Using Your HP 9133H Disc Drive

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Manual Part No.
09133-90071
Note

This manual describes the use of the HP 9133/HP 9134 disc drive with Hewlett-Packard computers. If you connect your disc drive to an IBM or Compaq computer, please use the manual, Using Hewlett-Packard Disc Drives and Tape Drives (Hewlett-Packard part number 88500-90000), that comes with your interface card.
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Introduction

For your convenience, this supplement provides information to help you get started using your disc drive with your computer. This supplement helps you configure your disc drive, format discs, and make copies of your discs.

Don't let the terminology scare you. Configuration tells your computer the name and location of the disc drives you are using. Formatting (or initializing) prepares your disc to receive and store data. Copying means that you make a duplicate copy of a disc.

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Note

All discs, including fixed discs, must be formatted before they can be used. Formatting takes approximately two minutes per megabyte. Formatting is an excellent investment of time because it not only prepares your disc to receive and store data, but also thoroughly checks the disc for any damage it might have sustained during shipment.

Caution

Formatting erases any data already stored on the disc.

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You only need to read the portion of this supplement that refers specifically to your computer.
Using Your HP 9133H With an HP Touchscreen PC

Introduction

In this section, we describe four easy steps that allow you to begin using your HP 9133H disc drive with your HP Touchscreen PC:

Step 1: Configuring

Step 2: Disc Formatting

Step 3: Loading from the Fixed Disc

Step 4: Installing Applications

Note

In this section, we assume that the only disc drive connected to your computer is the HP 9133H.

Because the HP 9134H has no flexible disc, this product is supported only as an add-on drive. This means that you can connect an HP 9134H to your HP Touchscreen PC only if you already have a flexible disc drive connected to the HP Touchscreen PC. Please consult the HP Touchscreen PC manual, “More About Connecting Printers, Plotters and Disc Drives,” for information on installing an add-on drive.
Step 1: Configuring

You need to configure your system to let the HP Touchscreen PC know that you have connected your disc drive to the system. Use the following steps:

1. Make sure the address wheel on the back of your disc drive is set at 9, and the configuration switch is set at 0. If you need help, please refer to your disc drive user's manual.

2. Load P.A.M. (Personal Applications Manager) and the operating system, as follows:
   A. Turn on your disc drive and wait for completion of the selftest.
   B. Insert the System Master Disc into the flexible disc drive.
   C. Turn on your HP Touchscreen PC.

3. After approximately 30 seconds, a screen labeled, "Personal Applications Manager (P.A.M.)," appears. On this screen, touch:

   EASY CONFIG

This block should now be highlighted.
Note  What if I get a message on my screen that says, Load Op Sys failed, Op Sys device not found. Press RETURN to clear?

A. Press the Return key.
B. Make sure the disc drive is turned on and has passed the selftest. (The disc drive has passed the selftest when the fault light on the front panel goes out.)
C. Make sure you have connected the HP-IB cable from your computer to your disc drive.
D. Make sure you have plugged in your disc drive.
E. Press the Shift, CTRL and Reset keys at the same time. Your HP Touchscreen PC should now boot and display the P.A.M. screen.

4. Next, touch Start Applic.
5. A new screen appears with illustrations of computer products. The screen displays the message, Select device to be configured and press Next Step. Touch the DISC DRIVES illustration so that this illustration is highlighted.
6. Touch Next Step.
7. Another screen appears with illustrations of disc drives. Touch the illustration labeled, 9133D/H, so that this illustration is highlighted. You are telling your computer that the flexible disc drive of your HP 9133 is drive A and that the fixed disc drive of your HP 9133 is drive B.
8. Touch Main Screen.
9. Touch Exit CONFIG
Step 2: Disc Formatting

Before a disc can be used for the first time, it must be formatted. The following steps help you format your fixed disc. You may also use the following directions in the future whenever you wish to format either a flexible or fixed disc. Simply substitute the appropriate drive wherever you see drive B in the following directions.

To format your fixed disc, drive B, complete these steps:

1. Make sure your HP 150 System Master Disc is write protected. If you need help write protecting the disc, please see Part 1 of your disc drive manual.

2. Insert the HP 150 System Master Disc in the flexible disc drive and touch Reread Discs.

3. When P.A.M. appears on your screen, load the FORMAT utility by touching:

   FORMAT

4. Touch Start Applic

5. The screen now displays a list of disc drives. Since you wish to format the fixed disc, touch Drive B.

6. The screen displays, Type the disc label (11 characters or less) and press Return. Touch No Disc Label.

7. At the same time you format your fixed disc, you want to copy the operating system and P.A.M. to the fixed disc. To do this copying, touch the Copy System block. An asterisk (*) in the Copy System block indicates that the operating system will be copied to the fixed disc during the formatting process.

8. Touch Start Format. When you touch Start Format, the screen may display the message, This disc has files. Do you want to destroy them? Select Yes or No. When you see this message, STOP. Remember that formatting erases any data already stored on the disc.
If this is the first time you have used your disc drive:

a. Make sure the HP 150 System Master Disc in your flexible disc drive is write protected. This is a precautionary measure. You do NOT want to accidentally format this master disc.

b. You do want to format the fixed disc. Therefore, go ahead and select a Yes response. The formatting process begins.

If you have been using your disc drive and have stored information on the fixed disc:

a. Look at the disc drive that is highlighted on your screen so that you know for sure which disc you are formatting.

b. If you wish to destroy the data already contained on this disc, select a Yes response. The formatting process begins.

c. If you do NOT want to destroy the information already on the disc, select a No response. The formatting process stops, and you may then start over.

Note

After you select yes, indicating that you wish to begin formatting, your disc drive performs a 20-second selftest. If you decide that you do not want to format the fixed disc, TURN OFF THE DISC DRIVE during the 20-second selftest while the fault light is on. If you turn off the disc drive during this selftest, you will retain all data stored on your disc. If you turn off the disc drive after the completion of this selftest, data will be lost. Remember, formatting erases any data already stored on the disc.
9. If you are copying the operating system, the HP Touchscreen PC reads all operating system files from the flexible disc. Therefore, during formatting you may notice that the flexible disc access light is lit. When all the files have been read and are ready for transfer, a message appears on the screen, *All system files have been read. Insert disc(s) to be formatted.* Since you are formatting the fixed disc, simply press Return.

10. The *Formatting* screen appears, and the disc that you selected for formatting is highlighted.

---

**Note**

Formatting takes approximately 2 minutes per megabyte. Formatting is an excellent investment of time because it not only prepares your disc to receive and store data, but also thoroughly checks the disc for any damage it may have sustained during shipment.

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11. After your disc is formatted, the screen displays the message, *Press Start Over or Exit Format.* Touch Exit Format to return to P.A.M.
Step 3: 
Loading from the Fixed Disc

Now that you have copied the operating system to your fixed disc, you need to make some changes so that the operating system loads or "boots" from the fixed disc rather than the flexible disc drive. Basically, the changes you make tell your computer that you now want the fixed disc to be drive A and you want the flexible disc to be drive B.

1. Turn off your disc drive and your computer.
2. Reset the address wheel on the back of the disc drive to an address of 0.
3. Turn on the disc drive and wait for the completion of the selftest.
4. Turn on your computer. P.A.M. and the operating system should now load automatically from the fixed disc. If P.A.M. appears on your screen, you have loaded P.A.M. and the operating system from your fixed disc.

---

Note

What if my operating system does not load from the fixed disc, so that the P.A.M. menu is NOT on my screen now?

1. First, try resetting your computer. Press the Shift, CTRL and Reset keys at the same time.
2. If P.A.M. still does not appear on your screen, repeat the above directions for Configuration, Disc Formatting, and Loading from the Fixed Disc. When you repeat the section, Loading from the Fixed Disc, make sure that you turn off the disc drive and computer before changing the address wheel.
3. If P.A.M. still does not appear on your screen, contact your dealer or Hewlett-Packard sales office.
Step 4: Installing Applications

An application is a computer program that performs a special function. Your System Master Disc contains several application programs, such as FORMAT and DEVICE CONFIG. In order to make these applications more convenient to use, install them onto your fixed disc. Use the following steps to install your application programs:

1. Make sure the address wheel on the back of your disc drive is set at 0, and that you have formatted your fixed disc. Also, make sure P.A.M. is on your screen.

2. The install program is on your System Master Disc. Therefore, insert the System Master Disc in the flexible disc drive.

3. Touch Reread Discs.

4. Touch INSTALL to highlight this block.

5. Touch Start Applic

6. Touch Install Applic

7. The screen prompt states, Select the correct discs below. Press show applics. You are going to install applications from flexible discs (drive B) to the fixed disc (drive A). Therefore, in the From column, touch B. In the To column, touch A.

8. You want to copy all application programs from the System Master Disc that is in your flexible disc drive. Therefore, touch Show Applic to list the application programs. Touch the names of all application programs so that all names are highlighted.


10. When the installation is complete, touch Exit Select.

12. Touch Main Menu.

13. Touch Exit Install to return to P.A.M.
Using Your HP 9133H
With Series 200 BASIC 3.0

Introduction

The following section describes the most commonly used BASIC commands as they apply to the HP 9133. If you connect an HP 9134 to your Series 200 computer, the same commands may be used. However, please note that you cannot boot from your HP 9134 until you have installed the BASIC operating system on the fixed disc.

Before You Begin

1: Set the address

Make sure the address wheel on your HP 9133 is set at an address between 0 and 7.

2: Set the configuration switch

The configuration switch allows you to partition your fixed disc into multiple volumes. Remember that each volume on your fixed disc must be initialized separately.

Caution

If you change the configuration switch after you have initialized the fixed disc, data on the fixed disc may be inaccessible. Change the configuration switch just before you initialize the fixed disc.

To set the configuration switch, complete the following steps:

1. Turn off your disc drive.
2. Insert a small screwdriver into the slot on the configuration switch.
3. Rotate the switch to the desired setting.
4. Turn on your disc drive.

The configuration switch has possible settings from 0 through 9. The following table describes the meaning of each setting:

<table>
<thead>
<tr>
<th>Setting</th>
<th>Number of Volumes</th>
<th>Size of Volumes 256 bytes/sector</th>
<th>Size of Volumes 1024 bytes/sector (Option 001)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
<tr>
<td>1</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
<tr>
<td>2</td>
<td>Two</td>
<td>9.92 M byte/volume</td>
<td>11.09 M byte/volume</td>
</tr>
<tr>
<td>3</td>
<td>Three</td>
<td>6.61 M byte/volume</td>
<td>7.37 M byte/volume</td>
</tr>
<tr>
<td>4</td>
<td>Four</td>
<td>4.94 M byte/volume</td>
<td>5.49 M byte/volume</td>
</tr>
<tr>
<td>5</td>
<td>Five</td>
<td>3.93 M byte/volume</td>
<td>4.34 M byte/volume</td>
</tr>
<tr>
<td>6</td>
<td>Six</td>
<td>3.27 M byte/volume</td>
<td>3.61 M byte/volume</td>
</tr>
<tr>
<td>7</td>
<td>Seven</td>
<td>2.81 M byte/volume</td>
<td>3.09 M byte/volume</td>
</tr>
<tr>
<td>8</td>
<td>Eight</td>
<td>2.45 M byte/volume</td>
<td>2.69 M byte/volume</td>
</tr>
<tr>
<td>9</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
</tbody>
</table>

Mass Storage Unit Specifier

Before you begin using BASIC 3.0 commands, you need to understand the Mass Storage Unit Specifier (MSUS). MSUS is what the computer uses to identify your disc drive. For example, the MSUS of an HP 9133 might appear as follows:

```
".-700,0,0"
```

```
VOLUME ID
UNIT NUMBER
DEVICE SELECTOR
```
The device selector refers to the address of your disc drive. The first number is 7 as long as you are using the internal HP-IB connection. The last two numbers are the address of your disc drive. These numbers may vary from 00 to 07, depending on the address setting. In this example, the disc drive address is 00.

The unit number refers to the drive you wish to access. In this example, the unit number of 0 means that you wish the computer to access the fixed disc drive of the HP 9133. If you wish the computer to access the flexible disc drive of the HP 9133, the unit number is 1.

The volume ID refers to the volume you wish to access. If your configuration switch is set for multiple volumes, you must specify a volume ID. However, if your configuration switch is set for one volume, you do NOT have to specify a volume ID. Also, you do not have to specify a volume ID when referring to the flexible disc drive.

Boot your system using the following steps:

1. Be sure the address wheel on your HP 9133 is set at an address between 0 and 7.
2. Turn on your disc drive, but make sure your computer is not turned on.
3. Insert the BASIC 3.0 System disc in the flexible disc drive.
4. Turn on your computer. Your computer automatically loads the BASIC 3.0 operating system. When the prompt BASIC Ready 3.0 appears on the screen, the operating system is loaded. Loading of the operating system takes approximately 50 seconds.
5. Remove the BASIC 3.0 System Disc and insert the BASIC 3.0 Driver disc into the flexible disc drive.
6. Type LOAD BIN “HPIB” and press Enter.
7. When the prompt `BASIC HPIB 3.0` appears, type `LOAD BIN "CS80"` and press Enter.
   Loading time is approximately 20 seconds.

8. The system is now ready to use with BASIC 3.0.

In the following pages, we describe the initialize, catalog, MSI and copy commands. All commands have the same format: type the command followed by the MSUS of the disc drive to which the command should be directed.

**Initializing Flexible Discs**

If you are initializing a flexible disc, you have several formatting options from which to choose. Table 3-1 illustrates the choices.

<table>
<thead>
<tr>
<th>Format Option</th>
<th>Bytes/Sector</th>
<th>Double-Sided or Single-Sided Formatting</th>
<th>K bytes of Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>256</td>
<td>Double-Sided</td>
<td>630</td>
</tr>
<tr>
<td>1 *</td>
<td>256</td>
<td>Double-Sided</td>
<td>630</td>
</tr>
<tr>
<td>2 **</td>
<td>1,024</td>
<td>Not Supported</td>
<td>788</td>
</tr>
<tr>
<td>4</td>
<td>256</td>
<td>Single-Sided</td>
<td>270</td>
</tr>
</tbody>
</table>

* Default option
** BASIC 3.0 does not support this format. Do NOT select a format option of 2.

**Table 3-1: Flexible Disc Formatting Options**

You must remember three important things when selecting a format option.

1. You can format double-sided ONLY on gray, double-sided flexible discs in a double-sided disc drive (e.g., HP 9133D or HP 9133H).

2. A flexible disc formatted double-sided can only be used in a double-sided disc drive (e.g., HP 9133D or HP 9133H).
3. A flexible disc formatted single-sided can be used in either a single-sided or a double-sided disc drive.

When you format a flexible disc, the default interleave factor is 2. For most flexible disc applications, we suggest an interleave factor of 2.

Initialize the flexible disc using a command similar to the following command:

```
INITIALIZE "\.700,1",2.0
```

* Optional

** Optional. However, if you wish to specify a format option, you must also specify an interleave factor. (If you do not specify an interleave factor, a default interleave of 2 is used.)

When you initialize the fixed disc, you have a choice to make regarding interleave factors. Interleave factor affects performance. Therefore, the minimum interleave factor you should select is 3. Table 3-2 details recommended interleave factors:

<table>
<thead>
<tr>
<th>Series 200</th>
<th>Recommended interleave</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Disc Interface 98625A and DMA 98620B</td>
<td>3</td>
</tr>
<tr>
<td>With DMA 98620B only</td>
<td>4</td>
</tr>
<tr>
<td>With no DMA</td>
<td>7</td>
</tr>
</tbody>
</table>

Table 3-2: Recommended Interleave Factors for the Fixed Disc

Series 200 BASIC 3.0
Initialize the fixed disc using a command similar to the following command:

```
INITIALIZE ";,700,0,0",3
```

* The selection of an *interleave factor* is optional. If you do not specify an interleave factor, a default interleave of 7 is used.

** If the volume configuration switch is set for one volume, you do not have to specify a volume ID. However, if your configuration switch is set for multiple volumes, you must specify a volume ID, because each volume of your fixed disc must be initialized separately. Volumes on your fixed disc are numbered consecutively from 0. For example, if your fixed disc is partitioned into four volumes, the volume ID’s are 0, 1, 2 and 3.

The above example tells the computer that you wish to initialize volume 0 of the fixed disc with an address setting of 0 and an interleave factor of 3.

---

**Note**

Initialization takes approximately 2 minutes per megabyte. Initializing is an excellent investment of time because it not only prepares your disc to receive and store data, but also thoroughly checks the disc for any damage it might have sustained during shipment.
The Mass Storage Is (MSI) command is used to direct all your disc drive commands to your most frequently used disc. If you use the MSI command, you do NOT have to specify an MSUS with every disc drive command. (The exception to this rule is the initialize command, which always requires the specification of an MSUS.)

Boot your system according to the directions above. Make sure your disc drive is turned on. The MSI command appears similar to the following example:

```
MSI ";,700,0" and press ENTER
```

Once you have typed this MSI command, subsequent disc drive commands will be directed automatically to the fixed disc drive of the HP 9133.

The CAT command displays the directory of all files on the disc. For example, if you wish to display the directory for the fixed disc, type:

```
CAT";.,700,0" and press ENTER.
```

If you used the MSI command to specify the fixed disc drive as the default drive, you can simply type:

```
CAT
```

To copy files from flexible discs onto the fixed disc, place the disc that you wish to copy in the flexible drive of your HP 9133H. Copy the individual files from the disc, using a command similar to the following:

```
COPY "Filename:;700,1" to "Filename:;700,0"
```

where "Filename" is the name of the file you wish to copy.
Most Used Mass Storage Commands

The following commands are the commands you will use most often when communicating with the disc drive. These commands operate as described in your Series 200 documentation.

- **CAT** Reads the directory of files on the disc.
- **COPY** Copies a volume or file.
- **CREATE** Creates a data file.
- **ENTER** Reads data from a data file
- **GET** Reads an ASCII file into memory as a program.
- **INITIALIZE** Checks the disc for defects, establishes a volume label on the disc, and creates a directory.
- **LOAD** Reads programs from the disc.
- **OUTPUT** Writes data to a data file.
- **PURGE** Deletes files from the directory.
- **RESTORE** Rewrites a program to the disc, and then purges the old revision from the directory.
- **SAVE** Creates an ASCII file and copies BASIC program files from memory into the file.
- **STORE** Writes programs to the disc.
Using Your HP 9133H With Series 200 Pascal 3.0

Introduction

The following section describes how to initialize discs and make backup copies of discs using Pascal 3.0 Workstation System.

Before You Begin

1: Set the address

Make sure the address wheel on your HP 9133H is set at an address between 0 and 7.

2: Set the configuration switch

The configuration switch allows you to partition your fixed disc into multiple volumes. Remember that each volume on your fixed disc must be initialized separately.

Caution

If you change the configuration switch after you have initialized the fixed disc, data on the fixed disc may be inaccessible. Change the configuration switch just before you initialize the fixed disc.
The configuration switch has possible settings from 0 through 9. The following table describes the meaning of each setting.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Number of Volumes</th>
<th>Size of Volumes 256 bytes/sector</th>
<th>Size of Volumes 1024 bytes/sector (Option 001)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
<tr>
<td>1</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
<tr>
<td>2</td>
<td>Two</td>
<td>9.92 M byte/volume</td>
<td>11.09 M byte/volume</td>
</tr>
<tr>
<td>3</td>
<td>Three</td>
<td>6.61 M byte/volume</td>
<td>7.37 M byte/volume</td>
</tr>
<tr>
<td>4</td>
<td>Four</td>
<td>4.94 M byte/volume</td>
<td>5.49 M byte/volume</td>
</tr>
<tr>
<td>5</td>
<td>Five</td>
<td>3.93 M byte/volume</td>
<td>4.34 M byte/volume</td>
</tr>
<tr>
<td>6</td>
<td>Six</td>
<td>3.27 M byte/volume</td>
<td>3.61 M byte/volume</td>
</tr>
<tr>
<td>7</td>
<td>Seven</td>
<td>2.81 M byte/volume</td>
<td>3.09 M byte/volume</td>
</tr>
<tr>
<td>8</td>
<td>Eight</td>
<td>2.45 M byte/volume</td>
<td>2.69 M byte/volume</td>
</tr>
<tr>
<td>9</td>
<td>One</td>
<td>19.92 M byte/volume</td>
<td>22.33 M byte/volume</td>
</tr>
</tbody>
</table>

To set the configuration switch, complete the following steps:

1. Turn off your disc drive.
2. Insert a small screwdriver into the slot on the configuration switch.
3. Rotate the switch to the desired setting.
4. Turn on your disc drive.

**Disc Initialization**

Use the following steps to initialize a disc:

1. Turn the computer system on.
2. Insert the Boot: disc in the flexible disc drive.
3. When the screen says, *Please put SYSVOL in unit # 3 and press the X key*, remove the Boot: disc. Insert the Sysvol: disc in the flexible disc drive, and press the X key.
4. When the screen displays, *New system date?*, type the
date and press **Enter**.
5. When the screen displays, *New system clock time?*, type
the time and press **Enter**.
6. Next, the following command line appears on the
screen:

   **Command: Compiler Editor Filer Initialize Librarian Run**
   **eXecute Version?**

   When the command line appears, remove the Sysvol:
disc and insert the **Access: disc**.

7. Type **X** for **eXecute**.
8. When the screen displays, *Execute what file?*, type:

   **ACCESS: MEDIAINIT**

   Press **Enter**.

9. The screen then displays, *Volume ID?*. If you wish to
initialize the fixed disc, type **#11**. If you wish to
initialize a flexible disc, type **#3**.

10. Remove the **Access: disc**. If you wish to initialize a
flexible disc, insert the flexible disc into the flexible
disc drive.

11. When the screen displays, *Are you sure you want to
proceed Y/N*, type **Y** if you wish to continue with the
initialization procedure. Type **N** if you wish to stop
the initialization procedure.

12. If you are initializing the fixed disc, proceed to step
13. You will not see the display described in step 12
on your screen.
If you are initializing a flexible disc, the screen now displays, *Formatting option? (defaults to 0).* You have five choices, as described in Table 4-1:

<table>
<thead>
<tr>
<th>Format Option</th>
<th>Bytes/ Sector</th>
<th>Double-Sided or Single-Sided Formatting</th>
<th>K bytes of Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0*</td>
<td>256</td>
<td>Double-Sided</td>
<td>630</td>
</tr>
<tr>
<td>1</td>
<td>256</td>
<td>Double-Sided</td>
<td>630</td>
</tr>
<tr>
<td>2</td>
<td>512</td>
<td>Double-Sided</td>
<td>710</td>
</tr>
<tr>
<td>3</td>
<td>1,024</td>
<td>Double-Sided</td>
<td>788</td>
</tr>
<tr>
<td>4*</td>
<td>256</td>
<td>Single-Sided</td>
<td>270</td>
</tr>
</tbody>
</table>

* Denotes best performance options

**Table 4-1: Flexible Disc Formatting Options**

You must remember three important things when selecting a format option:

A. You can format double-sided ONLY on double-sided flexible discs in a double-sided disc drive (e.g., HP 9133D or HP 9133H).

B. A flexible disc formatted double-sided can only be used in a double-sided disc drive (e.g., HP 9133D or HP 9133H).

C. A flexible disc formatted single-sided can be used in either a single-sided or a double-sided disc drive.

Press ENTER if you wish to select the default option of 0. Otherwise, type the number of the format option that you wish to select, and press ENTER.
13. The screen now displays, Interleave factor? (defaults to __). If you are formatting a flexible disc, the recommended interleave factor is 2. If you are formatting a fixed disc, the minimum interleave factor is 3. Table 4-2 details the recommended interleave factors.

<table>
<thead>
<tr>
<th>Series 200</th>
<th>Recommended Interleave (256 byte sectors)</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Disc Interface 98625A and DMA 98620B</td>
<td>3</td>
</tr>
<tr>
<td>With DMA 98620B Only</td>
<td>4</td>
</tr>
<tr>
<td>With no DMA</td>
<td>7</td>
</tr>
</tbody>
</table>

Table 4-2: Recommended Fixed Disc Interleave Factors

14. The screen now displays, Medium initialization in progress.

Note

Initialization takes approximately 2 minutes per megabyte. Initialization is an excellent investment of time, because it not only prepares your disc to receive and store data, but also thoroughly checks the disc for any damage it may have sustained during shipment.

15. At the end of the initialization process, another line is added to the display on your screen. The screen now displays:

   Medium initialization in progress
   Medium initialization completed

About ten seconds later, the screen displays:

   Volume zeroing in progress
   Volume zeroing completed
16. The disc has been successfully initialized.

**Copying**

Use the following steps to copy all the files on a flexible disc to the fixed disc.

1. Once you have booted the computer, insert the Access: disc into the flexible disc drive.
2. When the command line appears, **Command: Compiler Editor Filer . . .**, type F for Filer.
3. When the filer line appears, **Filer: Change Get . . .**, remove the Access: disc. Place the disc that you wish to copy in the flexible disc drive.
4. Type F for Filecopy.
5. When the screen displays, **Filecopy what file?**, type #3: = and press Enter. This tells the computer that you wish to copy all the files from the flexible disc.
6. When the screen displays, **Filecopy to what?**, type #11:$ and press Enter. This tells the computer that you wish the copy to go TO the fixed disc.
7. The screen now displays **Reading . . .** and the flexible disc access light is lit.
8. The screen now displays **Writing . . .** The disc access light is lit alternately on the flexible and fixed disc drives. The copying process takes only a few minutes.
9. When copying is complete, the filer line, **Filer: Change Get . . .**, appears on the screen again.
10. Type Q for Quit and press ENTER.
11. Refer to the Filer section of your Pascal manual for additional information.

4-6 Series 200 Pascal 3.0
Use the following steps when you want to make copies of some files on a disc, but do not want to copy all the files on the disc:

1. Once you have booted the computer, insert the Access: disc into the flexible disc drive.
2. When the command line appears, Command: Compiler Editor Filer... type F for Filer.
3. When the filer line appears, Filer: Change Get... remove the Access: disc. Place the disc that you wish to copy in the flexible disc drive.
4. Type F for Filecopy.
5. When the screen displays, Filecopy what file?, type #3:filename, and press ENTER. (Filename is the name of the file to be copied.) This tells the computer that you wish to copy “filename” from the disc that is in the flexible disc drive.
6. When the screen displays, Filecopy to what?, type #11:filename, and press ENTER. This tells the computer that you wish to copy the file to the fixed disc.
7. The screen now displays Reading... and the flexible disc access light is lit.
8. The screen now displays Writing... The disc access light is lit alternately on the flexible and fixed disc drives. The copying process takes only a few minutes.
9. When copying is complete, the filer line, Filer: Change Get... appears on the screen again.
10. Type Q for Quit if you are finished copying. Repeat steps 4 through 9 if you wish to copy more files, or you may refer to the Filer section of your Pascal manual for additional information.
Using Your HP 9133H
With Series 200 HP-UX

For information on using your HP 9133H with a Series 200 HP-UX Operating System, please consult your Series 200 manual, "Setting Up HP-UX." Use the following interleave factors with Series 200 HP-UX:

If you ARE using an optional HP 98620B DMA interface, use an interleave factor of 4.

If you ARE NOT using an optional HP 98620B DMA interface, use an interleave factor of 7.