

Salvation[®] Bakkup[™]

BackUp & Restore Utility



Fast, Smooth, Uncomplicated

USER GUIDE

Salvation-Bakkup™ Users Guide

Third Edition, 1993

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Specifications concerning Salvation-Bakkup are subject to change without Notice. Salvation requires GS/OS 6.0, or higher.

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INTRODUCTION

Salvation-Bakkup is a powerful tool that simplifies the entire process of backing up data. This user's guide describes the features available in Salvation-Bakkup and how to use them.

Salvation-Bakkup features

Salvation-Bakkup provides everything that you will need to safeguard your data in the event of a disaster, including

- Support for 3.5" low and high-density disk drives.
- Support for SCSI Tape Backup drives.
- Compression algorithms to decrease the number of disks required.
- Support for GS/OS File System Translators (FTS).

Hardware and software requirements

The following are the minimum requirements for using Salvation-Bakkup:

- An Apple IIgs computer running GS/OS 6.0, or higher.
- 1.5MB of RAM.
- A hard drive.
- At least 150K of free disk space to install Salvation-Bakkup on a hard drive.

What's in the user's guide

This user's guide explains how to use Salvation-Bakkup to make secure, reliable archives of your valuable data. We have organized this user's guide in six sections.

- Section 1, "Getting started," describes how to install, start, and exit Salvation-Bakkup and how to get help if you need it.
- Section 2, "Salvation-Bakkup basics," describes the theory behind Salvation-Bakkup.

- Section 3, "Working with Salvation-Bakkup," provides a step-by-step tutorial to help users learn how to use Salvation-Bakkup.
- Section 4, "Salvation-Bakkup features," describes the features in Salvation-Bakkup in detail and how to use them.
- Section 5, "Advanced features and techniques," describes the more advanced and powerful features in Salvation-Bakkup including printing labels, setting options, creating macros, and group select.

Terms used in this user's guide

There are several terms used in this guide that you should be familiar with.

- "Clicking" on an item refers to moving the mouse and placing the pointer over an item and then pressing the mouse button. For example, if we said "Click the 'Select' button," you would move the mouse and place the pointer over the "Select" button and then press the mouse button.
- "Highlighting" an item refers to clicking an item. Salvation-Bakkup then changes the background color of the item to indicate that the item is highlighted. For example, if we said "Highlight the 'Tools' folder," you would click on the "Tools" folder. Salvation-Bakkup then displays the "Tools" folder with a yellow background to indicate that it is highlighted.

SECTION 1 — GETTING STARTED

This section provides you with information about how to install Salvation-Bakkup on a hard drive and covers the basics for starting, exiting, and getting help when you need it.

Unpacking Salvation-Bakkup

When you unpack Salvation-Bakkup, you should find the following:

- One 3.5" floppy disk containing the Salvation-Bakkup software.
- This user's guide.
- One warranty registration card.

If any of these items are missing or have been tampered with, please contact Vitesse, Inc. customer service at: (818) 813-1270.

Installing Salvation-Bakkup on a hard drive

You may install Salvation-Bakkup on a hard drive by copying the Salvation-Bakkup application files to your hard drive. We recommend that you create a separate folder for this purpose. You should copy the following two files to your hard drive:

- "/S.Bakkup/S.Bakkup"
- "/S.Bakkup/S.Bakkup.Prefs"

If you would like the GS/OS Finder to display the Icons for Salvation-Bakkup, you may also copy the following file to the "*/Icons" folder of your hard drive:

- "/S.Bakkup/Icons/Bakkup.Icons"

Starting Salvation-Bakkup from a 3.5" floppy drive

To start Salvation-Bakkup from the Salvation-Bakkup 3.5" floppy disk, follow these steps:

- Insert the Salvation-Bakkup disk into a 3.5" floppy disk drive.
- Boot your computer.

- At the Salvation-Bakkup "splash" screen, click the "S.Bakkup" button.

Please Note: It may be necessary to configure your Apple IIgs to start from slot 5. If necessary, you may change this setting in the Control Panel by following these steps:

- Press the OPEN-APPLE + SHIFT + ESC key combination.
- Using the up and down arrow keys, highlight the entry, "Control Panel" and press the RETURN key.
- Using the up and down arrow keys, highlight the entry, "Slots" and press the RETURN key.
- Using the up and down arrow keys, highlight the entry, "StartUp," and press the RETURN key.
- Press the left and right arrow keys until the entry, "Slot 5" is displayed, and press the RETURN key.
- Using the up and down arrow keys, highlight the entry, "Quit" and press the RETURN key.
- Again, highlight the entry, "Quit" and press the RETURN key.

To start Salvation-Bakkup from a hard drive, follow these steps:

- Boot your computer.
- Open the folder containing the files for Salvation-Bakkup.
- Launch the file, "S.Bakkup."

Exiting from Salvation-Bakkup

There are two ways that you may exit from Salvation-Bakkup. You may select "Quit" from the "File" menu entry, or you may press the OPEN-APPLE + Q key combination. However, to avoid damage to folders and files, we recommend that you use the preceding outlined procedure for exiting Salvation-Bakkup.

Getting help when you need it

You may contact our Technical Support department by calling (818) 813-1274 between the hours of 12:00 and 4:00 p.m., Pacific Standard Time. Please have

the following information available before you call:

- Product version number. Salvation-Bakkup displays the version number when it is first launched. If you are already in Salvation-Bakkup, select "About Salvation-Bakkup..." from the Apple menu entry.
- Your hardware specifications. This includes total RAM installed, brand and model of floppy and hard drives, and configuration of slots (i.e., what type of hardware, if any, is installed in each slot).
- Your software specifications. This includes the version of GS/OS that you are running.

You may also contact Vitesse, Inc. by logging onto America Online or GENie and posting questions to "VitesseInc" or you may post questions in the Apple forum areas. Additionally, you may use our 24 hour FAX [(818) 813-1273] for technical support. Be sure to include your registration number with any requests for information.

If you prefer, you may write a letter with your comments and send it to:

Vitesse, Inc.
Technical Support Department
P.O. Box 929
La Puente, CA 91747-0929

Before contacting us, please be sure that you have read this user's guide and are familiar with its contents. If you are having a problem with Salvation-Bakkup, please study the "Trouble Shooting" section at the end of the Help Summary. You may enter the Help Summary by selecting "Help" from the Apple menu entry.

Finally, be sure to run the program "Read.Me," for any last minute updates.

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SECTION 2 — BAKKUP BASICS

This section discusses the theory behind Salvation-Bakkup and some of its features.

Why Salvation-Bakkup?

Personal computer technology has exploded in the last few years. Apple IIgs users have had access to larger and faster storage devices. At one time, the standard Apple II had a 5.25" floppy disk drive that was capable of storing 143K bytes of data. The Apple IIgs introduced a 3.5" floppy disk drive that was capable of storing 800K bytes of data. Many Apple IIgs users began installing hard drives capable of storing immense amounts of data. These storage devices are getting larger and less expensive so an increasing number of Apple IIgs users have access to them.

These larger storage devices are quite reliable, but they can fail. Almost every Apple IIgs user has at one time or another experienced a hard or floppy disk that failed. It's at times like these that a backup is necessary. This is especially true if you're using a hard drive that stores 20MB, 40MB, or even 120MB of data.

While it is possible to just use a file management utility to make a copy of each file on a disk, this process can take a great deal of time, disks, and patience. The resulting backup may be unorganized making it difficult to locate a specific file. Salvation-Bakkup provides a method to quickly backup all the files on a disk. It takes care of the management and organization of the entire backup process making it simple to locate a specific file, or to just restore an entire volume.

What can cause these errors?

The causes for these errors range from a misplaced byte to a physical crash of the read/write heads. What is more common, however, is when a user updates a file and discovers that they have made an error. Rather than try to determine what changes were made, it's often easier to simply restore the previous version.

How does Salvation-Bakkup save time and disks?

Salvation-Bakkup saves time because it's designed to read and write files at the fastest possible speed. It also uses the powerful IIgs graphical user interface to clearly display files and their locations. It also allows you to select one or more files and specify where the files should be written.

Salvation-Bakcup saves disks by implementing a data compression algorithm. Data compression works by eliminating redundancy from the data, and expresses the data in a more concise, succinct form. This can significantly reduce the number of disks required to backup a volume by as much as 50%. However, compression slows down the speed with which Salvation-Bakcup writes files. It takes a great deal of effort to compress data. You should enable this feature if you want to reduce the total number of disks required.

Packing Sparse files

First of all, we need to understand what a sapling and a tree file is. A sapling file is a standard file that contains more than 512 and less than 128K bytes. It consists of an index block and 1 to 256 data blocks. A tree file contains more than 128K bytes, and less than 16MB. It consists of a master index block, 1 to 128 index blocks, and 1 to 32,768 data blocks. The master index block contains the addresses of the index blocks, and each index block contains the addresses of up to 256 data blocks.

A sparse file is a sapling or tree file in which the total number of data bytes that can be read from the file exceeds the total number of bytes physically stored in the data blocks allocated to the file. For example, a file may contain 15K bytes of data, but it may be possible to read 500K bytes from the file. Salvation-Bakcup has the ability to read the actual number of bytes physically stored in the file while ignoring anything beyond these bytes. Salvation-Bakcup also has the ability to expand the file back to its original size when the file is restored.

Enabling this feature increases the speed with which Salvation-Bakcup writes files. However, it significantly reduces the speed with which Salvation-Bakcup restores files.

The Catalog Disk

The catalog is an extremely important part of the backup process. It contains a list of all the files contained in the backup set. It is extremely important that you maintain a copy of the catalog. If the catalog gets lost or corrupted, it will be impossible to restore any of the files in the backup set. However, there is one exception. If you are working with floppy disks, Salvation-Bakcup writes a partial catalog to each disk in the set. It may be possible to restore the files from a backup set without a catalog disk. Nevertheless, you may not be able to restore all of the files, so we don't recommend it.

If you are working with floppy disks, the catalog is the last disk written in the backup process. If you are working with tapes, the catalog is written on the first tape in the backup set. If you are working with a GS/OS pathname, it is written

as part of the backup file.

We highly recommend that you label any tapes or disks with a catalog, and that you store them in a safe location. To ensure additional safety, you may want to make copies of tapes or disks containing the catalog.

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SECTION 3 — WORKING WITH BAKKUP

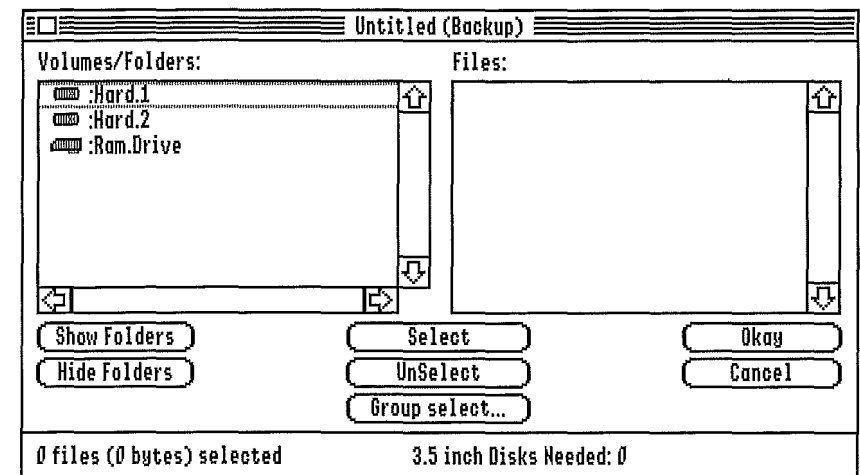
This section provides a step-by-step tutorial to help users get better acquainted with Salvation-Bakkup. Some of the features described in this section may not be familiar to you. Section 4 describes these features in detail, so don't be too concerned with them for now.

Creating a new backup

The first step in creating a new backup is to select "New Backup" from the File menu entry. Simply click the "File" menu entry and select "New Backup."

Salvation-Bakkup then displays the Volumes/Folders selection dialog box. This dialog box allows you to select one or more volumes, folders, and files for backup (Fig. 3.1). Go ahead and select "New Backup" now.

[Figure 3.1]



Selecting Volumes

You may select a volume by highlighting it in the left-hand scroll list and then clicking the "Select" button. If the volume is a hard drive, Salvation-Bakkup displays a gray rectangle in place of the hard drive icon to indicate a selected volume. Likewise, you may unselect a volume by highlighting it in the left-hand scroll list and then clicking the "UnSelect" button.

Selecting a volume selects all folders and files on the entire volume for backup.

Selecting Folders

Before you can select a folder, you must click the "Show Folders" button to display all the folders and files for the volume. You may select a folder by highlighting it in the left-hand scroll list and then clicking the "Select" button. Salvation-Bakku displays a gray folder icon to indicate a selected folder. Likewise, you may unselect a folder by highlighting it in the left-hand scroll list and then clicking the "UnSelect" button.

Selecting a folder selects all folders and files in that folder for backup.

Selecting Files

Before you can select a file, you must first highlight the folder containing the file. You may select a file by highlighting it in the right-hand scroll list and then clicking the "Select" button. Salvation-Bakku displays a gray file icon to indicate a selected file. Likewise, you may unselect a file by highlighting it in the right-hand scroll list and then clicking the "UnSelect" button.

You may select an arbitrary group of files by holding down the OPEN-APPLE key while selecting additional files.

You may select a range of files by selecting the first file in the group, and while holding down the SHIFT key, selecting the last file in the group. Salvation-Bakku automatically selects the first file, the last file, and all files in between.

Working with Volumes, Folders, and Files

Let's select a volume, a folder, and a file to help you understand how this process works.

Let's suppose that you would like to backup all the folders and files on your boot volume.

- Highlight your boot volume in the left-hand scroll list. Your boot volume is usually the first volume displayed in the list. If you don't know which volume is your boot volume, just select the first one.
- Click the "Select" button. Salvation-Bakku now displays your boot volume with a gray rectangle in place of the hard drive icon. This indicates that one or more folders or files are selected for backup.

Let's suppose that you have changed your mind, and that you would like to

backup all the files in the "Tools" folder of your boot volume.

- Highlight your boot volume.
- Click the "UnSelect" button. Salvation-Bakku now displays your boot volume with a hard drive icon instead of a gray rectangle. This indicates that no folders or files are selected for backup.
- Click the "Show Folders" button. Salvation-Bakku now displays all the folders for the entire volume in the left-hand scroll list. In addition, it displays the files contained in the currently highlighted folder in the right-hand scroll list.
- Highlight the "Tools" folder. If you have a large number of folders on the volume, you may need to scroll through the list of folders until you find the right one.
- Click the "Select" button. Salvation-Bakku now displays the "Tools" folder with a gray folder icon indicating that the folder is selected for backup.

Let's suppose that you change your mind again, and that you would like to backup a single file called "Tool034" in the "Tools" folder of your boot volume.

- Highlight the "Tools" folder in the left-hand scroll list.
- Click the "UnSelect" button. Salvation-Bakku now displays the "Tools" folder with a yellow folder icon indicating that no folders or files within the folder are selected for backup.
- Highlight the file "Tool034" in the right-hand scroll list. Salvation-Bakku now displays "Tool034" with a gray file icon indicating that the file has been selected for backup.

Note that a gray rectangle beside a volume name, or a gray folder icon beside a folder name indicates that one or more folders or files are selected for backup. It does not necessarily mean that all the folders and files are selected for backup. If you're not sure what folders and files are selected, it's best to click the "Show Folders" button and find out.

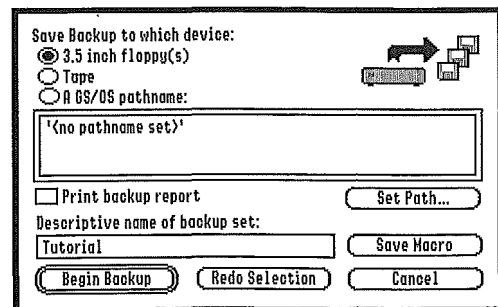
Also note that it is not necessary to select a volume unless you intend to backup all the folders and files on the entire volume. You may click the "Show Folders" button without having selected a volume. This way, you may select only those folders and files that you would like backed up.

After selecting which volumes, folders, and files for backup, click the "Okay" button. Salvation-Bakkup now displays a dialog box that allows you to specify where the files should be written, and to give the backup set a name (Fig. 3.2).

If you are using 3.5" floppy disks

[Figure 3.2]

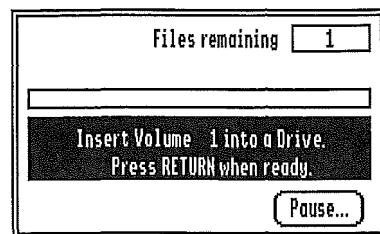
- Click "3.5 inch floppy(s)."
- Click the "Begin Backup" button.



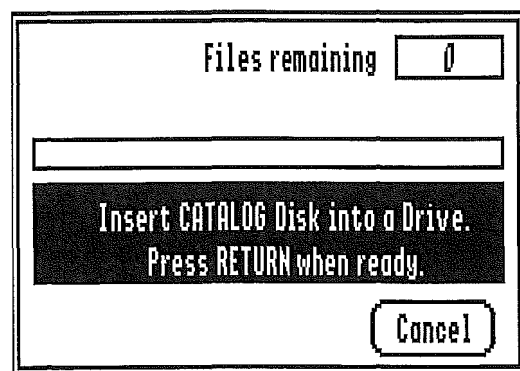
Salvation-Bakkup now displays a dialog box prompting you to "Insert volume 1 into a drive. Press RETURN when ready" (Fig. 3.3).

[Figure 3.3]

- Place the first 3.5" floppy disk into a 3.5" disk drive. Salvation-Bakkup automatically determines when a disk has been placed in the drive.
- Insert additional disks as necessary. Salvation-Bakkup automatically ejects the current disk and prompts you for the next one.
- After Salvation-Bakkup has completed writing the selected data, it will prompt you to insert the catalog disk (Fig. 3.4).
- Remove the catalog disk from the drive and store all the disks for the backup in a safe place.



[Figure 3.4]



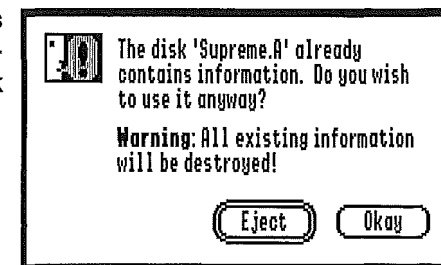
If an inserted disk already contains data, Salvation-Bakkup will display a warning dialog box (Fig. 3.5).

This dialog box simply warns you that data already exists on the disk. However,

Salvation-Bakkup can only warn you if the disk was formatted with ProDOS or GS/OS. It cannot warn you about disks that were formatted with another operating system. Be certain that the disk you're using is really the right disk.

- Click the "Okay" button if you want to go ahead and use the disk.
- Click the "Eject" button if you want to use a different disk.

[Figure 3.5]



If a disk is not formatted, Salvation-Bakkup will format it before writing data to it. However, Salvation-Bakkup considers any disk not formatted with ProDOS or GS/OS to be unformatted. For example, if you insert a disk formatted with another operating system, Salvation-Bakkup will assume that the disk is not formatted, and will then proceed to format it. Salvation-Bakkup does not prompt you before formatting a disk so be certain that the disk you're using is really the right disk.

Please note that Salvation-Bakkup can detect the presence of data on disks formatted with another operating system provided that a standard File System Translator (FST) is installed for the format.

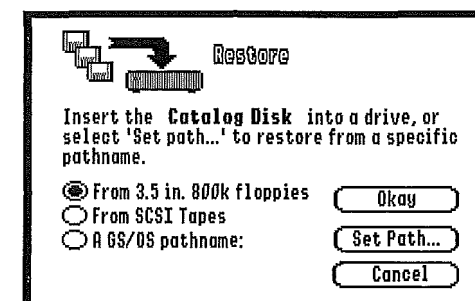
If you are using a tape backup drive

- Click "SCSI Tapes".
- Click the "Begin Backup" button.

Restoring data from a backup set

[Fig. 3.6]

The process of restoring data to your hard drive is very similar to backing it up. The first step in restoring is to select "Restore" from the "File" menu entry. Salvation-Bakkup then displays a dialog box prompting you to insert the catalog disk (Fig. 3.6)



If you are using 3.5" floppies

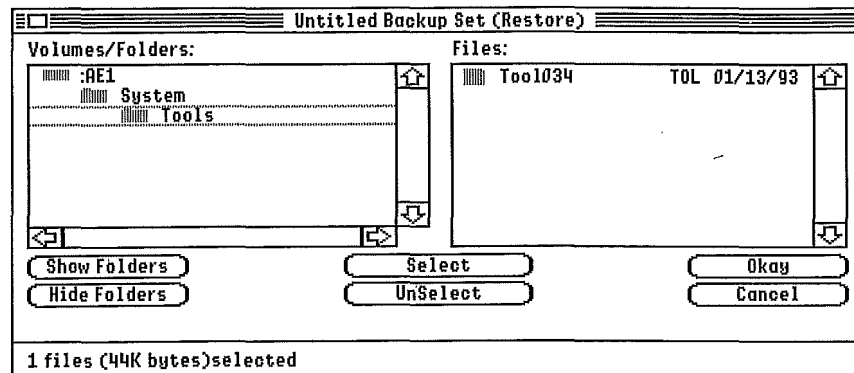
- Click "From 3.5" floppies."
- Click the "Okay" button.

If you are using tapes [NOTE: the "SCSI Tapes" option only appears if you have a SCSI Tape Drive installed.]

- Click "From SCSI Tapes."
- Click the "Okay" button.

Salvation-Bakkup now displays a dialog box almost identical to the backup Volumes/Folders selection dialog box (Fig. 3.7).

[Figure 3.7]



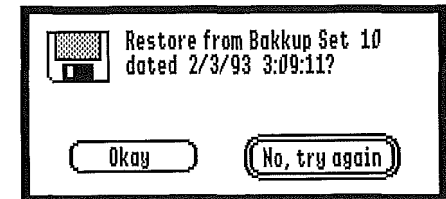
The only differences to note are that the "Group Select" button is missing, and that the title has changed. Salvation-Bakkup displays the descriptive name of the backup set in the caption bar of the dialog box.

Selecting volumes, folders, and files is identical to that of backing up. Let's restore "Tool034" from the backup set we just made.

- Insert the catalog disk. Salvation-Bakkup automatically determines when the disk is inserted.

Salvation-Bakkup first displays a dialog box containing the date that the backup set was made. It also allows you to specify which backup set to use (Fig. 3.8).

[Figure 3.8]



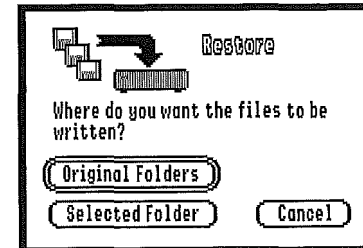
- If the date of the backup set is incorrect, click the "No, Try Again" button. Salvation-Bakkup will eject the disk and allow you to insert a different catalog disk.

- If the date is correct, click the "Okay" button. [Figure 3.9]

Salvation-Bakkup now displays a dialog box prompting you to specify where you would like the files to be written (Fig. 3.9).

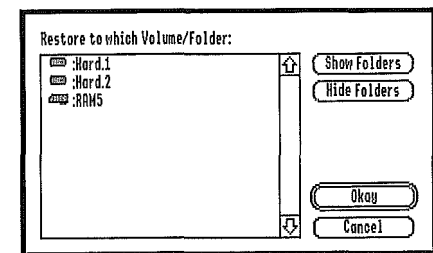
If you would like the files written to their original folders, click on "Original Folders" button.

If you would like the files to be written to a folder that is different from the original folder, click the "Selected Folder" button. Salvation-Bakkup then displays the dialog box that allows you to specify where the files should be written (Fig. 3.10)



You may choose to restore the files to a different volume than that of the original volume.

[Fig. 3.10]



- Highlight the volume.
- Click the "Okay" button.

You may also choose to restore the files to a different folder on the same volume.

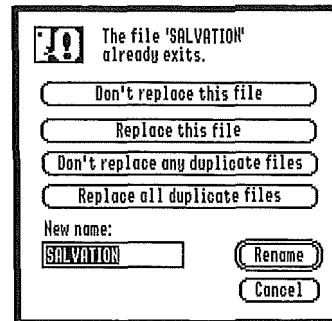
- Highlight the volume.
- Click the "Show Folders" button.
- Highlight the folder.
- Click the "Okay" button.

Salvation-Bakkup now prompts you to insert the first disk. As it finishes reading

each disk, it will automatically prompt you for the next disk until each disk in the set has been read.

[Fig. 3.11]

If a file already exists in the target location, Salvation-Bakku displays a dialog box allowing you to replace or rename the file. (Fig. 3.11)



- The "Don't replace this file" button skips the file and continues on to the next one.
- The "Replace this file" button overwrites the file.
- The "Don't replace any duplicate files" button automatically skips any duplicate files.
- The "Replace all duplicate files" button automatically overwrites duplicate files.
- The "Rename" button allows you to restore the files from the backup set with a different name than the original. Simply enter the new file name and click the "Rename" button.
- The "Cancel" button immediately stops the restore process and returns to your desktop.

If you are using 3.5" floppy disks

Salvation-Bakku now prompts you to insert the first disk. As it finishes reading each disk, it will automatically prompt you for the next disk until each disk in the set has been read.

If you are using tapes

Salvation-Bakku automatically begins reading data from the first tape. It will automatically prompt you to insert the next tape in the backup set as necessary until each tape has been read.

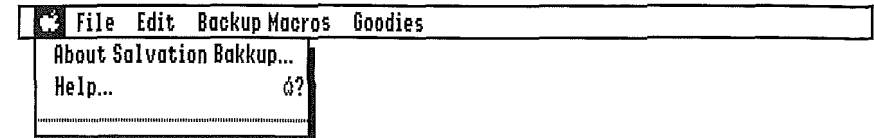
That's all there is to backing up and restoring data.

SECTION 4 — BAKKUP FEATURES

This section describes the features in Salvation-Bakku and how to use them.

Apple Menu

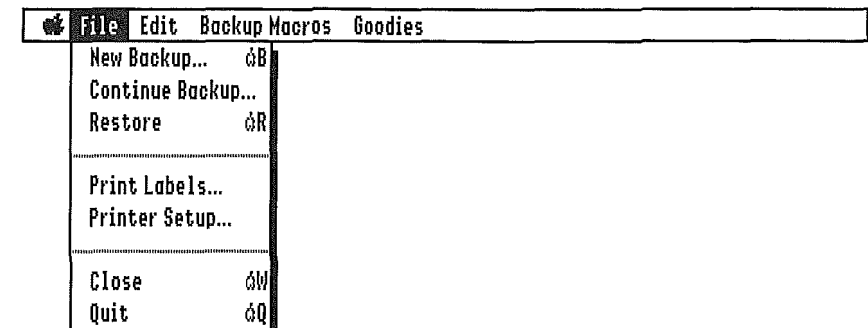
[Figure 4.1]



- "About Salvation-Bakku..." displays a dialog box containing the version number and copyright information. It's the same dialog box that's displayed when you first start Salvation-Bakku. (Figure 4.1)
- "Help..." displays summary information for Salvation-Bakku. It opens an edit window that allows you to scroll through various topics related to Salvation-Bakku.

File Menu

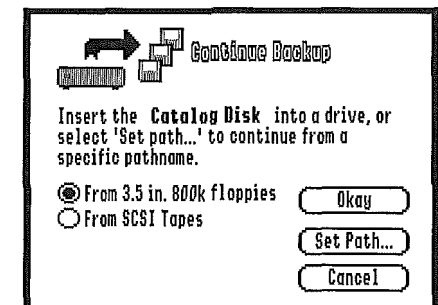
[Figure 4.2]



- "New Backup..." begins the backup process. It displays the Volume/Folder selection dialog box allowing you to select which folders and files to backup. (Fig. 4.2)

- "Continue Backup..." continues the backup process where it left off. You may only use this option if the backup process was completed with a

[Figure 4.3]



catalog. Salvation-Bakkup first displays a dialog box prompting you to insert the catalog disk (Fig. 4.3).

To continue the backup process with 3.5" floppy disks

- Click "From 3.5" floppies."
- Click the "Okay" button.

To continue the backup process with a tape drive

- Click "From SCSI Tape Backup."
- Click the "Okay" button.

To continue the backup process from a GS/OS pathname

- Click the "Set Path" Button.
- Locate and highlight the backup set in the scroll list.
- Click the "Okay" button.

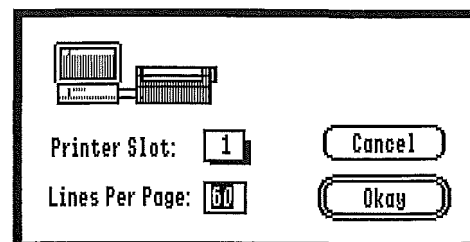
The backup process automatically resumes where it left off.

- "Restore" begins the restore process. It displays the volume/folder selection dialog box allowing you to select which folders and files to restore.
- "Print Labels" prints disk labels for 3.5" floppy disks. This feature is described in detail in Section 5.
- "Printer Setup..." sets up the printer for printing labels (Fig. 4.4).

[Figure 4.4]

You may specify the slot that your printer is attached to and the total number of lines that will fit on a page.

- "Close" closes the window currently open on the desktop.



- "Quit" shuts down Salvation-Bakkup and returns to the launching application.

Edit Menu

[Figure 4.5]

Applications designed to follow standard GS/OS desktop guidelines must

File	Edit	Backup Macros	Goodies
	Undo	⌘Z	
	Cut	⌘X	
	Copy	⌘C	
	Paste	⌘V	
	Clear		
	Select All	⌘A	

provide an Edit menu entry containing "Undo," "Cut," "Copy," "Paste," "Clear", and "Select All". Applications are free to make all, some, or none of these options available as appropriate. Salvation-Bakkup disables all of these options except for "Select All." (Fig. 4.5)

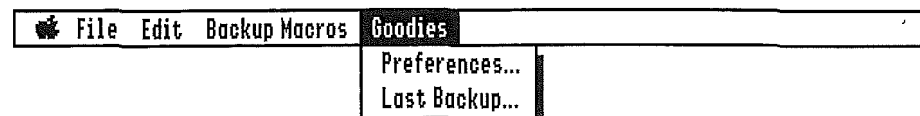
- "Select All" immediately selects all highlighted files during a backup or restore operation.

Backup Macros Menu

[Figure 4.6]

The Backup Macros menu provides ten user-defined macros. Macros are a sequence of key strokes and mouse clicks that instruct Salvation-Bakkup to perform certain operations. This feature is described in detail in Section 5. (Fig 4.6)

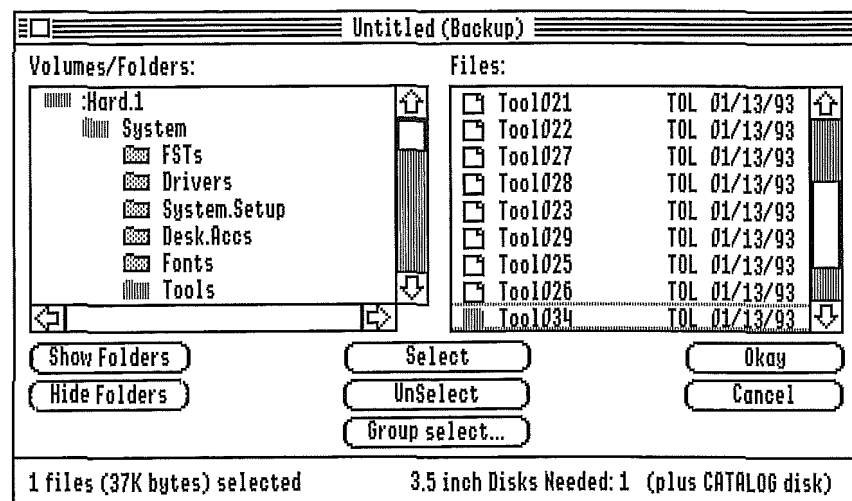
File	Edit	Backup Macros	Goodies
		undefined macro	⌘0
		undefined macro	⌘1
		undefined macro	⌘2
		undefined macro	⌘3
		undefined macro	⌘4
		undefined macro	⌘5
		undefined macro	⌘6
		undefined macro	⌘7
		undefined macro	⌘8
		undefined macro	⌘9



- “Preferences...” displays the Preferences dialog box allowing you to enable or disable certain features in Salvation-Bakkup. This feature is described in detail in Section 5. (Fig. 4.7)
- “Last Backup...” displays the date and time that the last backup was performed.

The Volume/Folder selection dialog box

[Figure 4.8]



The Volume/Folder selection dialog box allows you to specify which volumes, folders, and files for backup (Fig. 4.8). There are two scroll lists associated with this dialog box. The scroll list on the left-hand side displays the volumes and folders. The scroll list on the right-hand side lists the files in the currently highlighted folder.

Please Note that Salvation-Bakkup only displays hard drive, ROM drive, or ram drive volumes. It does not display any on-line floppy disk drives for backup.

In the lower left-hand corner, Salvation-Bakkup displays the total number of

files, and the total number of bytes selected for backup. In the lower right-hand corner, Salvation-Bakkup displays the total number of floppy disks required.

NOTE: If you use a high-density disk drive, or enable the compression feature the number of disks required will be significantly reduced.

When the dialog box is first displayed, all the buttons except for “Cancel” are dimmed. They are activated as soon as a volume, folder, or file is highlighted.

The “Show Folders” and “Hide Folders” buttons are never active at the same time. When the “Show Folders” button is active, the “Hide Folders” button is inactive. Likewise, when the “Hide Folders” button is active, the “Show Folders” button is inactive.

The “Okay” button remains inactive until a volume, folder, or file is selected for backup.

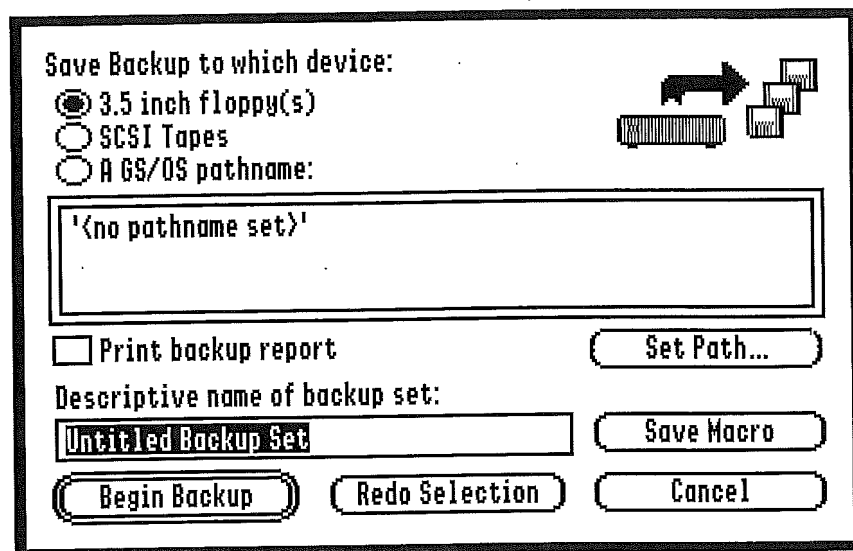
- The “Show Folders” button displays all the folders for the currently highlighted volume. All the folders are displayed in the left-hand scroll list.
- The “Hide Folders” button hides the display of folders and displays a list of on-line volumes.
- The “Select” button selects the currently highlighted item for backup. This item may be a volume, a folder, or a file. Salvation-Bakkup displays selected items with a gray icon.
- The “UnSelect” button unselects the currently highlighted item. The item may be a volume, a folder, or a file. Salvation-Bakkup displays items not selected with a hard drive, folder, or file icon.
- The “Group Select” button allows you to select a specific group of files. This feature is described in detail in section 5.
- The “Okay” button begins the process of reading and writing files.
- The “Cancel” button stops the backup process and returns to the desktop.

Specifying the backup destination

You may specify a 3.5" floppy disk drive, a 5.25" floppy disk drive, a SCSI Tape

Bakkup drive, or a GS/OS pathname as the backup destination. Salvation-Bakkup automatically determines which components are available on your computer. (Fig. 4.9)

[Fig.4-9]



Note: Salvation-Bakkup displays those devices it detects on your system. This list will vary with individual configurations.

The dialog box also allows you to give your backup set a descriptive name. This name is useful in locating a specific backup set. You may enter any description you wish, up to 31 characters.

The "Print backup report" feature prints out a list of all files in the backup set.

- The "Begin Backup" button begins the process of reading and writing files.
- The "Redo Selection" button returns you to the Volume/Folder selection dialog. This allows you to modify the selection of volumes, folders, and files before continuing with the backup process.
- The "Set Path..." button allows you to select a GS/OS pathname to contain the backup set. This button is inactive until you click "A GS/OS Pathname:".

- The "Save Macro" button saves a group of selections and pathnames as a macro. This feature is described in detail in Section 5.
- The "Cancel" button stops the backup process and returns to the desktop.

To backup to 3.5" floppy disks

- Click "3.5 inch floppy(s)."
- Click the "Begin Backup" button.

To backup to a SCSI Tape Backup drive

- Click "SCSI Tapes."
- Click the "Begin Backup" button.

To backup to a GS/OS pathname

- Click "A GS/OS pathname:"
- Click the "Set Path..." button.
- Select the volume and folder for the backup.
- Specify the name of the file for the backup.
- Click the "Save" button.
- Click the "Begin Backup" button.

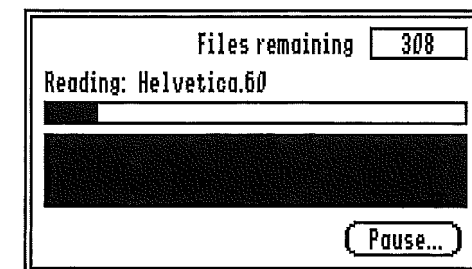
Pausing the backup operation

[Figure 4.10]

You may pause the backup operation at any time by clicking the "Pause..." button (Fig. 4.10).

Salvation then displays a dialog box indicating the current progress of the backup operation. (Fig. 4.11)

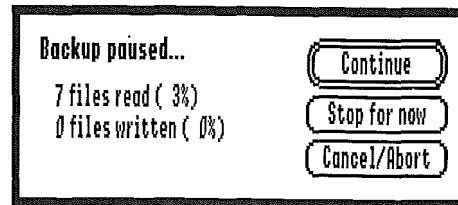
- The "Continue" button resumes the backup operation.



- The "Stop for now" button stops the backup operation and displays another dialog box (Fig. 4.12).

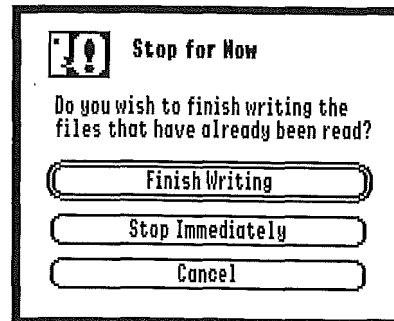
[Figure 4.11]

- The "Finish Writing" button completes any pending write operations. It then writes the catalog and returns to the desktop. You should select this option if you need to pause a backup operation but would like to continue where you left off later. You may select "Continue Backup..." from the "File" menu entry to resume the backup operation.



[Figure 4.12]

- The "Stop Immediately" button immediately stops the backup operation and returns to the desktop. However, it does not allow you to resume the backup operation later.
- The "Cancel" button returns to the previous dialog box allowing you to select a different option.



SECTION 5 — ADVANCED FEATURES

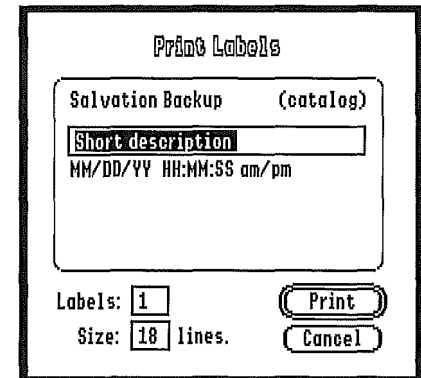
This section describes some of the more advanced features in Salvation-Bakkup including printing labels, selecting operations, creating macros, and group select.

Printing Labels

Salvation-Bakkup allows you to print labels for your 3.5" floppy disks. You should have 3.5" disk labels (Avery #424). You may select the Print Labels feature by selecting the "Print Labels..." menu item from the "File" menu entry. Salvation-Bakkup then displays a sample disk label (Fig. 5.1).

[Figure 5.1]

You may enter a short descriptive name for the backup set. Salvation-Bakkup will also print the current date and time on each label. The characters "MM/DD/YY" and "HH:MM:SS am/pm" indicates the format for the date and time as it will be printed on each label.



You may specify the number of labels that Salvation-Bakkup should generate. In addition to these labels, Salvation-Bakkup automatically creates a label for the catalog disk.

You may specify the number of lines for each label. The default 18 lines seems to be just about right for most 3.5" labels. However, the number of lines will vary from printer to printer.

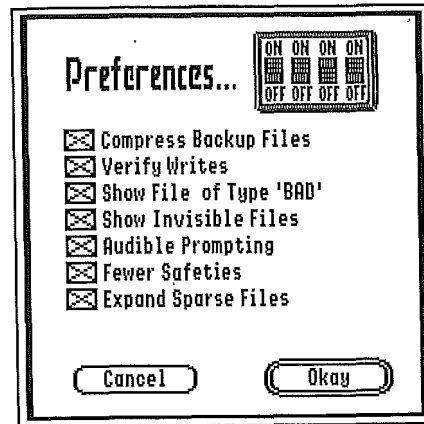
- The "Print" button begins the process of printing labels. Click this button after making any necessary changes.
- The "Cancel" button cancels the operation and immediately returns you to the desktop.

Preferences

Preferences are options that you may enable or disable. You may select preferences by selecting the "Preferences..." menu item from the "Goodies" menu entry. Salvation-Bakkup then displays the Preferences dialog box (Fig. 5.2).

[Figure 5.2]

- “Compress Backup Files” enables or disables compression. This feature can significantly reduce the number of disks required. However, it also reduces the speed with which Salvation-Bakkup writes files.
- “Verify/Writes” ensures the accuracy and validity of the data as they are written to 3.5" floppy disks. This virtually eliminates the probability of corrupted or invalid data. However, it also reduces the speed with which Salvation-Bakkup writes files.
- “Show Files of Type ‘BAD’” displays files that have a file type of “BAD” and allows them to be selected for backup. However, various utility programs categorize files as “BAD” for a number of reasons making the contents of them file highly suspect. We recommend that you do not include file of type “BAD” in your backup sets. Rather, copy these files as necessary using conventional copy utilities.
- “Audible Prompting” prompts you by generating a short tone on the Apple IIgs' internal speaker. You'll hear this prompt when you need to change disks.
- “Fewer Safeties” disables some of the warning dialog boxes. In particular, it disables the warning dialog box that a disk already contains data before it's overwritten by Salvation-Bakkup. We recommend that you always have this option enabled to ensure that you don't accidentally overwrite or format over important data.
- “Expand Sparse Files” disables Sparse File Packing. This feature is described in detail in section 1.



Backup Macros

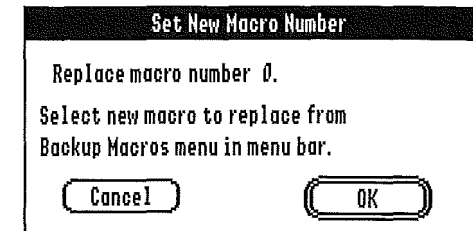
Macros store a collection of user selections and file/path names associated with a specific backup operation.

Saving macros

You may save a backup macro by clicking the “Save Macro” button in the Backup Destination dialog box (Fig. 4.9). Salvation-Bakkup then displays the Save Macro dialog box (Fig. 5.3).

[Figure 5.3]

Macros are stored in cells in the “Backup Macros” menu entry. Each cell stores a single macro. Salvation-Bakkup activates those cells that contain a macro, and deactivates those cells that are undefined.



- Highlight a cell to hold the new macro. You may only select those cells that are active. You may select a new cell or an existing one.
- Click the “Okay” button to store the new macro in the selected cell. Salvation-Bakkup then stores all volume, folder, file, and group selections as a macro in the selected cell.
- Click the “Cancel” button to cancel saving the macro, and return to the Volume/Folder Selection dialog box.

Selecting macros

You may select a macro by highlighting its cell from the “Backup Macros” menu entry. You may also press the OPEN-APPLE key and the number of the desired macro. For example, if you press the OPEN-APPLE + 0 key combination, you would select the macro stored in the first cell.

Salvation-Bakkup then displays the Volume/Folder selection dialog box with the volume, folder, file, or group selections stored in the macro. You may select additional volumes, folders, and files if you wish.

- Click the “Okay” button to begin the backup process.
- Click the “Cancel” button to abort the backup process.

Group Select

Group select allows you to select additional files or to replace current selections

as a group. You may choose "Group Select" by clicking the "Group Select" button on the Volume/Folder selection dialog box. Salvation-Bakkup then displays the Group Select dialog box (Fig. 5.4).

[Figure 5.4]

- The "Add files modified since last backup" radio button selects all files that were modified since the last backup. It selects files with the "Needs backup" attribute bit set.
- The "All application files" radio button selects all application files for backup.
- The "All document files" radio button selects all document files for backup.
- The "All files" radio button selects all files for backup.
- The "Reset 'Backup Needed' Bit" radio button instructs Salvation-Bakkup to either reset the "Backup Need" attribute bit or to leave it alone.
- The "Add to Selection" button adds a selected group to volume, folder, or file selections made previously in the Volume/Folder selection dialog box.
- The "Replace Selection" button replaces a volume, folder, and file selection with the selected group.
- The "Cancel" button aborts the group select process and returns to the

Volume/Folder selection dialog.

On the right-hand side of the Group Select dialog box, you may enter a file name, a file type, an Auxiliary Type, the Date Created, and the Date Modified. These entries may apply to a specific file or to a group of files. You may enable any of the following file characteristics by clicking the radio button next to its entry:

- The "Name" locates files by their file name. You may enter a specific file name or you may enter wildcard characters. Enter an asterisk (*) character for multiple unknown characters, or a question mark (?) for a single unknown character.
- The "Type" locates files by their file type. You may enter any valid file type in either hexadecimal notation (e.g., \$06), or you may use its mnemonic equivalent (e.g., BIN).
- The "Aux Type" locates files by their auxiliary type. You must enter numbers in hexadecimal notation (e.g., \$0010).
- "Created" locates files by the date that they were created. You must enter a date in the format "MM/DD/YY" where MM is a two digit month, DD is a two digit day, and YY is a two digit year. In addition, you may specify that Salvation-Bakkup should search for files created on the specified date, before the specified date, or after the specified date.
- "Modified" locates files by the date that they were modified. You must enter a date in the format "MM/DD/YY" where MM is a two digit month, DD is a two digit day, and YY is a two digit year. In addition, you may specify that Salvation-Bakkup should search for files modified on the specified date, before the specified date, or after the specified date.

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