

When you haven't got the time  
we've got the answer!

**RAMUP™**

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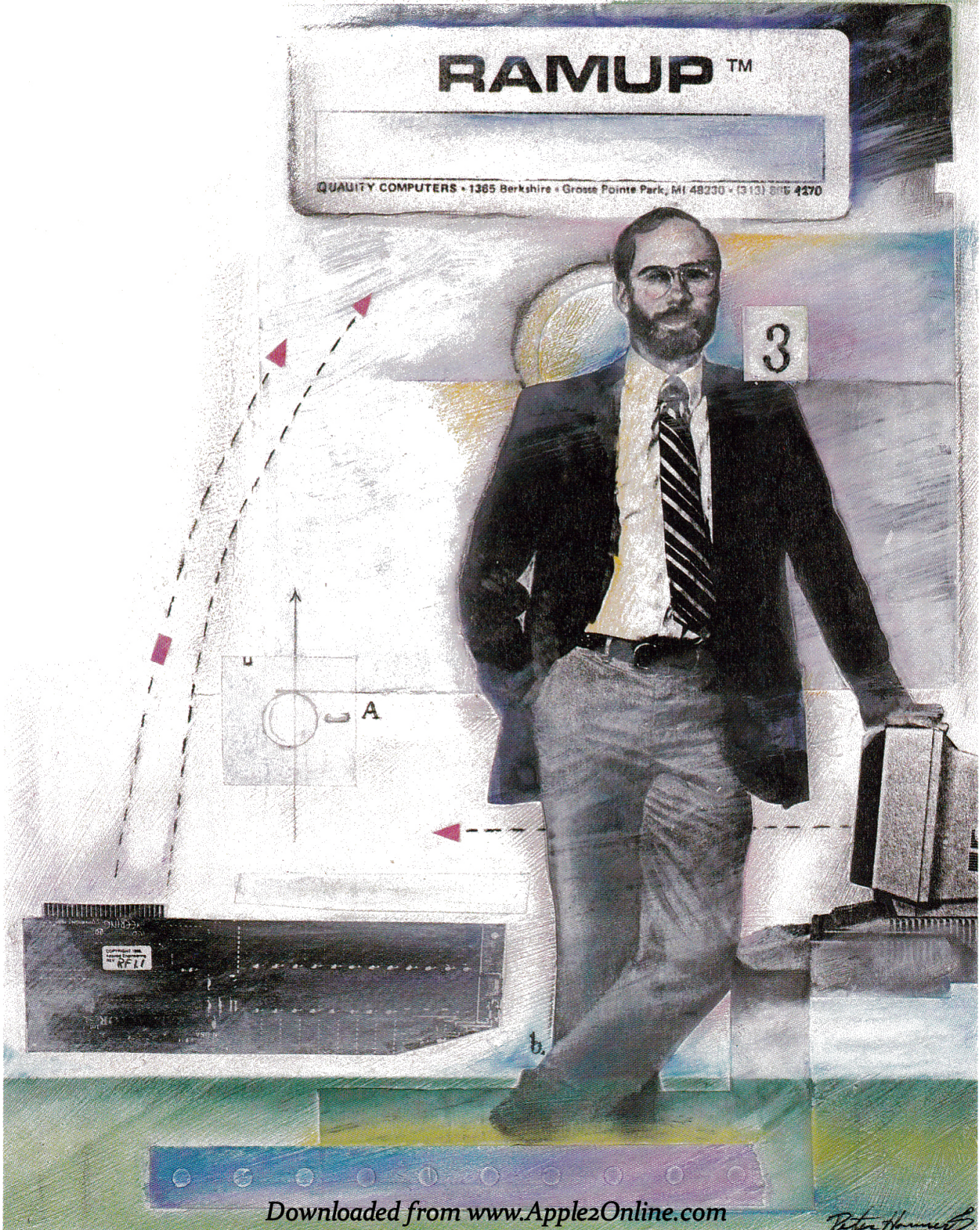
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*Peter H. ...*



## RAMUP 4.0

**DEAR CUSTOMER:**

**RAMUP 4.0 is finally here!** Thank you for your patience. We experienced a number of unexpected delays; we felt that you would rather wait for a fully tested product.

With your RAMUP 4.0 disk we have included a manual on the ProDOS hard disk that contains good information about disk organization and ProDOS. You should find it useful whether you have a hard disk or not.

Because of last minute problems with the printer, the RAMUP manual is in 8 1/2 x 11 format. You should have received pages 1 through 12. Again, we chose to use this format to prevent any further delay.

We apologize for the wait and **THANK YOU** for purchasing RAMUP. Please let us know how you like it and any comments you may have.

**THANK YOU,**

**Quality Computers**

P.S. The high cost of memory chips continues. If you are considering adding memory, we would like to talk to you about **HARD DISK** drives - 20 MEG of hard disk storage costs slightly more than 1 MEG of RAM! Now that you have the best RamCard software - RAMUP - for the ultimate in speed, storage, and convenience at the most economical cost, consider adding a hard disk with Easy Drive from Quality Computers.

**- RAMUP on your RamCard + Easy Drive on a Hard Disk -**

Give us a call for a hard disk with Quality Computers' **Easy Drive** software at 1-800-443-6697.

# RAMUP 4.0

## WELCOME to RAMUP

Thank you for purchasing RAMUP. RAMUP is a convenient and time saving utility that makes loading and using your RamCard easier and faster. Your comments about RAMUP are welcome. Please let us know how you like it and what additions, enhancements, or changes you would like to see. We are proud of RAMUP and hope you enjoy using it.

## WHAT IS RAMUP

RAMUP is a complete software interface for your RamCard that does the following:

- 1) Loads itself and then loads your favorite ProDOS application programs to your RamCard.
- 2) Provides a program selector enabling you to quickly switch between applications on your RamCard.
- 3) Provides you with status information and partitioning to manage your RamCard storage space.
- 4) Autoloads your RamCard from disk if desired.
- 5) Backup/Restore your RamCard to disk if desired.

The full capabilities of RAMUP are explained in the following pages. Please read them carefully to get the maximum potential of RAMUP.

## BEFORE WE BEGIN:

Before describing RAMUP, we make the following assumptions:

- 1) You have a RamCard (Applied Engineering, Checkmate, or Apple Compatible) with at least 512K.
- 2) You have a functional knowledge of ProDOS, your computer, and your RamCard.
- 3) You have a 5 1/4" floppy drive for your RAMUP disk.
- 4) You have given some thought to the applications to be installed on your RamCard.

If any of these assumptions about you are incorrect then you should begin by reading your computer, ProDOS, and RamCard manuals. For questions about RAMUP, you may call our technical support line at (313) 331-1115.

## OVERVIEW

We have included many options with RAMUP so that it can be customized to meet your needs. To get started we recommend that you follow these five steps with one application:

**Step 1.** Configure RAMUP so that it knows what hardware you're working with. See "INSTALLING RAMUP"

**Step 2.** Use the utilities menu to create a data file for your RamCard applications. See "RAMUP UTILITIES"

**Step 3.** Use RAMUP to load applications to your RamCard. See "RAMUP MAIN MENU"

**Step 4.** Use RAMUP to switch between applications loaded on your RamCard. See "RAMUP MAIN MENU"

**Step 5.** Once you have become familiar with RAMUP you can customize it to meet your particular requirements through RAMUP's many utilities and options. See "RAMUP UTILITIES."

## RAMUP 4.0

This manual is divided into the following sections:

**INITIAL INSTALLATION** - This section tells you how to begin with the RAMUP disk.

**RAMUP MENU SCREENS** - This section describes each of the menu screens and how to use them.

**ADDITIONAL INFORMATION** - This section provides you with definitions and notes to help you understand and maximize your use of RAMUP. It includes:

**"LOADING YOUR RAMCARD" - "ABOUT DATA.FILE" - "ABOUT COLD BOOT"**

### INITIAL INSTALLATION

NOTE: Whenever you are requested to make a keyboard response that requires pressing a single key, that key name is enclosed in brackets. For example: <TAB> means press the tab key and < y > means press the "y" key (either upper or lower case).

- 1) Insert the **RAMUP** diskette into your 5 1/4" drive.
- 2) Boot the **RAMUP** diskette.

The RAMUP TITLE SCREEN will appear. Press < c > to configure RAMUP. Before you use RAMUP you **MUST** go through the following hardware configuration procedure.

The following questions (screen prompts) are asked to configure RAMUP:

- 1) Do you want **BASIC** loaded onto the **RAMDISK**?

Answer < y > or < n > and press <RETURN>. If you seldom use BASIC programs on your RamCard, answering no will save RamCard space.

- 2) Which of these volumes are **RAMDISKS**?

Use the up/down arrow keys to scroll, the left/right arrow keys to mark/unmark the volume(s) and press <ESC> to end selection. Answer < y > or < n > and press <RETURN>.

NOTE: RAMUP's main menu presents you with a percent-disk-used graphic so that you can visually see the amount of space available on your RamCard(s). The graphic will display the **TOTAL** space available for the combination of drives selected in question 2).

If you have selected more than one volume you will need to answer question 3). If you selected only one volume, question 3) will not appear.

- 3) Which of these volumes do you want **RAMUP** installed on?

Use the up/down arrow keys to scroll and press <RETURN>. If you have a battery backed RamCard, you should select it for this question.

## RAMUP 4.0

You will be presented with the RAMUP TITLE SCREEN. Press < u > to use RAMUP utilities. You will be presented with the RAMUP UTILITIES MENU. Use the up/down arrow keys to highlight "Add from Database" and press <RETURN>.

You will be presented with a text screen containing notes and a prompt allowing you to proceed or escape from this utility. Press < y > and <RETURN> to continue.

A menu of application listings from RAMUP's database will appear. Use the up/down arrows to scroll and the right/left arrow keys to mark/unmark the applications you want RAMUP to work with. You must add at least one application in order to use RAMUP. Press <ESC> and < y > to exit.

If the application(s) you want to work with are not included in the above menu, you may use "Add an undefined program" from the utilities menu to add a program that is not defined in the RAMUP database. Please see RAMUP UTILITIES to use "Add an undefined program."

You are creating DATA.FILE which can contain a maximum of 26 listings. See DATA.FILE for more information.

You will be returned to the RAMUP UTILITIES MENU. Select "Exit to RAMUP" and press <RETURN> to begin using RAMUP.

Your INITIAL INSTALLATION is complete. The following text describes RAMUP's menus and the steps necessary to customize RAMUP to meet your needs.

### RAMUP MENU SCREENS

#### RAMUP TITLE SCREEN

The upper portion of the TITLE SCREEN will list all slots on your computer and the cards installed in those slots.

The lower portion of the screen presents the following options:

**[RETURN] to enter RAMUP**  
**[B] to enter Basic**  
**[F] to use Filer**  
**[C] to Configure RAMUP**  
**[U] to use the Utilities**  
**[R] to Restore a Volume**

The TITLE SCREEN will be presented each time you boot the RAMUP disk or run RAMUP from the drive where you have installed it. The options work as follows:

#### **[RETURN] to enter RAMUP**

If your RamCard has not been loaded, pressing <RETURN> will load the RAMUP files from the RAMUP disk to the drive (RamCard) you selected during INITIAL INSTALLATION above. If your RamCard has been loaded, pressing <RETURN> will display the RAMUP MAIN MENU. The MAIN MENU is explained below under RAMUP MAIN MENU.

NOTE: If you previously saved an auto-load configuration, your application files are loaded at this time.

## RAMUP 4.0

### **[B] to enter Basic**

Pressing < b > will take you to BASIC. When you exit Basic by typing "BYE" you will be returned to the TITLE SCREEN.

### **[F] to use Filer**

Filer is APPLE's utility for files. Please refer to the instruction manuals you received with your Apple Computer for instructions about Filer.

### **[C] to Configure RAMUP**

Pressing < c > will present the series of configuration screens explained above in INITIAL INSTALLATION. This option allows you to reconfigure RAMUP as desired.

### **[U] to use the Utilities**

Pressing < u > will present the RAMUP utilities menu. The utilities are on the reverse side of the disk - you will have to turn the disk over. RAMUP utilities are explained below under RAMUP UTILITIES.

### **[R] to Restore a Volume**

Pressing < r > will allow you to Restore a previously backed-up RamCard. Use the up/down arrow keys to highlight Restore and press <RETURN>.

NOTE: Restore and Backup are also on the RAMUP main menu. The usual procedure is to restore from this screen - the TITLE SCREEN - and backup from the MAIN MENU. Restore and Backup are explained in RAMUP MAIN MENU section.

## **RAMUP UTILITIES**

The RAMUP UTILITIES menu contains the following options:

- Add from RAMUP Database**
- Add an Undefined Program**
- Delete a Program**
- Modify a Program**
- Convert 3.0 Program**
- Partition a RamCard**
- View the Help Files**
- Put RAMUP on other disk**
- Exit to Title Screen**

Highlight the option you wish to use with the up/down arrow keys and press <RETURN> to select the option.

## RAMUP 4.0

### Add from Database

"Add from Database" allows you to add applications to DATA.FILE. Please see DATA.FILE for more information.

When you first enter "Add from Database" you will be presented with a text screen containing notes and a prompt allowing you to proceed or escape from this utility. Press < y > and <RETURN> to continue.

You will be presented with the application listings from RAMUP's database. Use the up/down arrows to scroll and the right/left arrow keys to mark/unmark the applications you want RAMUP to work with. Press <ESC> and < y > to exit.

Remember that you are creating or modifying DATA.FILE which can contain a maximum of 26 listings. See DATA.FILE for more information.

### Add an Undefined Program

"Add an undefined Program" allows you to add program listings to DATA.FILE that are not a part of RAMUP's database. The process consists of 6 steps.

**Step 1:** When you first enter "Add an undefined Program" you will be presented with a text screen containing notes and a prompt allowing you to proceed or escape this utility. Press < y > and <RETURN> to continue.

**Step 2:** Type in a program name as you want it to appear on the MAIN MENU.

If you have more than one RamCard, use the left/right arrow keys to select the volume where RAMUP will load this application. If NONE is selected RAMUP will select the first RamCard with adequate space to load the application.

Use the left/right arrow keys to select the video mode for this application. See your application manual for the correct mode. Graphics programs should normally be 40 columns.

**Step 3:** Insert the SOURCE volume and then press <ESC> to continue. The SOURCE volume is the disk that contains the application's files. Use the up/down arrow keys to highlight the SOURCE drive or select "Specify a path" to enter the path to the application files. Press <RETURN> to select the volume, <ESC> to continue.

**Step 4:** Type in a target subdirectory name for the application files. RAMUP will create this subdirectory on your RamCard and then copy the application files into it during the loading process. If you selected "NONE" in step 2:, the volume destination will default to "/VOLUMENAME/". This only means that RAMUP will select the volume for you. Press <ESC> to continue.

**Step 5:** You will be presented with a list of files on the SOURCE volume. Use the up/down arrow keys to scroll and right/left arrow keys to mark/unmark all the files required by your application. Press <ESC>, answer < y > and <RETURN> to continue.

**Step 6:** Use the up/down arrow keys to scroll and <RETURN> to mark the executable (system) file for this application. If no executable file exists for this application, press <ESC>, answer < y > and press <RETURN> to continue.

## RAMUP 4.0

### Delete a Program

"Delete a Program" allows you to remove application listings from DATA.FILE so that you can make space available for other listings.

When you first enter "Delete a Program" you will be presented with a text screen containing notes and a prompt allowing you to proceed or escape from this utility. Press < y > and <RETURN> to continue.

Use the up/down arrow keys to scroll and right/left arrow keys to mark/unmark applications to be deleted. Press <ESC>, answer < y >, and press <RETURN> to complete deleting.

NOTE: If you delete all application listings RAMUP will return you to the utilities menu where you MUST add at least one application before you can enter RAMUP.

You have changed DATA.FILE. Please see "DATA.FILE" for more information.

### Modify a Program

"Modify a Program" allows you to edit program listings in DATA.FILE. The process consists of 4 steps.

**Step 1:** When you first enter "Modify a Program" you will be presented with a text screen containing notes and a prompt allowing you to proceed or escape from this utility. Press < y > and <RETURN> to continue.

**Step 2:** You will be presented with the application listings from DATA.FILE. Use the up/down arrow keys to highlight an application. Press <RETURN> to select.

**Step 3:** Use the up/down arrow keys to scroll through the fields you wish to edit. The fields are:

- Title: you may type in a new program title.
- Autoload: use the left/right arrow keys to toggle. If you select YES, this program will become part of your auto-load configuration.
- Volume: use the left/right arrow keys to toggle. If you have more than one RamCard, volume Preference preference allows you to select the volume where this program will be loaded. If you select NONE, RAMUP will select for you.
- Video mode: use the left/right arrows to toggle. Graphics programs should be set to 40 columns. See your application manual.
- Length: This field is used by the percent-disk-used graphic. Type in the appropriate length in blocks.

Press <ESC> when you are finished editing this screen.

**Step 4:** You will be presented with another field edit screen. Use the up/down arrow keys to toggle through the fields. You may type in source and target pathnames for this application's files.

You may rename any of the application's files. You cannot add or delete files from the definition on this screen. If you want to add or delete files you must exit this utility, use "Delete a Program" to delete this application, and then use "Add an Undefined Program" to create a definition with the files of your choice.



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Use the <TAB> key to toggle between application filename and the application type column (T). Three application types are allowed. Use the spacebar to toggle.

- E - this is the executable file for this application. You may not select more than one "E" file. Some applications like TimeOut do not require an "E" file.
- F - files marked "F" are indications to RAMUP that they must be copied to the RamCard for the application to be run from the MAIN MENU.
- ? - Files marked "?" are copied to your RamCard if available - that is - they are considered optional by RAMUP.

If additional files exist within the definition, similar screens will follow. Press <ESC> when you are finished editing this screen.

### Partition a RamCard

There are two types of RamCards. One type can be partitioned, the other cannot. For partitionable RamCards - Zram, Ramworks, Multiram - RAMUP supplies a ramdisk driver.

RAMUP senses the type of RamCard you're using and formats it if necessary. "Partition a RamCard" will allow you to allocate space between program memory and ramdisk. It's default is for expanded APPLEWORKS.

If you are using expanded APPLEWORKS you must follow the 3 steps below to create or change a partition. If you are creating a partition without expanded APPLEWORKS, use Step 2 only.

**Step 1:** Use the software that came with your RamCard to expand APPLEWORKS.

**Step 2:** Select "Partition a RamCard." Use the left/right arrow keys to select the partition size. We recommend 192K for program memory with expanded APPLEWORKS. You will be prompted to insert your APPLEWORKS disk. Press <RETURN> if you are using expanded APPLEWORKS, otherwise press <ESC>. Your RamCard is now partitioned.

**Step 3:** Install any APPLEWORKS enhancements -Time Out for example - on your APPLEWORKS disk.

NOTE: Expanded APPLEWORKS users - If you decide to change the partition or enhancements later you must always follow these 3 steps - EXPAND - PARTITION - ENHANCE.

### Convert 3.0 program

This utility is supplied for user's of RAMUP 3.0. It will allow you to copy the application listings you modified in 3.0 from the 3.0 DATA.FILE to 4.0's DATA.FILE. After using this utility you will need to use "Modify a Program" to add "Length of Program" to your copied 3.0 files.

Select "Convert 3.0 program." You will be prompted to insert your 3.0 disk. Use the up/down arrow keys to highlight the applications you wish to copy, right/left arrow keys to mark/unmark, and <ESC> to end selection and copy the listings. You will be prompted when to insert your RAMUP 4.0 disk.

### View the help files

Use this file to view text files containing additional information about RAMUP.

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### Put RAMUP on other disk

This utility allows you to install RAMUP on any connected drive - RamCard, removable disk, or hard disk.

NOTE: If you are using a battery backed RamCard in slot 7, this utility will make RAMUP bootable from the RamCard. You must first FORMAT the RamCard and then use this utility to install ProDOS and RAMUP.

Select "Put RAMUP on other disk." Use the up/down arrow keys to highlight the volume where RAMUP is to be installed and press <RETURN>.

You will be asked if you want ProDOS 8 installed along with RAMUP. Answer < n > or < y > and press <RETURN>. If the drive was formatted and you answer < y > the drive will be bootable.

You will then be asked if you want the utilities installed. Answering no will save space, but you will then have to insert the RAMUP utilities disk to run the utilities.

### Exit to Title Screen

Select to return to the Title Screen.

### MAIN MENU

The main menu appears after "[RETURN] to enter RAMUP" is selected from the TITLE SCREEN. It is divided into left and right halves. The right half shows you how much of the selected drives are currently in use. Below the percent-disk-used graph is a list of the drives (volumes) you selected in the configuration procedure along with the number of blocks free for each volume.

The left side of the MAIN MENU will initially contain the following options:

- \* Add an Application
- \* Delete an Application
- \* Save Auto-load config
- Filer
- Backup/Restore
- Boot (drive #)
- Boot (drive #)

To select options in the MAIN MENU use the up and down arrow keys to highlight your choice and press <RETURN> to execute the choice.

## RAMUP 4.0

### \* Add an Application

"Add an Application" is used to load applications to your RamCard and then list those applications on the MAIN MENU. Please see "LOADING YOUR RAMCARD" for additional information.

Highlight "\*\*Add an Application" with the up/down arrow keys and press <RETURN>. The right side of the screen will present a menu of application programs.

The menu of application programs is from DATA.FILE. Please see DATA.FILE for more information.

The up/down arrow keys will scroll through the menu while the right/left arrow keys will mark/unmark the applications you wish to load to your RamCard.

As you mark/unmark applications for loading, the percent-disk-used graph at the top right of the screen will estimate how much of your disk will be used when loading is completed. When you have selected all the applications you want RAMUP to load press <ESC> and answer < y > to begin loading your RamCard.

The prompt at the bottom of the screen will ask you to enter the complete path to your application files. The default prompt is the name of the volume as it came from the publisher. Insert your original application disks (or copies with the same volume name) for the applications being loaded and press <RETURN>. RAMUP will prompt you when to insert each application disk.

NOTE: When RAMUP prompts for files, it does so with complete pathnames. As an example: to load AppleWorks from a 5 1/4" diskette RAMUP must get files from both sides of the diskette. The initial prompt to load AppleWorks will ask for the volume named /APPLEWORKS/. Insert side 1 of your AppleWorks diskette and press return. After copying the files from side 1, RAMUP will ask for the next file by complete pathname; /APPLEWORKS/SEG.M0 for example. Turn your diskette over and press <RETURN> to complete loading.

RAMUP expects the application disks to have their original volume names - /APPLEWORKS/ for example. If you have copied your application's files to disks with other volume names or into subdirectories, the prompt at the bottom of the screen will ask you to enter the complete pathname to the application files.

NOTE: The path you enter must begin and end with a "/" - /HARD1/APPLEWORKS/ for example.

If a copy error occurs make a note of the file name and the error and press any key to continue. You can use the Filer program to copy the file later, if necessary.

"\*\* Add an Application" will create subdirectories on your RamCard, copy the application program files to that subdirectory, and add the application(s) name to the RAMUP MAIN MENU. You may now highlight the application on RAMUP's MAIN MENU, press <RETURN> and begin. When you exit the application you will be returned to the MAIN MENU where you can then switch to other loaded applications.

## RAMUP 4.0

### \* Delete an Application

"Delete an Application" will remove the application files from your RamCard and remove the application name from the MAIN MENU.

From the main menu highlight "Delete an Application" and press <RETURN>. The right side of the screen will display the applications you may delete. Use the up/down arrow keys to scroll and right/left arrow keys to mark/unmark the applications you wish to delete. Press <ESC> to end selection and answer < y > to complete deleting the application(s). You will be returned to the main menu.

### \* Save Auto-load config

"Save Auto-load config" will allow you to save the current MAIN MENU. The next time you cold boot RAMUP, you will not have to use "Add an Application" to load your RAMCARD.

### Filer

"Filer" is APPLE's utility for files. Please refer to the instruction manuals you received with your Apple Computer for instructions about Filer

## BACKUP/RESTORE

Highlight "BACKUP/RESTORE" and press <RETURN>. Use the up/down arrow keys to highlight BACKUP or RESTORE and press <RETURN>.

If you select the backup option the menu will ask you to select the SOURCE drive (the drive to be backed up).

Use the up/down arrows to highlight the SOURCE volume (your RamCard) and press <RETURN>. The menu will then ask you for a DESTINATION drive. Enter the DESTINATION slot and drive number.

NOTE: About 7 - 5 1/4" diskettes or 1.25 - 3 1/2" diskettes are required per megabyte of RamCard to be backed up. Diskettes MUST be formatted before being used for backup. Be sure you have enough FORMATTED diskettes on hand before beginning.

Backup will create a file or files on the DESTINATION drive called "Backup.disk.1" for the first disk, "Backup.disk.2" for the second, etc. Label your disks carefully. You will need to insert them in the correct order to restore.

If you select the restore option the menu will ask you for a SOURCE slot and drive number (the place where you will insert your disks (Backup.disk.1, Backup.disk.2, etc). You will then select the DESTINATION slot and drive number for your RamCard. A prompt at the bottom of the screen will tell you which disks to insert in the SOURCE drive and when.

**WARNING:** Restore will overwrite all files on the DESTINATION disk. Make sure you have copied or backed up the current files on the DESTINATION before restoring.

## RAMUP 4.0

### **BOOT # - (Re-boot from any drive)**

When RAMUP starts it looks at all available drives and lists them at the bottom of the RAMUP main menu. The number of listings depends on how many drives your computer has installed. Highlight any drive, press <RETURN>, and your computer will re-boot using the highlighted drive.

NOTE: It is assumed by RAMUP that all connected drives are bootable. Some are not on certain computers or may not contain disks with the appropriate files to boot. You may need to experiment with your particular computer system to determine which drives and disks can be booted. You can use <ctrl><open apple><reset> to re-boot the computer from the keyboard or PR# (where # is the drive you wish to boot) from the BASIC prompt "]".

### **ADDITIONAL INFORMATION**

#### **ABOUT COLD BOOT**

RamCards retain their files until a cold boot occurs. A cold boot means that the power is shut off to the RamCard. Battery backups (like Ramcharger) retain power - and therefore the files - on your RamCard even though you have shut off your main computer switch. In this manual when we refer to a cold boot, we mean power is removed from your RamCard.

A warm boot occurs when you boot or re-boot through keystrokes or programs. Things like <control><open apple><reset>, PR# from BASIC, and Boot # from RAMUP are examples of a warm boot. The files on your RamCard are NOT changed during a warm boot.

DATA.FILE is loaded to your RamCard when you first start RAMUP. When you modify DATA.FILE the copy on your RamCard is NOT changed. When you cold boot, the modified copy is now loaded to your RamCard.

#### **ABOUT DATA.FILE**

RAMUP provides a database that includes many popular application listings which RAMUP uses to load your RamCard. DATA.FILE is a subset of RAMUP's database which is loaded to your RamCard. Creating DATA.FILE is done to save valuable space on your RamCard.

DATA.FILE may contain a maximum of 26 application listings. If you wish to change DATA.FILE when 26 listings have previously been selected, you must first use "Delete a Program" to make room for the changes.

If you modify DATA.FILE through "Add from Database", "Delete a Program", "Modify a Program", or "Add an Undefined Program" you must replace the RamCard copy of DATA.FILE with the modified copy. Cold booting and then restarting RAMUP will load the modified DATA.FILE to your RamCard. If you have a battery backed RamCard, you may use Filer to copy the modified DATA.FILE to your RamCard.

## RAMUP 4.0

### LOADING YOUR RAMCARD.

RAMUP provides three methods to load your RamCard. They are:

1) Selecting applications each time you load your RamCard. From the TITLE SCREEN, press <RETURN> to enter RAMUP. RAMUP will be loaded to your RamCard and then the MAIN MENU will be displayed.

Select "Add an Application" from the MAIN MENU to display the menu of applications from DATA.FILE that you created. Select the applications that you wish to load.

When you have finished selecting applications, RAMUP will ask you to insert the disk(s) for each application selected. RAMUP will load each disk's files to your RAMCARD and add the application's name to the MAIN MENU.

You may now select any application name from the MAIN MENU to run and switch between applications on your RamCard.

2) Using "Save Auto-load config." If you use the same applications each time, you may want to use "Save Auto-load config." Once you set up the MAIN MENU through "Add an Application", select "Save Auto-load config." RAMUP will put the current configuration into a file so that the next time you could boot RAMUP the following will occur:

A) After the RAMUP files are loaded, you will be prompted to insert the application disk(s) for each application.

B) After the applications are loaded, the MAIN MENU is presented as you saved it. You are now ready to use your RamCard.

You may still use "Add an Application" to load applications that were not part of auto-load.

"Save Auto-load config" is especially useful if you want to load your RamCard from a 3.5" disk. Use the following steps:

A) Copy your applications into subdirectories on the 3.5" disk.

B) Use "Modify a Program" from the RAMUP utilities to tell RAMUP the paths to each application on the 3.5" disk.

C) After you have set up the MAIN MENU, select "Save Auto-load config."

The next time you could boot RAMUP it will load itself, load your applications from the 3.5" disk, and then present you with the MAIN MENU as you saved it. You are now ready to use your RamCard.

3) Using Restore. Before shutting down your computer select Backup/Restore from the MAIN MENU. Backup your RamCard to 5 1/4 or 3.5" disk(s). The next time you start RAMUP, select Restore from the TITLE SCREEN. Your RamCard will be loaded exactly as you left it.

Using Backup/Restore has the added advantage of saving your data files as well as RAMUP's configuration and your application files.

*Downloaded from [www.Apple2Online.com](http://www.Apple2Online.com)*

