GRAPH IT! runs under ProDOS so you can use a 3½-inch drive, RAM disk or hard drive. GRAPH IT! should be used only with ProDOS 8, version 1.4 or higher.

GRAPH IT! supports over sixty dot-matrix printers and nearly sixty printer interface cards. For a complete list, see Chapter 7.

How to Use This Manual

Because GRAPH IT! is a menu-driven "point and click" program, you probably won't need to be as dependent on this manual as you may have been on others. However, you should stick with us at least through the first three chapters. This should take slightly more than an hour. After that, you may either continue along, exploring all the program's features and options in an organized progression or jump right into the program.

In this manual, keystrokes are contained in rounded-corner boxes to resemble keys, and text which you type in is set in a typeface selected to resemble typewriter type. The up and down arrow keys are shown as (↑↓), and the right and left arrow keys are represented as (⇄).

The program functions may be selected either with a mouse or with the keyboard arrow keys. Because most people will use the program with a mouse, these are the directions provided throughout the manual. The keyboard substitutes are detailed in Chapter 2.

Before using this program, please look for a README file on the disk. If there is one, this is where you will learn of any additions or corrections which may have occurred to the program since this manual went to press.

Making a Back-up Copy and Formatting Data Disks

Before going any further, make a back-up copy of the GRAPH IT! program disk using the Apple II Systems Utilities Disk that came with your computer. Throughout the rest of this manual, whenever we say the Program Disk, we mean the copy you make.

Choose the "Duplicate a Disk" option and follow the prompts. Alternatively, you could use the ProDOS-compatible disk-copy program of your choice. GRAPH IT! is not copy-protected and should copy correctly with any disk copy utility.

Use your back-up copy for day-to-day use, placing the original disk in a safe place, at least a foot away from heat, moisture or magnetism.

And, while you're at it, format some blank disks to hold all the graphs you are about to create.

To load GRAPH IT!, just put the disk in your drive and turn on your computer. GRAPH IT! will self-load.

Installing on a Hard Disk or RAM Disk

To install GRAPH IT! on either a hard disk or RAM disk, simply copy all the files (except the ProDOS system file) from the GRAPH IT! program disk to the desired ProDOS volume and sub-directory. You can use any copy program such as the Apple II System Disk or Copy II + *.

To run GRAPH IT! from BASIC:

1. At the BASIC prompt], enter the PREFIX command followed by the ProDOS path that contains the GI.RUN file followed by a [RETURN]. For example, type **PREFIX/VOLUME/SUB-DIRECTORY**. Press [RETURN].

2. From the next BASIC prompt], type **-GI.RUN**. Press [RETURN].

*Trademarks of their respective companies.

NOTE: To run with ProSel, follow Step 1 above for PATH and Step 2 for START-UP FILE.

Configuring GRAPH IT!

When you use your GRAPH IT! disk for the first time, the Configure screen will appear automatically, allowing you to make a few important choices about your Apple, your printer and your interface.

■ Selecting the Interface Type

This selection is highlighted when the Configure screen comes up. Simply use the (↑↓) arrow keys to scroll up or down the alphabetical list until the interface card installed in your computer is highlighted. There are nearly 60 types of interface cards to choose from. If your interface is not on the list of interfaces in the Configure Program, try the Unlisted Parallel or Unlisted Serial selections at the end of the list.

NOTE: Do not press (RETURN) until all of the highlighted selections match your system.

▉ Selecting the Printer Type

Use the (⇄) arrow keys to highlight Printer Type. Again, use the (↑↓) arrow keys to scroll the alphabetical list until the printer you are using is highlighted. There are more than 60 printers to choose from.

▉ Selecting the Printer Slot

Use the (⇄) arrow keys to highlight Printer Slot. Use the (↑↓) arrow keys to highlight the printer slot you are using if it is different from the default (Slot 1).

▉ Completing the Configuration

When you are satisfied with your choices in all three columns, press (RETURN). Your selections will be permanently saved and will automatically be installed each time you run GRAPH IT! To exit from Configure without changing anything, press (ESC) (for ESCape).

To change the configuration whenever you make a hardware change, select Configure... from the Apple Menu.

You should now be at the GRAPH IT! Menu Bar.

2 A PROGRAM OVERVIEW

This chapter will preview many of the ways in which you'll get around in GRAPH IT! Here you'll learn how to use the program either with or without a mouse, how to select the various menus and menu options, how to make menu selections using the Quick Keys and how to access the Help files.

GRAPH IT! is designed in keeping with the standard Apple User Interface, so if you're familiar with other programs designed this way, you've got a head start in learning this program.

Using the Pointer

GRAPH IT! uses a pointer, rather than a cursor, for doing much of the work. Using either the mouse or the (🍎)(↑↓)(⇄) keys, you'll move the pointer to make the various program choices.

WARNING: On newer Apple //s, the (🍎) key has been replaced with the Option key. If you have one of these computers, press (**OPTION**) along with the (↑↓)(⇄) arrow keys to move the pointer.

The pointer will change into a cursor for entering data or text. As soon as you complete that operation, the pointer will reappear.

When GRAPH IT! is busy, the pointer will change to an hourglass symbol. When the hourglass symbol is present on the screen, you will not be able to do any other work with the program. As soon as the pointer reappears, you may begin working with the program again.

If You Have a Mouse. . .

Some of the terms used in this manual tell you to do something with the mouse. If you're new to using a mouse, here is a quick review of mouse terms and actions:

Click—Press and release the mouse button once.

Double-click—Click the mouse button twice quickly.

Drag — Press and hold down the mouse button while you move the pointer. You might use this function to select a range to be graphed or an option from a menu.

Select — Position the pointer where you want it and click on the mouse button.

You can still use the keyboard even if you're using the mouse. Instead of clicking on some of the menu options, for example, you can use the "Quick Key" shortcuts described later in this chapter.

If You Don't Have a Mouse . . .

GRAPH IT! can also be used to its full potential without a mouse. To accomplish the functions described above, using the keyboard instead of a mouse:

Click — Press the ⬛ key once.

WARNING: On newer Apple //s, the ⬛ key has been replaced with the Option key. If you have one of these computers, press OPTION along with the specified ⬆⬇ ⬅➡ arrow keys to move the pointer.

Double-click — Press the ⬛ key twice rapidly.

11

Drag — Press and hold the (🍎) key. Press the (⇄)(↑↓) keys to move the pointer. Then, release the (🍎) key to complete the drag.

Select — Use the (⇄)(↑↓) keys to position the pointer on the option you want and press the (🍎) key.

Instructions in this manual are for a mouse. If you're running GRAPH IT! without a mouse, keep the above instructions handy.

Selecting Menus and Menu Options

Below is a picture of the GRAPH IT! screen with the TYPE menu pulled-down.

```
                        Graph It!
  🍎  File  Type  Axis  Format   Labels  Graph  Help
            √Column
            Column Stacked
            Bar
            Line              \
            Line/Column
            Scatter
            Area
            Pie Chart
            3-D Chart
               - Line spacing . . .
               - Rotate axes
               - Width spacing . . .
               - Depth spacing . . .
         √   - Show grid
```
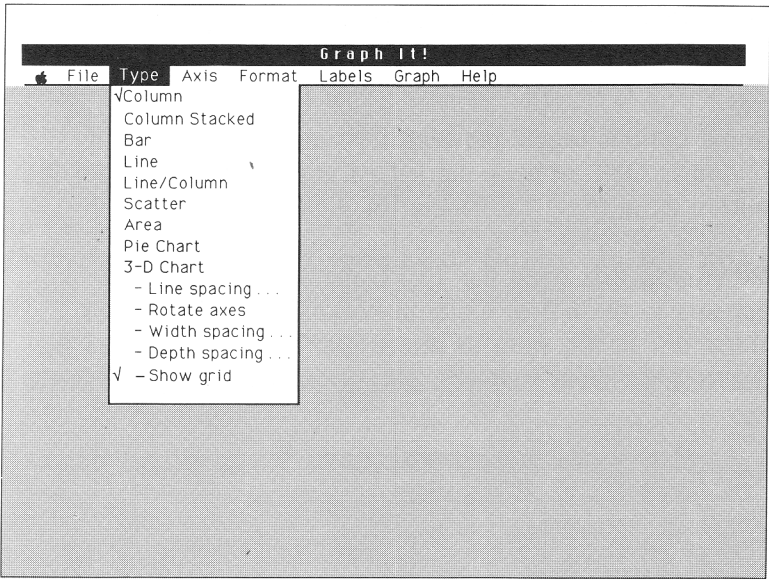
Figure 1

At the top of the screen is the Menu Bar. To open a menu
with the mouse, position the pointer on the menu title at
the top of the screen. Hold the mouse button down to open
the menu and drag the pointer down to highlight the option
you want; then release the mouse button. If you're already
familiar with the mouse, this will be old hat.

To open a menu without a mouse, use the (↑↓)(⇄) keys to
position the pointer on the menu title and press the (🍎)
key. Hold the (🍎) key down and use the (↑↓) key to
highlight the option you want; then release the (🍎) key.