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UNREAL SOFTWARE COMPANY PRESENTS

PACKCOPY V1.0

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READ INSTRUCTIONS BEFORE OPERATING

For Use on the ADAM Computer

Make Backup Copies of ADAM Software Easily

Requires a Minimum of One Digital Data Drive

Copy software with one or two digital data drives and one disk drive.

Copy using only one data drive.

Copy between two data drives in one pass.

Copy between data drive and disk drive in one pass.

Copy between two disk drives

Make backup copies of SmartFiler files, Basic programs, commercial software, Super Game packs, etc. Copy almost anything on an ADAM compatible data pack or disk.

NOTE: PACKCOPY is intended for archival use only. The copying and distribution of copyrighted software is illegal. Copyright laws allow you to make backup copies for your own personal use only.

SOFTWARE IDENTIFICATION NUMBER: 00758

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Dear ADAM Owner:

Thank you for buying our software. We hope it will be a useful addition to your ADAM software library.

In addition to developing software for the ADAM, we also publish EXPANDABLE COMPUTER NEWS (ECN), a bi-monthly ADAM only publication. ECN was the first ADAM only publication and includes programs, reviews, technical information, user group news, new product developments, public domain software, articles and more. If you would like to know more about ECN, write us and we will send you a free sample copy. Subscriptions are currently \$12.00 for 6 bi-monthly issues. We think it is a buy that is hard to beat.

In the future we also will be producing more software for the ADAM, including utilities, business programs, development tools and more. Please feel free to write us and let us know what type of software products you would like to see made available. Because we receive a large volume of mail, we can only answer those letters that include a self-addressed, stamped return envelope.

Thank you for your support.

PAGE ENTERPRISES

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## INSTRUCTIONS

Many of you will want to use PACKCOPY as soon as you can but, because of the nature of copy programs, it is urgent that you read the instructions and warnings carefully before running the program. Failure to insert the proper media in the proper drive can result in the loss of important programs and files. You should also make a backup copy of PACKCOPY and the accompanying machine language program before using it (See Backup Instructions).

## DEFINITIONS

Source Media: your original data pack or disk that contains the programs and/or data you wish to duplicate.

Destination Media: the blank formatted data pack or disk that will receive the data and/or programs from the source media.

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### WARNING

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1. Two different types of data packs have been produced for the ADAM. Early versions of BASIC, early blank data packs, and many Super Games do not use the current center directory format. The directory for these data packs begins on the far right side of the tape. We do NOT recommend attempting to copy a right-side directory data pack to a center directory data pack using either the dual or single data drive copy. While this will work, the process takes approximately one hour for a single drive and one-half hour for a dual drive copy and is extremely hard on the data drives which could SHORTEN the life of your data drives. If you need to copy a right directory data pack and do not have a blank right directory data pack, we recommend you copy the right-side data pack to a blank formatted disk and then copy from the disk to a blank center directory data pack.
2. NEVER attempt to copy data packs or disks that will not load. Any media that produces I/O ERRORS should never be used in the copy process. Use only high quality formatted blank data packs and disks.
3. Although most commercial data pack software can be copied to disk (provided it will fit in 158 blocks), not all data

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pack software can be run from disk.

4. All information on the destination media will be replaced by the information copied from the source media.

#### RUNNING PACKCOPY

1. Turn on your ADAM and TV or Monitor.
2. Load BASIC.
3. Remove your BASIC data pack and place it in a safe place.
4. Insert the PACKCOPY data pack into your ADAM data drive #1.
5. Enter: LOAD PACKCOPY,d1
6. When ADAM is ready enter: RUN
7. PACKCOPY will then run and load the machine language module (MLMOD). This will take a few seconds. When this is completed a title screen will be displayed for a few seconds followed by an option screen.
8. Before proceeding remove the PACKCOPY data pack and place it in a safe place.
9. You will be given four options. You may choose to copy data packs only, copy between disk and data pack, copy disks only or quit. Enter your choice and press RETURN. If you select option "1" proceed to instruction 10. If you select option "2" proceed to instruction 19. If you select option "3" proceed to instruction 15A. If you select option "5" the program will terminate. To restart the program return to step 4.
10. If you selected option 1 in step 9 you will then be asked how many data drives you have. If you have two data drives enter "2" and proceed to step 15. If you have only one data drive, enter "1" and proceed to step 11.
11. The copy process for a single data drive is relatively slow compared to that for two drives. The single drive copy

process may require that you swap source and destination data packs up to 32 times. Fewer swaps will be required if the data pack is not full. For a single drive copy you will be instructed to insert the source media in drive #1. This should be done now. The source media is the original data pack that contains the programs and/or data you wish to duplicate.

12. Next you will be asked if you wish to copy empty blocks. This question should be answered no (enter "N") in most cases for single drives. If you are copying commercial software or SmartFiler files enter "Y".

13. You are then given a final opportunity to abort the copy. If you are ready to begin the copy process enter "Y" then RETURN, otherwise press any other key and return.

14. The source data pack will then begin spinning which means the copy process is under way. Sixteen blocks will be loaded into memory from the source data pack. ADAM will then sound a brief alarm and prompt you to insert the destination data pack. After you insert the destination data pack press RETURN. The data will be transferred to the destination data pack. Continue to insert the source and destination packs as instructed by the screen prompts until the process is completed. ADAM will notify you when the process is finished with a message and another alarm. Proceed to step 24.

15. In step 10 you selected the 2 data drive option. The program will now instruct you to insert your source data pack in drive #1. Following a short delay you will be prompted to insert the destination data pack in drive #2. Insert the correct data packs in the drives. Proceed to step 16.

15A. In step 9 you selected the two disk copy. Insert the appropriate disks in the drives as instructed by the program. The source disk goes in disk drive #1 and the destination disk goes in disk drive #2.

16. Next you will be asked if you wish to copy empty blocks. This questions should be answered no (enter "N") in most cases; for commercial software and SmartFiler files enter "Y".

17. You are then given a final opportunity to abort the copy process. If you are ready to begin the copy enter "Y" and RETURN; otherwise press any other key and RETURN and the

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process will be aborted.

18. The source and destination drives will then begin spinning and the screen will indicate which blocks are currently being copied. When the process is completed an alarm will sound and a message will be printed on the screen ("FINISHED"). Proceed to step 24 for further instructions.

19. In step 9 you selected option 2, copy between disk drive and data drive. Another option screen will now appear. There are three options: 1 - copy from data drive #1 to disk drive #1; 2 - copy from disk drive #1 to data drive #1; and 5 - quit. Select the appropriate option. NOTE: Copying from data drive to disk may present a problem. Since the disk has only room for 158 blocks, you cannot copy an entire data pack unless only the first 158 blocks or fewer are in use on the data pack (most commercial software will fit on a disk). Copying from disk to data pack does not present a problem.

20. You will then be instructed to insert your source media in the appropriate drive and the destination media in the other drive. Insert them before proceeding.

21. You will then be asked if you wish to copy empty blocks. This should be answered no (enter "N") in most cases. For commercial software and SmartFiler files enter "Y".

22. You are then given a final opportunity to abort the copy process. If you are ready to begin the copy process, enter "Y" and return, otherwise press any other key and return and the process will be aborted.

23. If you decide to proceed with the copy process, the appropriate drives will begin operating and the screen will indicate which blocks are being copied. When the process is complete an alarm will sound and a message will be printed on the screen ("FINISHED"). Proceed to step 24.

24. When the "FINISHED" message appears remove your source and destination media. Press return and you will be taken back to the initial option screen. If you wish to do more copying select the appropriate option, otherwise enter a "5" to terminate the program.

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BACKUP PROCEDURES FOR PACKCOPY

When making your first backup copy of PACKCOPY it is recommended that you follow these procedures rather than using the PACKCOPY program until you are fully familiar with its features.

Making a Backup Copy on Data Pack

Load Basic  
Insert PACKCOPY data pack in data drive #1  
Enter: LOAD PACKCOPY,d1  
Enter: RUN  
When the options screen appears, select option 5 (quit).  
Remove PACKCOPY data pack.  
Insert a blank data pack in data drive #1.  
Enter: SAVE PACKCOPY,d1  
When ADAM is ready enter: BSAVE MLMOD,A29900,L90,d1  
When ADAM is ready you will have a usable backup copy of PACKCOPY. Put the original version away in a safe place and use your new copy whenever you need to backup a data pack or disk.

Making a Backup Copy on Disk

Load BASIC  
Insert PACKCOPY data pack in data drive #1  
Enter: LOAD PACKCOPYD,d1  
Insert a formatted disk in disk drive #1 (d5).  
Enter: SAVE PACKCOPY,d5  
Note that the name for the load is PACKCOPYD and the name for the save is PACKCOPY.  
Enter: NEW  
Enter: LOAD PACKCOPY,d1  
Enter: RUN  
When the program loads select option 5 (quit).  
Enter: BSAVE MLMOD,A29900,L90,d5  
When ADAM is ready you will have a usable backup copy of PACKCOPY that can be loaded and run from disk. Put your original data pack version away in a safe place and use your new disk version whenever you need to make copies of data packs or disks.

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NOTE: The following Super Games cannot be copied: Donkey Kong and Donkey Kong Jr.

The following software cannot be run from the disk drive: Recipe Filer, Smart Letters and Forms, Dragon's Lair, and all current Super Games from Coleco.

When updates to PACKCOPY are available, all registered owners will be supplied with the changes or notified concerning the procedure for receiving the updates.

WARNING: Because data packs may be damaged or exposed to electromagnetic radiation during shipping, caution should be exercised when first using a data pack. Should a data pack be difficult to insert or perform unusually when loading, remove it immediately and return it to us for replacement. Please include a note explaining the problem you encountered.

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### LIMITED 90 DAY WARRANTY

Sage Enterprises will replace this software for a period of up to 90 days from date of purchase.

If this product fails to load or is otherwise damaged during the warranty period, simply return it to Sage Enterprises, Rt. 2, Box 211, Russellville, MO 65074 and we will send you a replacement.

### AVAILABILITY OF UPDATES

Updates to this program will be made available at no cost or for a minimal fee. Individuals who do not obtain this software directly from Sage Enterprises must notify us of their purchase and include their software identification number in order to receive any updates that may become available.

### CONTENTS OF PACKCOPY DATA PACK

The PACKCOPY data pack you have purchased contains one copy of this program (PACKCOPY) which is designed to be loaded and run from the data pack. In addition it also contains one copy of the program (PACKCOPYD) that can be copied to a disk and loaded and run. In addition the data pack also contains a machine language program (MLMOD). MLMOD must also be copied to disk if you wish to load and run PACKCOPYD from disk. Follow the backup instructions to transfer these programs to a second data pack or to a disk.

NOTE: If you purchased PACKCOPY on disk you must remember that PACKCOPYD is the version that runs from disk.