

COMMODORE[®] 64C[™]

PERSONAL COMPUTER

G E O S[™]

deskTop 1.5[™]

U s e r ' s M a n u a l

Developed by Berkeley Softworks

GEOS deskTop 1.5

User's Manual

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Berkeley, CA 94704**

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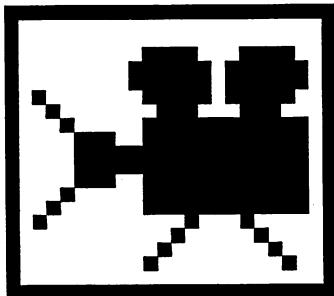
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1 Welcome to GEOS



This special package is designed to introduce you to GEOS, the Graphic Environment Operating System produced by Berkeley Softworks. The contents of this package are the following:

- **The GEOS DESKTOP program disk** This disk contains a demonstration program that will introduce you to the latest GEOS products. It also contains a number of files you will need if you purchase any of our products.
- **This program guide** This guide will get you started using the GEOS program disk. If you do not own GEOS products, use Chapters 1 and 2 to learn how to open the GEOS DESKTOP program disk, run the demonstration program, and learn the basics of using a graphically oriented operating system. Chapter 3 explains how to use files and disks. Chapter 4 describes how to use the Calculator, Preference Manager, Alarm Clock, and Note Pad desk accessories. Chapter 5 refers to the files on the flip side of the program disk. With the exception of the CONFIGURE and DISK COPY programs, you cannot use the files on the GEOS ADDTL side of the the disk; however, you will need these files if you decide to purchase any GEOS products. If you come across any unfamiliar terms in this guide, refer to the Glossary on page 73.

Getting Started

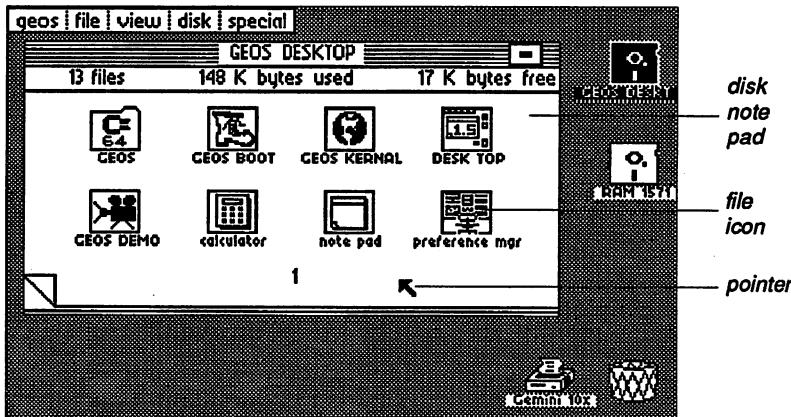
Use the procedure in this section to start up your GEOS DESKTOP disk. Once you have booted GEOS, you can run the demonstration program to learn more about the GEOS environment.

To start up GEOS:

- 1: Set up your Commodore, disk drive, and input device as explained in their instruction manuals. Turn on the monitor and disk drive. (Do not turn on the keyboard yet.)
- 2: Carefully insert the GEOS disk into the disk drive. Make sure the GEOS DESKTOP side of the disk is up. Close the disk drive door.
- 3: **128 users:** Hold down the **◀** key. (This key is located on the lower left side of the keyboard.) While continuing to hold down the **◀** key, turn on the keyboard.

64 users: Turn on the keyboard.

- 4: When the COMMODORE 64 BASIC V2 screen appears, there will be a flashing cursor under the word **READY**. Type exactly as follows:
LOAD"GEOS",8,1 and press the **[RETURN]** key. The following screen will appear on the monitor:



2 Welcome to GEOS

-
- 5: This is the **deskTop**, which is the first screen that appears when you boot GEOS. The deskTop enables you to work with files and disks in general, and to load programs. It works much like the main menu of many programs used on the Commodore.

If You Do Not Have A Joystick

If you do not have a joystick, you can use either a mouse, Koala Pad, or Inkwell light pen for GEOS. Before you can use one of these devices, you need to program GEOS to recognize it. (The procedure for doing so is simple.) Refer to "Installing an Input Device" on page 23.

Running the Demonstration Program

After you have loaded GEOS and have your input device working, you will be ready to run the GEOS demonstration program. (You will also get a quick lesson in using an input device, if you don't already know how.)

Once you begin the GEOS demonstration program, it will continue until it completes its performance, then return you to the deskTop afterwards. You can interrupt the program at any time.

If you wish to:

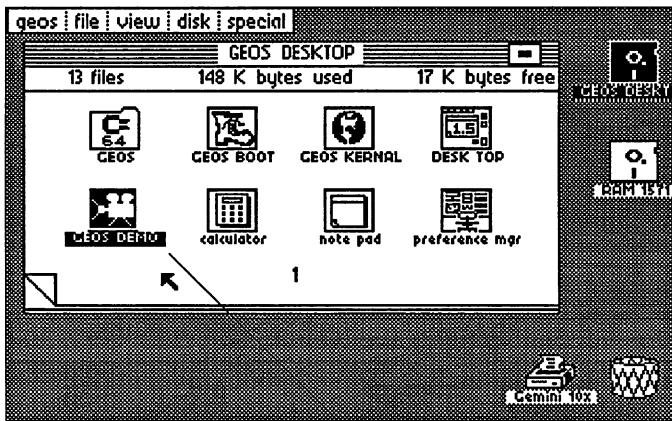
Move to the next dialog box
Stop a screen
Continue after stopping
Exit to deskTop

Do the following:

Press the spacebar
Hold down  and press 
Hold down  and press 
Hold down  and press 

To open the demonstration program:

- 1: Use the input device to move the pointer on the screen. For example, if you have a joystick, move its handle in the direction you want the pointer to go.
- 2: Move the pointer so that it is positioned over the GEOS DEMO file icon.
- 3: When the pointer is positioned over the icon, press the input device button. (If you are using a mouse, press the left button.) This is called "clicking." The GEOS DEMO file icon will appear in reverse video.



Look for the GEOS DEMO program. Here it has been highlighted.

- 4: Now move the pointer to the row of commands at the top left corner of the screen and locate the **file** command.

geos | file | view | disk | special

- 5: When the pointer is positioned over **file**, click. Another list of commands will appear, and the pointer will move to the **open** option:
- 6: Make sure the pointer is positioned over **open** and click again. The GEOS DEMO program will open. Enjoy!

file
open 
duplicate
rename
info
print

Click on open.

Exiting GEOS

Never turn off your computer until you have properly closed a program, or damage to your files may occur. Use the following procedures to exit GEOS. You can turn off your computer entirely, or you can exit to BASIC mode from the deskTop, if desired.

If you wish to turn off the computer:

- 1: Exit the current program and return to the deskTop.
- 2: Position the pointer over the close icon in the upper right corner of the disk note pad and click. The file icons on the disk note pad will disappear and the disk drive icon representing the disk drive containing the program disk will appear with a question mark inside.

Click here to close the disk.
- 3: Remove the program disk from the disk drive and store the program disk in a safe place.
- 4: Turn off the computer, disk drive, and monitor switches.

If you wish to return to BASIC mode:

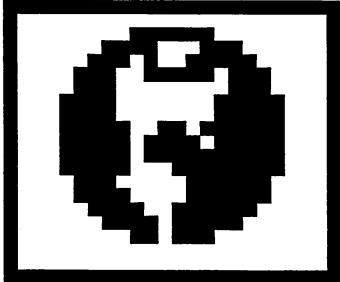
- 1: Exit the current program and return to the deskTop.
- 2: Go to the command menu and click on the special menu item.
- 3: Clicking on special will display two items: **BASIC** and **RESET**. Click on **BASIC**. You will be returned to the original 64 BASIC mode.

NOTE If you wish to return to GEOS at this point, you can do so by pressing the **RESTORE** key.

- 4: Remove the program disk from the disk drive and store the program disk in a safe place.

2

Learning GEOS



Once you begin using a graphically oriented operating system such as GEOS, you will be amazed at the ease and speed with which you can use icons, pull-down menus, and the keyboard to enter commands, move from one application to another, and manage files and disks. In this section, you will learn about using an input device with GEOS, selecting files in a variety of ways, using dialog boxes, moving files around the screen, using icons, and working with disk drives. Once you have read this section, you will know the basics of how to use the many GEOS products Berkeley Softworks provides.

Common Features and How They Work

Using an Input Device

To move around GEOS, you need to use an input device, which is a special device you hook up to your computer. As you discovered when you first opened the GEOS program, the input device enables you to move the pointer around the screen and select certain items. A pointer is a small arrow that indicates your location on the screen.

GEOS supports four input devices: the joystick, mouse, Koala Pad, and Inkwell light pen. If you are using a joystick, GEOS will automatically select it as the default input device when you boot up. If you are using a mouse, Koala Pad, or Inkwell light pen, you easily can activate it as the default input device by using the command menu. (The procedure for doing so is explained under "Installing an Input Device" on page 23.)

If you are unfamiliar with using an input device, it is easy to learn how. Once you have connected the input device to your Commodore and installed it to GEOS, you can begin to learn right away. As you move the mouse, joystick handle, Koala Pad, and Inkwell light pen in a direction, note that the pointer on the screen moves in the same direction as you move the input device.

Clicking and Menus

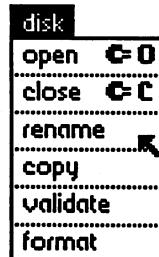
Now that you know how to move the pointer around the screen, you will need to know how to use the input device in other ways to work with GEOS. At the top left corner of the screen is a row of commands called a **command menu**. Move the pointer so that it is positioned over the **disk** command menu item.

geos | file | view | disk | special

Now press the input device button. This is called **clicking**. See what you get?

Dialog Boxes

If you wish to select one of the menu options, move the pointer to the menu option you need and click again. Suppose you wish



to rename the current disk. Click on the rename option. A dialog box will appear, asking you to enter the disk's new name:



To rename the disk, press **INST/DEL** to backspace over the current name, and type in a new name. To exit, move the pointer to **Cancel** and click. (If you had wanted to change the disk's name, you would need to have pressed **RETURN**.) The dialog box will disappear and you will be returned to the deskTop.

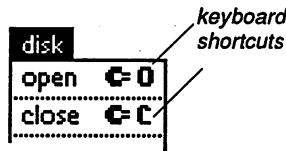
Some dialog boxes (such as the one above) will ask you to enter information. Other dialog boxes will display special messages. All you have to do to enter information is type what is needed on the keyboard. The small blinking vertical bar, called a **cursor** or **text cursor**, indicates where the text you type will appear.

Double-clicking

Accessories, applications, and application documents, can be opened without having to use the command menu. For example, move the pointer to the note pad file icon. Click twice on the icon in rapid succession. This is called **double-clicking**. The Note Pad will open on the screen. To return to the deskTop, click on the rectangular close icon at the upper right corner of the Note Pad..

Keyboard Shortcuts

Sometimes you can start a procedure without having to use the input device at all. Instead you can use the keyboard itself. To use a keyboard



command, hold down the **C** key, and while keeping it held down, press the key needed to carry out the command. For example, if you wish to open (activate) the current disk, hold down **C** and press **O**. Keyboard commands can be found listed in the menus along with the menu option.

Ghost Icons

If you wish to move a file icon around the screen or to another disk, you can do so easily. Click on the file icon once so that it appears in reverse video, pause, then click on it again. An outline of the file icon will become attached to the pointer. The outline is the file's ghost icon. Move the ghost icon around the screen, and click to deposit it on the desired place, whether the location is another spot on the disk note pad, the border area, another disk drive icon, the waste basket, or the printer icon. (Most of these icons are described below.) You also can move file icons to other disk note pad pages, or you can copy them to another disk.

Here is the original file icon highlighted.



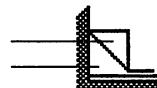
Here is the same file icon's ghost icon.



Other Icons

There are a number of other icons on the deskTop screen. If you wish to view the next deskTop note pad page, click on the dog-eared corner at the lower left corner of the disk note pad page:

Click here to go to the next page.
Click here to go to the previous page.



There are other ways of moving to the next disk note pad page; these are covered in Chapter 3, "The deskTop."

If you wish to delete a file, you can drop its ghost icon into the waste basket at the lower right corner of the screen. If you wish to print an application document, you can do so by dropping its ghost icon onto the printer icon located in the lower right corner of the deskTop.

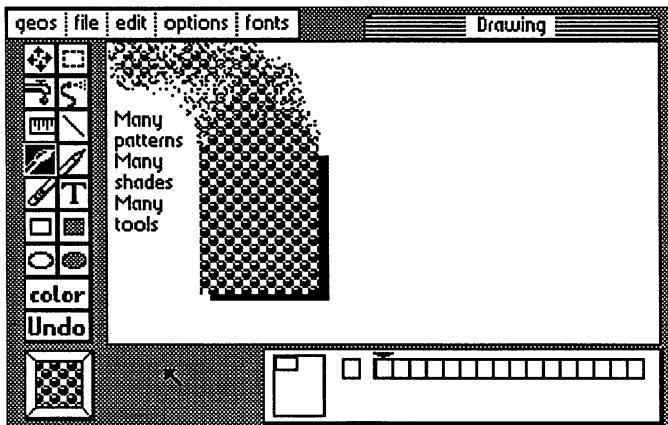


If you wish to close the disk, click on the **close icon** at the top right corner of the screen:



Windows

Once you open a GEOS application (which must be purchased separately), the document you are working with will be displayed in a large rectangular region called a **window**. Windows are typically used to separate different functional areas on the screen. A window is a view port of an area larger than can be displayed on the screen.



geoPaint's Drawing Window

For example, geoPaint provides a **Drawing Window** of an 8 1/2 by 11 inch document. This window only shows a portion of the document at a time. You can work with the rest by **scrolling** or **moving** the window to different parts of the document. You can view an entire document page by using a **preview** command, if desired. Similarly, geoWrite provides a **Writing Window**, also with a preview command.

WYSIWYG

The first time you open a GEOS application such as geoWrite or geoPaint (which must be purchased separately), you will discover the concept of **WYSIWYG** — What You See Is What You Get; the appearance of the text and images on the screen appears as the final printout will appear. Therefore, when you are creating text, you can vary the size, style, and fonts (typefaces) of the text and see the results right away.



WYSIWYG and fonts in a geoWrite Writing Window

Fonts

Berkeley Softworks offers a range of fonts from which you can choose. Font files, which appear on the deskTop, can be copied to your customized work disks. Once you open an application, the first six fonts that appear on the deskTop will be displayed as menu options in the application's font menu.

Disk Drives and the RAM Expansion Unit

GEOS is designed to read the contents of your disk from a **disk drive**, which is a special device you hook up to your computer. Disk drives vary in the type of disks they accept, how much storage they allow, and the speed with which they operate programs.

This GEOS program uses the 1541 and 1571 Commodore disk drives, as well as the RAM Expansion Unit (REU). These disk drives are described fully in Chapter 3, "The deskTop". The types of disks you can use with GEOS are 5 1/4 inch floppies. The 1541 disk drive accepts single sided disks with 165K; the 1571 disk drive accepts both single sided and double sided disks (331K). Other GEOS products support the 1581 disk drive.

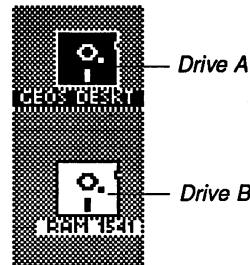
The REU does not physically accept disks; to use it you need to copy the contents of a disk drive to it. When finished working with files on the REU, copy them back to their original work disks. Once you turn off the computer, the contents of the REU are lost. However, the advantages of using an REU are that it enables you to run programs much faster than with an

ordinary disk drive and that it expands memory. The 1764 REU supports 256K and the 1750 REU supports 512K.

You can operate GEOS using one disk drive or two. If you are using an REU, GEOS will treat it as Drive B. Adding or changing disk drives is easily done by using the Configure program.

Switching Disk Drives

On the deskTop, the disk drives and REU are represented by icons located on the right side of the screen. The disk drive icon at the top of the screen represents Drive A; the one below it is Drive B (which also can represent an REU). You can switch disk drives simply by clicking on the disk drive icon you need.



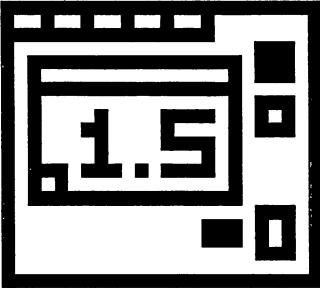
Many GEOS applications will read a file in another disk drive. For example, you could place the geoSpell spell-checking program on a disk in Drive A and a group of geoWrite documents on a disk in the other disk drive. When you open geoSpell in Drive A, it will display a dialog box listing documents you can spell-check on the current disk. This dialog box will also enable you to gain access to a list of documents in Drive B.

If you add or change a disk drive, you can use the CONFIGURE program on the deskTop to enable GEOS to recognize it. (This file is located on the GEOS ADDTL side of the program disk.) Afterwards, every time you boot GEOS, the new disk drive will be recognized.

3

The

deskTop



This chapter describes the features of the GEOS deskTop. Use this section to learn more about the deskTop's functions: how to manage files and disks, and how to use more than one disk drive. You will also learn how to run non-GEOS programs (such as BASIC and Assembly Language programs) from the GEOS deskTop.

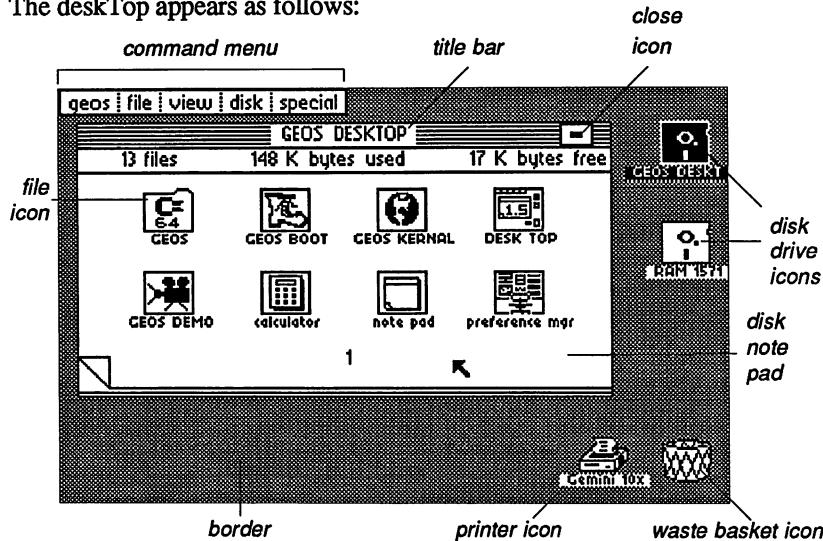
At the end of this chapter is a Quick Reference to all the commands contained in the deskTop menus.

Unfamiliar terms are defined in the Glossary on page 73.

The deskTop Screen

The deskTop, which is the first screen that appears after you boot GEOS, enables you to gain access to and work with your files. It also allows you to make decisions regarding disks, such as copying or renaming them. This chapter describes how to use the deskTop to work with files and disks.

The deskTop appears as follows:



The **command menu** lies along the top of the deskTop. Selecting each item in the command menu will cause another menu of commands to appear. To select a menu or a menu item, point to it and click.

Along the upper right side of the deskTop are the disk icons, which indicate the disks that are currently in the disk drives. The disk drive containing the currently active or open disk is black. You can have up to two disk icons, each representing a disk drive or RAM Expansion Unit.

The **disk note pad** is the large white area in the middle of the screen. It contains information about the currently open disk. The disk's name appears in the **title bar** (in the above example, the name of the disk is GEOS DESKTOP). A close icon is displayed at the far right; click on it to close (de-activate) the disk. The number of files, how much disk space is

used and how much is available are listed below the title bar. The disk note pad page displays the icons of the files located on the currently open disk.

There may be up to eight file icons on each page of the disk note pad. The icon's appearance indicates the file's type, such as application or document. The name of the file is written below the icon. Once you click on a file icon, it will become **highlighted** (i.e., it will appear in reverse video, just as the currently open disk drive). You need to highlight a file before you can move it around, open it, or work with it by using the command menu. Use the pointer to highlight a file icon.

The area just below the disk note pad is the **border**, which is used to temporarily deposit file icons you are moving or copying. You can have up to eight file icons at a time in the border area.

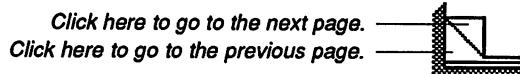
The **printer** icon appears in the lower right corner of the deskTop. The printer icon represents the default printer; below it is the name of the currently selected printer.

The **waste basket**, whose icon also appears in the lower right corner of the deskTop, provides a way for you to delete files from the deskTop.

Moving to Another Disk Note Pad Page

You can have as many as 18 pages on the disk note pad, depending on the number of files on the disk. There are two ways to flip through the pages:

- For the first nine pages, enter the page number (1–9) from the keyboard.
- For all pages, click on the dog-eared (turned over) corner at the lower left corner of the disk note pad to move to another page:



File Management

File Functions

You can perform a number of actions with files on the deskTop. You can alter the viewing mode of the disk note pad files, select a file, move and copy files, open a file, change a file's write protect status, rename a file, duplicate a file, rearrange files on a disk note pad page, delete a file, make a file a default file, and print a document. With the deskTop V1.5, you need to work with one file at a time.

Types of Files

Each GEOS disk comes with an assortment of files which enable you to move around GEOS and use its many features. Depending on the GEOS product you have, you will use some or all of the following:

- **System files:** basic operating files necessary for the use of GEOS. System files enable you to boot and run GEOS, use the deskTop, and transfer information from one file to another.
- **Program files:** application files, such as geoWrite, a sophisticated word processing program and geoPaint, a popular color graphics program. Desk accessory utility programs and Assembly Language and BASIC programs also fall into this category.
- **Data files:** documents created with GEOS (and non-GEOS) applications. Font files, which enable you to use a variety of typefaces in your documents, are also data files. In this manual, application data files are referred to as documents.
- **Interface drivers:** programs that enable you to use a specific input device (such as a joystick or mouse) and printer.
- **Non-GEOS files:** programs and data files that have not been converted to GEOS format.

To see the full range of GEOS products, refer to the *Berkeley Softworks GEOS Product Catalog* that accompanies this package.

Viewing Modes

You can view the items on the deskTop in either text or icon mode. Use text mode if you wish to view a list of all the files on the disk without having to page through the disk note pad pages. Text mode will sort files in a variety of ways. In any way the files are sorted, files with numbered names (e.g., the 1526 printer driver file) will appear before alphabetical names. Text mode also displays certain information about each file: its category type and how much memory it uses. Scroll through the list by clicking on the scrolling arrows at the bottom of the disk note pad. Use icon mode if you wish to manipulate the file in any manner (e.g., open it).

To view by icon mode:

- Select by icon from the view menu. The files on the disk note pad will be displayed as icons. Use this mode if you wish to work with files on the deskTop. The deskTop is initially in icon mode.

To view by text mode:

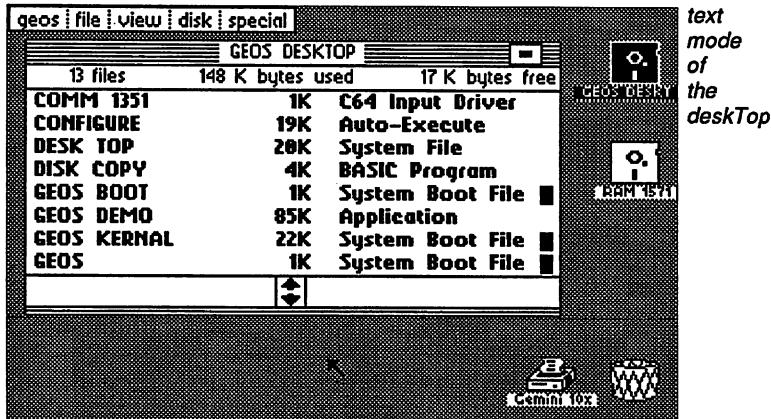
- Go to the view menu and click on one of the following commands:

by size. Sorts files by size, largest file first.

by type. Sorts files by file type.

by date. Sorts files by date of last modification, most recent first. The date is set by the Preference Manager desk accessory.

by name. Sorts files alphabetically.



Selecting a File

You need to select a file with the input device before you can work with it. To select a file, you need to be in icon mode.

To select a file:

- Simply point to the file icon and click. The file icon will become highlighted (i.e., white lettering on a black background).

To deselect a file:

- Click anywhere outside the file icon.

Opening a File

You can open documents from within an application, or you can use the deskTop to open the file (as long as a copy of the application is on that disk). Remember that you need to be in icon mode to open a file.

To open a file from the deskTop, use one of the following methods:

- Double-click on the file icon.
- Click once on the file icon so that it is highlighted, then select **open** from the file menu.

The types of files you can open from the deskTop are application programs, documents you have created, or desk accessories. You can open BASIC or Assembly Language programs and their data files. If you attempt to open another file type, such as a font file, a dialog box will inform you that the file cannot be opened from the deskTop.

File Info and Write Protect Status

The **info** option in the **file** menu displays certain information about the selected file icon on the currently open disk. It also enables you to enter a brief note regarding the purpose of a file and to determine whether a file can be deleted by changing its write protect status.

To select info:

- 1: Click on the file icon you need so that it is highlighted.
- 2: Select **info** from the **file** menu.

A dialog box will display the disk name, file type, file class, version, file structure, file size, most recent file modification date, and file author. It also will enable you to add a brief note and change the write protect status of the file.



Write Protect Box

To add a brief note to a file's info dialog box:

- Simply start typing. Press **INST/DEL** to backspace. To move to another location, move the pointer anywhere in the text and click.

To change the file's write protect status:

- Click on the Write Protect box once. If the box is black, the file cannot be deleted. If the box is white, the file can be deleted.

To close the info dialog box:

- Click on the close icon in the upper right corner of the info dialog box. You will be returned to the deskTop.

Renaming a File

You can rename (or alter the current name of) a file by using the **rename** menu item. Before you can rename a file, you need to be in icon mode.

To rename a file:

- 1: Click on file you wish to rename.
- 2: Select **rename** from the **file** menu.

-
- 3: A dialog box will ask you to "Please enter new filename." Press **[INST/DEL]** to backspace over as much of the name as needed, enter a new name, and press **[RETURN]**. Use no more than 15 characters. File names can contain spaces, punctuation, and be in upper or lowercase, if desired.

To cancel and leave the name unchanged:

- Select Cancel or press **[RETURN]** without changing the file name.

Duplicating a File

Note that the name of the duplicated file cannot be the same as the original or any other file on that disk. Before you can duplicate a file, you need to be in icon mode.

To duplicate a file:

- 1: Click on the file you wish to duplicate.
- 2: Select **duplicate** from the file menu.
- 3: A dialog box will ask you to "Please enter a new filename." Press **[INST/DEL]** to backspace, enter a new name, then press **[RETURN]**. The new filename should have no more than 15 characters.

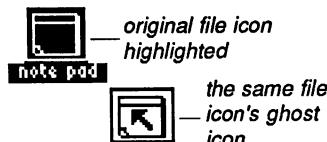
NOTE The new file will be the same as the old file, except for the name.

Moving a File

You can move file icons around the disk note pad and to other disk note pad pages. If you wish to move a file to another disk you will simply copy it to that disk, not actually remove it from the original disk.

To move a file:

- 1: Click on the file icon so that it is highlighted, pause, then click on it again. An outline called a **ghost icon** will become attached to the pointer. You can move the ghost icon around the deskTop.
- 2: To deposit the file icon, move its ghost to its destination and click again.



NOTE In this manner, you can delete a file by depositing it into the waste basket, print a document by depositing it on top of the printer icon, or, if you have more than one disk drive, copy a file by depositing its ghost icon onto the disk drive containing the destination disk. You also can move file icons to another disk note pad page (see "Rearranging File Icons," page 25).

Default Files

Some files automatically are used in place of others. For example, the first time you booted GEOS, the joystick was selected as your input device. This is because the joystick file icon was placed ahead of the other input device files (mouse, Koala Pad, and Inkwell light pen) on your disk.

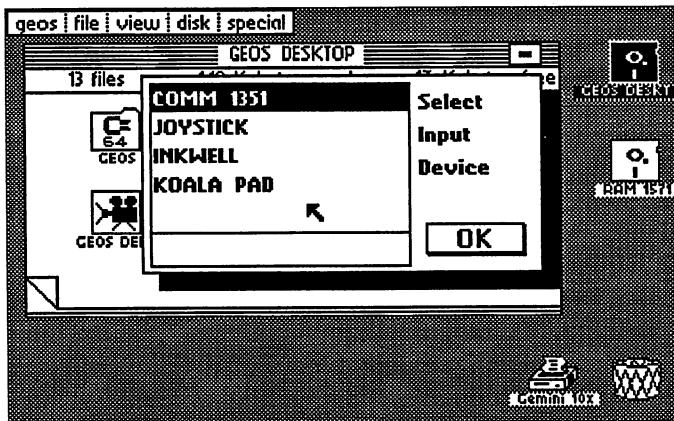
GEOS is equipped to handle a wide variety of printers and input devices. However, because you can use only one such device at a time, you will need to configure GEOS to use the device. The procedure for doing so is simple; all you need to do is use the **select input** or **select printer** option in the geos menu. (The procedure for changing a printer device is covered in Chapter 5, "Those Extra Files.")

Installing an Input Device

The first time you boot GEOS, the joystick will be active as your input device. If you wish to use a mouse, Koala Pad, or Inkwell light pen, you will need to use the following procedure to activate it for use with GEOS. Once you have activated an input device, it will remain active (i.e., the default file) until you change its default status again.

To select an input device as the default input device:

- 1: Hold down the  key, and while keeping it held down, press the letter **I**.
- 2: A message box (called a dialog box) will appear on the screen. The dialog box will display the four input device types on the disk. You need to select one.



Select
Input
Device
dialog
box

- 3: To select your particular input device, press the **[CRSR]** keys (located below the **[RETURN]** key) to move the pointer on the screen:

To move:

down
up
right
left

Press:

CRSR	↑↓
SHIFT	CRSR ↑↓
CRSR	←→
SHIFT	CRSR ←→

Move the pointer so that it is positioned over the name of the input device you have hooked up to your Commodore. For example, if you have a mouse, move the pointer so that it is positioned over COMM 1351.

- 4: When you have the pointer positioned over the input device name you need, press the **[RETURN]** key. The name you select will appear in reverse video (i.e., white lettering on a black background).
- 5: Now use the CRSR keys to move the pointer so that it is positioned over the small box that says **OK**. Press **[RETURN]**. The dialog box will disappear and you will be returned to the deskTop.
- 6: You now can use your input device to move the pointer around the screen. You will notice that the input device file icon you selected will have moved ahead of the other input device file icon on the disk note pad.

Rearranging File Icons

You can move a file from one page to another of the disk note pad, if desired. Files are listed in a menu or dialog box in the same order they appear on the disk note pad. If you have certain files you wish to appear early in a menu or a dialog box (e.g., fonts or file names), you can do so by rearranging them so that they appear at the beginning of the disk note pad. If you have special files you use frequently, you will find it quicker to gain access to them if you store them on the first page of the disk note pad.

To move a file icon to another disk note pad page:

- 1: Open the disk containing the files you need so that the disk note pad is displayed.

NOTE To open a disk, hold down the **[F]** key and press **[O]**, or click on its disk drive icon.

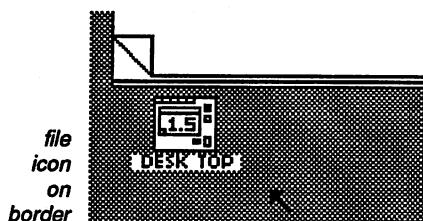
- 2: Flip through the pages of the disk note pad until you find the file icon you need.

NOTE To flip through the pages, either click on the dog-ear corner of the disk note pad or press the appropriate page number (1-9).

- 3: When you find the file you need, click on it once, pause, then click on it again so that you bring up its ghost icon.

- 4: Drag the file's ghost icon to the border and click to deposit it there.

NOTE You can move up to eight file icons to the border.



- 5: Go to the destination disk note pad page, either by clicking on the dog-ear or, for pages 1-9, entering a page number.
- 6: Now drag the ghost file icon (using the method described above) you deposited onto the border up to the disk note pad page.
- 7: Select an empty place and click to deposit the file icon there.

NOTE If there are no empty places, the file icon will be deposited onto the next available slot, which will be on a following page.

Copying a File to Another Disk

The methods for copying files to another disk vary, depending on whether you have one disk drive or two. The disk from which you wish to copy is called the **source disk** and the disk onto which you wish to copy the file is called the **destination disk**.

If you are using one disk drive:

- 1: Click on the file you wish to copy, pause, then click again to create a ghost icon.
- 2: Drag the ghost icon to the border and click to deposit it there. (Repeat for each file you wish to copy.)
- 3: Close the source disk by clicking on its close icon (or pressing  ).
- 4: Remove the source disk from the disk drive.
- 5: Insert the destination disk into the disk drive and open the disk.

NOTE To open a disk, either click on its disk drive icon, select **open** from the disk menu, or press  .

- 6: Drag each file icon you deposited on the border onto the destination disk's note pad.
- 7: You will be asked to swap the source and destination disks back and forth, particularly if you are copying more than one file at a time. When GEOS is finished copying, the file icon(s) will disappear from the border and reappear on the disk note pad page.

NOTE Copying a file does *not* delete it from the source disk. If you re-open the source disk, the file will reappear on the border. Move the file icon back to the disk note pad where it belongs.

If you are using two disk drives:

- 1: Open the source disk by clicking on its disk drive icon.

-
- 2: Insert the destination disk into the other disk drive. Make sure it has been opened (its name will appear below the disk drive icon).
 - 3: Click on the file you wish to copy so that its ghost icon appears.
 - 4: Drag the file's ghost icon to the other disk drive icon and click to deposit the ghost on top of the destination disk drive icon. The file will be copied to that disk.

NOTE You can copy a file from Drive A to Drive B and vice versa.

Printing a File

You can print an application document from the deskTop or within its application. If you are printing a geoWrite document, a dialog box will enable you to set a variety of parameters regarding the document (e.g., page range). If you are printing a geoPaint document, it will be printed right away. Note that before you can print a file, you first must activate the correct printer driver file. This procedure is covered in Chapter 5, "Those Extra Files."

There are two ways to print a document from the deskTop:

To print using the command menu:

- Click once on the document file icon so that it is highlighted, then select print from the file menu.

To print using the printer icon:

- 1: Click on the document file icon so that its ghost icon appears.
- 2: Drag the ghost icon to the printer icon and click to deposit it on top of the printer icon.

Deleting a File

You can delete a file using the waste basket. Note that the procedure for deleting files on a master disk is slightly different from a regular file deletion. (This is to prevent accidental damage to your master disks.) *In either case, once you have deleted a file, it is permanently deleted.*



Drop it in the waste basket.

If you try to delete a file that is write protected, a dialog box will inform you that the file cannot be deleted. To change its write protect status so that you can delete the file, refer to "File Info and Write Protect Status," page 20.

To delete a file from a work disk:

- Drag the file's ghost icon to the waste basket and click to deposit it inside the waste basket.

To delete a file from a master disk:

- 1: Drag the file's ghost icon to the border and click to deposit it there.
- 2: Now drag the file icon to the waste basket and click to deposit it inside the waste basket.

Disk Management

The disks you use in GEOS fall into three general categories: boot (or system), application, and work disks. (Boot and application disks also are referred to as master disks.) The boot disk is used to start up GEOS. The application disk contains the GEOS programs you use, such as geoWrite or geoPaint. A work disk, described briefly in Chapter 2, “Learning GEOS,” is reserved for everyday use and its contents are determined by you. It can contain copies of the application, documents, and related files (such as desk accessories or font files).

Opening a Disk

There are three ways to open a disk:

- Select **open** from the disk menu.
- Hold down the **C** key and press **O**.
- Click on one of the disk drive icons at the right side of the screen.

IMPORTANT When a disk is open, do not remove it from the disk drive unless a dialog box prompts you, or until you have properly closed the disk (as described below). Otherwise, damage to the files on the open disk may occur.

Closing a Disk

Before removing a disk from a disk drive, always close the disk by using one of the following methods:

- Select **close** from the file menu.
- Hold down the **C** key and press **C**.
- Click on the **close** icon at the upper right corner of the disk note pad.

Renaming a Disk

You can use spaces and punctuation in the names of your disks, if desired. You can have up to 16 characters in a disk name.

To rename the currently open disk:

- 1: Select **rename** from the disk menu.
- 2: A dialog box will ask you to "Please enter new disk name." Backspace over the current name as much as you need, type in a new name, and press **RETURN**.

NOTE Do not give disks the same name, since this may cause confusion.

Copying a Disk

The methods for copying a disk vary, depending on whether you have one disk drive or two. Note that the RAM Expansion Unit is treated as a disk drive. The source disk is the disk whose contents you wish to copy; the destination disk is the disk onto which you wish to copy those contents.

NOTE You cannot copy a boot disk.

To copy a disk using one disk drive:

- 1: Insert the source disk into the disk drive and close the disk drive door.
- 2: Open the source disk, either by clicking on its disk drive icon on the deskTop or by holding down **C** and pressing the letter **O**.
- 3: Open the DISK COPY utility program, either by double-clicking on its icon or highlighting its icon and selecting **open** from the file menu.



*Look for
this file icon
on the deskTop.*

NOTE The DISK COPY utility program is located on the GEOS ADDTL side of the program disk.

- 4: The screen will turn blue and a message will instruct you to insert the disk to be copied into the disk drive. Insert the source disk and press **RETURN**.

-
- 5: Next, you will be instructed to insert the destination disk into the disk drive. After you have done so, press **RETURN**.

NOTE If the destination disk is unformatted, the DISK COPY program will format it first before continuing with the copy procedure.

- 6: Continue to follow the instructions on the screen until the disk copy procedure is complete. It should take about three swaps of the disk. When it is finished, you will have the option of copying another disk or returning to the deskTop. Press **Y** to copy another disk or **N** to return to the deskTop.
- 7: Use the **rename** command from the **disk** menu to rename the destination disk.

IMPORTANT To avoid confusion, never give two disks the same name.

To copy a disk using two disk drives or one disk drive and a RAM Expansion Unit:

- 1: Open the source disk by inserting it into a disk drive and clicking on that disk drive's icon.
- 2: Select **copy** from the **disk** menu. A dialog box will prompt you to insert the destination disk into the other disk drive.
- 3: Insert the destination disk into the other disk drive and click **OK**.

NOTE If "the other disk drive" is a RAM Expansion Unit, this procedure will copy the current disk contents to the REU. If you have an REU, just click **OK**.

- 4: The message "Replace the contents of (destination disk name) with the contents of (source disk name)?" will appear. Click **YES** to continue. After a few moments, the contents of the source disk will be copied onto the destination disk.

NOTE You can copy a disk in Drive A to Drive B and vice versa.

Validating a Disk

Use the validate command to check for possible errors on the currently open disk. If the damage is minor, the validate command will repair it. Validate will not change the file contents of the disk. After validating a disk, GEOS will reopen it.

IMPORTANT Never validate a GEOS disk from BASIC. Only use the GEOS validate command when in the GEOS environment.

To validate a disk:

- 1: Open the disk you wish to validate.
- 2: Select validate from the disk menu.

Formatting a Disk

Before a blank disk can be used to store files, it must be formatted. If the disk contains files, formatting will erase the files.

To format a disk:

- 1: Select format from the disk menu.
- 2: A dialog box will ask you to "Put disk to format in drive # and enter a name for it." If you have one disk drive, remove the current disk and insert the disk to be formatted; if you have more than one disk drive, insert the disk to be formatted into Drive B.
- 3: Enter a name for the disk and press **[RETURN]**.

Resetting a Disk

Use this command if you wish to initialize the deskTop and reopen the currently active disk. Use this command after disk errors, or if you accidentally swap disks without following the proper open and close procedures.

To reset a disk:

- Select RESET from the special menu.

Using More than One Disk Drive

The disk note pad displays the contents of one disk drive at a time; the command menu acts on the currently selected disk drive. You can set up your Commodore to use two disk drives. As mentioned earlier, the RAM Expansion Unit acts as an extra disk drive.

Available Disk Drive Types

The 1541 Disk Drive

- Memory: 165K.
- Disk Type: Single-sided 5 1/4 inch.

The 1571 Disk Drive

- Memory: 331K.
- Disk Type: Single- and double-sided 5 1/4 inch.

The 1581 Disk Drive

- Memory: 790K
- Disk Type: Double-sided 3 1/2 inch.

NOTE The 1581 disk drive (which is not supported by the 1.5 desk-Top) operates faster than the 1541 or 1571 disk drives; however, it is not as fast as a RAM Expansion Unit.

The RAM Expansion Unit

- Memory: 165K or 331K. See "The RAM Expansion Unit (REU)," below, for a more detailed explanation.

The RAM Expansion Unit (REU)

Perhaps the greatest single performance improvement you can make to your Commodore when using GEOS is to purchase the Commodore RAM Expansion Unit. This device adds RAM storage to your Commodore and acts as a disk drive. A 1764 REU will add 256K and a 1750 REU will yield 512K additional RAM. By copying applications, desk accessories, and documents to the REU, and using them on the REU, you will notice an immense performance improvement in the speed with which applications load and run. When you have completed a document, be sure to copy the documents you altered back onto the disk in the actual 1541/1571/1581 disk drive. Once you turn off the computer, any files stored on the REU will not be saved.

As mentioned before, the REU acts a disk drive, except that you cannot physically insert a disk into it. If the REU is supports 256K, you need to configure it as a 1541 disk drive, which uses 165K. If the REU supports 512K, you either can configure it as a 1541 disk drive (at 165K) or a 1571 disk drive (at 330K). The rest of the memory is used by GEOS to speed up the programs you are currently using.

Adding or Changing a Disk Drive

Before you can use any of the previously mentioned disk drives with GEOS, you need to configure (i.e., format) each disk drive to the GEOS environment. To do so, use the CONFIGURE program, which is located on the GEOS ADDT'L side of the program disk.

Before You Use the CONFIGURE Program

In order to use the CONFIGURE program, you will need to copy it to the GEOS DESKTOP side of the program disk (i.e., it needs to be on the boot disk in order to enable GEOS to recognize the configurations you set). If there is not enough room on the GEOS DESKTOP side, copy the DEMO file to a work disk. Once you have copied the DEMO file to a work disk, go to the GEOS DESKTOP side of the program disk and delete the DEMO program. If necessary, refer to "Copying a File to Another Disk," page 26.

The following procedures describe how to change the configuration for Drive A, how to add or change the configuration for Drive B, and how to configure a RAM Expansion Unit as a disk drive.

To change Drive A:

- 1: Make sure the CONFIGURE program has been copied to the GEOS DESKTOP side of the program disk.

NOTE If necessary, refer to "Copying a File to Another Disk," page 26.

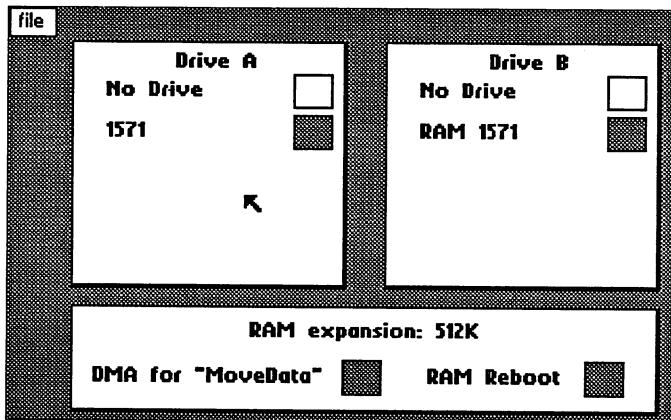
- 2: Open the CONFIGURE program by double-clicking on its file icon.



*Look for
this file icon
on the deskTop.*

NOTE An alternative is to highlight the CONFIGURE file icon and select open from the file menu.

-
- 3: Once you open the CONFIGURE program, the following screen will appear:



The CONFIGURE program's main dialog box

In the above example, the currently active disk drive for Drive A is a 1571 disk drive. Note that its box is shadowed.

- 4: Go to the Drive A dialog box and click on the No Drive option. A dialog box will say "If desired, you may now turn OFF and/or unplug drive A." If Drive A contains your boot disk, remove the boot disk from that drive, then turn off and/or unplug Drive A. Click OK.
- 5: You will be returned to the main CONFIGURE screen. The Drive A box will now list a series of disk drive types.
- 6: Click on the type of disk drive you plan to use as Drive A. A dialog box will instruct you to "Plug in & turn ON new drive." Connect the cables to the new disk drive according to the instructions in that disk drive's installation manual. If the previous disk drive contained your boot disk, insert the boot disk into the disk drive.
- 7: Once the new disk drive is set up, click OK. You will be returned to the main CONFIGURE screen. The disk drive you selected will be listed below the No Drive option.
- 8: Select save configuration from the file menu to install the change.

-
- 9: To exit the CONFIGURE program, select **quit** from the file menu.

To add a disk drive or change Drive B:

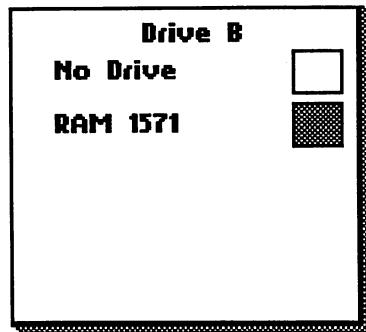
- 1: Make sure the CONFIGURE program has been copied to the GEOS DESKTOP side of the program disk.

NOTE If necessary, refer to "Copying a File to Another Disk," page 26.

- 2: Open the CONFIGURE program by double-clicking on its file icon.

NOTE An alternative is to highlight the CONFIGURE file icon and select **open** from the file menu.

- 3: Once you open the CONFIGURE program, a screen with three dialog boxes — for Drives A and B and the RAM Expansion Unit — will appear. Go to the Drive B dialog box and click on **No Drive**.



Use the Drive B dialog box.

- 4: Once you have clicked on **No Drive**, the Drive B dialog box will display a list of disk drive options. Click on the disk drive option you wish to configure as Drive B.
- 5: Once you select a disk drive type, a dialog box will ask you to "Plug in & turn ON new drive." Hook up the new disk drive according to the instructions found in its installation manual.
- 6: Once you have hooked up and turned on the new disk drive, click **OK**. You will be returned to the main CONFIGURE screen, and the disk drive you selected will be listed under the **No Drive** option.

NOTE If you configured Drive A as a RAM Expansion Unit, a "shadowed" disk drive option will appear in the Drive B dialog box. Select this option. A shadowed disk drive will use some of the RAM

Expansion Unit's memory to speed up the performance of any GEOS disk in that disk drive.

- 7: Select **save configuration** from the **file** menu to install the change.
- 8: To exit the CONFIGURE program, select **quit** from the **file** menu.

To configure a RAM Expansion Unit as a disk drive:

- 1: Before you boot GEOS, hook up the RAM Expansion Unit to your Commodore according to the instructions in the REU's installation guide.
- 2: Boot GEOS. Make sure you have copied the CONFIGURE program to the GEOS DESKTOP side of the program disk.

NOTE If necessary, refer to "Copying a File to Another Disk," page 26.

- 3: Open the CONFIGURE program by double-clicking on its file icon.

NOTE An alternative is to highlight the CONFIGURE file icon and select **open** from the **file** menu.

- 4: Once you open the CONFIGURE program, a screen with three dialog boxes — for Drives A and B and the RAM Expansion Unit — will appear. You can configure a RAM Expansion Unit as either Drive A or Drive B. Go to either the dialog box representing the disk drive you wish to configure for the REU and click on **No Drive**.
- 5: The disk drive's dialog box will display a list of disk drive types. If you hooked up a 1764 REU, click on the **RAM 1541** option. If you hooked up a RAM 1750, click on either the **RAM 1541** or **RAM 1571** option.
- 6: Once you select a RAM disk drive type, you will be returned to the main CONFIGURE screen. The REU type you selected will be listed below the **No Drive** option of the disk drive dialog box you used.
- 7: In the RAM Expansion Unit dialog box, make sure that the **DMA** for "**MoveData**" and **RAM Reboot** options are selected (their option

boxes will be filled in). DMA for "MoveData" will enable GEOS to swap large amounts of data in the REU, thereby speeding up GEOS considerably when used in conjunctions with an REU. RAM Reboot will enable you to reboot without losing the contents of the REU.

Check the REU dialog box before you exit. The options should be selected.



- 8: Select save configuration from the file menu to install the change.
- 9: To return to the deskTop, select quit from the file menu.

Using Non-GEOS Disks

Although programs not specifically designed for GEOS cannot take advantage of GEOS's windows, icons, and pull-down menus, you can use the deskTop to examine the contents of a non-GEOS disk, and rearrange non-GEOS file icons on the disk note pad. In some cases, you can run programs and create new files. Once you exit GEOS, you can use the non-GEOS disk in its original non-GEOS format (i.e., the non-GEOS disk will appear unchanged if you run it in its non-GEOS environment afterwards).

IMPORTANT It is recommended that you only convert *copies* (not originals) of non-GEOS system, application, or other disks to GEOS format. Never convert an original non-GEOS disk to GEOS format.

Using the deskTop with Non-GEOS Disks

To use the deskTop to open a non-GEOS disk:

- 1: Open GEOS to the deskTop.
- 2: Close the current disk by clicking on its **close** icon or selecting **close** from the **disk** menu (or pressing  ). Remove it from the disk drive.
- 3: Insert the non-GEOS disk into the disk drive and select **open** from the **disk** menu (or press  ).
- 4: A dialog box will ask you if you would like to convert the disk's directory to GEOS format. Select either Yes or No:
 - Yes: GEOS will expand the directory on the disk by one block. This additional directory area will be used to keep track of files that are moved from the disk note pad to the deskTop border.
 - No: GEOS will not allow you to move files from this disk off the disk note pad onto the deskTop border. You can, however, proceed to use the deskTop to work with the files on the disk.
- 5: Once you have selected Yes or No, you will be returned to the GEOS deskTop version of the non-GEOS disk. Each file on the disk will be

represented by a C=64 icon with the file's name below. You can rename, copy, and delete these files as if they were standard GEOS files.

Running a Non-GEOS Program on GEOS

Once you attempt to open a non-GEOS program on GEOS, GEOS will determine the type of program and if possible, run it. If you cannot open a non-GEOS file in GEOS, boot the system disk from which the document was created, then open the file.

To run a non-GEOS program on GEOS:

- 1: Double-click on the program file icon. Use the program as it is normally used.
- 2: When finished, reboot GEOS so that you can return to the deskTop.

NOTE If you have a RAM Expansion Unit, you can reboot so that its contents will not be lost. Exit to BASIC (by selecting BASIC from the special menu) and type **LOAD"RBOOT",8,1**. The GEOS deskTop will appear.

If the disk you have inserted is normally run using the **LOAD"**",8,1** command, double-click on the upper left corner icon of the disk note pad to open that file. (The **LOAD"**",8,1** command will tell your Commodore to open the first file it finds on the disk.)

GEOS and BASIC

If you are a BASIC programmer, you can enter and use the BASIC environment directly from the GEOS deskTop.

To enter BASIC from the deskTop:

- Select **BASIC** from the special menu. You will enter the Commodore BASIC interpreter.

Using the BASIC Interpreter from the deskTop

Once you have entered the Commodore BASIC interpreter, your Commodore will run much as before except that the default NMI vector will be replaced with a vector to some reboot code for the deskTop in the \$C000 memory space. This will allow the deskTop to be rebooted by inserting the original GEOS boot disk into the disk drive and pressing the **[RESTORE]** key on the keyboard.

Running BASIC Programs from the deskTop

Any BASIC program can be loaded and run from the deskTop. If the program is smaller than 26K, the GEOS diskTurbo software will fast-load the program into memory and automatically execute a RUN command. If the program is larger than 26K, it will be loaded by the normal Commodore DOS routines and a RUN command will be executed.

To run a BASIC program from the deskTop:

- Double-click on the program's file icon on the disk note pad page.

Returning to the deskTop

If the programs you have run while in the BASIC interpreter do not disturb the memory space between \$C000 and \$C080 (hex address values), and the NMI vector has not been changed, then you can reboot the deskTop.

To reboot from BASIC:

- 1: Place the original GEOS boot disk into Drive A.
- 2: Press the **[RESTORE]** key.

To reboot from BASIC without losing the contents of an REU:

- Type **LOAD“RBOOT”,8,1.**

Quick Reference: deskTop Menus

geos

geos info: displays copyright notice and authors of GEOS.

deskTop info: displays copyright notice and authors of the deskTop.
select printer: moves a selected printer driver to the default position until the next time you boot GEOS.

select input (): moves a selected input device (mouse, joystick, Inkwell light pen, or Koala Pad) to the default position until the next time you boot GEOS.

calculator: a desk accessory for quick calculations.

alarm clock: a desk accessory that lets you set the time and an alarm.

note pad: a desk accessory that lets you jot notes to yourself.

preference mgr: a desk accessory for determining the input driver speed and color, screen background and foreground colors, file icon colors, and system time and date.

text manager: a desk accessory for storing portions of text for use in other documents. (On this disk, the Text Manager is located on the GEOS ADDT'L side.)

photo manager: a desk accessory for storing graphic images for use in other documents. (On this disk, the Photo Manager is located on the GEOS ADDT'L side.)

file

open: loads and executes the currently selected file on the deskTop.

duplicate: creates a duplicate copy of the selected file.

rename: renames the selected file.

info: displays information about the selected file; also lets you change a file's write protect status.

print: prints the selected application document.

view

by icon: displays files in icon mode.

by size: displays files sorted by size, largest file first.

by type: displays files grouped by type.

by date: displays files in order of last modification, most recent file modification first.

by name: displays files in alphabetical order.

disk

open (C|O): opens the disk in the current disk drive and displays the disk-files in the disk note pad.

close (C|C): closes the currently open disk.

rename: renames the currently open disk.

copy: copies the contents of the currently open disk to another disk.

validate: checks the currently open disk for errors and makes minor repairs.

format: formats a disk in any disk drive. Formatting will erase the contents of that disk.

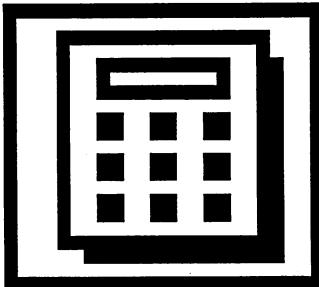
special

BASIC: enables you to enter BASIC mode.

RESET: initializes the deskTop and reopens the disk.

4

Desk Accessories



GEOS offers a range of desk accessories, which are small programs you can use from within an application or on the deskTop. When you select a desk accessory from the **geos** menu, it will pop up over the current application or the deskTop; when you exit the desk accessory, it will disappear from the screen and you will be returned to the previous program. The desk accessories available on this disk are the Calculator, the Preference Manager, the Alarm Clock, the Note Pad, the Photo Manager, and the Text Manager. The Calculator, Preference Manager, Alarm Clock, and Note Pad, which you can use right away, are located on the GEOS DESKTOP side of the program disk.

Note that you cannot use the Photo Manager and Text Manager desk accessories with this disk. These desk accessories are used with other GEOS applications, such as geoWrite and geoPaint. The Photo Manager and Text Manager are located on the GEOS ADDT'L side of the program disk.

Desk accessories can be copied to work disks and arranged so that they appear in any order you wish in the **geos** menu.

The Calculator



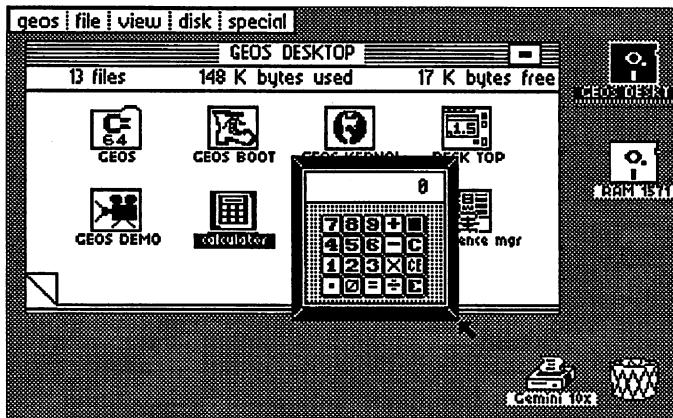
The Calculator desk accessory gives you the ability to do quick arithmetic while running any GEOS application or while you are on the deskTop. It operates in the same fashion as a typical four-function calculator.

Entering the Calculator

To enter the Calculator, use one of the following methods:

- Select calculator from the geos menu.
- Go to page 1 of the GEOS DESKTOP disk note pad and double-click on calculator file icon.

Once you open the Calculator, it will appear as follows:



The Calculator will appear over an application as well as the deskTop.

Entering Values

To enter values and execute functions, either use the pointer and click on the Calculator keys, or use the top row of numbers on your keyboard. The keys you need to use are as follows:

	<i>Calculator Key</i>	<i>Keyboard Key</i>
Add:	+	[+]
Subtract:	-	[-]
Divide:	/	[/]
Multiply:	*	[*]
Decimal:	.	[.]
Exponential:	E	[E]
Equal:	=	[=]
Clear:	C	[C]
Clear Entry:	CE	[INST/DEL]
Close:	■	[SHIFT] [Q]

Numbers in Scientific Notation

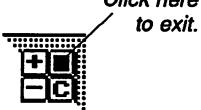
In addition to supporting the basic arithmetic functions of addition, subtraction, multiplication, and division, the Calculator supports handling numbers in scientific notation. To enter very large (or very small) numbers, use scientific notation. Type the mantissa (the decimal part of a logarithm), then E, then the power of 10. For example, to calculate the equation $3.2 \times 10^{11} + 2.1 \times 10^{-5}$, you would input the following:

- 1: Type: **3.2E11**
- 2: Click on the division key: **+**
- 3: Type: **2.1E-5**
- 4: Click on the equal sign: **=**

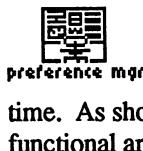
The correct answer, **1.5238E+16**, is displayed in the calculation window. Note that the maximum exponent that may be displayed or used in a calculation is 10^{-37} or 10^{37} (E-37 or E37).

Exiting the Calculator

- Click on the close icon (the black key in the upper right corner of the Calculator) or press **SHIFT** **Q** on the keyboard.



The Preference Manager



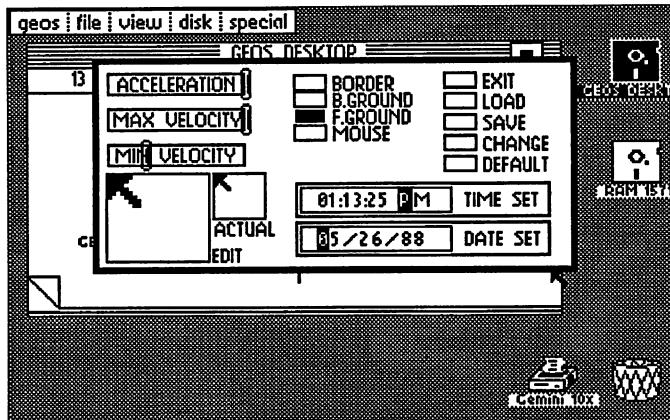
The Preference Manager desk accessory enables you to set a variety of parameters regarding the color of the screen or pointer, the speed and shape of the pointer, the date, and the time. As shown below, the Preference Manager is divided into several functional areas.

Entering the Preference Manager

To enter the Preference Manager, use one of the following methods:

- Select **preference mgr** from the **geos** menu.
- Go to page 1 of the **GEOS DESKTOP** disk note pad and double-click on the **preference mgr** file icon.

Once you open the Preference Manager, it will appear as follows:

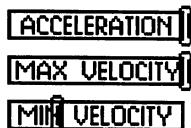


The Preference Manager will appear over an application as well as the deskTop.

By changing the settings displayed in these areas, you can customize the way GEOS works to your own particular preferences.

Setting the Pointer Movement Characteristics

The three bars in the upper left corner control the speed of the pointer. MIN VELOCITY and MAX VELOCITY set the minimum and maximum speed the pointer will achieve. ACCELERATION controls how quickly the pointer will achieve maximum velocity.



Click on the knob.

To determine the pointer's movement:

- 1: Point to the knob in one of the three bars and click.
- 2: Drag the knob to a new location. Moving it to the left will slow the pointer down; moving it to the right will speed it up.
- 3: Click again to set the knob in place.
- 4: Go to the list of options at the right and click on the CHANGE box.

NOTE Refer to "Using, Saving, and Recalling Your Changes," page 52, for how to save the changes temporarily, until the next time you boot GEOS, or permanently.



Click in the EDIT Box.

Changing the Pointer's Shape

The two boxes in the lower left corner, entitled ACTUAL and EDIT, display a bitmapped image of the pointer. The pointer is composed of small dots called pixels.

To change the pointer's shape:

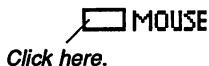
- 1: Position the pointer over the bitmapped image of the pointer in the larger EDIT box. It will assume the shape of a small line.
- 2: Click to create new pixels. If you click on an existing pixel, you will delete it. Change the shape of the pointer by clicking on the pixels that make up its image.
- 3: Go to the list of options at the right and click on the CHANGE box.



NOTE Refer to "Using, Saving, and Recalling Your Changes," page 52, for a variety of options for saving or recalling changes to the Preferences Manager.

Changing the Pointer's Color

You can change the pointer to any of 15 different colors.



To change the pointer's color:

- 1: Click on the **MOUSE** box in the list of options in the middle of the page to cycle through the available colors for the pointer.
- 2: Go to the list of options at the right and click on the **CHANGE** box.

NOTE Refer to "Using, Saving, and Recalling Your Changes," page 52, for a variety of options for saving or recalling changes to the Preferences Manager.

Changing the Border, Background, and Foreground Colors

Changing the colors displayed in the border, background, and foreground is as easy as changing the color of the pointer. You have 16 colors from which to choose. The background color may be any of these colors except the current foreground and pointer colors.



Use these options.

To change the colors of the border, background, and foreground:

- 1: Click on the **BORDER**, **B.GROUND**, and **F.GROUND** boxes in the list of options in the middle of the page to cycle through the selection of colors.
- 2: Go to the list of options at the right and click on the **CHANGE** box.

NOTE Refer to "Using, Saving, and Recalling Your Changes," page 52, for how to save the changes temporarily, until the next time you boot GEOS, or permanently.

Changing the Date or Time

For accurate date/time stamping of your data files, you will need to set the date and time whenever you boot GEOS and before you start working with the applications.



Look for these boxes.

To set the date or time:

- 1: Click on the DATE SET or TIME SET box.
- 2: Type in the new date or time. (The time will freeze after you press the first key on the keyboard.) Press the space bar to bypass correct entries. (Note that the cursor will bypass the colons and slashes.)
- 3: When you are satisfied with the date or time, press **RETURN**.

NOTE Moving the pointer outside the DATE SET or TIME SET boxes will cause the values to revert to their original settings.

NOTE Refer to "Using, Saving, and Recalling Your Changes," below, for a variety of options for saving or recalling changes to the Preferences Manager.

Using, Saving, and Recalling Your Changes

Click on these boxes. EXIT LOAD SAVE CHANGE DEFAULT

The list of options at the right of the Preferences Manager dialog box enable you to save the changes you make in a variety of ways.

To install the change temporarily:

- Click on the CHANGE box. If you exit the Preferences Manager dialog box at this point, the changes you made will remain in effect while you use the application. However, the default parameters will be reset upon quitting the application and returning to the deskTop.

To install the change permanently on a work disk:

- 1: Click on the CHANGE box.
- 2: Click on the SAVE box. The new settings will appear as a Preferences file on the disk and will be loaded each time you open that disk.

-
- 3: To return to the previous application, click on the **EXIT** box.

After making additional changes, to recall the last "saved" changes:

- 1: Click on the **LOAD** box. This will load the Preferences file into the Preference Manager. The controls then will display the new settings.
- 2: Click **CHANGE** to activate the new settings.

To recall the default settings:

- Click on the **DEFAULT** box. This will eliminate all changes you have ever made and load the standard GEOS colors, shapes, and settings.

To exit the Preference Manager:

- Click on the **EXIT** box to return to the previous application. Selecting **EXIT** without first selecting **LOAD**, **SAVE**, **CHANGE**, or **DEFAULT** will cancel any changes you have made to the Preferences Manager in that editing session.

The Alarm Clock



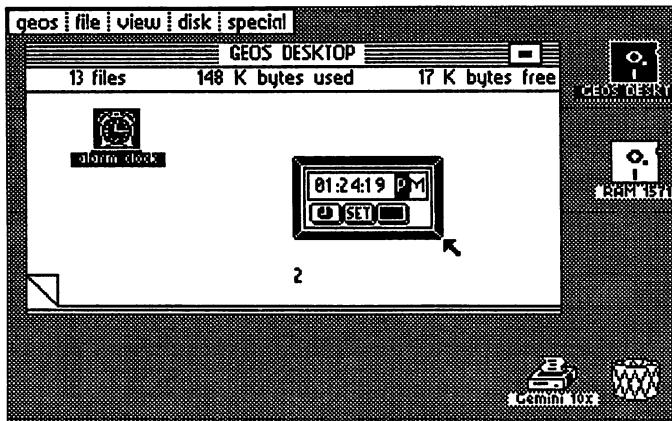
The Alarm Clock desk accessory can be called up to display the current time (if it has already been set), set the correct time, or set an alarm time. Once set, the clock and alarm are active no matter where you are working in GEOS. Setting the alarm will cause a tone to sound at the specified time.

Entering the Alarm Clock

To enter the Alarm Clock, use one of the following methods:

- Select **alarm clock** from the **geos** menu.
- Go to page 2 of the GEOS DESKTOP disk note pad and double-click on the alarm clock file icon.

Once you open the Alarm Clock, it will appear as follows:



The Alarm Clock will appear over an application as well as the deskTop.

For each of the three buttons used, there is a corresponding key: **M** for Mode, **RETURN** for SET, and **SHIFT** **Q** for close. In the above illustration, the Alarm Clock is set at Clock Mode.

Setting the Clock Time

- 1: Make sure Clock Mode is selected: press **M** or click on the Mode icon until a clock face appears.



Clock Mode

- 2: Click the pointer at the first time digit. The digit will become highlighted and the clock time will freeze.
- 3: Type the new time. The cursor will skip the colons and the letter **[M]**. Press the space bar to bypass correct entries.
- 4: When finished, press **[RETURN]** or click on **SET**.
- 5: To exit the Alarm Clock, click on the close icon or press **[SHIFT] [Q]**.

Setting the Alarm

- 1: Switch to Alarm Mode: press **M** or click on the Mode icon until a bell appears.



Alarm Mode

- 2: Click the pointer at the first time digit. The digit will become highlighted and the clock time will freeze.
- 3: Enter the alarm time. The cursor will skip the colons and the letter **[M]**. Press the space bar to bypass correct entries.
- 4: When finished, press **[RETURN]** or click on **SET**. The new bell displayed next to the close icon will signify that you have set an alarm.

NOTE The bell will disappear after the alarm has sounded and have exited the Alarm Clock.

- 5: To exit the Alarm Clock, click on the close icon or press **[SHIFT] [Q]**.

Exiting the Alarm Clock

Use one of the following methods to exit the Alarm Clock:

- Click on the close icon.
- Hold down **[SHIFT]** and press **[Q]**.



Click here to exit.

When you exit the Alarm Clock, you will be returned to the previous application or the deskTop.

The Note Pad



With the Note Pad desk accessory you can jot down short notes while you are using any GEOS application. Your notes will automatically be saved to a Notes file on the deskTop. Any text that was saved in the Notes file will be displayed each time you use the Note Pad. You can store up to 127 pages of notes, with 253 characters on each page.

NOTE The term "Note Pad" should not be confused with the "disk note pad" (the area of the deskTop containing files on the currently open disk).

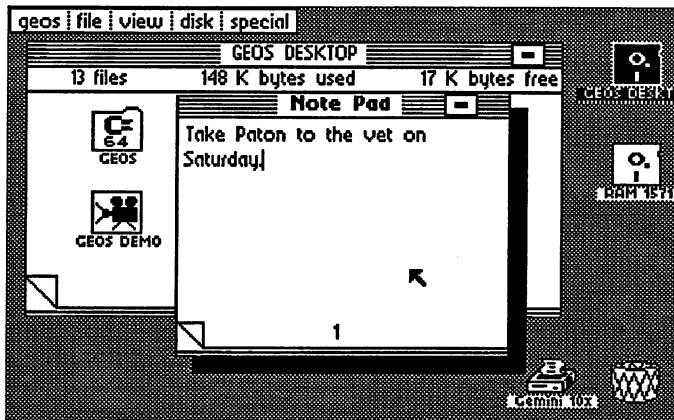
Entering the Note Pad

To enter the Note Pad, use one of the following methods:

- Select note pad from the geos menu.
- Go to page 1 of the GEOS DESKTOP disk note pad and double-click on note pad file icon.

NOTE You cannot enter the Note Pad by trying to open the Notes data file.

Once you open the Note Pad, it will appear as follows:



The Note Pad will appear over an application as well as the deskTop.

Adding Notes

- When the Note Pad appears, begin to type a note. Insert characters by clicking the pointer at the desired insertion point; delete characters by positioning the cursor and pressing the **INST/DEL** key or the left or right **CRSR** key.

Moving to Another Page

To move to another note pad page, click on the dog-ear that appears in the lower left corner of the Note Pad.

Click here to go to the previous page.



Click here to go to the next page.

Deleting the Note Pad Contents

- 1: Exit the current application or desk accessory and return to the desk-Top.
- 2: Look for the file icon entitled Notes (*not* note pad). The Notes file is a data file that was created when you entered a note into the Note Pad.
- 3: Delete the Notes file icon from the deskTop by dragging the Notes file ghost icon to the waste basket and clicking to deposit it inside. This will remove the existing notes and give you a fresh Note Pad with which to work.



Exiting the Note Pad

- Click on the close icon at the upper right corner of the Note Pad.

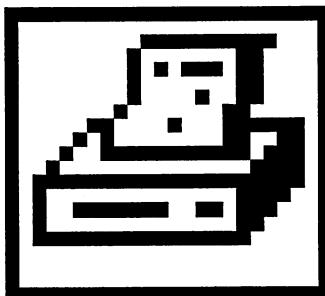


Click here to exit.

Once you have exited the Note Pad, you will be returned to the previous application or the deskTop.

5

Those Extra Files



Some of the files included on this program disk can be used only if you have purchased GEOS applications and will be necessary for them to run properly. Do not delete these files. They are located on the flip side of the GEOS DESKTOP disk, which is entitled GEOS ADDT'L. The files on page 1 of the disk note pad consist of three font files and the Text Manager and Photo Manager desk accessories. Pages 2-5 contain a number of printer drivers, which are special files that enable you to print GEOS documents using your printer.

If you have not yet purchased a GEOS compatible application, you may skip this chapter.

Printer Files



Comm. Compat.

GEOS supports over 70 different printers. Each one requires its own printer file called a **printer driver**. This program disk comes equipped with a number of printer drivers.

If you purchase any of the GEOS compatible applications, you will need to use the procedures described in this section to set up your printer so that you can print GEOS documents. This section describes how to find the printer driver you need and how to configure GEOS so that you can use your printer.

Activating Your Printer

Once you have activated your printer driver it will remain the default printer driver until the next time you change it (even if you reboot GEOS). If you have more than one printer, you can switch printer drivers as often as you need.

To make a printer driver the default printer driver:

- 1: Refer to the Printer Drivers chart on page 61 to find the name of the printer driver you need.
- 2: Once you have found printer driver you need, copy it from the GEOS ADDT'L disk onto your GEOS boot disk.

NOTE If necessary, refer to "Copying a File to Another Disk," page 26.

- 3: Open the GEOS boot disk so that its deskTop is displayed.

NOTE To open a disk, either click on its disk drive icon or hold down the **Disk** key and press **O**.

- 4: Choose select printer from the geos menu.
- 5: A dialog box listing the printer drivers on that disk will appear. Find the name of the printer driver you copied onto that disk, click on it, then click **OK**. You will be returned to the deskTop.

-
- 6: Close the boot disk and remove it from the disk drive.

NOTE To close a disk, either click on its close icon or hold down the  key and press **C**.

- 7: Now copy the same printer driver to the GEOS application disk.
- 8: Insert the application disk into the disk drive and open it so that the deskTop is displayed.
- 9: Follow Steps 4–5 to make the printer driver you copied to the application disk the default printer driver.
- 10: Close the application disk and remove it from the disk drive.

Printer Drivers

To find the printer driver you need, refer to the chart below. For example, if you own an Apple 2 Scribe, you will need to look for the Scribe driver file on the disk. Once you have found the printer driver file you need, copy it to the boot and application disks of the GEOS applications you purchase. If needed, refer to “Copying a File to Another Disk” on page 26. Once you have copied it to these disks, use the procedure under “Activating Your Printer” on page 60 to make it the default printer.

<i>Your Printer</i>	<i>Interface</i>	<i>Printer Driver</i>
Apple 2 Scribe	RS-232 Serial	Scribe
Apple ImageWriter	RS-232 Serial	ImageWriter
Apple ImageWriter II	RS-232 Serial	ImageWriter II
Blue Chip M120	Centronics Parallel	BlueChip M120
BMC BX-80	Centronics Parallel	BlueChip M120
Cal-Abco Legend 800	Centronics Parallel	BlueChip M120
Cal-Abco Legend 808	Centronics Parallel	Epson MX-80
Cannon PW-1080A	Centronics Parallel	Epson FX-80
Cannon PW-1156A	Centronics Parallel	Epson FX-80
Citizen 120-D	Commodore Serial Bus	MPS 1200
C.Itoh 8510	Centronics Parallel	C.Itoh 8510
C.Itoh 8510A	Centronics Parallel	C.Itoh 8510A
C.Itoh Riteman C+ NLQ	Commodore Serial Bus	Riteman C+

Your Printer	Interface	Printer Driver
Commodore 1525	Commodore Serial Bus	MPS-801
Commodore 1526	Commodore Serial Bus	1526
Commodore MPS-801	Commodore Serial Bus	MPS-801
Commodore MPS-802	Commodore Serial Bus	1526
Commodore MPS-803	Commodore Serial Bus	MPS-1000
Commodore MPS-1000	Commodore Serial Bus	MPS-1000
Commodore MPS-1000	Centronics Parallel	IBM 5152+
Commodore MPS-1200	Commodore Serial Bus	MPS-1200
Epson FX 80/80+/85/100/ 100+/185	Centronics Parallel	Epson FX-80
Epson EX-800	Centronics Parallel	Epson FX-80
Epson FX-185/286	Centronics Parallel	Epson FX-80
Epson JX-80	Centronics Parallel	Epson JX-80
Epson LQ-800/1000/1500	Centronics Parallel	Star NB-15
Epson LX-80	Centronics Parallel	Epson FX-80
Epson MX-80/100	Centronics Parallel	Epson MX-80
Ergo Systems Hush 80CD	Commodore Serial Bus	MPS-1000
Hewlett Packard Laserjet	RS-232 Serial	HP Laserjet
Hewlett Packard Laserjet+	RS-232 Serial	HP Laserjet
IBM 5152+	Centronics Parallel	IBM 5152+
Mannesmann Talley Spirit 80	Centronics Parallel	Blue Chip M120
NEC 8023	Centronics Parallel	C.Itoh 8510
NEC PC Printer (Epson LQ Series)	Centronics Parallel	Star NB-15
Okiidata Microline 92/93	Centronics Parallel	Oki ML-92/93
Okiidata Okimate 10	Commodore Serial Bus	Okimate 10
Okiidata Okimate 20	Commodore Serial Bus	Okimate 20
Okiidata 120	Commodore Serial Bus	Oki 120
Okiidata Oki 120	Commodore Serial Bus	Oki 120 NLQ
Olivetti PR-2300	Centronics Parallel	Olivetti PR-2300
Panasonic KX-P1090	Centronics Parallel	Epson MX-80
Panasonic KX-P1091/1092	Centronics Parallel	Epson FX-80
Seikosha SP-1000A	Centronics Parallel	Epson FX-80
Seikosha SP-1000VC	Commodore Serial Bus	Comm Compat.
Star Delta	Centronics Parallel	Gemini 10x
Star Gemini II	Commodore Serial Bus	Comm Compat.
Star Gemini 10x	Centronics Parallel	Gemini 10x
Star Gemini 10x	Centronics Parallel	Epson MX-80

<i>Your Printer</i>	<i>Interface</i>	<i>Printer Driver</i>
Star Micronics NL-10 (with Commodore interface)	Commodore Serial Bus	Star NL-10 (Com)
Star Micronics NL-10 (with Centronics Parallel interface)	Centronics Parallel	Star NX-10
Star Micronics NX-10	Centronics Parallel	Star NX-10
Star Micronics NX-10C	Commodore Serial Bus	Star NX-10C
Star SG-10/15	Centronics Parallel	Star SG-10/15
Star Radix	Centronics Parallel	Gemini 10x
Toshiba PA7253	Centronics Parallel	C.Itoh 8510

Interface

The interface you use depends on the type of printer you have. After you have connected the interface card to your Commodore and printer cable as explained in the interface card's instruction manual, note the following:

- The printer is always addressed as device #4 on the serial bus, so set the interface card or printer to device #4.
- Turn off any auto line-feed settings on the printer and the interface card.
- If the interface card that you are using has a transparent mode and you cannot get your printer to work with the specific printer setting, use the transparent mode.
- Tested cards are: Centronics Parallel, Commodore Serial Bus, Cardco Card?+G, Cardco Super G, DSI PPI Printer Interface, G-Whiz, Jameco JE-232 CM, Micrografx MW-302, Micrografx MW-350, Omnitronix Deluxe RS232 Interface, Telesys Turboprint GT, Xetec Graphics Printer Interface, Xetec Super Graphix, Xetec Super Graphix Jr.

If Your Printer Is Not Listed

If you don't find your particular printer listed, don't despair—most printers are compatible with one of the printers listed and can use the same setup. If your printer does not work, please call Berkeley Softworks for help. The Customer Service phone number is (415) 644-0890. We may have tested your printer by then and will be able to help get you up and running.

As new printers become available, Berkeley Softworks will write new printer drivers to support these devices. These drivers will be made available to registered GEOS users for the cost of the disk plus shipping and handling. They will also be available for downloading on Q-Link Telecommunications Service.

The Photo Manager



photo manager

Once you purchase a GEOS application, use the Photo Manager to store and handle graphic images created with geoPaint. Graphic images are stored in special files called photo albums. Each photo album may contain up to 127 pages of graphic images. For example, one photo album may contain charts and graphs for a business proposal; another album may contain illustrations for your upcoming novel.

The Photo Manager enables you to select graphics from any of the photo albums and insert them into other GEOS applications, such as geoWrite.

Photo Scraps and Photo Albums

There is a distinct relationship between the “photo files.” Whenever you cut or copy a picture (graphic image), it is placed into a photo scrap file, which is a temporary storage file. Photo albums are a means of saving the image you placed in the photo scrap and turning it into a permanent file.

The Photo Manager allows you to cut and paste images to and from a photo album. A photo album may contain many separate pages. When you need to place an image from a photo album into a document, copy the photo album contents into a photo scrap and paste the photo scrap contents into the document.

Remember that the photo scrap is a temporary file; each time you copy an image into it, that image replaces the current contents of the photo scrap.

The Photo Album Screen

Once inside the photo album, use the two items in the command menu, file and edit (located at the top of the album screen) to work with the images you copied or moved into the album. To exit to the previous application, click on the close icon at the top right of the album screen.

At the lower left corner of the album screen is the **window indicator**, which consists of two black rectangles: the large rectangle represents the entire size of the image; the smaller rectangle represents the photo album screen. To view another part of an image that is too large to fit in the window, click in the larger rectangle where you would like its top left corner to lie.

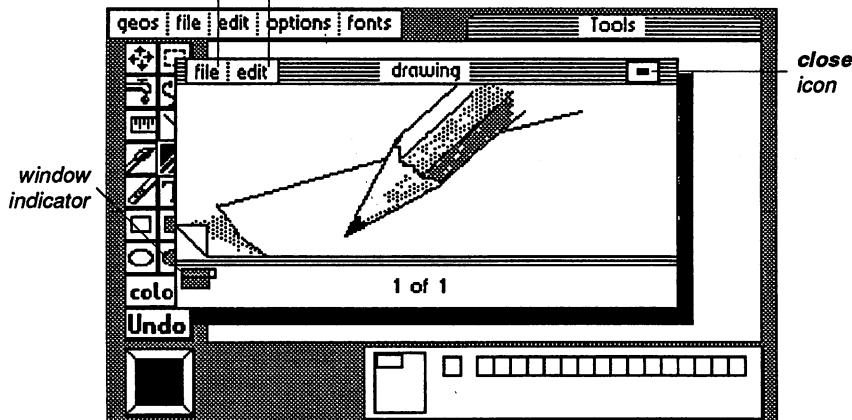
Creating a Photo Album or Opening an Existing One

- 1: Open the Photo Manager by using one of the following methods:
 - Select photo manager from the geos menu in either an application or the deskTop.
 - From the deskTop, double-click on the Photo Manager file icon.
- 2: When the dialog box appears, select Create new photo album, Open existing photo album, or Quit.
- 3: To create a new album, select Create new photo album, enter a name, and press [RETURN]. To open an existing album, select Open existing photo album, click on its name, then click on Open. If there are more than five names on the list, click on the scrolling arrows at the bottom of the dialog box until you find the album you want.

NOTE The album name dialog box will display only the first 15 albums names on the disk. If you have more than 15 albums and wish to display a different set of names, you will need to move, delete, or rearrange the file icons on the deskTop. If necessary, refer to "Rearranging File Icons," page 25.

A photo album could appear as follows:

Use this command menu.



A photo album will appear over an application as well as the deskTop.

Placing an Image into a Photo Album

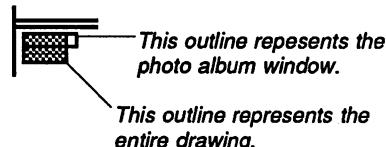
- 1: In geoPaint, select the **Edit Box** icon and define the region that contains the image to be placed in the photo album.
- 2: Select **cut** (to move) or **copy** from the **edit** menu. The image will be placed in a photo scrap.
- 3: Select **photo manager** from the **geos** menu. (You need not be in the document in which you originally created the photo scrap.)
- 4: Select an option: **Create new photo album**, **Open existing photo album**, or **Quit**.
- 5: Enter a name for a new photo album and press **[RETURN]**, or select an existing album and click **Open**.
- 6: When the album appears, note that it has its own command menu: **file** and **edit**. Select **edit**, then select **paste**. The image that you placed in the photo scrap will be copied into the album.

NOTE You can use the above commands to move or copy images in the existing photo album to another photo album. For example, create a photo album, insert an image into it, cut or copy it, then select **close** from the **file** menu to exit that album. Next, create or open another album, and insert the cut or copied image of the first photo album into it.

Remember that only a *copy* of the photo scrap has been pasted into the album. If you wish, you may use the same scrap in another album.

If the Image is Too Big for the Photo Album Screen

- Scroll the image by clicking on the **window indicator** below the album's dog-ear corner. Click once to pick up the window icon, then click again to deposit it over the new window location.



Exiting a Photo Album

Use one of the following methods:

- Select close from the file menu if you wish to open another album or create a new one.
- Select quit from the file menu or click on the close icon to return to the previous application or the deskTop.



Click here to exit.

The Text Manager



Once you purchase a GEOS application, you will find the Text Manager useful for storing blocks of text permanently. As the Photo Manager manages graphic images, the Text Manager handles text stored in special files called text albums on the disk. Each text album may contain up to 127 pages of text collected from your geoPaint or geoWrite documents. Typically, text albums are organized by the type of text they contain. For example, you may have one text album that contains headers and footers for a business proposal; another album may contain poetry samples for an English term paper.

The Text Manager enables you to select text from any of the text albums and use them in other GEOS applications.

Text Scraps and Text Albums

There is a distinct relationship between the “text files.” Whenever you cut or copy text, it is placed into a text scrap file, which is a temporary storage file. Text albums are a means of saving the text you placed in the text scrap and turning it into a permanent file (i.e., a text album). The Text Manager enables you to cut and paste scraps to and from a text album. The Text Manager works much like the glossary feature found in other word processing programs. When you need to place text from a text album into a document, copy the text album contents into a text scrap.

The Text Album Screen

Once inside the text album, use the two items in the command menu, file and edit (located at the top of the album screen), to work with your text. To exit quickly to the previous application, click on the close icon at the top right of the screen album.

If the text is larger than the text album window, use the scrolling arrows at the bottom of the screen to view another area of the text. To move to the next page, click on the dog-eared corner at the lower left of the page; to move to the previous page, click on the page area just below the dog-eared corner.

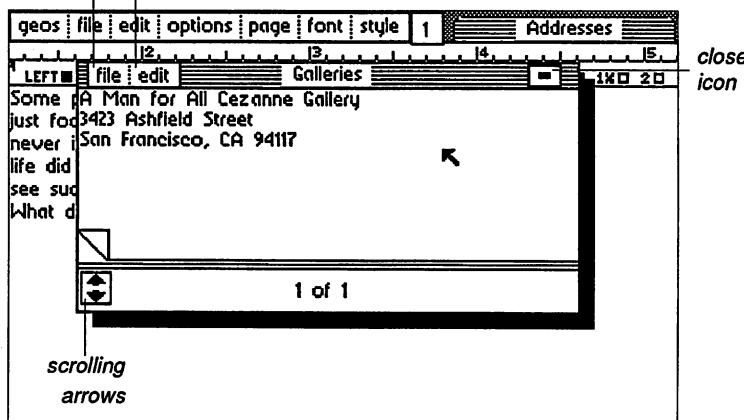
Creating a Text Album or Opening an Existing One

- 1: Open the Text Manager by using one of the following methods:
 - Select **text manager** from the **geos** menu.
 - From the deskTop, double-click on the **Text Manager** file icon.
- 2: When the dialog box appears, select **Create new text album**, **Open existing text album**, or **Quit**.
- 3: To create a new album, Select **Create new text album**, enter a name, and press **RETURN**. To open an existing album, select **Open existing text album**, click on its name, then click **Open**. If there are more than five names on the list, click on the scrolling arrows at the bottom of the dialog box until you find the album you want.

NOTE The album name dialog box will display only the first 15 albums names on the disk. If you have more than 15 albums and wish to display a different set of names, you will need to move, delete, or rearrange the file icons on the deskTop. If necessary, refer to "Rearranging File Icons," page 25.

A text album could appear as follows:

Use this command menu.



A text album will appear over an application as well as the deskTop.

Placing Text into a Text Album

- 1: First you must create a text scrap: in geoWrite, highlight the text that you want to cut or copy.
- 2: Select **cut** (to move) or **copy** from the **edit** menu.
- 3: Select **text manager** from the **geos** menu. (You need not be in the document in which you originally created the text scrap.)
- 4: Select an option: **Create new text album**, **Open existing text album**, or **Quit**.
- 5: Enter a name for a new text album and press **[RETURN]**, or select an existing album and click **Open**.
- 6: When the album appears, note that it has its own command menu containing the **items** file and **edit**. Select **edit**, then select **paste**. The text you placed in the text scrap will be copied into the album.

NOTE You can use the above commands to move or copy text in the existing text album to another text album. For example, create a text album, insert an image into it, cut or copy the image, then click on the **close** icon to exit that album. Next, create or open another new album, and insert the cut or copied image of the first text album into it.

Remember that only a *copy* of the text scrap has been pasted into the album. If you wish, you may use the same scrap in another album.

If the Text is Too Long for the Text Album Screen

- Scroll the text by clicking on the scrolling arrows below the dog-ear.

Exiting a Text Album

Use one of the following methods:

- Select **close** from the **file** menu if you wish to open another album or create a new one.
- Select **quit** from the **file** menu or click on the **close** icon to return to the previous application or to the **deskTop**.



*Click here
to exit.*

The Font Files

The three font files on the disk are California, Dwinelle, and Roma

This is an example of California.

This is an example of Dwinelle.

This is an example of Roma.

Berkeley Softworks offers a wide range of fonts from which to choose. Not only can you use a variety of typefaces and styles, but you can use GEOS fonts to create special characters as well, such as astrological symbols or dinosaurs. You even can create your own fonts using the geoFont application.

The size of each font is measured in points. There are 72 points to an inch. The actual height of characters printed using GEOS depends on the resolution of your printer.

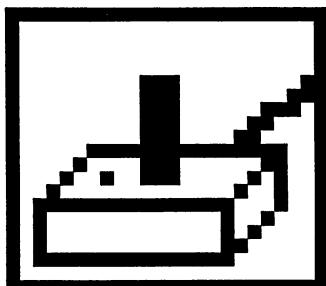
For any given font and point size, you also can change the type style used to print your text. Available styles are plain, **bold**, *italic*, **outline**, underline, ^{superscript}, and _{subscript}.

If you look closely at the spacing between the individual letters printed by most typewriters, you will notice that the letters are printed with a fixed spacing. If you look at a professionally printed page you will notice that the spacing depends on the shape of the letter. For example, w is wider than i. This is called **proportional spaced printing**, which is what GEOS uses for all text to enable you to create professional looking documents.

One of many
fonts



Berkeley Softworks offers over 50 different font files, each with a number of point sizes. Once font files are placed on a work disk, the first six or so (depending on the application) will appear in the font menu of the application documents on that disk. You can rearrange font files on a work disk so that the fonts you need most will appear in the font menu.



Glossary

Alarm Clock	A desk accessory that enables you to set the time and an alarm.
album files	Files containing permanently stored text or graphics. Albums are handled by the Text Manager and Photo Manager desk accessories.
application	A program that operates in GEOS. geoWrite and geoPaint are examples of GEOS applications.
backup copy	A copy of an application or work disk. You can create a backup by using the DISK COPY program if you have one disk drive or the disk copy menu item if you have two disk drives.
boot	Turning on the computer and opening GEOS.
BOOT DISK	The master disk that enables you to start up GEOS.
border	The area on the deskTop just below the disk note pad. Use the border to deposit file icons temporarily when you are moving them to another disk note pad page or, if you have a one disk drive system, to copy them to another disk.
	The Commodore key, which appears on the keyboard. It is used to carry out certain key-

	board commands. To use the key , hold it down, and while continuing to hold it down, press the key you need to carry out the command. Keyboard commands are located in the command menu after the items that apply. See also <i>keyboard shortcut</i> .
Calculator	A desk accessory that enables you to perform quick mathematical calculations from the deskTop or within an application.
clicking	Pressing the input device button to cause the pointer on the screen to select a menu item or an icon. It is also used to position a cursor in a geoWrite document. See also <i>double-clicking</i> .
close	To deactivate or exit a file or disk.
close icon	A rectangular shaped icon that enables you to deactivate the currently open disk or desk accessory.
command menu	The horizontal list of options that appears across the top left portion of the screen.
CONFIGURE file	A deskTop program that enables you to add or change disk drives for use with GEOS.
cursor	A blinking vertical line indicating the position of the next typed character.
data file	A document you create by way of a GEOS application.
default	Any file that is automatically selected by GEOS when you attempt to use it. The first printer and input device files on the disk are default files. If necessary, you can change the default status of a file.

desk accessory	A small utility program you can use from within an application or the deskTop.
deskTop	The first screen that appears when you boot GEOS. It enables you to work with the GEOS system. Use the deskTop to work with files and disks.
destination disk	The disk onto which you copy files from another disk. See also source disk.
dialog box	A special box that pops up on the screen to convey information to or query the user.
DISK COPY	A deskTop program that speeds up the disk copying procedure for users who have a one disk drive system.
disk drive	The hardware component used to contain the disks you use with GEOS.
disk drive icon	An icon that represents a disk drive. It appears on the deskTop. The currently open disk drive appears in reverse video.
disk menu	A menu item listing options for disk management.
disk note pad	On the deskTop, the large rectangular area containing files of the currently open disk.
dog-ear	The icon at the lower left corner of the disk note pad. It resembles a turned up corner of a page. Clicking on the turned up edge will display the next disk note pad page; clicking on the area just below it will display the previous page.
double-clicking	Pressing the input device button twice in rapid succession, usually to open a data file or an application. Double-clicking is the same as

	clicking once on a file icon, then selecting open from the file menu.
file	A collection of information on the disk, including applications or data files.
file menu	A menu option listing options for file management.
font	The typeface used when you create text. The text on this page is Times Roman. See also <i>type style</i> .
geos menu	A menu item listing desk accessories on the currently active disk and copyright information on the current application.
ghost icon	On the deskTop, an outline of an icon that appears after you click on it once, pause, then click on it again (but not double-click) to move a file to another place.
icon	A picture representing an operation, option, or a file. Icons appear in the deskTop, in dialog boxes, and in applications. Clicking on an icon will instruct GEOS to perform some action.
icon mode	On the deskTop, the viewing mode that displays files on the disk note pad as pictures. You need to be in this mode in order to work with the files.
Inkwell light pen	See <i>input device</i> .
input device	The device that lets you move a pointer on the screen. Available input devices are the mouse, joystick, Koala Pad, and Inkwell light pen. To use an input device, move the device or its handle in the direction where you wish the pointer to move. Press the input device button to make a selection. See also <i>clicking</i> and <i>double-clicking</i> .

interface drivers	Programs that enable you to set up your Commodore to use a specific printer or input device with GEOS. To install a printer or input device, you need to make it the default file. With each major product, Berkeley Softworks includes a range of interface drivers from which you can choose.
joystick	See <i>input device</i> .
Koala Pad	See <i>input device</i> .
keyboard shortcut	Using the keyboard to perform an action on the screen without using an input device. See also  .
master disk	An original disk that comes with a GEOS package.
menu	A list of options enabling you to enter a variety of commands. See also <i>command menu</i> .
mouse	See <i>input device</i> .
Note Pad	A desk accessory that enables you to write memos to yourself.
open	To activate a data file or disk. See also <i>clicking</i> and <i>double-clicking</i> .
photo scrap	A file used to store temporarily graphic images you select from geoPaint for use in another document, even if that document was created with a different GEOS application. See also <i>Photo Manager</i> .
Photo Manager	A desk accessory that enables you to store permanently graphics created with geoPaint for use in geoPaint and other GEOS applications. To use the Photo Manager, copy the graphic into

	a photo scrap, then into a photo album for permanent storage.
point size	A measurement for type. One point equals 1/72 of an inch.
pointer	The small arrow that indicates your position on the screen. It is used to select menu items and icons, to select and move regions, and to determine the placement of a cursor.
Preference Mgr	A desk accessory that enables you to change the screen and pointer colors, the shape and speed of the pointer, the date, and the time.
printer icon	On the deskTop, the icon shaped like a small printer at the lower right corner of the screen next to the waste basket. It represents the current printer and is used to print files from the desk-Top.
proportional spacing	The ability to adjust the spacing between letters of text.
RAM Expansion Unit (REU)	A special device you hook up to your Commodore to increase memory. The REU acts as a disk drive; however, when you turn off the computer its file contents are lost. The advantage of an REU is that it greatly increases memory and operates GEOS many times faster than normal.
RESTORE key	A Commodore key that enables you to return to GEOS from a non-GEOS environment (such as PrintMaster or BASIC).
scrap	See <i>photo scrap</i> or <i>text scrap</i> .
scrolling arrows	The arrow icons that appear at the bottom of a dialog box that contains more names than can be displayed in the dialog box at one time. Clicking

	on a scrolling arrow enables you to move through the list of names in the dialog box.
scrolling	The ability to move through a list of names in a dialog box or to move a Drawing or Writing window to another location.
source disk	The disk containing the files you wish to copy to another disk. See also <i>destination disk</i> .
special menu	Menu item listing options for entering BASIC and re-initializing the deskTop.
system file	Special files necessary for the operation of GEOS. The DESKTOP 1.5 is a system file.
text cursor	See <i>cursor</i> .
text mode	On the deskTop, the viewing mode that displays files in the disk note pad in text form, as opposed to icon form.
text scrap	A file used to store temporarily text you select from geoWrite for use in another document, even if that document was created with a different GEOS application. See also <i>Text Manager</i> .
typeface	See <i>font</i> .
type style	The appearance of a font (i.e., typeface) on a printed page. Depending on the GEOS application you are using, you can display text in plain, bold, <i>italic</i> , <u>outline</u> , <u>underline</u> , ^{superscript} , and _{subscript} styles.
validate	On the deskTop, the command that searches for possible bad sections on the currently active disk.
view	The deskTop menu item that lists the viewing modes for the disk note pad contents.

waste basket	On the deskTop, the icon shaped like a waste basket next to the printer icon at the lower right corner of the screen. It is used to delete a file.
work disk	A blank, formatted disk onto which you copy a combination of files, depending on the project you have in mind. For example, a work disk can contain geoWrite, geoWrite data files, font files, and desk accessories.
write protection	The condition determining whether a file can be deleted. You can change a file's write protect status by using the info option in the file menu.
window	The large rectangular region displaying a portion of the data file in an application such as geoWrite or geoPaint. You can view and work with other data file sections by scrolling or moving the window.

GEOS

Product Listing



Products from Berkeley Softworks are as follows:

GEOS	Features the deskTop interface which enables user to perform file and disk procedures (e.g., copying), the geoPaint color graphics program, the geoWrite word processing program, a variety of desk accessories, fonts, printer and input drivers, diskTurbo, and support for the RAM 1764 Expansion Unit. For use with Commodore 64, 64c, and 128 (in 64 mode).
geoCalc	Spreadsheet program that supports full use of 28,000 data cells, advanced mathematical functions, automatic recalculation of data and formulas, adjustable cell width and alignment, ability to view two parts of a spreadsheet at once, and print using a full range of options. For use with Commodore 64, 64c, and 128 (in 64 mode).
geoFile	Features the geoFile database program and geoMerge. Enables user to design custom forms, perform sophisticated search and sort operations, integrate graphics, print labels, and select from a full range of printing options. For use with Commodore 64, 64c, and 128 (in 64 mode).

geoProgrammer	Features geoAssembler, geoLinker, and geoDebugger. Enables user to create full scale GEOS applications. Includes over 400 pages of documentation, files with complete listings of GEOS equates and macros, and commented source code for three sample GEOS applications. For use with Commodore 64, 64c, and 128 (in 64 mode).
geoSpell	Features the geoSpell spell-checking program for use with all versions of geoWrite documents. Enables user to find and correct misspelled words, and create and edit personal dictionaries. Also features geoFont, which enables user to alter the appearance of an existing font or create a new font. For use with Commodore 64, 64c, and 128 (in 64 mode).
geoWrite Workshop	Features geoWrite 2.1 which enables user to create documents using headers, footers, a variety of justification and line spacing options, and to perform search and replace operations. Also features geoMerge, geoLaser, and Text Grabber. For use with Commodore 64, 64c, and 128 (in 64 mode).
geoPublish	A full-featured deskTop publishing program that enables user to import geoWrite documents and geoPaint graphics, create and change text and graphics on the screen, create custom layouts, and use a wide range of tools to create a newsletter. Includes Text Grabber for word processing file conversion. Supports Apple LaserWriter and all GEOS supported printers. Automatically converts earlier geoWrite files to the 2.1 version. For use with Commodore 64, 64c, and 128 (in 64 mode).
GEOS 128	Features the deskTop interface which enables user to perform file and disk procedures (e.g.,

copying), the geoPaint color graphics program, the geoWrite word processing program, a variety of desk accessories, printer and input drivers, additional memory, numeric keypad use, 2 MHz processing speed, additional peripheral support, 80-column resolution, diskTurbo, and support for the RAM 1764 and 1750 Expansion Units. For use with Commodore 128.

**geoWrite Workshop
128**

Features geoWrite 2.1, which enables user to create documents using headers, footers, a variety of justification and line spacing options, and to perform search and replace operations. Also features geoMerge, geoLaser, and Text Grabber. Also features 80-column resolution, additional memory capability, 2 MHz processing, numeric keypad use, and additional peripheral support. For use with Commodore 128.

DeskPack Plus

Features Graphics Grabber, Icon Editor, geoDex, geoMerge, and the Calendar and Black Jack desk accessories. For Commodore 128 users, DeskPack *Plus* features 80-column resolution, improved deskTop, new printer and input drivers, and upgrades to printing performance. For use with both Commodore 64 and 128.

FontPack Plus

Features 53 different font files for use with both 64 and 128 lines of Berkeley Softworks products. Font files range from varied type faces to special characters, such as dinosaurs and astrological symbols.

geoCalc 128

Spreadsheet program that supports full use of its 28,000 data cells, advanced mathematical functions, automatic recalculation of data and formulas, adjustable cell width and alignment, ability to view two parts of a spreadsheet at once, and print using a full range of options. Also supports 80-column resolution, additional memory, 2 MHz processing, numeric keypad

use, and additional peripheral support. For use with Commodore 64, 64c, and 128.

geoFile 128

Features the geoFile database program and geoMerge. Enables user to design custom forms, perform sophisticated search and sort operations, integrate graphics, print labels, and select from a full range of printing options. Also supports 80-column resolution, additional memory, 2 MHz processing, numeric keypad use, and peripheral support. For use with Commodore 64, 64c, and 128.

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COMMODORE

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