AUGment

MARCH - APRIL 1985 Vol. 1 No. 3

Official Newsletter of the ADAM USERS' GROUP

ADAM SUPPORT CONTINUES

Just a few days before the CES show in Las Vegas the anouncement was made.

COLECO WILL STOP PRODUCING
THE ADAM FAMILY COMPUTER !

After the shock of this announcement (we read it in the papers, too), we decided to hold comments until we visited with Coleco at the CES exhibit.

After spending three days at the show, almost entirely at the Coleco booth, we finally had some information that could be passed on to our members.

The most important news is that Coleco will continue to support the ADAM and the ADAM user. The Coleco 800 number will continue for customer support, and the Honeywell service will also remain as before. Judy Smith, V.P. Customer Support for Coleco, has assured us that the company will continue to help us in offering support to our members and other ADAM users. We were also told that software will continue to be generated and all the programs that were completed will be shipped. As of this writing, we do not know where. As for the hardware and peripherals, Coleco will produce only enough parts to make completed units that will be sold by an undisclosed dealer. But Coleco will make available their technical information on the ADAM so that third party suppliers can continue to offer additional items for this great computer.

By the time you read this, the name of the dealer may be known.

Just so we don't have to hold our breath until then, we have some good news.

While we were at the CES show, we had the opportunity to meet some of the people who produce third party hardware and software for the ADAM. All but one agreed to continue to develop and offer ADAM products. We're sure that many more will follow. Why not? There will be more than 350,000 units in use this year.

As for AUG and AUGment, we will continue to support all ADAM users and we will publish our newsletter for as long as you feel it is wanted and needed. Of course there will be some minor changes, such as: John Reese's column will not appear (he is no longer with Coleco); the CP/M column will have to wait until we know that you have it available; and the AUG Bulletin Board will have to wait until the RS232 port is developed and we have software that will allow up-loading and down-loading of software and messages.

However, AUG will, with your help, develop the finest library of public domain software programs for the ADAM and we will continue to work with any third party vendors in helping them to bring their products to our ADAM community.

AUG will also help local user groups to start so they may maintain the support and friendships of fellow AUGies.

After the announcement from Coleco regarding ADAM we received many, many phone calls and letters. We hope that the information written here will help clear up many of the questions that were asked, and we want to thank you for the encouragement you offered.

Every cloud has a silver .....

Box P

Dear AUG:

I sent this program in order to receive an "ADAM" pin. But I hope it will help other AUGies. This program converts numbers to BINARY numbers.

```
10 PRINT TAB(5);"BINARY TRANSFORMATION"
20 PRINT: PRINT: PRINT "NUMBER TO
   TRANSFORM?"
30 a$= " "
40 INPUT nb
50 n = nb
60 x = INT(n/2)
70 z = n-(2*x)
80 z$ = STR$(z)
90 a$ = z$+a$
100 n = x
110 IF x <> 0 THEN GOTO 60
120 PRINT: PRINT: PRINT nb; "="; a$
125 PRINT: PRINT
130 INPUT "ANOTHER NUMBER,(Y or N)?"; c$
140 IF c$ = "Y" OR c$ = "y" THEN GOTO 20
150 IF c$ = "N" OR c$ = "n" THEN GOTO
    170
160 GOTO 130
170 PRINT: PRINT: PRINT "BYE!"
180 END
```

Jean-Pierre Deguire
50 des Sapins
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* * *

Dear AUG,

Concerning quieting the printer, I use foam rubber underneath and a plastic kitchen sandwich meat/cheese container 10x10x3 which fits perfectly over the daisy wheel opening and paper and really deadens the sound.

Finally, I had Honywell replace my R57 with an R80. Their service was good and attitude excellent. Thanks for the tip!

Full speed ahead!

John G. Yates
1200 S. Arlington Ridge Rd, No. 107
Arlington, VA 22202

Dear AUG,

Happy New Year! I hope AUG and AUGment will continue to grow as much during the new year as they have between issue #1 and issue #2 of the newsletter.

I always look forward to receiving my copy of AUGment and am very pleased that other ADAM users are willing to share their positive experiences as well as their trouble-shooting tips. I think we have the beginnings of something very good here.

And thanks for using my materials. I appreciate your selecting my article for inclusion in the next several issues.

I would like to make two major corrections in Part 1 of BASIC INPUT/OUTPUT that appeared in issue #2:

(1) In the third paragraph, I stated that there were two BASIC commands for input and output and the following sentence was used:

"Those command are: INPUT and OUTPUT."

There is, of course, no OUTPUT command. That sentence should have read as follows:

"Those commands are: INPUT and PRINT."

(2) Following Part 1, you indicated that I am the author of THE JOY OF BASIC FOR THE ADAM, which is correct. However, after I submitted the article to you, the Brady Company decided to terminate its involvement with that book (although the book was already at the printer's). I have sent portions of JOY to several other publishers with the hope of having it released soon.

I apologize for the inconvenience caused by the errors indicated above.

Again, thanks for the opportunity to share with other ADAM users and for information that you share with all of us.

Gary West
P.O. Box 217
Allendale, SC 29810

Dear AUG:

I waited what seemed forever to get my copy. Everday I looked in the mail for some news of ADAM. Finally your newsletter arrived. It was worth waiting for. It is a thing of beauty and a joy forever. Not only is the writing excellent, but your format is distinguished. I especially appreciate the binding and having the three holes punched out for me. These were two thoughtful touches. In the coming days, I will be typing your programs onto disks. I recently got two drives, and are they GREAT. I feel like I'm running on an IBM or some type of professional machine. Coleco did a fine job on its latest offering. I look forward to their 2.2 CP/M and the software you make available for it through your fine magazine.

A MODEST PROPOSAL

Now that Coleco has expelled ADAM from the garden, its fate is uncertain. It can only survive on the largess of users, who must organize to mutually support this orphan.

Nourishment, in the form of software, is vital. I am proposing, therefore, that some user-programmer out there write a communications package for using ADAM as a bulletin board. As I see it, this program would include a message board; E-mail; on-line conferencing; and four sections for uploading/downloading, one for BASIC, SmartBASIC II, LOGO, and CP/M, respectively. It would utilize two disk drives and both dp drives. ADAM BBSs could serve local user groups and be serviced by them. Board sysops throughout the country could exchange their public domain programs. A large and useful program library could thus be established.

In addition, AUGies would have several centers for activities and for local, mutual support. If computers were made to communicate, a BBS program can fulfill that function supremely. The other myriad functions that computers perform could be accessed from the BBS.

Richard Weiderman
1259 Franklin SE
Grand Rapids, MI 49506

Let's Stay Together

With Coleco banishing ADAM out of the Garden, it is now up to us 300,000 + users to keep our computers alive and well. TI and Osborne computer owners have already gone through the experience we are now having, and they are going strong!

We can be successful if we WRITE!

--Write to Coleco, Infocom, Sierra and others who have written software for the ADAM but have not marketed it yet. You have your word processor--use it! From Coleco, ask for the Universal Interface and CP/M, so we can buy hardware and software of other manufacturers to keep us going. Both of these products are finished, but not marketed yet. From Infocom, ask for their continued development of text-adventure games. (They have been developing ADAM software since August 1984.) Remind them that they now have a true "captive market." Sierra also has games they have not yet marketed.

--Write your own programs and contribute them to ADAM User Groups for all to enjoy.

--Above all, stay in touch with other ADAM owners. We will survive if we only try.

George M. Knochel
13451 W. Florida Dr.
Lakewood, CO 80228

Hangman Hint

In order to escape from the HANGMAN program as printed in a recent issue of Family Computing:

Change lines 390 and 400 to:

```
390 PRINT: PRINT: PRINT "SWITCH PLACES
    AND PRESS": PRINT "P TO PLAY AGAIN";
    k$
400 IF k$ = "P" THEN RUN
```

and add lines 395 and 500:

```
395 INPUT k$
500 END
```

Coleco Update

Just before we went to press, we had a chance to visit with the customer support people at Coleco Industries. At this meeting we tried to get as many answers to your questions as we could. The following is the result.

Regarding the continuation of hardware and software for the ADAM, Coleco is still producing the disk drive and ADAMLink. All other hardware, including the RS232 interface and the 80 column card, will not be produced (by Coleco). Software is still being offered and new software is in the works. SmartBASIC 2.0 will be available on disk, but delivery date has not been set as yet. The ADAMLink updated software that was offered with the modem will be shipped in 4 to 6 weeks.

CP/M has been shipped. EAST COAST ... Childworld, Toys R Us, Crazy Eddie, Consumer Distr., S.E. Nichols, Sam Goody, 47th Street Photo and Lionel Leisure. MIDWEST ... Meiyers, Kohls, Ardans, B & W Distr., Kay Merchandise and Stereo Village.

Along with the CP/M package is a booklet of CP/M programs that are available from Westico. (See AUGment Vol. 1, no. 2.)

As for the name of the "mystery" dealer, that announcement will be made at the end of February.

Movingword

```
10 HOME: VTAB 5
20 INPUT "ligne (max:32 car.):"; l$
30 IF LEN(l$) > 32 THEN 20
35 REM
40 REM ----DEFILEMENT---
45 REM
50 FOR i = 32 to 1 STEP -1
60 VTAB 15: PRINT MID$(l$, 33-i); TAB(i);
   MID$(l$, 1, 32-i); " "
80 FOR j = 1 TO 80: NEXT j
90 NEXT i
100 GOTO 50
110 GOTO 80
```

J.A. Girard
1420, Ave Langevin Sud
Alma, Que., Canada G8B 6B1

Math Program

```
100 TEXT
110 INPUT "Hello!  What is  your name "; a$:?
120 PRINT "I am very happy to meet you ";
    a$:?
130 PRINT "I have been to asked to help
    you "; a$; "with your math ":?
140 PRINT "What would you like to start
    with "; a$:?
150 PRINT "Just type "
160 PRINT "1 for addition ":? "2 for
    subtraction ":? "3 for
    multiplication ":? "4 for division "
170 PRINT: INPUT b
180 IF b=1 THEN GOTO 300
190 IF b=2 THEN GOTO 400
200 IF b=3 THEN GOTO 500
210 IF b=4 THEN GOTO 600
220 GOTO 160
300 TEXT:FLASH:? "     ADDITION       "
310 FOR i=1 TO 1500:NEXT i:TEXT:NORMAL
320 TEXT
330 x=INT(RND(1)*20): y=INT(RND(1)*20)
340 PRINT:PRINT x; " + "; y; " = "
350 INPUT d
360 IF d=x+y THEN GOTO 380
370 PRINT "Sorry, ";  a$; "your answer is
    not right ":GOTO 340
380 p=p+1:IF p>=20 THEN GOTO 1000
390 PRINT " a$;" Your answer is right "
    :GOTO 330
1000 HGR:HCOLOR = 15
1010 c=PDL(13):IF c=15 THEN GOTO 1030
1020 HCOLOR = c
1030 x=255*PDL(3)/255: y=156*PDL(1)/255
1040 n=n+1:IF n>=2000 THEN GOTO 1090
1050 IF PDL(7)=1 THEN GOTO 1000
1060 k=255-x
1070 HPLOT x, y:HPLOT k, y
1080 GOTO 1010
1090 INPUT "SORRY!  TIME'S UP.  CARE TO
     TRY AGAIN?  PRESS THE 'Y' KEY.  IF
     NOT, PRESS THE 'N' KEY "; w$
1100 IF w$="y" THEN TEXT:GOTO 150
```

Russell Dusome
52 Briar Road
Barrie, Ontario, Canada L4N 3M4

Skyline

```
10 HGR: HCOLOR = 13
15 SCALE = 3: ROT = 0
20 FOR x = 1 TO 255 STEP 5
25 c = INT(159*RND(1))
30 FOR y = 0 TO c
40 DRAW 1 AT x, y
45 PRINT "ROW===> "; c
46 HTAB 15: PRINT "COLUMN===> "; x
50 NEXT y, x
```

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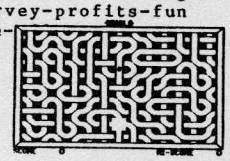
ADAM'S COMPANION - Book(updated)	$9.95



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ADAM and smartBASIC T.M. Coleco, Inc.

Videotunes Review

by Loretta Picone

VideoTunes is a music program for the entire family to enjoy--you don't even have to be a music lover.

VideoTunes comes with ten pre-recorded songs that you can choose from and enjoy, such as O CANADA and GLORIA.

For those music lovers who are just learning music, this program can help you read and apply your music theory. You can create your own song by setting the tempo and adding comments to the song. Also, you can edit the music by inserting and deleting notes.

After you have finished writing your song, you are able to SAVE it on a digital data pack or disk. When VideoTunes LOADS the song from the tape or disk it will display the notes on the screen. It is suggested that you do not SAVE songs on your VideoTunes tape. Use a blank tape or disk.

There are many more commands that you can use to write a song. The best way to learn how to use them is by experimenting.

VideoTunes comes on a digital data pack with an excellent booklet that will give you step by step instructions on how to use this music program.

If you are interested purchasing VideoTunes, you can send $34.95 (which includes shipping in the U.S. & Canada) to Stephen G. Simpson, President, FutureVision Inc., P.O. Box 34, N. Billerica, MA 01862 or call (617)663-8591 for more information.

AUGment Articles

For a limited time we will send a bumper sticker or a pin to any member who sends us an article or a printout of a program that we use in AUGment.

Send all articles to ADAM PINS % AUGment, P.O. Box P, Lynbrook, NY 11563. Deadline for the next issue is February 5, 1985.

Book Review

The Easy Guide to your Coleco ADAM by Thomas Blackadar is a very helpful guide for beginners who have never used a computer before. When you start, you should have an ADAM computer in front of you; it will be very helpful if you do the examples as you go along.

The chapters are divided into three sections. The first section, Getting Acquainted, will help you get to know your machine. It explains what the ADAM can do, how to set it up and how to buy commercial software. The book tells, step by step, how to play Buck Rogers: Planet of Zoom, which is included with the ADAM.

The second section, The Word Processor, describes some specialized features, such as writing letters and reports. This section also explains the importance of the digital data pack in loading and storing programs and taking care of the cassettes to avoid their being damaged. This is very important and the directions should be read and followed.

The third and last section of this book is Basic Programming, which starts with a simple command and gradually works up to combining commands and making a complex program out of a simple one. The book explains what graphics are and how you can use them on your computer.

The commands described in the book are summarized in an appendix. This book, in combination with the ADAM Smart Basic Programming Manual, Revised Edition, will provide the ADAM user with a good understanding of the Basic commands and Error Messages.

The Easy Guide to your Coleco Adam is highly specific and useful. It eliminates a lot of guesswork in putting the computer together and operating it.

It is available in book stores for $9.95 or by mail ($9.95 plus $2.00 for shipping and handling) from Sybex Computer Books, Dan Nishio, Sales Representative, Corporate Accounts, 2344 Sixth Street, Berkeley, CA 94710 (415) 848-8233 or (800) 227-2346.

Joystick Program

```
 10 DIM j(8), xt(8), yt(8)
 20 HOME
 30 PRINT "Please plug controller into
    port #1.  Use keypad for input."
 50 PRINT TAB(36); "Press any key to
    begin."
 60 GET r$
 70 HOME
 80 HGR
 90 FOR i = 1 to 8
100 READ j(i), xt(i), yt(i)
110 NEXT i
120 READ x, y, nc, s
130 VTAB 22
140 PRINT "Use stick to draw <fire>=
    erase";
150 PRINT "1=change color; 3=draw face
160 print "7=quit"; SPC(9); "9=clear
    screen"
170 IF s = 1 THEN HCOLOR = 0:
    HPLOT hc, hr
180 HCOLOR = nc
190 HPLOT x, y
200 hc = x
210 hr = y
220 k = PDL(13)
230 IF k = 15 THEN 300
240 IF k = 1 THEN nc = nc+1
250 IF nc = 3 THEN nc = 5
260 IF nc > 15 THEN nc = 1
270 IF k = 3 THEN 420
280 IF k = 7 THEN TEXT: HOME: END
290 IF k = 9 THEN RESTORE: GOTO 80
300 s = 2
310 IF PDL(7) = 1 OR PDL(9) = 1
    THEN s = 1
320 jv = PDL(5)
330 IF jv = 0 THEN 170
340 FOR i = 1 TO 8
350 IF jv = j(i) THEN x = x+xt(i):
    y = y+yt(i): i = 8
360 NEXT i
370 IF x > 254 THEN x = 0
380 IF x < 0 THEN X = 254
390 IF y > 159 THEN y = 0
400 IF y < 0 THEN y = 159
410 GOTO 170
420 FOR i = 1/40 TO 8*ATN(1) STEP 1/40
430 HPLOT SIN(i)*48+127, COS(i)*64+79
440 NEXT i
450 GOTO 200
1000 DATA 1,0,-1,2,1,0,3,1,-1,4,0,1
1010 DATA 6,1,1,8,-1,0,9,-1,-1,12,-1,1
1020 DATA 128,80,2,2
```

Mike Vargo, 880 Tradewind St.,
New Bedford, MA 02740

SmartFILER

Coleco Home Helper Software "SmartFILER" is a good way for ADAM users to get organized. It is an easy computer program to set up, and it will help you locate material easier and faster.

You will not have to waste hours or days looking for pieces of information. They will be right at your fingertips with the push of a button.

You can make files for any data that you want: You could update your record collection, medical records, taxes, and insurance forms. Also, you can create a form for writing personalized letters and keep a mailing list.

No matter what information you want to organize, you have to create a form. The booklet gives step-by-step instructions and diagrams on how to structure a form. It is simple to do.

The booklet starts by explaining how to load the program using a multi-drive system, and it gives precautions that you must be aware of. Then it explains in detail how you create a form.

Each field has four characteristics:
1) Field Name (such as lastname, firstname, address, city)
2) Type (character or number)
3) Length (the maximum number of characters you want to allow for entering information)
4) Search (S or N, depending on searchability)

The booklet then gives you a practice form to create, so when you are ready to create your own you will know how. After you have created a form, the booklet will tell you how to enter your data, store it, and retrieve records when you what to use them.

Since it has so many valuable uses, SmartFILER is a very good thing to learn.

Coleco Home Helpers Software "Smart FILER" comes in a colorful vinyl book that contains one cassette, a booklet and a reference guide. It is available on data pack in stores for $20 - $25.

Disk Drive Comments

If you are the new owner of an ADAM Disk Drive, you already know how good it is. In brief, for those who haven't seen the new drive, it's smaller than either the C-64 or ATARI 800XL drives and yet appears to be more sturdily built than either of those units. It is also far faster than the C-64 drive in loading and storing programs/files. Even if you don't now own the disk drive, read on, for the following will someday be important to you.

The disk drive comes complete with two reference cards and a 52 page owner's manual. The manual is quite thorough in telling you how to install the drive and use the disk manager system. However, there is one important fact that it does not clearly state. To use the disk drive with SmartWRITER, SmartBASIC, SmartLOGO, or any applications program, you must first load the Disk Manager or DOS (ie, Disk Operatiing System) program. Once it is loaded you can escape to SmartWRITER or load one of the SmartLANGUAGES and then use the drive to store and retrieve information. Without first loading the Disk Manager, SmartWRITER and the others refuse to recognize the existence of the disk drive. When this happens you may panic and think there is a problem with your drive. Don't get excited; save your file on tape, load the DOS, try again and most likely you'll discover that you had not initially loaded it. To avoid these few seconds of paranoia, make it a habit to load the DOS whenever you turn ADAM on.

In addition to the above, one of the reference cards tells you to use d5 to access disk drive #1 in SmartBASIC (ie, PRINT CHR$(4); 'OPEN FILENAME",D5). It doesn't tell you, however, that you should use the d5 command only when switching from the tape drive (device one or d1) to the disk drive. Once you've done that, ADAM knows that you're using the disk drive and will OPEN, READ, WRITE, APPEND, LOAD, RUN, DELETE, RECOVER, RENAME, CATALOG, and CLOSE files from the disk. ADAM will continue to use the disk drive until told to go back to the tape drive via the d1 statement.

Repeated use of the d5 statement within a SmartBASIC program for OPEN, WRITE, READ and CLOSE file commands will result in an error code and the program crashing. The same may be true of SmartLOGO where disk drive one is accessed via a d4 statement. In any case, when using SmartBASIC use only d5 or d1 when transferring from disk to tape or tape to disk drive as the storage/retrival device.

In SmartBASIC you can use INIT to initialize a formatted disk and give the directory a new title. There is, however, one problem created by doing this. A disk after being initialized will indicate that it has 253 blocks free. This is impossible, since the maximum number of blocks on a disk is 158. The disk can be used, but you will always have to subtract 95 from the number of free blocks showing to get the actual blocks that are free. Possibly, at the time SmartBASIC was coded the programming team assumed that 253 free blocks would be standard for both data pack and disk.

The on/off switch on the disk drive turns off power to the drive but does not turn off the nine volt power supply. This means that as long as the power supply is plugged into a live 110 volt AC outlet, it is on and using electricity. Leaving the power supply on 24 hours a day will probably shorten its life span. In view of that, unplug it when not in use. A second option that will cost some money but prove more convenient is to purchase a switchable outlet strip and use it to turn the power supply off and on. Doing either one of these will probably lengthen the life expectancy of the power supply and save you a few cents each month on your electric bill.

If your drive does not function properly, call Coleco's toll free number (1-800-842-1225). Do not call Honeywell or take the drive to one of their service centers. As of this date (Jan. 11, 1985) Honeywell has not signed an agreement with Coleco to service the disk drive. Until such time as an agreement is reached all such service will have to be through Coleco itself.

Larry L. Lindblom
309 S. Vine Street
Glenwood, IA 51534

Music Program

Following is Coleco's MUSIC program that activates the tone generators in ADAM.

If the user has recently had the CPU repaired, a couple of lines in the program may be obsolete. While the old program will still work, the tones will not be accurate.

Emerson Boardman
535 Oakland Avenue
Cedarhurst, NY 11516

```
1 REM Musichords 11/21/84
5 LOMEM :29000
10 GOSUB 10000: REM Make the Launchpad
20 toot = 144
30 offtoot = 159
40 bytespot = 28006
50 mhertz = 3597545
60 tempo = 20
1000 FOR voice = 0 TO 64 STEP 32
1005 t = t+1: PRINT "TONE:"; t
1010 INPUT "Pitch:"; pitch
1012 INPUT "Volume:"; loud: loud=16-loud
1015 GOSUB 2000: NEXT voice
1020 INPUT "Duration:"; dur
1030 GOSUB 2070
1035 FOR offtoot = 159 TO 223 STEP 32:
     GOSUB 2080: NEXT offtoot
1040 GOTO 1000
2000 REM play the note
2010 pitch = mhertz/INT(32*pitch)
2020 twopitch = INT(pitch/16)
2030 onepitch = 128+voice+(pitch-
     twopitch*16)
2040 POKE bytespot, onepitch: CALL
     startsound
2050 POKE bytespot, twopitch: CALL
     startsound
2060 POKE bytespot, toot+loud+voice:
     CALL startsound
2065 RETURN
2070 FOR delay = 1 TO dur*tempo: NEXT
     delay
2075 RETURN
2080 POKE bytespot, offtoot: CALL
     startsound
2090 RETURN
10000 REM LAUNCHPAD FOR SOUND
10010 DATA 58,102,109,211,255,201
10020 startsound = 28000
10030 FOR address = startsound TO
     startsound+5
10040 READ byte
10050 POKE address, byte
10060 NEXT address
10070 RETURN
```

Packcopy Review

by Loretta Picone

PACKCOPY V1.0 is a terrific program for all you AUGies who wrote to us in desperate need to buy another SmartBASIC tape because it was erased or destroyed.

Packcopy will make backup copies of ADAM software very easily. You can copy software with one or two digital data drives and one disk drive, or using only one data drive, or between two data drives, or between data drive and disk drive.

Most importantly you can make backup copies of commerical software such as, SmartFILER, SmartBASIC, SmartWRITER, SmartLOGO, ADAMCalc, Super Games packs, etc. You can also make backup copies of SmartFILER files, BASIC programs and anything else that is ADAM compatible.

Here's how it works: Just turn on your ADAM computer, load BASIC, REMOVE the BASIC data pack and insert the PACKCOPY data pack and load. When ADAM is ready, enter RUN. You will then have many options to choose from.

There is only one major thing you have to be careful about when you want to make a backup copy from a data pack to a disk. You have to make sure that all the material will fit on one disk. Since the disk has only 158 blocks and the data pack has 255 blocks on tape, you will not be able to copy the entire data pack onto a disk.

PACKCOPY V1.0 comes on a digital data pack with an excellent booklet that will give you detailed instructions. Also, the last page of the booklet explains the backup procedures for PACKCOPY itself.

You can order your own PACKCOPY by mailing $41.50 (shipped prepaid) to Sage Enterprises, Expandable Computer News, Rt. 2, Box 211, Scrivner Road, Russellville, MO 65074. Or call 314/782-3448 for more information.

I have used this program for making several backup copies and I have found that it is just GREAT. I highly recommend it to all you AUGies.

ADAM in LOGO-Land

Before you can program effectively in LOGO, you have to start thinking in LOGO. This seems to be easier if you have had less exposure to BASIC and other languages which make use of branching (GOTO) statements. Instead of branching, LOGO forces you to think in terms of procedures to get a job done. For instance, if you wanted to draw a house you might define a procedure as follows:

```
TO DRAW HOUSE :SIZE
  DRAW WALLS :SIZE
  DRAW DOOR :SIZE
  DRAW WINDOW :SIZE
END
```

This procedure breaks up the drawing of a house into three different procedures. Now if these procedures were part of LOGO's vocabulary, we would be done. Since they are not, we have to define them for LOGO. An example of one of them might be:

```
TO DRAW WALLS :SIZE
   PENDOWN
   REPEAT 4 [FD :SIZE RT 90]
END
```

One feature of this procedure is that it uses a parameter. This is a variable which makes the procedure very flexible. In this case we are building a square house, but we could just as easily have said:

```
REPEAT 2 [FD :SIZE RT 90 FD :SIZE * 2]
```

This would build a ranch style house (multiply by two the first :SIZE rather than the second to build an apartment house.)

Another feature this procedure has is that it is "state transparent." That is, the turtle ends up in the same place it started when you entered the procedure. Generally, this makes it easier to build procedures that work well together.

Also we notice that the procedure assumes nothing about its outside environment. If you were playing with it and forgot to put the pen down before you drew the walls, the procedure would do it for you. The procedure is not perfect, though, because it doesn't make sure the pen is in the same position as when it started. What command(s) could you use to enable the procedure to do this? All this talk of transparency may seem like overkill in such a small program, but in some complex graphics programs it will come in very handy.

The goal of writing any procedure is that it should be modular. Simply put, this means that it should be able to do its job without affecting any of the other procedures. The reason for this is simple. Once you have a set of procedures to draw a house, you may want to use it to draw a town. If the procedures had "side effects" which affected other variables or parts of the program, you would have to know what these are before you could use them. But, if the procedures are modular you could use them just as you would any other LOGO verbs, without having to know exactly how they work.

A challenge: Can you write a procedure which will save the state of the turtle (its coordinates, heading, and whether the pen is up or down) and another one which will set the turtle back to that state? If you need help, see the chapter on property lists in the SmartLOGO manual (but you can use regular lists).

Barry L. Wallis
2140 Bessant Street
San Bernardino, CA 92404

Thanks for the Memory

I have a small program I think you would like to try. It gives you the RAM memory.

```
10 inverse
20 home
30 for x = 0 to 65550
40 y = peek(x)
50 print x: print y
60 next x
```

The reason for the inverse is that the computer does not pr#1 what it can't see. Around 1000 you will see a message. If you look carefully, you will recognize the BASIC language.

Alain Beauregard
13520 Sherbrooke-Est #8
Pointes-Aux-Trembles, Montreal
Quebec, Canada H1A 4L6

Basic Input-Output

By Gary West

PART 2

In PART 1, we discussed the use of the PR# statement to turn the printer on and off when we wanted to output information from a program. We used the following program:

```
10 REM PROGRAM 2
20 PRINT "TYPE YOUR NAME AND PRESS THE
   <RETURN> KEY:";
30 INPUT N$
40 HOME
45 PR#1
50 PRINT "IT'S NICE TO KNOW YOU, ";N$
60 END
```

We can use the same program to illustrate printing information to a data pack for storage until it is needed at a later time.

The PRINT command is also used to write data onto your data pack (or your disk). But, as with the printer, you must use a special statement to tell the ADAM that you want the information printed to the data pack (or disk) rather than having it printed to the screen or on paper. The special statement is PRINT CHR$(4). It tells the ADAM to use the drive unit when it finds the next PRINT command.

We can replace lines 45 and 55 in the program above so that the ADAM will know to print our information on the data pack (or disk). But the ADAM needs to know more than that when it is writing your information onto the data pack. It needs to know the name of the file into which you want the information put. That file name is important because you may have more files on your data pack. Without knowing which file to work with, the ADAM will have no idea where to put your information.

Naming the file to write in is a two-step process within your program. You must, first, open the file so that ADAM can write in it, and you must, then, tell the computer to write in that specific file.

(continued)

To open a file for the ADAM to use you will use the OPEN statement, and to tell the computer to write your information into the file you will use the WRITE statement. Then, after the file has been written, your program must give instructions to the ADAM to close the file and to turn off the drive unit. That can be accomplished by using the CLOSE statement.

We are now ready to change Program 2 (above) so that it will write our information to the data pack (or to the disk). Let's add these lines:

```
45 PRINT CHR$(4):"OPEN NICE.FIL"
48 PRINT CHR$(4):"WRITE NICE.FIL"
55 PRINT CHR$(4):"CLOSE NICE.FIL"
```

The new lines 45 and 55 replace the old lines, and line 46 tells the computer that it is to write into NICE.FIL after it is opened.

When this revised program is run, it will ask that you press the <RETURN> key. Then, the screen will clear and the data pack drive (or disk drive) will start as lines 45 through 55 are executed. After the program ends, type the direct command CATALOG and press <RETURN>. The data pack (or disk) directory will include .NICE.FIL, indicating that your information has now been saved for later use.

SmartBASIC Tapes

We have been getting many questions on where to purchase a SmartBASIC tape.

There are three things that you can do:

1) You can call Honeywell's toll free number 1-800-842-1225 (8AM to 10PM EST) and purchase a copy of SmartBASIC.

2) You can send your old SmartBASIC to DATA BACKUP PRODUCTS for the ADAM Computer, Box 335, Iona, ID 83427, (208) 523-2505, and they will send you a replacement (for a fee, of course).

3) The best thing that you can do is not to wait until you <u>need</u> a replacement. Make backup copies with the new PACKCOPY V1.0 program for the ADAM. (SEE REVIEW.)

Bob's Business

In the last issue we charted Lorimar for 54 days. Look at that chart on your screen and you will notice that, at the far right, the trend of higher lows was broken. This predicts a drop in price, as we discussed last time.

Also, you notice that the higher highs and higher lows lines are forming a "V" to the right--a pennant is a more appropriate term. What a pennant tells you is that the stock price is due for a big rise or drop soon. Why? As the prices are plotted they will approach the tip of the pennant. It is necessarily true that one of the lines will be broken through before reaching V. If the upper line is broken--look for a price rise; if the lower line is broken--look for a price drop.

Let's plot 30 more closing prices. Call up your program from last month and add or change these lines.

```
20 n = 85
137 DATA    34.625,34,33.5,32.75,32.75,
            33.625,34,34.375,34.625,
            34.375,35,35,33.625,33.5
140 DATA    33,32.75,31,31,30.25,30,30,
            29.5,29.75,29
150 DATA    29.25,29.375,29,28.5,29,29.5,
            30.375,31,30.125,30.125
160 DATA    30.5,30.625,30.5,30,30,
            29.875,30.125,30.75,30.625,
            30.625
```

We changed line 20 from n=55 to n=85 (30 more closes).

Line 137: we removed the last item (34.625) and replaced it with the next closing price after $34.625-$34.50. Remember that the last close was repeated twice last time, so we must remove it once. Use your home/arrow keys to change this line.

Line 140, 150, 160: the next 29 closes after $34.50 and the last close ($30.625) entered twice on line 160.

What do we see when we run this updated program ? Firstly, the price did drop after breaking the lower trend line. Secondly, out to the far right the price is in a narrow, flat band.

A final comment on this month: if you want a flatter chart for a different perspective or personal taste, change these lines in your program:

```
40 DEF FN vlu(z) = 250-z*5

65 DEF FN vlu(m) = 250-m*5
```

If you want a real flat chart, change these lines:

```
40 DEF FN vlu(z) = 150-z*2
65 DEF FN vlu(m) = 150-m*2
80 HCOLOR = 4
190 END
```

Lines 80 and 190 are to remove the horizontal price reference lines; don't type in lines 80 and 190 if you want to see why we did this.

P.S. This is your column. Let me know what you would like to see next time: technical analysis over a longer time period or a different technique of technical analysis or a program for your taxes or a program that teachers can use to sort and assign grades statistically.

Bob Trezevant
1122 Stewart #B
Chico, CA 95926

More Cents

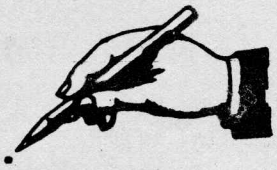
I offer to you and Mr. Duncan my method of "Make Cents."

I came up with the following subroutine.

```
1000 REM   Subroutine to express a
     number as dollars and cents
1010 REM   A - Amount to convert (input)
1020 REM   P$ - A in dollars and cents
     format (output)
1030 REM
1040 IF A = 0 THEN P$ = "0.00" : GOTO
     1070
1050 P$ = STR$(A + 0.001)        : REM
     force 0 cents
1060 P$ = LEFT$(P$, LEN(P$)-1    : REM
     Delete added digit
1070 RETURN
```

Larrry A. Perkins
RD #3 Box 306
Richfield Springs, NY 13439

In Response ...



... SmartBASIC--Any program you assign the name "HELLO" and save on the SmartBASIC datapack will automatically load and run when you hit RESET to load SmartBASIC. That program should end with the last program line being a NEW statement. Do not use END. This will leave your RAM clear. Otherwise your turnkey program will still be in RAM and merge, randomly, with any program subsequently written without a NEW statement.

... Initialize--You may use any name when you initialize data packs. Instead of "1st DIR," mine are named TapeI, TapeII, TapeIII, etc. Do this as soon as you get a new data pack. This gives each data pack a unique electronic identification each time you call up its catalog in SmartBASIC.

... Input--If an INPUT is asked for, do not use commas when entering your input. ADAM will ignore anything after the comma.

... SmartWRITER--You may revise text at the end of a line containing a RETURN without having to use the INSERT routine. There are limitations to this, which I'm not sure of, beyond which you will lose text already there. This is especially useful for revising charts and lists in Moving Window format and to save time editing long texts. This seems to work best in the Moving Window format.

... SmartWRITER--When using text with super and subscripts, the 1-1/2 line spacing works fine. It is not necessary to use 2-line spacing as the manual suggests.

... SmartWRITER--If you are doing a text with indented paragraphs, editing is a problem because of the "hard" returns necessary. For shorter texts you might try formatting after editing. Alas, one of the shortcomings of SmartWRITER.

[Ed. note: Our thanks to Charles E. McGregor, 15 Crest Road, Rowayton, CT 06853, for the above tips.]

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VIDEOTUNES **$34.95**

Play music on your Adam!! Use sheet music or compose your own songs. VideoTunes plays up to three notes at a time and has a four octave note range, displays treble and bass clefs and four octaves of piano keys. The notes light up on the screen as the music plays. Store your songs on tape or disk. Includes eleven demonstration songs and complete instructions.

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* * *

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#503 TRAVELER GAMES
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#509 MATHMATICS

Send a stamped self-addressed envelope to AUG Library, P.O. Box P, Lynbrook, NY 11563, for a description of the library programs listed above. The programs are available for $10.00 each on either data pack or disk. If you do not indicate that you want the program on disk, we will send the data pack. Include your identification number on your check made out to AUG.

If you have a data pack or disk with a program YOU developed, and you want to offer it to other ADAM users, please send it to the above address. Let us know which library program you would like in return.

To make a duplicate tape of your program for our library: Place your SmartBASIC data pack in the drive and reset the computer. After Basic is loaded, remove the tape and place your program tape in the drive. At the Basic prompt type LOAD "favorite" or whatever name you choose. Now remove your program tape and replace it with a BLANK data pack. At the next Basic prompt type SAVE "favorite." Your program will be saved on the blank tape and you will now have two copies of the same program.

Please test your program carefully before sending it in. Include a READ.ME file--written with the word processor and copied to the data pack or disk--explaining how to use your program and giving any special information about it.

Now more than ever, AUGies need each other for support. The distribution of public domain software is one of the most important services we perform. So keep sending in those ORIGINAL programs.

REMEMBER ... DO NOT SEND COPYRIGHTED PROGRAMS OR PROGRAMS COPIED FROM OTHER PRINTED MATERIAL.

Chapter News

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NORTHERN ILLINOIS/INDIANA ADAM USERS
(NIAD) Contact: Lyle Marschand
P.O. Box 1114
Lisle, IL 60532

HOUSTON AREA ADAM USERS GROUP
Contact: T. Rutan
1805 14 Avenue N.
Texas City, TX 77590

TRI-CITY AUG
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104 Opal Drive
Newport News, VA 23602

Walter Wright
490 17 Street
West Babylon, NY 11704

John G. Yates
1200 S. Arlington Ridge Rd., No. 107
Arlington, VA 22202

Bruce Van Metre
903 Cindy
Carbondale, IL 62901

If you wish to start a chapter in your area, send a stamped, self-addressed envelope for our TIPS booklet. It contains information on selecting a meeting place, starting a library and a newsletter, setting agenda, deciding on dues, and adopting bylaws.

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Al Gerson, Editor and Publisher

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Advertising rates & information, Bob Abrams (516) 621-1690

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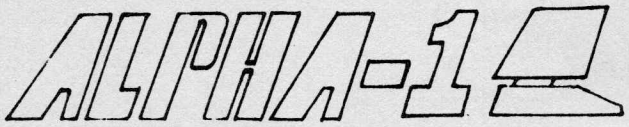

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