AUGment

Official Newsletter of the ADAM USERS' GROUP

SURVEY TELLS ALL...(ALMOST)

In one of the previous issues of AUGment we asked you to fill out a survey that was printed on the last page. You did, at least many of you did.

It was interesting to note that most of the surveys returned were photo-copies. I guess many members did not want to destroy their copy of AUGment. Perhaps we should send these types of surveys separately with a reply envelope. What do you think?

Well, in any event, the results were interesting.

Here they are:

The first question asked for the different non-Coleco hardware that you have added to your ADAM. Your answers are as follows:

11% have added the interface for another printer or modem but only 10.5% have printers other than the ADAM printer.

16% added monitors.

12% added 64k expanders.

8% added outside power supplies.

7% added tractor feeds.

3% added 2nd digital drives.

1.5% added 2nd disk drives.

The second question asked for the names of vendors who have been supplying your hardware and software needs.

A whopping 95.5% are AUGment advertisers.

The third asked if you are using CP/M. 38% answered YES, yet only 18% are using CP/M software.

On the questions regarding your use of modems and bulletin boards, 37% are using modems and 25.5% are accessing remote bulletin boards.

To the question asking about the software you are using, most of the response has been for public domain software. However, 47% are using SmartCalc, 37.5% are using SmartFiler and 24% are using SmartLogo.

15% of the respondents are using some sort of copy program to back up their disks and data packs.

We asked you which articles in AUGment were most helpful or most interesting, and your answers were the columns, In Response and reviews.

Your comments at the bottom of the survey indicated that you would like us to continue writing about the latest hardware and software for the ADAM...and to keep up the good work. THANKS, we'll try.

The headline says Survey Tells All... (Almost).

Well, the (Almost) is the part that still needs telling. We still need to know what you are doing to make ADAM work better. We still need to know what programs you are using to make ADAM work faster.

SO...keep those letters coming. It is the life blood we need to make ADAM the complete computer.

Catalog

AUG Services

Back Issues	$5.00 each
AUGMENT Index	$5.00 each
AUGMENT Binder	$8.00 each
with Index	$10.00
Library disks	$10.00 each
Library data packs	$10.00 each
Library description	SASE 39¢ postage
Chapter Booklet	SASE
Advertising Rates	Call

NOTE: All funds are U.S. SASE refers to self-addressed stamped business-sized (#10) envelope. Unless otherwise stated, affix 22¢ postage. Also, please write your ID# on your check or request. When ordering from the Library, give the name and number of the disk(s) or data pack(s) you want.

Notice

Please notify AUG, Box P, Lynbrook, NY 11563, if you change your address. Otherwise, the newsletter cannot be forwarded to you. We would appreciate your notifying us four to six weeks before you move. Thank you.

ID#

Your AUG ID, issued when you first join AUG, starts with a letter, for example A000123. It will not change when you renew your membership, nor will you receive a new card.

Box P

Dear AUG,

Using HEX in the exclusively Decimal Basic environment can be frustrating. One trick that can save some time and a little space on the media in the bargain is called PACKING. A packing subroutine converts DATA written in HEX into decimal before POKEing into memory. It requires only a few lines and is well worth the effort, especially with a long HEX listing.

```
5   REM PACKING Subroutine
6   REM Converts HEX DATA to Decimal
7   REM Then POKEs Decimal to Memory
8   REM Use ONLY Uppercase A-F (HEX)
    in DATA Lines
10  For a - <First Decimal Memory
    Location> TO <Last Decimal Memory
    Location> : READ a$
20  b - ASC(LEFT$(a$, 1))-48:  IF b > 9
    THEN b = b-7
30  c = ASC(RIGHT$(a$, 1))-48: IF c > 9
    THEN c = c-7
40  d = b*16+c: POKE a,d: NEXT
50  DATA 01,C8,D0,11,00,00,CA,04
    09,C9
```
****

To Print an "A" File from **SmartBASIC** in **SmartWRITER** you should first change it to an "H" File. DOCs and other TEXT files downloaded from a bulletin board should also be changed to H files. Then you can STORE these back on another tape as **SmartWRITER** H Files, not to be confused with your original SmartBASIC A files. After GETting the File in **SmartWRITER**, move the cursor to HOME on the FIRST PAGE. Now Press INSERT and insert a RETURN at the beginning of the first line. Then press DONE. Now move the cursor back up to this new RETURN so that NOTHING is showing on your screen except the RETURN arrow. Now press CLEAR, then CLEAR SCREEN (NOT CLEAR WORKSPACE), and then FINAL CLEAR. What you have just done is create the **SmartWRITER** HEADER or first 256 bytes "page" that **SmartWRITER** uses to store its Margin, Tab and other DATA in. You can now change the Margins, and SEARCH and Replace the ?'s with PRINT, and add spaces after the Line Numbers before printing. When you STORE this new H File an of your new margins and tabs will be retained.

Michael D. Milker
34447-14 Yucaipa Blvd.
Yucaipa, CA 92399

Dear AUG,

I believe there was a misprint in Russell Ousome's letter in the Jan/Feb AUGment. He claimed that poking #5 was so hard to describe that he recommended everyone just give it a try. However, the #5 poke locations and values were identical to those of #6. So, I found it a little difficult to try out.

I also have a couple of things which I think others may find useful. First, I received a packet of sorts from Coleco discussing how to program music, how to change the text window in BASIC, and how to close data files among other things. I don't know how many other people received this, but one item it discussed, dividing by 100, I found to be rather wordy and much too complicated for a simple function. What it talked about was why the ADAM would print 81.919999999 rather than 81.92 when dividing 8192 by 100. They used strings to correct the problem; however, there is a much easier way. Simply multiply by 0.01 rather than dividing by 100. This is much shorter and easier to remember.

Next, I have a unique way of rounding numbers when using them for purposes of figuring money-related matters. Although it is similar to the one in the last issue, I include it anyway:

```
10  A = (any real number)
20  A = INT (a+.005)*100)/100
30  A$ = - STRS$ (A) : L = LEN (A$)
40  IF MID$ (A$,L-1,1) - "." THEN A$ =
      A$ +"0": GOTO 60
50  IF A/10 = INT (A/10) THEN A$ = A$ +
      ".00"
60  PRINT "$".;A$
```

Line 20 rounds the value to the nearest 100ths place. Line 40 adds a zero if the number rounds evenly to the tenths place. Line 50 adds the decimal point and double zeros if the number rounds evenly to the ones place. Line 60 prints the value out. The variable "A" still contains the number value of the variable A$ without the zero additions.

I hope this will be useful to someone, as I use it all the time with interest and checking account related programs in which a rounded dollars and cents value is needed.

Steve A. Christensen
409 30 St. SE
Waverly, IA 50677

Helpful Hints

I thought it would be a good idea to get away from programming and discuss a different aspect of computer use, telecommunications.

For those of you who own the AdamLink modem, you may have encountered some of the problems of using one. To properly operate a modem on a regular basis, it can be very expensive. First, to use your modem without disturbing incoming calls on your phone, a separate phone line must be installed which, when added to the monthly charge for the calls you make, can be very expensive. Also, in order to keep the expense down, you must call only small bulletin board systems (BBSs.) Any information services like CompuServe or The Source not only cost you for the call but charge you separately for the time you spend on the service.

There are many benefits to using a modem, depending on what you want to accomplish. For those of you who own the AdamLink modem, you know about the improved AdamLink software which allows uploading and downloading of information, which was not offered originally when the modem was first introduced. On some services, banking and shopping on the modem is possible. Besides the information services, there are also a few bulletin boards around which cater to more specific needs. The best way to use your modem often and keep the bills to a minimum is to use the BBSs in your area. After you find one BBS in your local area, locating others is fairly easy. On most systems, there are local boards listed when you log off. There is also, on some boards, a list of different boards of that particular area. This can be very useful when trying to find out what is available to you.

As far as I know, there are only three telecommunications programs available to Adam users. They are : AdamLink, AdamLink II, and Crosstalk (reviewed in AUGment — Jan/Feb 1986). AdamLink doesn't upload or download files which doesn't satisfy the needs of most users. AdamLink II has additional features, which make it more useful. Crosstalk is better suited for the advanced modem user.

If anyone knows of any different modem programs, or knows about any good BBSs in New Jersey, please let me know.

John S. Griffin
745 Beach Ave.
Beachwood NJ 08722

Basic

These subroutines change the desired colors while leaving displayed data in place. The following program will load the routines for you and give example changes.

```
5    LOMEM: 28050
10   FOR t=28000 TO 28031
20   READ x: POKE t, x: NEXT
30   GOTO 100: REM * Examples *
50   DATA 62,254,17,16,0,33,0,32,205,
     38, 253
60   DATA 62,129,17,16,0,33,16,32,
     205,38,253,205,56,25,3
65   DATA 1,4,7,205,32,253
70   DATA 201
100  TEXT: REM * sample changes *
120  INVERSE: LIST 5-60
125  NORMAL: LIST 5-60
140  FOR t=50 TO 100
145  POKE 28001, t: CALL 28000:
     GOSUB 1000
150  POKE 28012,t: CALL 28000:
     GOSUB 1000
155  POKE 28026,t: CALL 28000:
     GOSUB 1000
160  NEXT t
170  TEXT: END
1000 FOR x=1 TO 400:NEXT x:RETURN:
     REM * timer loop *
```

NOTE: Remove any disks or data packs before running the program for the first time in case of a typing error.

Lines 5-70, except for line 30, are the only lines that are really needed because these are the lines that load the subroutines. Once the subroutines are in place they can be used until ADAM is turned off or they are written over. The color locations are:

28001 - ((text color * 16) + background color)
28012 - ((inverse text color * 16) + background color)
28026 - (screen color, 1-15 only)

Use the POKE command to put the values for the colors you want in place. Then type CALL 28000 and all of the colors will be changed. The screen color of the graphic modes can be changed by typing CALL 28025 after switching to the mode you want. The original screen colors will be brought back if the TEXT, GR, HGR, or HGR2 commands are typed. To make the changes permanent the color values also have to be poked into locations 17115, 17126, and 17059, respectively.

Jon Grischke
2069 Boutell Road
Linwood, MI 48634

Unreal Utilities
by Loretta Picone

Unreal Utilities is available from Sage Enterprises, Rt. 2, Box 211, Russellville, MD 65074 for $36.95. Specify disk or data pack.

Sage Enterprises did a great job in developing this package for the ADAM. The utilities really do what they are supposed to do. The instruction booklet, written in plain English, is easy to understand.

Unreal Utilities is an assortment of BASIC programs that allow you to handle disk and data pack information. They allow you to format disks; modify directory information; edit data; and move, copy and verify blocks of data; as well as recover files from damaged disks/dps. The recovery process will work even when the directory has been erased by INIT in SmartBASIC.

In order to create a bootable working copy of your original Unreal Utilities, you must load SmartBASIC first and then remove it and insert the Unreal Utilities disk/dp. Then you follow the on-screen instructions.

To run Unreal Utilities you just insert your disk/dp and pull the computer reset switch. The Main Menu, which will be automatically loaded, will appear with the following options: 1. Directory Editor, 2. Block Editor, 3. Compare Block, 4. Recover Media, 5. Copy Block, 6. Move Block, 7. Format Disks, E. Exit.

Within the Directory Editor there is a menu with six options: Print all entries; List an entry; Change an entry; Add an entry; Remove deleted entries; Exit.

The Change an Entry option allows you to list and modify an individual entry. If you want to delete a file, you just have to change the status to 20. And you can rename the file, a feature similar to the one offered in Turboload by Strategic Software, which changes the Volume Heading. However, there is one major difference: this one works for me with NO PROBLEM, and now I am able to use it on the new library disks/dps.

The Block Editor menu has four options: Print/Dump one block; Print/Dump multiple blocks; Display one byte; Exit. The on-screen instructions for the Block Editor are straightforward. Each option will require specific information: block number, sector and byte.

The Compare Block allows you to compare the contents of specified blocks of two different media. This can be used to verify the accuracy of a copy. It would be a good idea to check the transfer after it is completed.

Recover Media is a complicated and time-consuming feature that will allow you to recover and rebuild a directory by analyzing the data contained in the blocks of the damaged media. This feature should be used ONLY IF the directory has been destroyed or INIT.

Copy Blocks lets you copy certain blocks between disk and data pack.

Move Block is similar to the copy feature except that the destination block may be different from the starting block. Only one block can be moved at a time.

The Format Disks feature will let you format without all of the steps involved in the Disk Manager. However, it does not check for bad blocks.

Unreal Utilities may sound complicated and confusing, but it is not. This useful program should be in everyone's personal library.

Books Still Available for ADAM

The Basic ADAM, A Self-Teaching Guide for $14.95.

Order Address:

John Wiley & Sons, Inc.,
1 Wiley Drive
Att: Order Dept.
Somerset, NJ 08873

* * *

Easy *Guide To Your Coleco ADAM* for $9.95.

Word Processing with Coleco ADAM for $9.95.

Order Address:

SYBEX Computer Books
2344 Sixth Street
Berkeley, Ca 94710

New Library Programs

544 MRDRAW (Games)

MRDRAW is not an ordinary drawing program, because it uses sprites. MRDRAW enables you to learn how paint a picture on screen. SOCDUNGEON is an adventure game. IN-BTWEEN is a card game similar to acey-deucey except that no sprites are allowed. NUCLEAR is a text game in which, operating a nuclear power plant, you try to achieve maximum power and avoid a meltdown. CAMEL is a text adventure game in which you are traveling across the desert with your camel. OILDRILLER is a two-player hi-res graphics game in which you compete to see who will become richer. HURDELER is a graphics game. MADLIB1 (Tennis), MADLIB2 (Confession of a Pizza Eater), and MADLIB3 (Dinosaurs) are simple programs that work separately.

545 DATALYZE (UTILITY)

BACKUP will duplicate a data pack. If you want to modify the program so that it will work with a disk, change the 8 to a 4 in data line #10. HELLO and CAT are used together. HELLO asks for a password (ADAM) when booted. You may change the password any time. READWRITE is a HELLO program. It will ask whoever runs the basic program to write the date and name, which will be saved on tape or disk under the file name of whoever runs the password. APHASORT sorts your data and gives hardcopy. PAPERLINE prints lines on blank sheets of paper. SCHEDULE prints out a schedule using your printer. ADRSLBPTR prints address labels, but with a difference. This program prints the same address over and over. DATALYZE will take a group of numbers and output a HISTOGRAM, a simple pie chart, a list showing the percent of the total of each number and the Total, Mean, Median, Variance and Standard Deviation of the number. FORECASTER is a sale forecaster tool.

546 ADVENTURE GAMES II

BOMB — race through the house to defuse a bomb; CAKE — within a time limit, find the ingredients for a cake; WOODS — wait to be rescued from the forest; TREASURE — gather treasures and store in a safe place; TUNNEL and TUNNELS — hide and seek in a maze of tunnels; ESCAPE and ESCAPES — find the magic words to get out of a maze.

Library

#501 BUSINESS
#502 EDUCATIONAL
#503 TRAVELER GAMES
#504 ADVENTURE GAME
#505 JOURNEY GAME
#506 GAMES
#507 MISCELLANEOUS
#508 SCIENTIFIC
#509 MATHEMATICS
#510 GRADEBOOK
#511 GRAPHICS
#512 HOME FINANCE
#513 GAMES II
#514 EDUCATIONAL II
#515 HOME ADDRESS MANAGER
#516 GAMES III
#517 UTILITY I
#518 BUSINESS II
#519 GAMES IV
#520 UTILITY II
#521 ALPHA (Logo)
#522 TURTLE (Logo)
#523 SLOT (Logo)
#524 GRAPHICS II
#525 GAMES V
#526 UTILITY III

+ #527 CHESS & GOLF
+ #528 HELP with CP/M
+ #529 CATALOG

#530 ASTROLOGY
#531 MATHEMATICS III
#532 EDUCATIONAL III
#533 GAMES VI
#534 MORSE CODE+ (Utilities)
#535 DIET PARTNER
#536 U.S. PRESIDENTS+ (Educational)
#537 U.S.A. RACING & GAMES (Games)
#538 VOCABULARY
#539 SPRITE ANIMATION (Graphics)
#540 MISCELLANEOUS II
#541 FORTUNE WHEEL (Logo)
#542 HIT IT (Games)
#543 PERSONAL FINANCE PLANNER

* #544 MRDRAW (Games)
* #545 DATALYZE (Utilities)
* #546 ADVENTURE GAMES II

*New Contributions
+ CP/M Programs

**See pages 7, 8, 9, and 10
for library disk descriptions
and order form**

501: BUSINESS

The following STOCK programs will plot a stock tor 54 days.

STOCK 1
This will connect the two highs.

STOCK 2
The line extends to the right, to show the trend of higher highs.

STOCK 3
The higher tows will be plotted.

FINANCE
1) Nominal and effective interest rates.
2) Internal rate of return.
3) Future values of regular deposits.
4) Regular deposits for future value.
5) Regular payments from an account.

BRKEVEN
Based on production capacity or sales forecasts.

INTEREST
Compound and compute interest.

INV
This is a simple data base program which allows you to store information, edit it, sort it, and recall it. Each file may hold up to 200 records, each containing three fields. Column 1 is the variable used to sort and alphabetize; Column 2 is a numerical variable that allows more room for extended text. This program would be good for doing an insurance inventory of one's possessions. The applications are endless.

CHECKBOOK
This checkbook-balancing program has the added feature of allowing you to store the list of checks outstanding and recalling that list the next month in order to see which checks previously outstanding have now cleared. It also allows you to edit your data input until you get the bankbook to balance with the statement.

502: EDUCATIONAL

PRESCHOOL
To teach pre-schoolers upper and lower case letters, numbers, shapes and colors.

MATHFUN
For all grade levels. Students can choose which operation they want to perform and the level of difficulty.

CALCULATOR
You have a choice of addition, subtraction, division, multiplication, or percentage.

X-DRILL
Multiplication table drill.

QUIZ
Questions and answer.

MATH
Addition, subtraction, multiplication, division, squareroot, sine, cosine, tangent, arctangent, logarithm.

GRAPH
Make your own graph.

CONVERSION
Converts feet to inches.

503: TRAVELER GAMES

GAMEBOOT
It will load the Traveler Game.

TRAVELER
Travel into the past and search for treasure.

JEWELHUNT
A text game that takes place in the Storage Room.

504: ADVENTURE GAME

ADVENTURE
This is a reasonably simple game requiring only nineteen moves to solve. When you play it for the first time, however, the 100 move limit may not be enough.

505: JOURNEY GAME

MARAUDBOOT
You must toad Maraudboot first and then load 1Maraud or Hangyou.

1MARAUD
You will be taking a Journey to Maraud Mountain.

HANGYOU
A word game. You must guess the word before you get hanged.

506: GAMES

FACE
You can draw a face.

LOCKOUT
Combination number game.

GROAN
Dice game.

ARCHERY
A bow and arrow game.

SCRAMBLE
A word game.

DEADRINGER
A game where you need to use the keypads.

507: MISCELLANEOUS

FIREWORKS
This program will display fireworks.

STARS
Will fill almost the entire screen with multi-colored stars.

3D
Three-dimensional objects formed by drawing straight lines.

SKYLINE
GLIDERS
Graphics programs.

MUSICHORD
A music program that activates the tone generators in ADAM.

CATALOG
You can catalog your files.

PIANO
A music program.

CHARACTER
Will make a profile of a person and then print it out.

508: SCIENTIFIC

BINARY
A number transformation program.

SORTING
A program that assigns numbers within a specified range to an alphabetical list and then sorts the list.

509: MATHEMATICS

TRIGFNS; QUADRATIC; CUBEROOTLN; CUBEROOT; DRAWING; SIMILINEQUA; ASASASSS; HEXIDECIMA; SQUAREROOT.

510: GRADEBOOK

GRADES
A program that will assign grades to students statistically.

AVERAGE
A program that can be used to average out test grades.

511: GRAPHICS

BLACKHOLE; BOUNCE2; SYMPATHY; GRAPHDEMO; HALLWAY; ALPHASOUP.

612: HOME FINANCE

BUDGET
This is a personal budget program that you can easily adapt to your own personal situation.

513: GAMES II

COMMITTED
This is a text-based adventure game. The main goal is to escape from the maze. There are several other goals, one of which is to find a bag of gold hidden among the rooms. COMMITTED takes place in an abandoned fun-house maze. Every room appears identical except for a letter painted on the wall. However, these letters will change as you move about the maze.

KOALA
This program can almost replace a Koala pad. It creates HiRes delights.

JACKPOT
A slot machine game written in SmartBASIC and controlled with the port #1 game controller.

ELF
Journey through the 11 provinces.

EVILONE
Your mission in this text game is to deactivate the main computer, called MCC-EI. You enter the code number, consisting of three digits.

EVILTWO
Mission EVIL part 2, The Serpent.

514: EDUCATIONAL II

CRAYONS
This is a drawing game that can help you learn how you can use colors.

DICEMATH
You can use the dice roll routine and graphics in a game. It is menu driven and has addition and multiplication and information options.

515: HOME ADDRESS MANAGER

This is a file system program that will allow you to create files. You can LIST all the file names in memory or SEARCH through all existing files for the name that you input. Once the name has been found, a secondary menu will be displayed. You have six options: 1) examine the whole file; 2) print the whole file; 3) print name and address; 4) update the file; 5) search for another name; and 6) return to the main menu. You can also delete files, which will erase any file from memory, add files, and generate a handy list of all names and their phone numbers.

ADDRESS MANAGER, which can be used for Christmas Cards list, Birthday Cards list and Other Cards list, is set up for one hundred entries. Be sure to run HAMset before running HAM. This program will function best if put on a disk/dp by itself.

516: GAMES III

ROCK
Easy to play game between you and ADAM. Enter your choice of ROCK, PAPER or SCISSORS by pressing a key.

HOCKEY
You will be asked the number of passes you would like to make, the number corresponding to the shot you want and the names of your players.

STRONGHOLD
This is a journey game. Deep beneath the earth you go, far into the Dwarven Heartland. Danger is on every side as you descend, but your greed draws you on. After coming across a faded, almost Illegible map to a Dwarven hoard of gold, you have been obsessed with finding it.

BREAKOUT
A ball will drop out from the middle of the screen. Keep it in play by moving your paddle. The ball gets faster on each successive screen. You get ten balls per game.

MASTERMIND
ADAM will pick nine colors at random and you must guess them in the right order. You can set the number of colors when you choose the level of difficulty from 2 to 9. It may be useful to note the color pattern before starting.

MINEFIELDS
You will be sent on an exciting but dangerous journey across enemy minefields.

TEXTROCKET
You will be going on a risky mission into space. Use the arrow keys to move your ship to the area. You will crash if you run out of fuel or if you land out of the area cleared for you to land on. Some survivors will live to tell this exciting event in space history.

517: UTILITY I

FILE MANAGER TRANSFER (FILE-MGR-T) is a utility program that will transfer Basic programs and text files from one disk or data pack to another. It will transfer only the programs that you want and in any order. You can use any drive combination. It will transfer and close from one to thirty-five programs automatically with an optional lock. This program also works with files downloaded with ADAMLink II to Basic and SmartWRITER.

518: BUSINESS II

LOANLENGTH
This program will compute the length of time in months it will take to pay a loan. Enter the amount of the loan along with the interest rate, and then enter your payment. This is good for budgets and credit card loans where you can pay any amount above a specified payment.

RATIOS
This program will calculate the ratios that investors and analysts compute when analyzing a company.

SALPAY
- Preparation of payroll checks;
- Preparation of payroll register;
- Preparation of year-to-date payroll register.

PAYROLL
This program must be modified to your own employees' names, salaries, tax rates, etc. It will calculate and tabulate: State tax. Federal tax, FICA tax, etc., and take home pay.

519: GAMES IV

ROULETTE
Russian Roulette is a game of chance. You will be given a .38 caliber Smith and Wesson resolver, which you will put to your head and pull the trigger...IF YOU DARE! You can pull the trigger or give up. It's up to you!

TICTACTOE
A game of TIC TAC TOE where the two players use the game controller keypads as the playing boards.

TICTACADAM
A one-player game of TIC TAC TOE played against ADAM. There are three difficulty levels to choose from.

SCRIBBLEN
With this program, you can save low resolution screens on tape or in RAM. RAM disappears when you type RUN or NEW and is empty when you start. This is just a way to SAVE a picture temporarily. You can change color with the keypad and use the joystick to draw with.

MAZE
This is a low resolution game that creates a maze and asks you to find your way across it while avoiding the dragon that will be moving about the maze searching for food. You must also race against the clock.

IT
Adventure game.

CROSSFIRE
You have to shoot the Green Meanie before time and ammo run out You will need to use the keypad.

520: UTILITY II

INITDISK
Initializes the disk.

MAILLIST
This program will enable you to: create a list add or edit records, and save the list to data pack/disk; load a list from dp/disk; search for a record; print the list; and display the tape catalog. Includes name, street, city, state/zip and remarks.

DAMAGETAPE
Magnetics are a fragile medium, so all serious programmers make backup copies of their programs. If a tape gets damaged, part of a program may be lost. But if the catalog (block 0) gets damaged, the tape is virtually worthless. Not any more! This program will help to recover some of the lost material.

CHRASC
This is information that every programmer should learn. Use this program to get the ASCII values for any key on the keyboard. You will also be able to see the character or result of each "CHR$(#) used.

COLORPOKE
This program allows you to change the screen color on the ADAM in SmartBASIC.

CHANGER
This program allows the user to change the color of the text background and letters.

521: ALPHA

ALPHABET (LOGO)
In this program, every letter of the alphabet, the numbers 1-9, the period and the space are separate procedures . The program is used to make any size letters on the screen. Each procedure has vertical size and color as external inputs. For example: A 30 6 would print an "A" that is 30 units high and red. This program was designed to make titles for video tapes.

522: TURTLE

TURTLESHOP (LOGO)
This is a game similar to Frogger, where the player "hops" the turtle using game controller #1 joystick. The object is to jump from square to square in order to reach the winning orange box.

523: SLOT

SLOTMACHINE (LOGO)
A Las Vegas style slot machine.

524: GRAPHICS II

SCRIBBLER
This is a HI-RES design program. It will draw 15 (randomly selected) colored designs.

SUNBURST
Draws a burst of light from the center of the screen.

VISRNDIZER
Graphically shows how the randomizer in the ADAM works.

GALAXY
Stars will suddenly light up as night falls.

QUILTS
NOEL
HELLO
Graphics programs.

525: GAMES V

ETCHSKETCH
A drawing program.

DRAW
Allows for detailed drawings.

POKER
Based on Las Vegas poker machines, with some added features. Colorful graphics represent playing cards. Can be played by up to six people.

GETTHEDOT
This program pits you against time and the computer. Your mission is to skillfully use your paddle to reach the dot in record time.

OUTRUN
A game of strategy. You must get a higher score than the computer while avoiding getting hit.

526: UTILITY III

MARGINSETR
A program to correct "overscan" when using a TV for a monitor.

EXPENSES
A program to use with ADAMCalc. It will compute a monthly expense report and business car mileage.

CALENDAR!
Will print any month from January 1585 to December 10000 with or without a hardcopy.

JULIAN
This can be used as a stand alone program. With line number changes it can be used as a subroutine to return a Julian or Gregorian date to a program.

TABEXCERCIS
This is an exercise in tab use for the printer.

VECTORLIST
A print-out program of the 64 commands used in drawing HGR shapetables.

527: CHESS

CHESS (CP/M)
In this version of chess there is no screen of any kind displayed, so you'll need to know the rotation.

GOLF (CP/M)
You play 18 holes of golf. You have a choice of clubs, some control over your swing, and a handicap.

HELLO (CP/M)
You hold an amusing conversation with your computer: It gives you advice on your problem.

528: HELP

HELP (CP/M)
A program providing information on a variety of topics, each one in a file with the extension .hlp. Type HELP <topic> for an index of subtopics.

529: CATALOG

CATALOG (CP/M)
Programs and instructions for creating and maintaining a master catalog of disks/dps.

Searches the MAST.CAT file for certain user-defined parameters and displays them to the screen. CAT may be used to look for a given filename or for the files on a given disk/dp. Use this program to find files that are entered into the catalog system.

CATALOG.DOC
Detailed documentation on creating and maintaining your own master catalog.

MAST.CAT
An ASCII (text) file consisting of me names of files on cataloged disks/dps. The file, which is created initially by the user, is maintained by CAT1 and CAT2.

530: ASTROLOGY

BIRTHSTONE
The computer presents the name of a month. You type in the birthstone for that month. The program will do the rest.

ZODIAC
Is divided into twelve-year groups, each year having a different animal sign. The computer names the animal and describes your personality traits.

HOROSCOPE
Give the computer your name and date of birth. The computer then tells you your sign of the zodiac and what it means. The computer describes your personality and predicts your future.

BIORHYTHM
A program that will plot your physical, emotional and intellectual cycle.

531: MATHEMATICS II

ALGEBRA
A tutorial for basic algebra. It shows several ways to solve for an unknown.

BINRYDEC
Figures out binary numbers and decimals from the input.

FUNCTION
Will plot the graph of a mathematical equation of "Y" expressed in terms of "X" such as Y=SIN X.

FRACT2DEC
Gives the fractions for decimal numbers.

CHI-SQUARE
Computes the chi-squere statistic for a 2 by 2 table and shows the unadjusted and adjusted figure.

632: EDUCATIONAL

MATH6
A program designed for basic math practice.

CAPITALS
You play against the computer, which will ask you to name different capitals from the clues it gives you.

CALCULATOR
You must choose one of the four functions: plus, minus, times or division.

SAYINGS
A program much like Trivia, a test of memory.

MATHQUIZ
A math teaching program with three levels of difficulty. After twenty questions are answered correctly, a reward is given.

533: GAMES VI

SLOT MACHINE
You pull the handle and the program displays some objects. If you get no two alike, you lose.

COINTOSS
Flip a coin after calling it. The computer will print either heads or tails.

CRAPS
The computer rolls the dice for you and lets you know what happens.

DRAWSTRAWS
One straw is broken off shorter than the others.

SHELLGAME
The squares represented by 1, 2, and 3 on the screen are cups. Try guessing which cup hides the "pea."

MINOTAUR
This low-res graphics game pits you against a cunning minotaur in a confusing maze. His job is to guard the treasure; yours is to steal it without being eaten.

OBSTACLE
In this two player game each player is a single square of a different color. The players are continually moving until one of them or both are dead.

COBRA
A green snake hunts white mice at night. If the snake fails to eat 30 mice before time runs out, bites himself or hits a concrete wall, he's dead.

PACPERSON
A high resolution game using sound, shapetable, and sprites.

GUESSME
Guess the number picked by the computer.

534: MORSE CODE + (Utilities)

MORSE
A program to help you learn C.W. code. It has 3 options: Sound Out lets you input a character or "word"; the computer sounds it out, prints the graphics, and sounds it out again. Learn lets you select from a group of characters and punctuation. One character at a time is sent and you must correctly interpret it. If you make a mistake, the graphics will be shown, and the character sent again. This mode will rate your score on a percentage of correct answers. Practice lets you practice reading 40 "words" at the selected speed. You can choose either random 5-letter words or pick 40 words from a data file called morse.

CATALOG
Interprets the CATALOG information in the directory. It starts by issuing a CATALOG command to be sure that the current catalog is indeed in memory. The program then interprets every catalog entry, showing file attributes, size, start block, end block.

DATAMAKER
Will take the memory locations you specify and turn them into "DATA" statements for use in another program.

LOWERSDATA
The son of Datamaker, this program is an example of how to use the technique of Datamaker in a specific way to save LOW Resolution screen pictures -- BY TURNING THEM INTO A PROGRAM!! The program created by this can be used alone as a graphic picture or

you can make it the beginning of some other program as a title screen (as an example or as a picture in the program). The program created can be run immediately as a self-drawing picture.

SHAPETDATA
Another son of Datamaker, this program will seek out the shapetable in a program and turn it into "DATA" statements. The mechanics for setting it up are included in the newly created program!

RUNMEFIRST
A program that makes letter files. There is a DEMO program that will help you make your own file.

EDITOR
Uses screen editing features to allow you to write data directly into a "Spreadsheet." Allows you to use up to 100 columns by 31 rows. You can enter data directly into fields using full screen editing rather than field input.

535: DIET PARTNER

DIET PARTNER
This series of companion programs is not a diet program, but a powerful tool to assist you with your weight reduction goals. The program uses data statements for the food-calories-carbohydrates table, so it's easy to customize. The DIET PARTNER has the following programs: Weight calculator. Calorie calculator. Recipe calculator. Calories burned. On-line documentation and Calendar to print.

536: U.S. PRESIDENTS + (ED)

U.S. PRESIDENTS
A exercise in naming the Presidents of the United States. If you are wrong you must try again. The program will keep score for you.

MAJORCITIES
The program will ask you to name the state after giving you the city. As you play, it will indicate if you are right or wrong and will keep score.

ADDITION, SUBTRACTION, MULTIPLICATION, DIVISION - Flash card math. As the problem appears on the screen, enter the answer you think is right. The computer will tell you if you are right or wrong.

CONVERT
Will convert linear measure to milli, centi, kilo, inches, feet, yards, etc. Will also convert metric linear measure to milli, deci, yards, miles, etc.

MATHMASTER
A basic mathematics review for children in elementary grades. The four basic computation skills of addition, subtraction, multiplication and division are included. The user is allowed to choose the process and the skill level he/she wants to review. A computer paint set game is the reward for correctly answering 20 problems.

537: U.S.A. RACING & GAMES

USARACE
A one-player racing game. The goal is to drive to Los Angeles as fast as you can, avoiding some nasty problems, the worst being crash. As you race across 10 states, you must often buy gas, resulting in toss of time. To guard against running out of gas between cities, buy spare gas at the beginning of the race. Cars in poor condition can be repaired at cities.

DIRK
An adventure game. You are Dirk Jones, a not-so famous explorer. Your mother left you when you were an infant because she could not support you. Your father was a famous explorer who died while he was trying to get the staff of Nimm. Your quest is to recover the staff and try to get out alive.

SPEAKEASY
A text adventure game. Enrico Cappucino reputedly has a counterfeit ring operating in the vicinity of a speakeasy. You are a local treasury agent whose object is to break this ring.

SKIING
Select a skill level and guide your skier down the slopes, trying to avoid hitting the trees. The skier is controlled with the Joysick.

SNALUMOR
The snalumors are attempting to seed Earth with deadly Nerd in an attempt to render the planet helpless before they attack in force. A small group of natural nerd types

has been found to be immune to the gas. They have 50 shots to stop the Snalumor ship before it completes its Nerdizing attack. Unfortunately, the defenders cannot operate all the defense equipment.

SLALOM
You are the American team's only hope of a gold medal in the 1984 Winter Olympic giant slalom.

BASKETBALL
The match up is you playing as the U.S. and the computer as China in the '84 Summer Olympic games in Los Angeles.

DARTS
You can play up to twenty players at one time, trying to score as many points as you can.

RUSIANROU
This is a game of Russian Roulette.

GUNNER
You are the officer in charge, giving orders to a gun crew after estimating the degrees of elevation. A hit within 100 yards will destroy the target.

BOXING
You will go three rounds. The boxer that takes two out of three wins.

TRAP
ADAM will think of a number between 1 and 100. Try to guess the number! On each guess you enter two numbers, trying to trap ADAM's number between them.

BOMBS-AWAY
As the pilot of a World War II bomber, you have a mission to accomplish.

BOMBARDMENT
You are on a battlefield with 4 platoons. The object is to fire missiles at the outposts of the computer. It will do the same to you. Whoever destroys all 4 of his enemy's platoons first wins.

538: VOCABULARY

Prepare for the Scholastic Aptitute Test. These tests are of value not only to SAT test takers. You can use them to improve your vocabulary.

539: SPRITE ANIMATION

This series is comprised of three programs:
animatesSP is the sprite file;
ANIMATE is the basic mechanics; and
OBSTACLE is a LO-RES builder program.

540: MISCELLANEOUS II

KRYPTO
Send secret messages which are extremely hard to decode without the program. It does not simply use the ASC characters.

PIANO
A five octave electronic keyboard. Using your "fingers" (controlled by joystick #1), you can play any note just by pressing one of the side action buttons.

PASSWORD
Executes a password subroutine. You can continue with a program of your own.

LORESMAGIC
A low resolution/high resolution art program. In the main mode you can plot in low resolution, but you also have the option of putting the picture you've created onto the high resolution screen, saving and retrieving your picture.

GROUPINTRO
An introduction program for display at the beginning of local ADAM Users' Group meetings. It can be easily adapted for use by any group. It combines low resolution graphics with text to inform members about administrative matters and to set the atmosphere of the meeting.

PACEMAKER
Allows you to draw a face by selecting eye color, hair, nose and smile.

Ordering Information

To order disks or data packs fill out the form below and enclose check made out to AUG. Disks/Data Packs are $10.00 each, three for $25.00.

AUG LIBRARY, BOX P, LYNBROOK, NY 11563

NAME_____

ADDRESS_____

CITY/STATE_____

ZIP_____ PHONE (____) _____

I.D. #_____

==============================

DISK/DP #_____ _____ _____

DISK/DP #_____ _____ _____

DISK/DP #_____ _____ _____

DISK/DP #_____ _____ _____

Number of disks_____X $_____

                              TOTAL_____

Please check one: [ ] DISK   [ ] DATA PACK

If you do not indicate that you want the program on disk, we will send the DATA PACK. Write your ID # on your check.

If you have a data pack/disk with a program (or programs) YOU developed, and you want to offer it to other ADAM users, send it in. Let us know which program you want in return. Make a duplicate copy of your disk/dp before sending us your program. See earlier issues of AUGment for directions on making duplicates. Always keep backups of programs you mail in.

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 information about it.

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

AUG Library

#501 BUSINESS
#502 EDUCATIONAL
#503 TRAVELER GAMES
#504 ADVENTURE GAME
#505 JOURNEY GAME
#506 GAMES
#507 MISCELLANEOUS
#508 SCIENTIFIC
#509 MATHEMATICS
#510 GRADEBOOK
#511 GRAPHICS
#512 HOME FINANCE
#513 GAMES II
#514 EDUCATIONAL II
#515 HOME ADDRESS MANAGER
#516 GAMES III
#517 UTILITY I
#518 BUSINESS II
#519 GAMES IV
#520 UTILITY II
#521 ALPHA (Logo)
#522 TURTLE (Logo)
#523 SLOT (Logo)
#524 GRAPHICS II
#525 GAMES V
#526 UTILITY III
+ #527 CHESS & GOLF
+ #528 HELP with CP/M
+ #529 CATALOG
#530 ASTROLOGY
#531 MATHEMATICS II
#532 EDUCATIONAL III
#533 GAMES VI
#534 MORSE CODE+ (Utilities)
#535 DIET PARTNER
#536 U.S. PRESIDENTS+ (Educational)
#537 U.S.A. RACING & GAMES (Games)
#538 VOCABULARY
#539 SPRITE ANIMATION (Graphics)
#540 MISCELLANEOUS II

+ CP/M Programs

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Notice

AUG Library is provided as a service to its members for the purpose of fostering the exchange of ideas and programs to enhance the usage of ADAM Computers. As such, little or no evaluation of the programs is performed by AUG. The user is nearby put on notice that programs may contain faults the consequences of which AUG cannot be responsible. The user is, by virtue of obtaining and using these programs, assuming full risk for all consequences.

In Response...

...VDT's are safe, new study from NCCI claims.

New York— A review of potential video display terminal (VDT) hazards by the National Council on Compensation Insurance (NCCI) has found that VDT's pose no scientifically proven health hazards for workers, though they may contribute to stress and other ergonomic concerns.

The survey findings failed to indicate any organic damage attributable to VDT use. Secondary sources of complaint, including stress and visual discomfort, were encountered by NCCI's analysts but were similar to problems encountered in sedentary work in any circumstances. Most of the complaints were temporary, and all showed no direct link to VDT use and could be corrected through better management of the employees' time and improvements in workstation design.

Countering the major apprehensions about VDT use connected with the public's fear of radiation, the NCCI study found that the only ionizing radiation produced in VDT's are so-called "soft X rays," which are contained by the glass screen. The radiation levels noted in connection with VDT use are well below the advisory levels for pregnant women and roughly comparable to the natural background radiation that originates in outer space.

NCCI is a voluntary nonprofit, statistical research and rate-making organization supported by the insurance industry. The company's primary functions are preparation and administration of rates and rating plans and systems for workers' compensation insurance in 32 states.

[The above information is from Office World News for Business Systems & Supplies Dealers, May 1986, Vol. 14, #5.]

...Quieting the printer is not so simple. You might try placing it on a sheet of foam rubber. There are commercial enclosures, but they are expensive.

...SYSGEN is a program on the CP/M disk/data pack that transfers a copy of the CP/M operating system from the source dp/disk to the destination drive. SYSGEN does not destroy the disk/dp.

Bob's Business

If you look back over the last several issues, you will notice that two basic measures are used in our analysis.

The first is the profitability of the company measured by Price/Sales and Prices/Earnings Ratios, Return on Assets and Return on Equity, the COGS as a % of Sales, and the Number of Times Interest Earned.

The second is the financial strength of the company — the assets minus liabilities backing up each share owned. This was measured by the Current, Quick and Liquidity Ratios, the Book Value per Share and Net Current Asset Value per Share, the Debt Ratio and the Equity Ratio, the Working Capital Flow, and the Fixed Assets as a % of Long Term Debt.

Well, it's time to move to a new topic now. I hope this ratio analysis we have developed helps you hone your investing skills....

Now we start a NEW topic. It requires that you have the ADAMCALC, and we will write a spreadsheet that is very valuable for investors.

The first row (using 11 columns) to enter after loading ADAMCALC is as follows:

Security (Format: Text for row one and text for all other rows)

Mkt. Pr. (Format: Text for row one, money for all other rows)

Basis (Format: Text for row one, money for all other rows)

Mkt. Val. (Format: Text for row one, money for all other rows)

% Change (Format: Text for row one, % for all other rows)

Rate (Format: Text for row one, % for all other rows)

Int/Div (Format: Text for row one, money for all other rows)

Yields (Format: Text for row one, % for all other rows)

% Fund (Format: Text for row one, % for all other rows)

Security (Format: Text for row one and text for all other rows)

Factor (Format: Text for row one and whole # for all other rows)

Explanations of each column are: Security — name of the asset owned.

Mkt. Pr. — you will enter the market value PER SHARE, PER BOND, etc.

Basis — you will enter what you paid for the entire investment.

Mkt. Val. — the program will compute total market value of the investment.

% Change — the program will calculate the % increase/decrease of your investment since it was purchased.

Rate — you will enter the % yield for mutual funds or cash only. Otherwise you will enter nothing.

Int/Div — you will enter the dollars paid per year by your investment other than mutual funds or cash.

Yields — the program computes the yield on the asset.

% Fund — the program computes the % of your total assets represented by this investment.

Security — same as above.

Factor — you will enter the number of shares, bonds, etc. you own.

Next month: entering the next rows of the spreadsheet.

Bob Trezevant
1865 Mountain View Drive
Tiburon, CA 94920

NEW RATES IN EFFECT

If your address label says RENEW, your membership will expire with the next issue. When you send your renewal, be sure to enclose your ID# and the correct amount. See page 15 for the NEW rates.

Good Impressions
by Emerson Boardman

ADAM's printer, one of the best letter-quality computer devices made, can give perfect registration even without a tractor feed. You can type the same copy over itself to get doubly dark impressions. So good is the product that you can use it as "camera-ready copy" in photo-offset reproduction. I've done it many times with excellent results. Here's how:

1. After you've typed your document, STORE it, for safety and for possible future use.

2. Press HOME to go to the beginning of text.

3. Put smooth, white paper into the printer.

4. PRINT SCREEN.

5. After printing stops, press ESCAPE to get normal Smartkey labels.

6. Roll the paper in your printer back to one click (a half-line space) before the first printed line of text on your sheet.
7. Set your TOP VERTICAL MARGIN to 1.
8. PRINT SCREEN again. You should now have a clear doubly-dark copy of all text on screen.

9. Repeat Step 5.

10. CLEAR SCREEN. Your screen will now contain the next portion of your document.

11. PRINT SCREEN.

12. Repeat Step 5.
13. Roll paper back to one click (a half-line space) before the first line of new text.
14. PRINT SCREEN (new text).
15. Repeat Steps 9-14 until your entire document is overprinted.

NOTE: Text whose BOTTOM MARGIN is greater than 61 when sheet is loaded in line with top of ribbon or 58 when sheet is loaded in line with clear plastic between ribbon & roller or 55 when sheet is loaded in line with hold-down bar can't be overprinted on 11" paper because it will slip when rolled back. Print long text on 14" paper; cut it down to 11". Overprint very short text with HI-LITE and print HI-LITE, not SCREEN.

Vendors

HIGH QUALITY DISKETTE
from
Unlimited Technologies, Inc.
P.O. Box 7
Piscataway, NJ 08854

SOFTWARE
from
Ezra
Box 5222JU
San Diego, CA 92105
-----
64 EXPANDER BOARD
from
Spectrum Electronics
14 Knightswood Cr.
Branford, Ontario N3R 7E6

SURGE GUARD
from
EEE Electronics, Inc.
Sound Divison, P.O. Box 331
Linthicum, MD 21090

ADAM DDP DIRECTORY REBUILD
from
Q-Soft
P.O. Box 170
Lavalette, WV 25535

BLANK TAPE FOR COLECO ADAM
from
C & A Products
P.O. Box 1911
Ames, IA 50010

BASIC PROGRAMMING CORR. COURSE
from
National A-Club
P.O. Box 15068
Chevy Chase, MD 20815

DISKETTES
from
Mei
1555 West Lane Avenue
Columbus, OH 43221

* * *

The Vendors column is not advertising.

We will list as many vendors as space allows. These listings in no way represent the endorsement of AUG, Inc.

CP/M Stuff

We will now discover the parameters of PIP.

What are PIP parameters? They're the letters and/or numbers that appear in brackets after the name of the file(s) being PIPed. For example: B:=A:*.*[V]. The [V] means...VERIFY that the data written on B is the same as A.

Now let's use some PIP parameters.

Place your CP/M disk/dp in drive A and a blank formatted disk/dp in drive B. At the A> type:

PIP B:EXAMPLE.UC = A:EXAMPLE.TXT[U].

After the warm boot type:

PIP B:EXAMPLE.LC = A:EXAMPLE.TXT[L].

Once again, after the warm boot type:

PIP B:EXAMPLE.NO = A:EXAMPLE.TXT[N].

Let's take a look at what PIP parameters did while transferring the files.

Type B: and now we will address the B drive. At the B> type TYPE EXAMPLE.UC. Notice that PIP has translated all lower case characters to Upper case. That was the [U].

Now type TYPE EXAMPLE.LC. All the uppercase letters are now Lower case. That was the [L]. Once more type TYPE EXAMPLE.NO. How about that...all the lines are Numbered. That was the [N].

This should be some help to all you word processors who would like a printed copy of your work with numbered lines. If you want this printed, just PIP it to your printer by using PIP LST: = EXAMPLE.TXT[N]. You can see how the [N] can help. Now try [N2]. Interesting.

If you would like to have long documents printed a page at a time (some .DOC files are very long), just use the PIP parameter [P]. This will send a form feed character every 80 lines. If you use a number [P25], the form feed will be sent every 25 lines. An [F] removes form feed characters.

Here's one for you to try. Back to the A drive. At the A> type PIP B:=A:EXAMPLE.TXT[E]. The [E] means ECHO. What do you think win happen? Try it and find out.

Chapter News

ADAM SUPPORT GROUP
Contact: John Moore
1970 Fisher Tr. NE
Atlanta, GA 30345

KC USERS GROUP
Contact: Joe Reardon
1513 Tauromee
Kansas City, KS 66102

MIDSOUTH ADAM USERS
Contact: Roger Burford
Lot 142 NAS MHP
Millington, TN 38053

NORFOLK ADAM GROUP
Contact: Gerald M. Steen
1000 Rockbridge Avenue #144
Norfolk, VA 23508

SAN DIEGO ADAM USERS GROUP
Contact: Dr. Harold Alexander
37 Catspaw Cape
Coronado, CA 92118

The following people are interested in contacting other ADAM users:

Robert J. Niemeyer
292 Boca Ciega Pt. Blvd. No.
St. Petersburg, FL 33708

William D. Hinrichs
3657 Vinburn Rd.
Deforest, WI 53532

James E. Gilbert
4608 Lakeview Drive
Huntsville, AL 35810

Special Library Disk/DP Offer

AUG is now offering three library disks/dps for $25.00. Include your ID# and the names and numbers of the disks/dps. Mail to AUG, P.O. Box P, Lynbrook, NY 11563.

AUG Rates Going UP !

Starting with the next issue, the AUG membership fee will be raised as follows:

U.S & Domestic	$25.00
Canada & Mexico	$30.00 (U.S. FUNDS)
International	$35.00 (U.S. FUNDS)

However, you can **save $5.00** if we receive your renewal on or before October 15, 1986.

Send us your name, address and ID#, along with a check for $20.00 (U.S. & Domestic) or $25.00 U.S. (Canada & Mexico) or $30.00 U.S. (International).

Let us know whether it is a renewal or an extension of your current membership.

Of course you can still take advantage of the two-year renewal Bonus Library Disk/DP and save up to 30%. Just let us know which **FREE** disk/dp you would like to receive.

Send your check for $20.00 (U.S.A.) for a one-year renewal (or $40.00 for 2 years) to AUG SAVINGS, Box P, Lynbrook, NY 11563.

Do it now and SAVE.

ALPHA-1

DISCOUNT HOME COMPUTER SUPPLIER

1671 East 16th ST., SUITE 146   BROOKLYN, N.Y. 11229

COMPUTER PERIPHERALS FOR THE ADAM
PARALLEL INTERFACE UNIT...$69.95
SPEECH SYNTHESIZER UNIT/CLOCK CALENDAR.......109.95
64K MEMORY EXPANDER..45.00
EXTRA DIGITAL DATA DRIVE.....................................19.00
TRACTOR FEED ASSEMBLY.......................................69.00
ADAMLink Modem...75.00

COMPUTER SUPPLIES FOR THE ADAM
DAISY WHEELS - Pica 10, Courier 10,
   Emphasis, Courier 72..Each 5.50
PRINTER RIBBONS FOR ADAM.........................Each 5.50
DUST COVER FOR ADAM...18.50
   (Vinyl brown 3 piece — CPU. KYBD, PRT)
LORAN DIGITAL DATA PACK ....Each 5.50
                        5/25.00 10/39.00

MAXELL 5¼ SS/DD DISKS (10).............................15.00
MEMOREX 5¼ SS/DD DISKS w/case (10)................15.00
NASHUA 5¼ SS/DD DISKS (10)...............................12.00
ADAM MONITOR CABLE..9.50
COMPUSERVE STARTER KIT....................................19.00
MEDIA MATE MM5 holds up to 50 5¼ Disks..............11.00

SUNRISE SOFTWARE FOR ADAM
GUST BUSTER (DP)...12.00
ROLLOVERTURE (DP) music education....................12.00
QUEST FOR QUINTANA ROO (DP)...........................12.00
CAMPAIGN (DP)..12.00
MOUNTAIN KING (DP)...12.00
NUMBER BUMPER (DP)..12.00

STRATEGIC SOFTWARE
FastFILER (DP) 22.00
A complete file management system. Perfect for mail list, inventory control, etc.
PowerPRINT (DP) 22.00
A complete printing enhancement system for SmartWRITER documents. Includes: Headers, footers, single page print selection, auto page, line spacing, justifications, etc.
PaintMASTER (DP)..22.00
A unique high-resolution drawing and painting system for the ADAM. Variable brush sizes, foreground and background colors, ICON driven command functions. LOAD & SAVE graphics.

STRATEGIC SOFTWARE (Continued)
MultiWRITE (DP)..36.00
The only 64 COLUMN professional word processing system for the ADAM that does not require any additional hardware. MultiWRITE displays a full 64 characters of text at one time without the need to purchase an expensive 80 column board.

TurboLOAD (DP)...27.00
No longer will you have to wait several minutes while your ADAM loads your favorite program into memory. With TurboLOAD, your programs will load as much as ten times faster! Also comes with File Organizer which will allow you to load, run, rename, lock, unlock, and catalog any program files that are contained on any data pack or disk.
DataCALC (DP) spreadsheet program.........................22.00

SignSHOP (DP)..22.00
SignSHOP will allow you to custom design and print signs, notices, fliers, posters, announcements, invitations, greeting cards, letterheads and oversized banners. SignSHOP offers variable positioning commands, 2 type styles, 7 different banner sizes and 2 print qualities using standard ADAM printer.

PACKCOPY by SAGE ENTERPRISES. This program will make backup copies of ADAM software. Makes backup copies of SmartFILER, SmartBASIC, SmartLOGO, SUPER GAMES, etc. Disk or Data Pack.................................**29.00**

CONVERT by SAGE ENTERPRISES This program allows you to copy non-ADAM CP/M disks to ADAM format, giving access to data & programs that may not be available in ADAM CP/M format. Works with Disk Drive. CP/M 2.2 & SmartBASIC. DISK or DATA PACK..............................**27.00**

PERSONAL ACCOUNTANT by SOFTSYNC INC. Double entry bookkeeping system. Compiles financial reports, large data base, breaks down expenses, amortization, payment schedules. Digital Data Pack...**21.00**

COLECO SOFTWARE FOR THE ADAM
CP/M 22 & ASSEMBLER (DP)....................................39.00
ADAMCALC (DP) Spreadsheet program. Originally $39.00
Now.. **25.00**

COLECO SOFTWARE FOR THE ADAM (Continued)
SMART LOGO (DP) Originally $47.00. **Now**................29.00
SMART FILER (DP, DISK)...16.00
EXPERTYPE (DP, DISK)...15.00
SMART LETTERS/FORMS (DP)................................19.00
DONKEY KONG (DP)...19.00
DONKEY KONG JR (DP)...19.00
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AUG rates are GOING UP!

As of September, 1986, the membership fee for AUG will be raised.

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Please see Page 15 for full details.