **Open** the DA file and you can skip this next section on using Font/DA Mover.

To use **Font/DA Mover** to install the MultiDisk desk accessory follow these steps:

1) **Select the Font/DA Mover icon and choose Open from the File menu, or just double-click the icon.**

   The Font/DA Mover dialog appears (shown in Figure 3-1) with the **Fonts** button selected at the top. Listed on the left are the fonts included in the current startup System file.

2) **Click the Desk Accessory button.**

   The list on the left will display the desk accessories in the System file.

3) **Click the Open button on the lower-right side of the dialog.**

Another dialog appears with a directory of folders and System and DA files.

4) **Insert the disk "MultiDisk Copy" or, if it's already inserted, click the Drive button until the disk comes into view.**

The list should contain the file "MultiDisk™ DA."

5) **Select the file "MultiDisk™ DA" and click the Open button.**

The directory dialog disappears and the list on the right of Font/DA Mover dialog is updated to show the MultiDisk DA.

6) **Select the "MultiDisk™" desk accessory and click Copy.**

The MultiDisk DA is copied to the System file.

○ Font
● Desk Accessory   Mover

Alarm Clock		<< Copy <<	MultiDisk™	
Calculator				
Chooser		Remove		
Control Panel				
Find File				
Key Caps		20183 bytes		
Note Pad		selected		

System
on Hard Disk
40473K free

Help

MultiDisk™ DA
on MultiDisk Copy
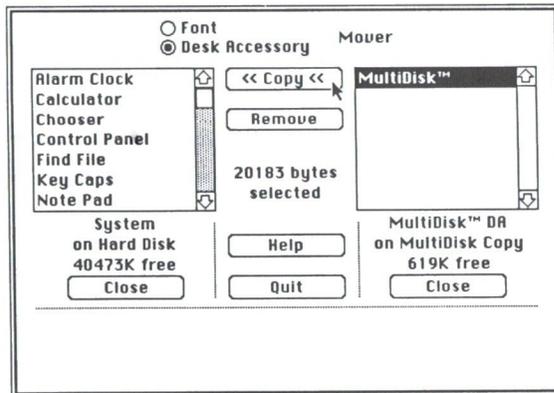619K free

Close   Quit   Close

Figure 3-1
Installing the MultiDisk™ DA using Font/DA Mover

7) **Click the Quit button.**

The Font/DA Mover quits and returns you to the Finder.

To install the MultiDisk startup file follow these steps:

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1) Put a copy of the "MultiDisk™" file icon into the System folder of the startup disk on which you want to install MultiDisk.

If not already in a disk drive, insert the "MultiDisk Copy" disk, made in Chapter 1, **GETTING STARTED**, into a disk drive. Select the icon "MultiDisk™" (shown to the left) and drag it to the System folder of the startup disk on which you want to install MultiDisk. Do *not* rename or lock the icon. The name must remain **MultiDisk™**.

Finder 6.0 or later will display the System folder with the icon shown on the left of Figure 3-2. Earlier versions of the Finder display the System folder with a normal folder icon as shown on the right of Figure 3-2.

Figure 3-2
Icon representing System folders. Newer Finders (6.0 or later) display the icon on the left.

2) Restart the Macintosh.

Choose **Restart** from the **Special** menu and restart the Macintosh from the disk on which MultiDisk was installed. Do not press the **shift** key while the Macintosh is starting. Pressing the **shift** key will tell MultiDisk to bypass loading (elsewhere you can learn how to assign a different key to bypass loading).

Look for one of the MultiDisk icons in Figure 3-3 to be displayed momentarily in the lower portion of the Macintosh screen.

Loaded   Not loaded   Error

Figure 3-3
MultiDisk icons displayed at startup

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If the "loaded" icon is displayed, then installation was successful. You can now proceed to Chapter 4, **USING MULTIDISK**.

If the "not loaded" icon is displayed, then repeat step 2 in this section, making sure *not* to press the **shift** key while the Macintosh is starting.

If the "error" icon is displayed, then verify that the System file on the startup disk is version 4.2 or greater. Repeat step 2 in this section.

If none of the icons are displayed at startup, then the installation was not successful and you must repeat steps 1 and 2 of this section. Either the MultiDisk™ icon was not dragged into the active System folder or the MultiDisk diskette icon was dragged into the System folder. The latter action creates a folder within the System folder which prevents MultiDisk from starting. The System folder is the folder that contains the System file and the Finder file. If you have more than one folder containing a System file and Finder file, then use one of these other folders when repeating steps 1 and 2 of this section. Apple strongly cautions against having more than one folder that contains a System file and Finder file.

Deinstalling MultiDisk

If you ever have a need to deinstall MultiDisk, follow these simple instructions:

1) **Drag the icon "MultiDisk™" out of the System folder of the startup disk on which you want to deinstall MultiDisk. Do *not* drag it to the Trash.**

   Open the System folder on the startup disk on which you want to deinstall MultiDisk. Select the icon "MultiDisk™" and drag it to the Desktop or some other folder. Do not drag it to the Trash.

2) **Restart the Macintosh and then, if desired, drag the icon "MultiDisk™" to the Trash.**

   Choose **Restart** from the **Special** menu and restart the Macintosh. If you want to remove MultiDisk from the

startup disk then, after the Macintosh has restarted, select the icon "MultiDisk™" and drag it to the Trash.

4 | USING MULTIDISK

This chapter describes how to use MultiDisk.

MultiDisk Desk Accessory

The MultiDisk DA is the command center for MultiDisk. All interaction with MultiDisk is through this DA.

Opening the MultiDisk DA

To open the MultiDisk DA simply choose MultiDisk™ from the Apple menu. The MultiDisk DA window, similar to the one in Figure 4-1, appears on the screen.
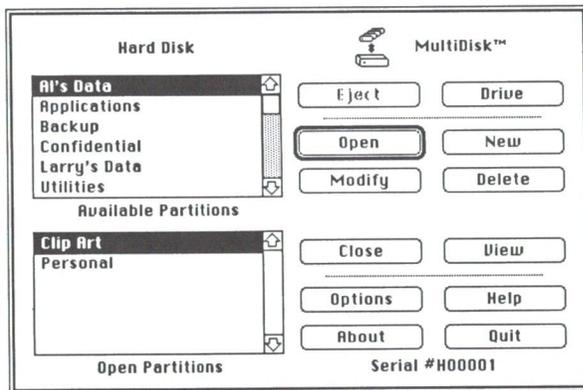

Figure 4-1
A typical MultiDisk DA window

Available Partitions List

This shows, in alphabetical order, a list of the partitions on the current volume that can be opened by MultiDisk. By default, the current volume is the current startup disk. The name of the current volume is displayed immediately above the list.

Open Partitions List

This list displays, in alphabetical order, the names of all the partitions that have been opened by MultiDisk. When a partition is opened, its name is removed from the **Available Partitions** list and is placed in the **Open Partitions** list.

Eject
If the current volume is a 3.5-inch disk, you can click this button to eject that disk. Another volume–if there is one–becomes the current volume.

Drive
Use this button to switch volumes. Each time you click **Drive** another volume becomes the current volume.

Create
Use this button to create partitions on the current HFS volume.

Open
This button opens the currently selected partition in the **Available Partitions** list. You can also open a partition by double-clicking its name in the list.

Modify
When this button is clicked, a dialog box appears which allows you to change the attributes of the currently selected partition in the **Available Partitions** list.

Delete
Use this button to delete a partition in the **Available Partitions** list.

Close
This button closes the currently selected partition in the **Open Partitions** list. You can also close a partition by double-clicking its name in the list.

View
This button opens a dialog box which displays the attributes of the currently selected partition in the **Open Partitions** list.

Options
Clicking the **Options** button opens a dialog box which allows you to alter the way that MultiDisk operates.
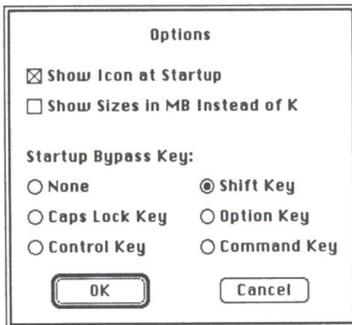
```
┌─────────────────────────────────────┐
│              Options                │
│  ⊠ Show Icon at Startup             │
│  ☐ Show Sizes in MB Instead of K    │
│                                     │
│  Startup Bypass Key:                │
│  ○ None            ⦿ Shift Key      │
│  ○ Caps Lock Key   ○ Option Key     │
│  ○ Control Key     ○ Command Key    │
│  ┌──────────┐      ┌──────────┐     │
│  │    OK    │      │  Cancel  │     │
│  └──────────┘      └──────────┘     │
└─────────────────────────────────────┘
```

Figure 4-2
The MultiDisk DA options dialog

The following options are available:

❏ **Show Icon at Startup** - This option determines whether the "loaded" icon will be displayed at startup.

❏ **Show Sizes in MB instead of K** - If the option is checked, numbers referring to the size of a partition will be displayed in megabytes instead of kilobytes.

❏ **Startup Bypass Key** - Choose one of the buttons listed under this label to select the key that will cause MultiDisk to bypass loading. Pressing this key while the Macintosh is starting will prevent MultiDisk from loading and will cause the "not loaded" icon to be displayed.

About
Clicking About opens a window which displays information about MultiDisk. The information includes the MultiDisk release number, ALSoft mailing address, and telephone numbers. A mouse click or key press will remove the window.

Help
Clicking **Help** displays a window containing abbreviated instructions for using the MultiDisk DA. A mouse click or key press will remove the window.

Closing the MultiDisk DA
To close the MultiDisk DA you need only click the **Quit** button.

Creating Partitions

MultiDisk will create partitions only on HFS volumes. To create a partition, follow these steps:

1) **Choose MultiDisk™ from the Apple menu.**

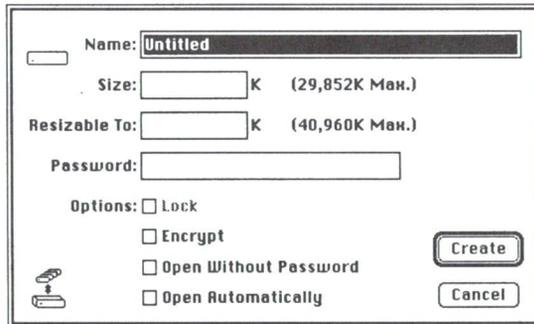   The MultiDisk DA window appears with the current startup disk as the current volume.

2) **Click the Drive button until the volume on which you wish to create the partition becomes the current volume.**

   The name of the current volume is displayed immediately above the **Available Partitions** list.

   Pressing the **tab** key is equivalent to clicking the **Drive** button.

3) **Click the Create button.**

   A dialog box like the one in Figure 4-3 appears.

```
┌─────────────────────────────────────────────────────┐
│      Name: │Untitled                              │  │
│  ┌──┐                                                │
│  └──┘  Size: │        │K    (29,852K Maн.)          │
│                                                      │
│ Resizable To: │        │K    (40,960K Maн.)          │
│                                                      │
│   Password: │                              │         │
│                                                      │
│    Options: ☐ Lock                                   │
│             ☐ Encrypt                    ┌────────┐  │
│       ____  ☐ Open Without Password      │ Create │  │
│      ═╬═    ☐ Open Automatically         └────────┘  │
│      ▔▔▔                                 ( Cancel )   │
└─────────────────────────────────────────────────────┘
```

Figure 4-3
Dialog for creating partitions

4) **Name the partition by typing up to 27 characters on the line labeled "Name."**

   This name is used to identify the partition in the MultiDisk DA and on the Finder desktop. To avoid confusion, be sure to give partitions different names.

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5) Select the line labeled "Size" and type the size of the partition.

The size is limited only by the amount of free space on the current volume. The current maximum size is displayed in the dialog to the right.

6) Select the line labeled "Resizable to" and type the maximum size that the partition may be resized to.

This is the maximum size that the partition can be resized to without erasing the partition. The maximum value that can be entered is the total usable space on the parent volume (displayed in the dialog to the right). This value must be in increments of 32 megabytes unless the maximum value is entered. The smaller this value is, the more efficient the Macintosh is at storing files in the partition.

7) If you wish to protect the partition with a password, select the line labeled "Password" and type a password of up to 15 characters.

Upper-case characters are distinguished from lower-case characters.

WARNING: IF YOU FORGET THE PASSWORD, THERE IS ABSOLUTELY NO WAY TO RECOVER IT. YOU WILL HAVE TO REINITIALIZE THE PARENT VOLUME TO RECOVER THE SPACE THE PARTITION OCCUPIES.

8) Click the checkboxes of the options you wish to activate.

You may choose any of the following options:

❑ **Encrypt** - Activating this option will encrypt the entire contents of the partition.

❑ **Open Without Password** - If this option is checked, the password will only be needed to modify or delete the partition. This is useful if you want to create a

locked partition which anyone can read from but no one can write to. Without the password, they would be unable to unlock the partition.

❑ **Open Automatically** - Check this option if you want the partition to be opened automatically when the partition's parent volume is opened. This option is disabled if a password is needed to open the partition.

9) **Click the Create button.**

The partition is created and added to the **Available Partitions** list.

Opening Partitions

You must open a partition to use it. To open a partition, follow these four steps:

1) **Choose MultiDisk™ from the Apple menu.**

The MultiDisk DA window appears with the current startup disk as the current volume.

2) **Click the Drive button until the parent volume of the partition you wish to open becomes the current volume.**

The name of the current volume is displayed immediately above the **Available Partitions** list. The list should contain the partition you wish to open.

Pressing the **tab** key is equivalent to clicking the **Drive** button.

3) **Select the name of the partition in the Available Partitions list and click the Open button or double-click the partition name.**

If the partition was not created with MultiDisk, a dialog box will appear giving you the opportunity to convert the partition into a MultiDisk partition.

WARNING: Once a partition is converted it will no longer be recognized by the utility that originally created the partition.

4) **If a password is needed to open the partition, a dialog box will appear with an edit box in which you must type the correct password and then click OK.**

In a password, upper-case characters are distinguished from lower-case characters. If necessary, put the **caps lock** key in the up position.

Once a partition is opened, it is removed from the **Available Partitions** list and added to the **Open Partitions** list and its icon is added to the Finder desktop.

Closing Partitions

When you are finished using a partition, you may close it by following these steps:

1) **Choose MultiDisk™ from the Apple menu.**

The MultiDisk DA window appears.

2) **Select the name of the partition you want to close in the Open Partitions list and click the Close button or double-click the partition name.**

If the partition is in use, it cannot be closed.

Once a partition is closed, its name is removed from the **Open Partitions** list and its icon is removed from the Finder desktop.

Another method to close a partition is to drag its icon to the Trash.

Modifying Partitions

If you want to erase, resize, rename, or change other attributes of a closed partition, follow these steps:

1) **Choose MultiDisk™ from the Apple menu.**

   The MultiDisk DA window appears with the current startup disk as the current volume.

2) **Click the Drive button until the parent volume of the partition you wish to modify becomes the current volume.**

   The name of the current volume is displayed immediately above the **Available Partitions** list. The list should contain the partition you wish to modify.

   Pressing the **tab** key is equivalent to clicking the **Drive** button.

3) **Select the name of the partition in the Available Partitions list and click the Modify button.**

   A dialog box like the one in Figure 4-4 appears.

```
┌──────────────────────────────────────────────┐
│        Name: │Graphics                    │   │
│  ┌───┐                                        │
│  └───┘                                        │
│        Size: │20,480    │ K   (28,563K Max.)  │
│                                               │
│ Resizable To: │32,768    │ K   (40,960K Max.) │
│                                               │
│    Password: │                           │    │
│                                               │
│     Options: ☐ Lock              ┌─────────┐  │
│              ☐ Encrypt           │  Erase  │  │
│              ☐ Open Without Password ┌─────────┐ │
│              ☒ Open Automatically │  Change │  │
│                                   └─────────┘  │
│                                   ┌─────────┐  │
│                                   │ Cancel  │  │
│                                   └─────────┘  │
└──────────────────────────────────────────────┘
```

Figure 4-4
Dialog for modifying partitions

4) **If you want to rename the partition, type in a new one or edit the old one on the line labeled "Name."**

   This name is used to identify the partition in the MultiDisk DA and on the Finder desktop.

5) **To resize a partition, select the line labeled "Size" and type in a new size for the partition.**

The size is limited only by the **Resizable to** attribute of the partition and amount of free space on the parent volume, which ever is smaller. The current maximum size is displayed in the dialog to the right. Partitions can only be resized to be larger than their current size. You cannot "shrink" a MultiDisk partition.

6) **To change the maximum size that the partition can be resized, select the line labeled "Resizable to" and type a new value.**

WARNING: If this value is changed, the partition will be erased automatically.

This is the maximum size that the partition can be resized to without erasing the partition. The maximum value that can be entered is the total usable space on the parent volume (displayed in the dialog to the right). This value must be in increments of 32 megabytes unless the maximum value is entered. The smaller this value is, the more efficient the Macintosh is at storing files in the partition.

7) **If you wish to protect the partition with a password or change an existing password, select the line labeled "Password" and type a password of up to 15 characters.**

Upper-case characters are distinguished from lower-case characters.

WARNING: IF YOU FORGET THE PASSWORD, THERE IS ABSOLUTELY NO WAY TO RECOVER IT. YOU WILL HAVE TO REINITIALIZE THE PARENT VOLUME TO RECOVER THE SPACE THE PARTITION OCCUPIES.

8) **Click the checkboxes of the options you wish to change.**

You may change any of the following options:

❑ **Lock** - Activating this option will prevent the partition from being written to.

❑ **Encrypt** - Activating this option will encrypt the partition.

❑ **Open Without Password** - If this option is checked, the password will only be needed to modify or delete the partition. This is useful if you want to create a locked partition which anyone can read from but no one can write to. Without the password, they would be unable to unlock the partition.

❑ **Open Automatically** - Check this option if you want the partition to be opened automatically when the partition's parent volume is opened. This option is disabled if a password is needed to open the partition.

9) **To record any changes made to the partition, click the Change button.**

If the **Encrypt** option was changed, there will be a delay–possibly a lengthy one–while the partition is either encrypted or decrypted.

10) **To erase a partition, click the Erase button.**

WARNING: All files on the partition will be deleted.

Viewing Partitions

An open partition's attributes cannot be modified; however, they can be viewed by following these steps:

1) **Choose MultiDisk™ from the Apple menu.**

The MultiDisk DA window appears.

2) **Select the name of the partition you want to view in the Open Partitions list and click the View button.**

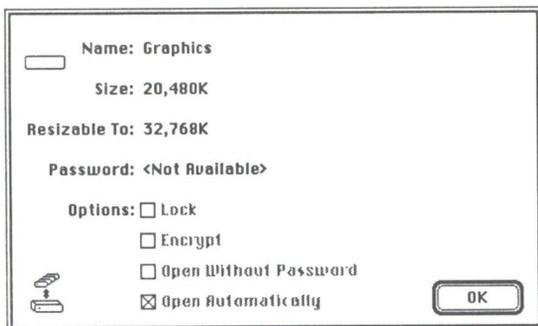A dialog box like the one in Figure 4-5 appears.

```
┌─────────────────────────────────────────────────┐
│ │                                               │ │
│ │        Name: Graphics                         │ │
│ ▢                                               │ │
│ │        Size: 20,480K                          │ │
│ │                                               │ │
│ │ Resizable To: 32,768K                         │ │
│ │                                               │ │
│ │    Password: <Not Available>                  │ │
│ │                                               │ │
│ │     Options: ☐ Lock                           │ │
│ │              ☐ Encrypt                         │ │
│ ◢            ☐ Open Without Password   ┌────────┐│ │
│ ▤            ☒ Open Automatically      │   OK   ││ │
│ │                                       └────────┘│ │
└─────────────────────────────────────────────────┘
```

Figure 4-5
Dialog for viewing open partitions

This dialog details the following attributes:

❑ **Name** - This is the name used to identify the partition in the MultiDisk DA and on the Finder desktop.

❑ **Size** - This is the current size of the partition.

❑ **Resizable to** - This is the maximum size that the partition can be resized to without erasing it.

❑ **Password** - A partition can be viewed without knowing its password. Therefore, the password is not displayed here.

❑ **Lock** - This option will be checked if the partition is locked. A locked partition cannot be written to.

❑ **Encrypt** - A check in this box indicates that the partition is encrypted.

❑ **Open Without Password** - If the option is checked, the partition's password is only needed to modify or delete the partition.

❑ **Open Automatically** - This option will be checked if the partition is opened automatically when the partition's parent volume is opened.

3) Click the OK button when you have finished viewing.

The dialog box disappears.

Deleting Partitions

You may delete a partition by following these steps:

1) **Choose MultiDisk™ from the Apple menu.**

The MultiDisk DA window appears.

2) **Click the Drive button until the parent volume of the partition you wish to delete becomes the current volume.**

The name of the current volume is displayed immediately above the **Available Partitions** list. The list should contain the partition you wish to delete.

Pressing the **tab** key is equivalent to clicking the **Drive** button.

3) **Select the name of the partition in the Available Partitions list and click the Delete button.**

WARNING: Deleting a partition deletes all of the files within the partition. If what you really want to do is close a partition, follow the steps for closing in this chapter.

4) **If a password is needed to delete the partition, a dialog box will appear with an edit box in which you must type the correct password and then click OK.**

In a password, upper-case characters are distinguished from lower-case characters. If necessary, put the **caps lock** key in the up position.

5) **In the next dialog box that appears, click Delete.**

This dialog box is provided as insurance. You must confirm that you want to proceed, understanding that anything on the partition will be deleted.

Once a partition is deleted, its name is removed from the **Available Partitions** list and the space it occupied on its parent volume becomes free space.