

NOV 88

NOV 88

THE SAINT LOUIS



USER GROUP

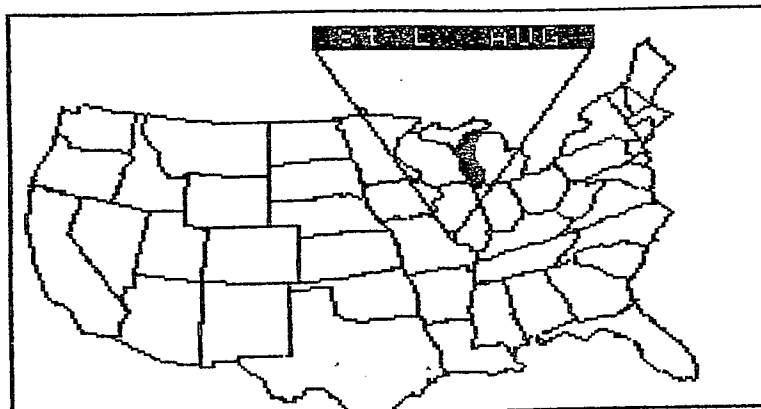
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The ST. LOUIS ADAM USER GROUP NEWSLETTER is produced to keep our members up to date on new software and hardware for the ADAM computer. It is also our desire to pass along ideas, hints, and tips for programming, word processing, telecommunications, and gaming. Each of our members can help us in this task by sharing ideas with us.

We meet on the second Saturday of each month at the Thornhill Branch of the St. Louis County Library. This is located on Fee Fee Road across from Parkway North High School. We meet from 12:30 to 4:00 p.m. All of our members are urged to attend. We invite visitors to come and see if we can help each other.

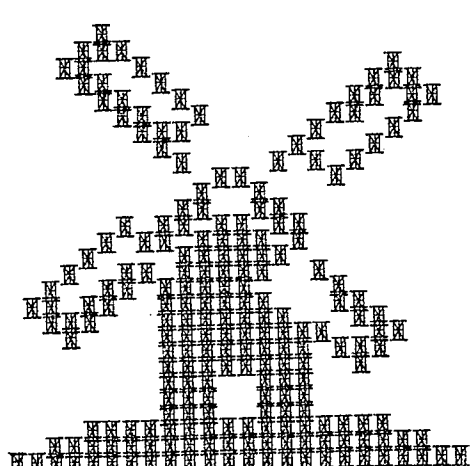
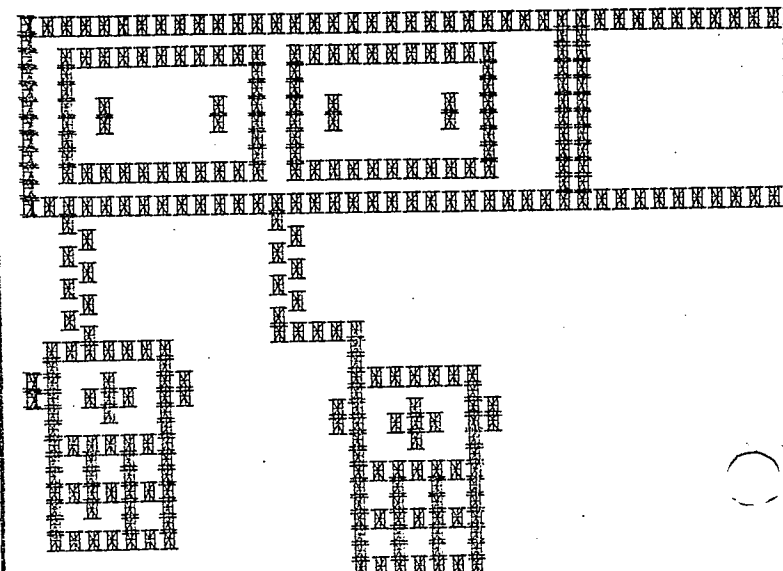
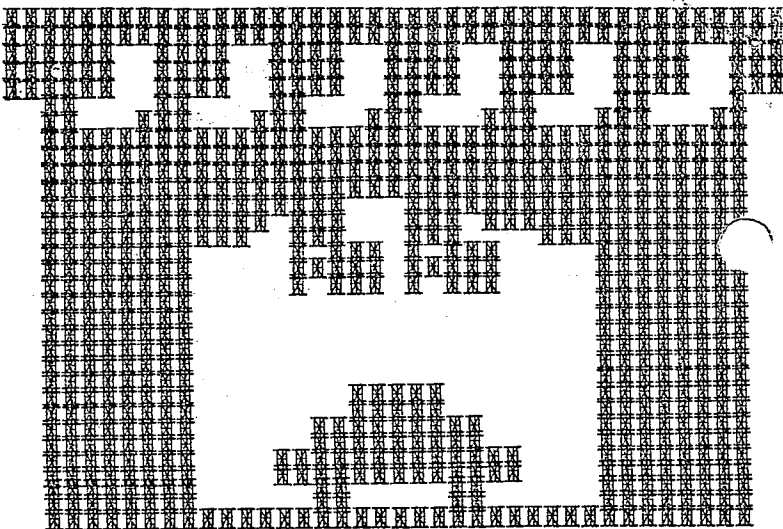
This newsletter will be distributed at each of our meetings. For those members who have paid their dues, we will mail your newsletter to you if you are unable to attend the meeting. You can help keep our costs down by being at the meeting to pick up your copy. The postal rates have made mailing costs a serious matter.

SEE YOU AT THE MEETING!!



# TABLE OF CONTENTS

ANNOUNCEMENTS.....	1
EDITOR ITEMS.....	2
MINUTES.....	3
MEMBER ADS.....	4
READERS' RESPONSES.....	5
PUBLIC DOMAIN.....	6
CP/M AND ADAM.....	7
PRODUCT REVIEWS	
RICKI'S CLIP ART.....	8
NITE LIFE.....	8
SIGNS.....	9
FOREPLAY.....	9
PHRASE CRAZE.....	10
CONSTRUCTION SET.....	11
TECHNICAL INFORMATION.....	12
REPRINTS.....	13
RUGER.....	14
EAUG.....	15
VIRUS.....	16
ORPHANWARE.....	17-18
IERUG.....	19-20
W & B.....	21-22
ADAM'S ALIVE.....	23
PHRASE PAK WORK SHEET.....	24



The pictures in this issue of the STLAUG Newsletter were done with the Sign Shop program, one of the original Graphics programs for ADAM. They were printed on the ADAM daisy wheel printer. The pictures are all from our PD Volume #37 and are available to you through our library.

### ADVERTISE IN ST.L.AUG NEWSLETTER

The STLAUG Newsletter is accepting advertising for publication.

We believe advertisements help ADAM owners know what is available and therefore ads are a service. Our rates are very competitive.

**Commercial rates**  
Full Page ad is \$ 20.00 per issue  
Half page ad is \$ 13.00 per issue

**ADAM ITEMS FOR SALE**  
PAID Up Member: FREE  
NON-member: \$5 for upto 50 words

**CONTACT: MIKE KEITH**

FOR MEMBERSHIP INFORMATION PLEASE CONTACT BARRY WILSON AT THE ADDRESS ON THE COVER OR MIKE KEITH, P.O.BOX 368, FREDERICKTOWN, MO 63645.

## ADS & ANNOUNCEMENTS

### DISKS FOR SALE

.L. AUG now has available for sale 5 1/4 inch disks priced at \$1/2 or \$3/3 if 30 or more are purchased at one time. Call AL FITZGERALD prior to each meeting to order and you can then pick them up at the meeting. These are very good disks, I recently got 50 for myself.

### WANTED\*\*\*WANTED

1. Instructions for Auto Writer
  2. FOR MONTHLY MEETING: Bring Blank Media to copy PD software at meeting. Bring software to demonstrate for others.
- Bring Hardware to help set up at least 2 Adam Systems at meeting.

IF you want to buy or sell any ADAM item, place a free (to members) Ad in our newsletter.

NON-members may advertise ADAM items for sale at a cost of \$5.00 for upto words, upto 3 issues of newsletter. This is for individuals and NOT companies. Commercial advertising rates are : \$20 per page per issue and \$13.00 per half page per issue. Ads should be ready for reproduction but may be reset by Newsletter where necessary.  
CONTACT MIKE KEITH AS TO ADS AND AD INFORMATION.

### LOCAL BBS

Our local BBS is operating at Adam Default Settings, Thur-Sun 9PM - 6 AM. We will be placing some information, notices, etc. on the BBS upto 30 days before they will become available in the newsletter. So to get information faster, Try the BBS.

### GROUP BUYING

We are again investigating group purchases at lower prices. We need to know what you would be interested in purchasing for your ADAM in the next 2 months, so we can determine what size order we might place. SEND info to Sec. Don Bueltmann.

## ADAM SUPPLIES

DANNY GRANTHAM has the following extra Adam Supplies available. If you want any of these contact Danny Grantham directly.:

*SmartBasic DataPacks(Original)*  
*Buck Rogers*  
*Adam Printer Ribbons*  
*110 VOIt Adaptors*  
*Sony 60 minute blank tapes.*

### ADDING DOS TO NON-DOS MICROS

Danny Grantham informs us of the following information from Oct. issue of PC Resource. (Article written by John Wolfskill). A new brand of expansion hardware and software will allow you to add DOS to non-DOS Micros. MS-DOS Coprocessors, also called MS-DOS cards and bridge boards and software translators can transform non-DOS computers into compatibles.

Another approach to adding dual processing capabilities is to install a translation program that converts an application program instructions so that the computer's CPU can understand.

Some of the computers tested are listed below with their expansion costs:

Atairi 1040 ST	\$ 90.00
Apple II GS	\$489.00
Commodore Amiga 2000	\$ 699.00
Apple Macintosh SE	\$1195.00
Apple Macintosh II	\$1495.00.

### ELECTIONS AT NEXT MEETING.

Be sure to show up at meeting or you might be elected an officer.

## EDITOR ITEMS

☐☐☐ The new look for our newsletter is just about complete. We have been adopting page outlines and headers and attempting a better layout of our newsletter. If you have any ideas or suggestions please contact Mike Keith. Next month we will be printing the margins you can use in submitting your articles. This will help us keep up the look of our newsletter.

☐☐☐ As you read through this newsletter you will notice that we have used a different type of graphics. In previous newsletters we have used the excellent graphics from Power Paint. In this newsletter we have used the graphics generated by the SIGN SHOP program by Walters Software. While this program has been around a while, it is still great. It is the only one that I know of that gives EVERY Adam owner the capability of printing out pictures. It uses the Adam printer and does a good job. The pictures that you see here all came from our own Public Domain Volume 37 of Sign Shop Pictures. Get this volume and use it for your own signs, cards, and banners.

☐☐☐ We are quite fortunate to have several reviews in this newsletter. Read them over. If you decide to order one of the products, let them know that you heard about it here.

☐☐☐ We have an excellent article about CP/M in this issue. This is a great addition and we hope to continue articles on CP/M. The knowledge and use of this program can really expand your ADAM computer. A note about CP/M and the larger memory expanders: It does work with them quite well. You will get the patch program software with the memory expander so that CP/M will address the larger size. You will find this to be a wonderful addition. I have used it to play text games such as Zork etc. and the speed is phenomenal, there is no time lag at all. Try it, you'll like it.

☐☐☐ We can use your articles, ideas, hints, helps, and questions on Basic, CP/M, Logo, Word Processing, games etc. Send them to Barry Wilson at the address on the front cover or to Mike Keith, P.O. Box 368, Fredericktown, MO 63645.

☐☐☐ Are you in the market for some ADAM software or hardware? We have several ads from our members in this issue. Check it out.

☐☐☐ Would you like to leave a few hints on what you'd like for Christmas? We have ads from software distributors in this issue. Maybe you could just circle the item you want (in a bright color, of course) and leave the newsletter laying where you know someone might see it. Not a bad way to drop a hint and get some good quality software.

☐☐☐ GHOST ZAPPERS has been released by Steve Pitman. This is a shoot 'em up game using the excellent graphics and music capabilities of ADAM.

☐☐☐ Remember, ELECTION OF OFFICERS IN DECEMBER. Plan on being with us then. We will be having some special things goin on->software demonstrations, elections, a special gift for everyone coming, and, we hope, a little Christmas party. See you December 10.

☐☐☐ Check out our Public Domain page. You will find 7 new volumes listed there. Two of the volumes are CP/M volumes. During the next several months there will be more additions to this library. If you have something to submit, send it to Mike Keith.

☐☐☐ Bob Warren has taken his BBS off of the phone lines. He has told me, however, that another ADAM user in Flat River now has his software and has a BBS up. It is online from 9pm-9am daily. The number is 1-314-431-5722. Give him a call. It is brand new with only about 4 subscribers so far.

☐☐☐ According to the the October N & B newsletter GODOS should be out by now. Sol Swift said that shipping was slated for Nov. 1. Hopefully we will have a copy to review shortly.

☐☐☐ E & T is producing and selling the new EPROM chips for the ADAM disk drives. These chips will significantly lower the formatting time as well as the read/write time. The chip for the 320k drive is \$19.95 and the chip for the 160k drive is \$17.95. A \$3.00 rebate for your old EPROM is available. You can order these from E & T or NIAD.

☐☐☐ Digital Express is finishing up the work on their first adventure game TEMPLE OF THE SNOW DRAGON. Early reports have it that this will be a text/graphics game and should be quite good.

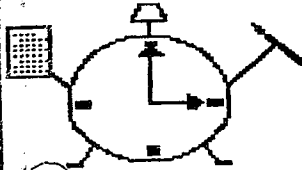
☐☐☐ Walters Software has their PRINT WORKS program ready for sale. It does require a dot matrix printer for output. The program will give us the ability to print banners, signs, and cards just like programs for the IBM, Commodore and other computers. (See their ad in this issue.) This could inspire you to get a dot matrix printer.

☐☐☐ In the next issue we hope to have some information regarding adding a dot matrix printer to your ADAM. If any of you who have done this would like to send in your suggestions, please send them to Mike Keith.

☐☐☐ The author of Speedy Write has announced that there will be a delay in completing his spell checker. We will let you know more as we get it.

☐☐☐ MMSG has released COPY CART+ D2.0. This is a much improved version of their early program.

☐☐☐ Al Roginsky has released LAS VEGAS CRAPS, a excellent hi-res game with all the options of the real dice game.



# MINUTES

From Your Secretary  
Don Bueltmann

We had another interesting meeting in October. Barry demonstrated the new disk tht was developed for new members of our group. The disk opens with a screen of the club's logo and a menu of programs available. The programs consist of games, music, etc. It was quite impressive.

We also had a demonstration of PHRASE CRAZE, a wheel of fortune type game. The game was really great. As a "Wheel" fan I really enjoyed the game. Mike Keith had also ordered the Phrase Craze Construction Set. He suggested that the club should consider making phrase packages and selling them. He asks that ve all work on phrases that can be put into a phrase package. The specifications are 13 characters per line and up to 4 lines. Your clue word can be up to 12 characters. Mike and Al Fitzgerald, representing the clergy in our club, are making up a Biblical package. Use your ingenuity, pick a topic that interests you and get to work. Remember Barry, we are trying to sell these so keep it clean.

Mike Keith gave us an update on the information he got from NIAD about Public Domain, EPROMS, and hard drives. Most exciting, the hardware for a SCANNER for the ADAM is complete. We are now waiting for the completion of the software and the ADAM will have a new adjunct unit. Is there no end to the exciting future for our abandoned computer?

Mike also pointed out anothersource of money for the club and a savings to our members. Save your old ribbon cases and spools! We can have new, colored, ribbons put in them.

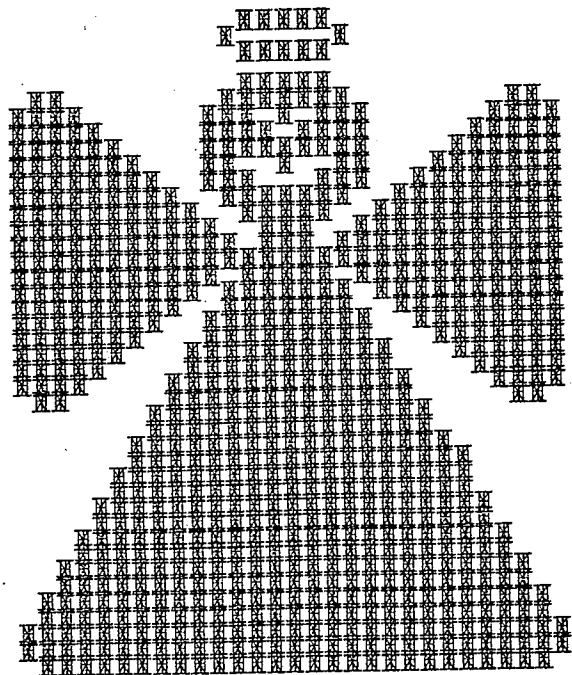
Al Fitzgerald announced that he had purchased an Avatex 1200 modem for \$70 plus shipping and handling. He will be using this modem on the BBS. He asked the club to chip in \$40 for the modem as our share for its use. This was voted on and approved. Thanks to Al for his work on the club BBS. Al also mentioned that he gets a lot of calls from people who need tapes and ribbons. He has purchased MEGACOPY to make formatted tapes at cheaper prices for these people and for the club members. Al, Barry, and Jim Duffy had all ordered the special discounted tapes from Orphanware Business Systems. I think all together we ordered 50 tapes from Big John. We have heard rumors that Big John was inundated with orders and wondered how he was going to catch up.

t was also mentioned that there is a National Directory of people who use National Bulletin Boards. From this directory, you can determine what boards an individual subscribes to.

A major discussion took place over the election of officers. Barry announced that the VP position was open. He was going to spend more time in his position as co-editor. **ELECTION OF OFFICERS will be during DECEMBER meeting.** Please attend the meetings, support your officers and your club. I was asked to announce that anyone not attending the next meeting may be nominated for office. I doubt that we would really do this since we want active, interested members as officers.

We renewed our meetings at the Thornhill Library. We will continue meeting on the second Saturday of every month from 12:30 to 4:00. Starting in January we will be in the big meeting room. I would like to extend an invitation to any of our out of town members or readers to attend one of our meetings. Just call me or any other member for directions.

The most exciting thing that took place at the meeting was the **BIG** computer sale. In an effort to keep ADAM systems in operation, and I must be honest, to take advantage of some real good deals, I made out like a bandit and bought two ADAM systems from Dennis Brown and Greg Davenport. Oh well, someone has to keep ADAMS from gahtering dust in a closet. See you all at the next meeting.





# READERS RESPONSE

Here are additional responses from Readers to Items appearing in Recent issues of the St.L. AUG. YOUR response to items in our newsletter are invited.

I support adult games and programs for ADAM. I read the write up NIAD gave Foreplay, and even though NIAD is a Christian run business, I believe that by them simply not selling the program would show they do not endorse the game. But I feel that going on print, as boycotting the game is wrong. Got to go. Take care until later.

Barry,

Your editorial on X-rated games got me interested so I started writing one myself. When, and if, it is ready for public viewing I will send a copy to you for your PD software library. So far, it is as X-rated as a Disney movie. I should be able to spice it up when it is written.

Dear Barry:

OK, you asked for it...here it is!

I honestly meant to respond to your first request for feedback, but I somehow got sidetracked (with SpeedyWrite 2).

However, I agree with your position favoring XXX rated games being made available for ADAM owners.

Further, like the venerable 'nine old men', I would add a concurring, but separate opinion: While it is true that protection for the creation of these games is inherent in the First Amendment to the Constitution, questions as to the availability and distribution of such material among the general populace, have clogged the Court for decades. It has grappled mightily with standards that would not only leave intact the First Amendment, but would respect the rights of those desirous of acquiring such material, while at the same time refrain from offending those who are opposed. Unfortunately, this is a case where you cannot have all that cake and eat it, too.

Such ambiguous terms as 'sexually explicit material, prevailing community standards, and redeeming social value' do not meet the litmus test of the First Amendment, that is "...freedom of speech (or expression...". The bulk of our literature confirms that 'man is a sexual being', and sexual expression is central to these arguments that have come before the Court. We cannot affirm man's right to free speech, while, at the same time, deny his existence!

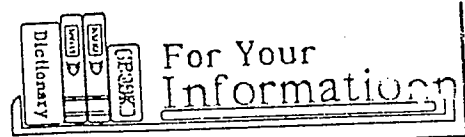
The question as to availability is most ludicrous. If you, in fact, accord the right to free expression, you cannot realistically bar that expression from the public domain...the thing exists for all intents and purpose.

As to restrictions regarding age, this makes sense in that the practice is now almost universally followed in the law. However, in my opinion, a person proficient in the use of computers has the ability to acquire material far more dangerous than mere sexually explicit games.

So, put me in the stack of those in favor of free speech!

## STAR NX1000 PROBLEMS

A member wrote in about his problems with his Star NX1000 printer. I remembered seeing something in the current NIAD on this & was able to send him the following info. I am reprinting it here should other readers have similar problems.



Dear ADAMites

Did you find, as I did, after buying your Star NX-1000 or NX-1000 Rainbow printer, thinking you'd get a great printer to go with your great ADAM, that after you hooked it up to your new Orphanware, PIA2 Parallel Interface, it just 'would not print right? Like mine, it would add and subtract characters at random, miss control codes and generally act stupid. Right?

This is exactly what happened to me. You see, I had used a borrowed, Star NX-10, which performed beautifully. So the NX-1000 for just a little bit more money, for a much better printer seemed like a good deal...but, alas no.

I called everybody who was supposed to know answers to problems like this...like Big John at Orphanware, someone else here and someone else there, all to no avail. I was told it was a hardware problem, a software problem and a problem with only one answer... "Kid, go buy another printer" (which I considered doing by the way) but then...

I called Star Micronics Technical Support in California at (800) 537-8270 again, even though I had talked to them before, this time I got a different answer.

It seems that there is a difference in the way different computers send information to the printer. Some send an 8 bit code and some, like the ADAM, send a 7 bit code. The 8th bit is not always used anyway but without it the printer gets confused (at least this one does) and then what it prints is garbage. The reason for this is the printer's ROM chip does not understand the 7 bit code. Now the great news

Star has developed a new ROM chip that takes care of this problem and will send one ABSOLUTELY FREE (I received



mine within a week). The catch?... You do have to send the old one back, or pay \$30.00.

The ROM chip is the rectangular thing in the printer to the right of the DIP switches. My old chip had a label on top that said "NXIP 1.11 C L", the new one says "NXIP 1.4 C L" You'll need a chip (IC) puller to get it out without bending any of the 28 "legs." You can get one at Radio Shack ... And now you know! Happy printing.

KENNETH R. HERNDON Director Sunshine Inn Coffeehouse 33 South Arsenal Avenue Indianapolis, IN 46201-3811 (317) 638-3689



## CP/M

## WHAT IT IS &amp; DOES ADAM NEED IT--&gt;Aaron Hamlett

I am writing this for all of the ADAM users who are not experts with the various aspects of CP/M on ADAM. With all of the public domain software available, it is very hard to know what to buy and what to leave alone. Very few things come with instructions and, if you do not have some help, things can get real nasty--real fast. Especially with CP/M.

CP/M, or, Control Program Monitor was THE operating system for microcomputers until IBM introduced their PC or MS-DOS (Disk Operating System). At that time people were upset that IBM had changed operating systems but, in time, CP/M lost and DOS won. However, like ADAM, CP/M did not die. It still has a loyal following.

When CP/M was designed, it was patterned after the communication systems of the day. This is why such terms as TTY and CONSOLE, which stand for teletype and the console the TTY operators used, are a part of CP/M. As a historical note, DOS and trace part of their design to CP/M.

In the beginning, CP/M had a lot of problems that users had to put up with. CP/M is hardware dependant. That means one computer's CP/M would not transfer to another computer from a different manufacturer and run. Today this is not unusual. All computers have some things that have to be hardware dependant. Even some IBM PC clones will not run programs written for the actual IBM PC. While this is not a problem, it was a part of the biggest CP/M problem. What made CP/M so bad was that if you owned a computer and then upgraded your memory, you had to buy another CP/M that was configured for your computer with the expanded memory. The CP/M for the ADAM is more advanced. If you add the 64k memory expander ADAM CP/M handles it just fine. I have never tried ADAM CP/M with the new 256k and 512k expanders, but my guess is that it would work just as well. So, if it was this much trouble, how did CP/M get to be so popular?

The reason was that it allowed computer owners to run programs that had been written on any other CP/M machine. As an example, I HAD a (always make backups) chess game that I downloaded from a BBS. I have no idea what computer it was written on, but it ran perfectly on my ADAM. Almost every CP/M program I have was written on some computer other than ADAM and they all work. Some of them make me wish that I had a disk drive, but they do work.

Another historical note. MS-DOS 4.0 was just released. In October's edition of COMPUTER SHOPPER they mentioned that MS-DOS 4.0 needed to be configured for each system and its memory size, just as CP/M used to be. Let us hope that this is not true, as it will be a giant step backwards.

Now that you know about CP/M, is it good for the ADAM? Well, yes and no. I know that is a lousy answer, but I have my reasons.

There are many good reasons for CP/M. It opens your computer world up wide. With CP/M and a telecommunications program like MADAM7 you can call a BBS and download public domain programs with error checking. You can write programs in 8080 assembly language (not Z-80 and I don't know why that is.) and up-load them to the BBS. You can get compilers and applications programs that are not available in any other form for the ADAM. You can even tailor CP/M to meet your particular needs. All of these make a good argument for getting and using CP/M.

If all you want CP/M for is to run application programs, that's fine. It is easy to use and very powerful. However, if your goal is to develop software, or use CP/M to explore the innermost workings of the ADAM, beware. CP/M will take long hours of study to learn how to utilize it. It is very hard to learn CP/M by yourself. It is complicated and there are many pitfalls. CP/M uses your media drives quite a bit. A disk drive is very highly recommended. CP/M is very sensitive to mistakes. Since it is more powerful than ADAM's built-in operating system it is very easy to wipe out an entire disk.

With CP/M, you can do almost anything you can dream up. Once CP/M is mastered, it allows you to master the computer. So, while CP/M is not for everybody, it is worth the investment for people who seriously want to enter the computer generation, or who would like to expand the programs that their ADAM can handle.

# Walters Software Co.

ADAM

Box 289-A

ADAM

Titusville, PA 16254

Phone 1-814-827-3776

## The Print Works

A print shop program for the ADAM and a dot matrix printer. Design cards, signs, banners, and more. D/DDP \$29.95. GREAT!

## Spell Wizard

A complete spelling checker for the ADAM computer. Checks all ASCII files, SmartWriter, WordWrite and more. Includes over 12,000 words. 256K expander can hold over 20,000 words. Color screens and Smart Key drives. D/DDP \$29.95. SUPER!

## SmartDisk I

Use a hardisk, Adam or dot matrix printer with SmartWriter. D/DDP \$19.95.

## SmartDisk II

Complete hardisk and utilities for both SmartBasic 1 & 2. D/DDP \$24.95.

SmartDisk II - PBOOT - AutoDisk - PMSBOOT  
Liberator - RASDK - Double Disk Formatter  
Media Aid Plus - Mailer - BorderPlus  
Lockets and Family Photo Question Books  
Lockets and Family Photo Writers

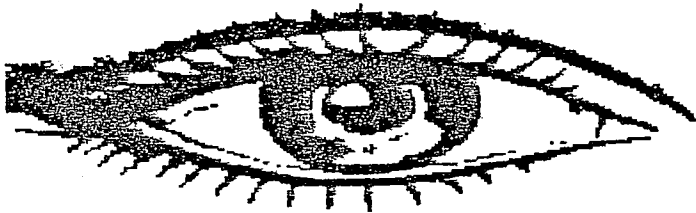
Send a floppy for a complete catalog of Walters Software products.

This ad was done with The Print Works, an Adam computer and dot matrix printer.



# PRODUCT

# REVIEWS



## RICKI'S CLIP ART

reviewed by Eric Danz

An adult software producer has produced clip art graphics with adult themes in them. The software available is Ricki Gerlach's volumes for use with either Power Paint, Show Off I, and Sign Shop--depending on which of the volumes you purchase. Each contains adult material and should not be viewed by the younger users. These volumes are interesting and can be used to add a little adult touch to letters if printed out. They can be viewed for fun, and also used in programs of adult nature. These volumes are very detailed and the graphics are well done. More volumes are always welcome.

Thank you Ricki for creating another first in the adult sector of ADAM software. Keep the ideas coming.



## NITE LIFE

reviewed by Eric Danz

This adult theme program is well written and can be played by either male or female players. The idea is to meet a person at a night club and ask that person out and see what could happen if...

The program's grammar is very well placed and the idea is fresh. Programming is done in BASIC and is all text. You have different choices to make as you go along with the game.

Hopefully a version that is a little more explicit and has a longer playing time will be created. For now, this game is fine and is worth the purchase.



## NITE LIFE

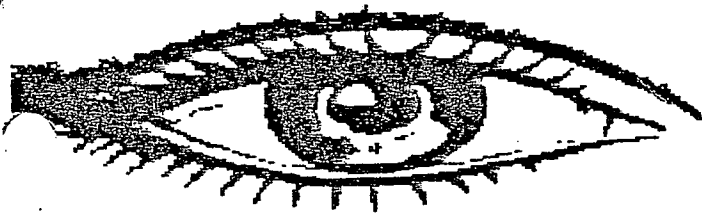
reviewed by Barry Wilson

An adult theme game which is very well written. It can be played by either male or female players. You make a choice of which night club to enter and then choose from 5 members of the opposite sex. How the evening proceeds from there is up to you and your choices.

I especially like a random number effect in the programming so that each time you play the game, the same choice may not give you the same result. This makes each game new and interesting.

I found the game to be explicit enough, although some will find it too explicit and others not explicit enough. I recommend buying this to anyone interested in adult programming for ADAM.

## PRODUCT



## REVIEWS

PHRASE CRAZE

reviewed by Mike Keith

Phrase Craze is a "Wheel of Fortune" type game, and is extremely well done.

This is a one screen game, and that is all that is needed. The clue for the phrase appears across the top. The board itself appears just below the clue. The board is divided with places for each character and spaces showing where no character appears. As a character is correctly guessed, that character appears in its proper place or places in the puzzle. (No, Vanna does NOT turn the letters. This may be a plus of minus for you.)

In the lower left corner of the screen is the wheel. When spinning for a letter a ball goes around the wheel, finally stopping at the value of the letter. I have not noticed any pattern to this & feel that it is truly random.

The lower right portion of the screen is reserved for several functions. It serves as a message center during the loading of the program. It then asks for the names of the players. Either two or three players can play at one time. It also asks if you are using a Phrase Pak. It also is the area where you make your choices. The program will tell you whose turn it is and ask if you want to roll, buy a vowel, or solve the puzzle. In picking a letter, all you have to do is move the selector to the letter that you want. The letterboard is displayed directly under the puzzle screen. Unused consonants are in large size and vowels and used consonants are in a smaller size. (If you are buying a vowel, they are displayed in the larger size.) If your guess is right, the letters appear in the puzzle and your score is updated.

Again, in the lower right of the screen is your score. Each player's name appears and there are two scores kept for each player. One is for the current round and the other is for the whole game. A game consists of three rounds. The high score of all three rounds is the winner of the game.

When you choose to solve the puzzle you must use the keyboard to input your answer. Here lies the weakest part of the program. You must type in ONLY THE MISSING LETTERS, AND IN THE CORRECT ORDER. There is no provision made for errors. This can get you in trouble unless you are very careful. I have a tendency to type in my answer, sometimes including the letters that already appear. I would like to see a "fix" for this area. Perhaps a small screen in the lower right allowing the typing of the entire puzzle and allowing the opportunity to change any misspellings. I have overcome this problem by instituting a rule where the player says his answer first, then types it in. If a typo is made, then all others will deliberately missolve the puzzle giving the first person another chance to type his answer correctly. This doesn't happen often, but it would be easier if some change could be made here.

At the end of all three rounds, the winner is determined. If the score is high enough, the winners name and score will be entered on the "Hall of Fame" screen.

I have found this program to be delightful. The graphics are good and do what they are supposed to do. It holds your interest, challenges you to think, and will give hours of fun. I have used it with my 9 year old daughter and have even allowed my 4 year old to help out. My family and I have found this to be a great game to play as a family. You can even make up teams if you have more than three in your family. In this day and age finding a game that will interest individuals and families is a pleasant surprise. I feel that PHRASE CRAZE is an excellent buy for the money->disk, \$17.95, tape, \$19.95. It is easy to use, fun to play, and comes with plenty of phrases to stay fresh. With the addition of Phrase Paks you can play for a long time and never repeat a game. I recommend it to you for addition to your program library.



THE ST. LOUIS  
**ADAM**<sup>tm</sup>  
 USER GROUP  
 12967 Weatherfield Dr.  
 St. Louis, MO 63146

**JIM GUENZEL**  
 12221 Spring Shadow Ct.  
 Maryland Hts., Mo. 63043-2122  
 || 314/878-2371 ||

SEP. 20, 1988

COOLING THE ADAM DISK DRIVE - 160k.

**SYMPTOM(s):** The drive works OK for a short time then starts acting up. You may get "BAD BLOCK", "MISSING MEDIA", "UNABLE TO ACCESS DEVICE", "UNABLE TO ACCESS DRIVE" or similar error messages while trying to do reads or writes to the disk.

I have worked with two drives that behave this way. Here is a fix that works (see figure):

I cut away a portion of the disk drive case and placed a small muffin fan over the opening. The fan forces cooling air **into** the drive. I think that fan keeps the chips on the right side of the drive cool enough to work properly during reads and writes. (REMOVE THE CASE BY REMOVING THE 6 SCREWS FROM THE BOTTOM AND THEN THE 4 SCREWS FROM THE INSIDE OF THE TOP.)

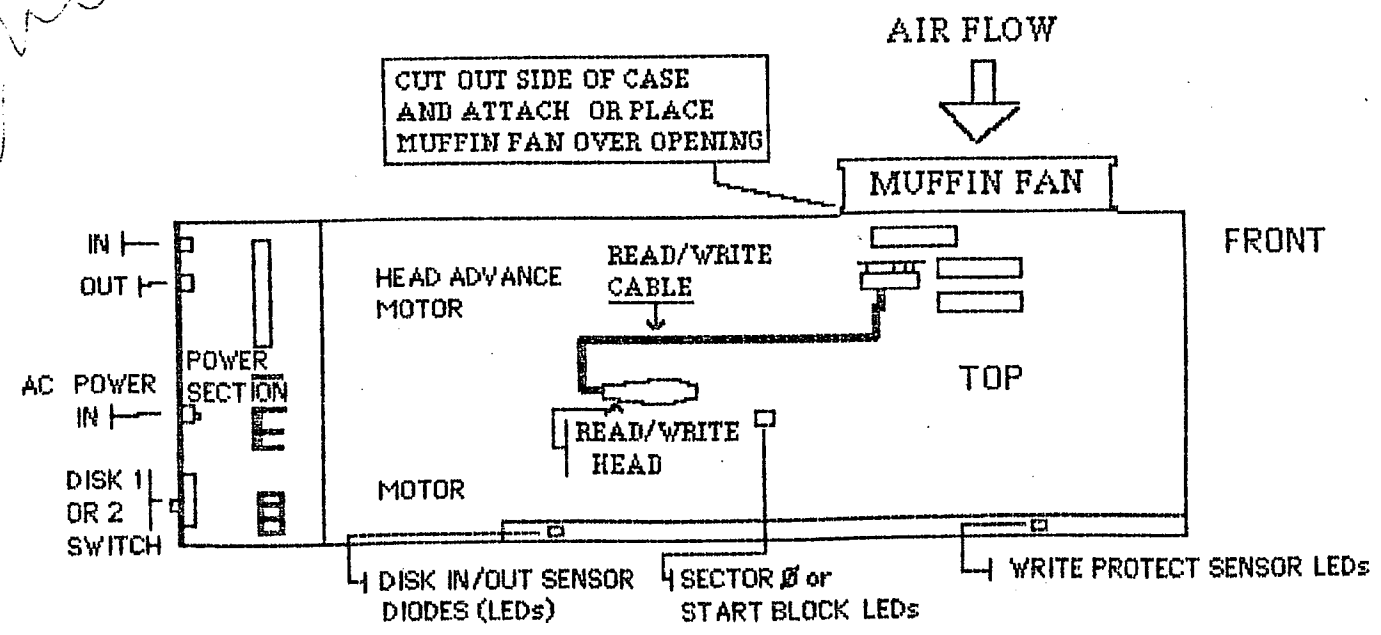
As a test of this fix I turned the fan off and after about five minutes the drive started acting up again. A few minutes after I turned the fan back on the drive worked fine and was still working fine after two hours of heavy use. As long as this fix works I see no reason look deeper ("if it ain't broke don't fix it")

The problem may be caused by too high a voltage being applied to the read/write chips. Or by too low an impedance on the read/write outputs. Or a combination of both. The result would be higher current flow which means more heat. The heat builds to a point where it causes breakdown of one or more components.

Another fix would be to upgrade the 160K drive to a 360K or 720K drive.

Enjoy,

Jim



REPRINT SECTION  
FROM OTHER ADAM GROUPS

REPRINT SECTION  
FROM OTHER MADA GROUPS

for use with

for use with



TMMT

THE COLECOVISION  
FAMILY COMPUTER SYSTEM

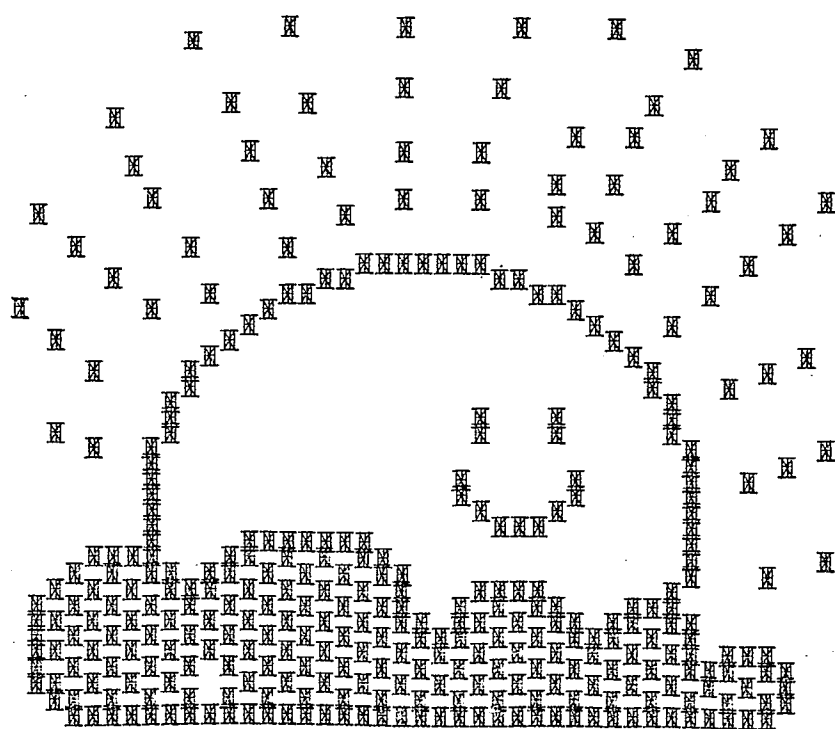
THE COLECOVISION  
FAMILY COMPUTER SYSTEM

The reprint section in the St. L. AUG Newsletter reprints articles and items of interest from OTHER newsletters and user groups.

This is done for the purposes of providing the information contained in such reprints, to show our members what else is available for ADAM, and to give exposure to other user groups and newsletters.

Information, including address and costs of the other users groups and newsletter utilized in our reprint section are available from Barry Wilson for those interested.

In addition, from time to time, we request sample copies of entire newsletters from other user groups. We usually provide stamps and mailing labels.





BASIC WORKSHOP

The next subject we probably should go into is "statements". Statements are placed in a program to tell Adam what you want it to do.

The INPUT and GET statements tell the computer to accept data from the keyboard. The INPUT statement accepts a response from the keyboard after the RETURN key is pressed. The GET statement accepts a one-character response from the keyboard or other input device without waiting for the user to press the RETURN key.

To see how a variable is used with an INPUT statement, make sure memory is clear by typing NEM, and type the following program lines. Be sure you always press RETURN at the end of each program line.

10 INPUT "What is your name?"; name\$
20 PRINT "Hi,"; name\$
Notice that a semicolon is used in line 10, followed by a space before the variable (name\$). In line 20, there is a space after Hi, between the comma and the quotation mark. These spaces are very important and must not be left out. Punctuation and spacing are VERY important in programming. A misplaced comma or a space left out can mean that your program will not work when you go to RUN it.

CP/M WORKSHOP

To see how a variable works with a GET statement, again clear memory by typing NEM, and try the following little program.

10 PRINT "Press any key to clear screen";
20 GET a\$
30 HOME
Type RUN and press RETURN. Now, press any key to clear screen, will appear on your screen. The program has now been stopped, and Adam will do nothing else, until you press any key, to continue. When you press any key, line 20 has the information it needs, and goes on to line 30 HOME. HOME is also a statement, which instructs the computer to clear the screen and place the cursor in the top left hand corner of the screen.

This program stops the action of a program to give you some breathing space before going on to something else. Unlike an INPUT statement, the response to a GET statement does not appear on the screen, nor does the response need to be followed by pressing RETURN. The GET statement can be used with either numeric or string variables. The above little program is sometimes a big help when incorporated into a longer program. As your programs become more complicated, the REM statement can be used to explain what you are doing as you go. REM is short for REMARK, and allows you to type comments into the program which will not appear on your screen, and the computer will not try to execute. Try typing the following line in front of either of the above short programs and see what happens: 5 REM -practice Program-

CP/M WORKSHOP

The second of the built-in commands is ERA. This command is on SmartKEY II, and stands for Erase. The ERA (erase) command removes files from your tape or disk and gives you space for new files. Press SmartKEY II (ERA). The command ERA will appear on your screen. Type in the name of the file you wish to erase, and push RETURN. The command line should look like this:

A> ERA filename.txt

Adam will now completely remove this file from your tape or disk. Be sure that you want to erase this file, and that you have typed in the correct file name, before you push RETURN. The name will disappear from the directory, and there is NO getting the file back once it has been erased!

SmartKEY III is the REN (rename) command. This command lets you change the name of a file. It doesn't change the contents of the file any, just the name of the file. After pressing SmartKEY III, or typing in the command REN, type in (enter) the new name that you wish to give your file. Enter an equal sign (=), and then the name of the file as it now exists. Check the command line to make sure it reads:

A> REN NEWFILE.TXT=OLDFILE.TXT

If the command line is correct, press RETURN and Adam chirps awhile, then gives you a prompt (>). You don't see Adam doing anything, but if you check your directory, you will see that the name of your file has, indeed, been changed!

SmartKEY IV, the USER command lets you divide your tape or disk into sections, giving each section an ID number between 0 - 15, each to be used by a different person. Don't worry

about this command unless you are going to share your tape or disk with someone, and you don't want the other party to see what you have on your section. I prefer not to share mine, if you don't mind!

SmartKEY V, the SAVE command, is another command you will probably never use. It is a primitive method of storing the contents of Adam's memory, and is rarely used unless you are assembly language programming. I learn slow, and I'm not quite ready for that, yet, so if you want to get ahead of me, study your CP/M manual!

If you remember, we told you last month that you can see what is in your CP/M file by typing the command TYPE <filename> or by pressing SmartKEY VI. Adam will then type out the ASCII characters in that file to your screen, and to your printer at the same time, if you wish. The letters ASCII stand for American Standard Code for Information Interchange. The ASCII code is an information code of 128 codes; 96 displayable characters - upper and lower case alphabet, punctuation marks, and numbers - and 32 non-displayable characters. Your CP/M manual has a complete list of the ASCII codes.

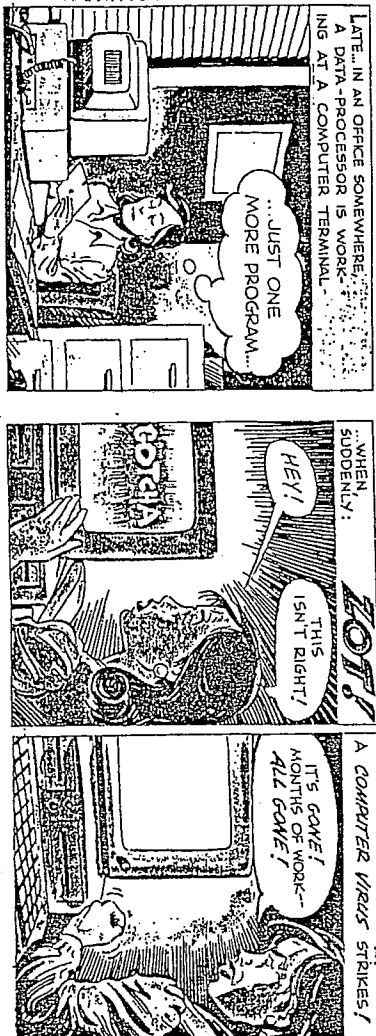
If the file is not an ASCII file, but is an executable file, such as a .COM file, you will quickly see a lot of gibberish on your screen, after which you will get a prompt. Adam cannot type a file to your screen unless it is an ASCII file.

After commanding Adam to TYPE your file, it will appear on your screen very rapidly. If you want to read it as it comes on the screen, remember that pressing a ^S will stop your screen until you hit another key, so that you can read what is printed there. Most of the time, however, it is better to print a hard copy, and read it at your leisure. I find you can understand it better if you're not trying to keep ahead of it!

EXCERPTS FROM "INVASION OF THE DATA SNATCHERS" RECENT TIME MAGAZINE.

# Technology INVASION OF THE DATA SNATCHERS!

A "VIRUS" EPIDEMIC STRIKES TERROR IN THE COMPUTER WORLD



What is clear, however, is that a once rare electronic "disease" has suddenly reached epidemic proportions across the U.S. It is disrupting operations, destroying data and raising disturbing questions about the vulnerability of information systems everywhere. Forty years after the dawn of the computer era, when society has become dependent on high-speed information processing for everything from corner cash machines to military-defense systems, the computer world is being threatened by an enemy from within.

The Cover Story in a

Whether biological or electronic, is basically an information stealer. Biological viruses are tiny scraps of genetic code—DNA or RNA—that can take over the machinery of a living cell and trick it into making thousands of flawless replicas of the original virus. Like its biological counterpart, a computer virus carries in its instructional code the recipe for making perfect copies of itself. Loaded in a host computer, the typical virus takes temporary control of the computer's disk operating system. Then, whenever the infected computer comes in contact with an uninfected piece of software, a fresh copy of the virus passes into the new program. Thus the infection can be spread from computer to computer by unsuspecting users who either swap disks or send programs to one another over telephone lines. In today's computer culture, in which everybody from video gamblers to business trades computer disks like baseball cards, the potential for widespread contagion is enormous.

Since viruses can travel from one place to another as fast as a phone call, a single strain can quickly turn up in computers hundreds of miles apart.

At last count, more than 25 different viral strains had been isolated, and new ones are emerging nearly every week. Some are relatively benign, like the virus spread through the Comserve network that causes machines equipped with voice synthesizers to mumble the words "Don't panic." Others are more of a nuisance, causing temporary malfunctions or making it difficult to run isolated programs. But some seem bent on destroying valuable data. "Your worst fear has come true," wrote a computerer in a report he posted on an electronic bulletin board to warn other users about a new Mandelbrot virus. "Don't share disks. Don't copy software. Don't let anyone touch your machine. Just say no."

So-called retroviruses are designed to reappear in systems after their memories have been wiped clean. Other viruses infect a computer's hardware, speeding up a disk drive, for example, so that it soon erases itself out. Particularly dangerous are bogus antiviral programs that are actually viruses in disguise and spread infection rather than stop it.

Where will it end? The computer world hopes that the novelty of software viruses will pass, going the way of letter bombs and poisoned T-bonol. But even if the epidemic eventually subsides, the threat will remain. The uninhibited program swapping that made the early days of the computer revolution so exciting may be the gone forever. Never again will computer buffs be able to accept a disk or plug into a network without being suspicious—and cautious.

By Philip Emeis-Delwit, Reported by Scott Brown/San Francisco and Thomas McCarroll/New York, with other bureaus

## Programmer Of 'Virus' Convicted

FORT WORTH, Texas (AP) — A former programmer has been convicted of planting a computer "virus" in his employer's system that wiped out 10,000 records and was activated like a time bomb, doing its damage two days after he was fired.

A virus is a computer program, often hidden in apparently normal computer software, that instructs the computer to change or destroy information at a given time or after a certain sequence of commands.

Tarrant County Assistant Attorney Davis McCown said the lawyer is the first prosecutor in the country to have someone convicted for destroying computer records using a virus.

"We had people stealing through computers, but not this type of case," McCown said. "The basis for this offense is deletion."

"It's very rare that the people who spread the viruses are caught," said John McAfee, chairman of the Computer Virus Industry Association in Santa Clara, Calif., which helps educate the public about viruses and find ways to fight them.

"This is absolutely the first time" for a conviction, McAfee said.

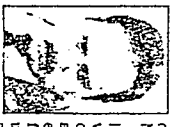
"In the past, prosecutors have stayed away from this kind of case because they're too hard to prove," McCown said Tuesday.

"They have also been reluctant because the victim doesn't want to let anyone know there has been a breach of security,"

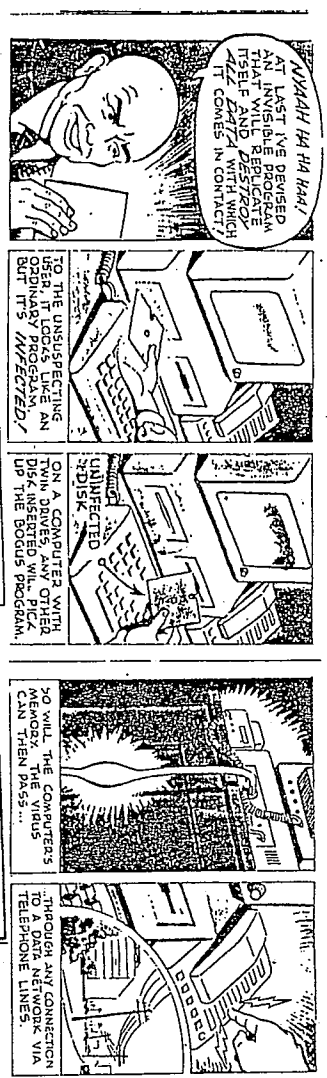
McCown said.

Donald Gene Burleson, 40, was convicted Monday of charges of harmful access to a computer, a third-degree felony that carries up to 10 years in prison and a \$5,000 fine.

A key to the case was the fact that State District Judge John Branshaw allowed the computer program that deleted the files to be introduced as evidence, McCown said. It would have been difficult to get a conviction otherwise, he said.



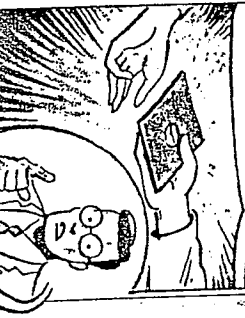
Burleson



THIS VACCINE PROGRAM WILL HELP PROTECT YOU IN THE FUTURE, BUT BE CAREFUL! DON'T USE BOOTLEG DISKS AND NEVER LET A STRANGER USE YOUR MACHINE.

IN A FEW MONTHS YOU'LL HAVE TO RECONSTRUCT ALL THE PROGRAMS FROM SCRATCH.

REMEMBER -- ONLY YOU CAN PREVENT A VIRUS EPIDEMIC!



\*\*\*\*\* Depuware Business Systems Fall-Winter Catalog \*\*\*\*\*

SOFTWARE  
Z-SYSTEM (c) ALPHA Systems Corporation

This is it. The most recent advance in operating systems now adapted to run on the Amn Computer System. If you thought CP/M had some nice possibilities as well as a multitude of outstanding software titles available to use with it, just wait until you see NZ-COM! After doing the initial installation, I was astounded by the many capabilities this system has to offer. NZ-COM requires you to own a copy of Coleco's CP/M 2.2 (copyright Digital Research). NZ-COM will patch your operating system to provide the ability to run virtually ANY software title released as ZDPF oriented. The type of computer doesn't matter. ZDPF utilities tend to be universal in most cases. Every CP/M program I have run without problems under NZ-COM to some extent a simple patch to the program can be made to enable more features than regular CP/M can provide. A good example is a patch to allow WordStar to print on two outdated versions of ZDPF or standard vanilla CP/M. In addition, you are given the ability to do multi-tasking, windows, copies between drives and user areas and much more. Please state your system configuration if you need us to install the software for you. NZ-COM supports the standard TV display, the more effective 80 column display, all sizes of memory expander, up to 10 disk drives, a serial port and just about any other device you can now access under standard or modified CP/M or even DOS. Please note, we are one of the only three vendors authorized to distribute NZ-COM in the Amn Community.

NZ-COM System \$69.95 + \$3.00 shipping  
Installation \$10.00 (you can also install it your self.)  
\*\*\*\*\*  
QUICKCOPY 4.0 w/REDOPTIVE \*\*\*\*\*

A new version of a venerable old favorite. This time Quickcopy has been upgraded to use the larger memory expanders such as the M256 and M512 boards. Quickcopy 4.0 also allows copying to and from the new 720K disk drives. The addition of REDOPTIVE will allow you to load programs into your memory expander for fast data transfers or program booting! That's right. You can boot some programs from the REDOPTIVE for FAST loading! REDOPTIVE uses a 1K buffer for data transfers. This doesn't sound like much, but just wait till you use it! You can copy a disk at an absolutely incredible pace because this small buffer allows your source drive read at the same time the destination drive is writing. This makes for some really QUICK copies!

Quickcopy 4.0 \$19.95 + \$3.00 SHIP  
Add \$2.00 for tape

SOFTWARE  
WORDSTAR version 4.0  
Copyright (c) 1987 MicroPro

This is it! Absolutely the BEST word processing system available for the home computer! This is the CP/M version of WordStar 4.0 and it requires you to own a copy of Coleco's CP/M 2.2. Copyright (c) 1973 Digital Research. MicroPro originally allowed the CP/M version to be purchased for an \$89.95 introductory price. Now, the \$89.95 is available only to those with legal copies of an earlier version of WordStar to upgrade it to the new version. The current list price on WordStar 4.0 is \$295. This program lets you print multiple copies, choose different printers, set margins, create indexes, create table of contents, change letter sizes, bold face, underline or italicize words, spell check documents, correct misspelled words and even more! The actual number of features are too numerous to mention here. If you have an 80 column board, you can even view your letter onscreen as it will appear on paper! You can write in either document or nondocument mode. This allows you to write those assembly language programs with ease. Through a special arrangement with the executives at MicroPro, we are able to offer WordStar 4.0 preconfigured for 10K system characteristics at an unbeatable price. Please let us know when ordering the following information to allow the proper setup for your use.....

1. The number and size of your disk drives.
2. What printer you will be using:
  - a. IBM's SmartWriter Printer or
  - b. A dot-matrix printer
3. If using a dot-matrix printer, what size and model.
4. What monitor you will be using:
  - a. The standard TV display or
  - b. An 80 CW

Please note, if you are using only single sided drives, two of the disks must be installed onto digital Data Pacts. The 16K dictionary is a good example. On request, we can substitute the smaller 136K dictionary on disk.

WordStar 4.0 \$139.95 + \$3.00 shipping  
Add \$15.00 for DDP only version  
(not recommended)

FALL \*\*\*\*\* CATALOG \*\*\*\*\* WINTER  
DEPWARE BUSINESS SYSTEMS

1988  
5645 Myers Road  
Aurora, OH 44319  
216-982-4720

Our BUSINESS HQS are Monday thru Friday from 10:30 AM until 5 PM. We are CLOSED to voice calls on weekends and all holidays. At other times, you can contact us using your modem via our BBS (Bulletin Board System) at the same number. Please remember to set your communications software for 84-1 (8 data bits, no parity and 1 stop bit). We recommend the Realink III software. CP/M's REALINK.COM or the new Softlink if using the internal ModemKit 300 hand modem. Those using CP/M and an external modem should use PC-12.COM to maintain compatibility. The new Modalink IV will also support our protocol at 1200 baud on an external modem. We currently support 200, 1200 and 2400 baud modems. We offer up to 10 data library areas, general bulletin board listings, extensive file support for EGS and CP/M. We carry the complete line of PD programs from Hobbies and Bits as well as extensive Videotapes and RLE picture files. Our CP/M libraries contain some of the newest and most useful new Public Domain programs you'll find on any BBS! You can use a simple ASCII capture or IMODRM protocol for file transfers, including the new IK packet transfers. Our online catalog and MINIPRM ADDRESS specials offer super sale prices on our products. This is where we offer for one night, or sometimes for only a few hours, products at unusually low prices. You can place orders confidentially by using the Feedback option. We accept VISA and MasterCard as well as COD orders in this private FEEDBACK area.

\*\*\*\*\*  
HARDWARE  
MEMORY EXPANDERS

Expand your AMN's memory to the full 14K originally offered by Coleco! It is useful for SmartWriter, MacWrite, SmartBASIC, CP/M and many new programs that are too numerous to count. When combined with software such as REDOPTIVE from Walters Software or MEGABASE by Digital Express, you can really unleash the power of the AMN. We offer the M264 assembled or in kit form.

M264 \$49.95 + \$3.00 shipping  
M264 KIT \$36.00 + \$3.00 shipping  
M264 SHORT KIT

This is the M264 PC board, instructions for assembly and a list of parts and sources for obtaining them. In general, you can get parts for about \$20 or less depending on memory chip prices. We can not provide warranty coverage as we do not have control of the quality of parts used. We will supply ROMS on a CP/M formatted disk to allow you to test the board.

M264 Short Kit \$15.00 + \$3.00 shipping

M128 & M126

Here are the super memory expanders for the AMN! Increase the size of the CP/M drive up to 24K of super fast drive space. Out assembly time by up to 95%. Using software from Digital Express or Walters Software permit you to finally use a FAST ROMdisk under SmartBASIC! Due to the rapid fluctuation in memory chip prices, we ask that you call for the lowest price available. Please note: the M1512 is available by special order only. You will need a PI02 or PI03B printer interface or the A2 addresser to operate the M1 boards with more than 64K of installed ROM. If you have the PI02, return it for connection to your M126 board. If you are using the EIC SR-1, order the A2 addresser for \$17.50.

Software is provided for CP/M only. Software for EGS is available from the suppliers mentioned above (DEI and Walters). Both offer excellent programs and are represented in our SOFTWARE section.

\*\*\*\*\* Drphanware Business Systems FALL-WINTER

\*\*\*\*\* PRINTER ACCESSORIES \*\*\*\*\*  
STAR NX-1000 Printer

This is the new status item for the home computer enthusiast! It is also the highest quality, full capability dot matrix printer we've ever used (and we've tried them all!) The NX1000 has a wide assortment of built-in fonts to choose from as well as the ability to upload new fonts into it's RAM for use during the session. Choose from fonts such as ELITE, PICA, COURIER, DEPTOR, SWI SERIF, CONDENSED, ITALICS, PROPORTIONAL and DEPART. For most printers, this is too much to ask, but for the NX1000, it's only the beginning! You can select each font from the top mounted controls or from your software. You can also hit the "Print" key you can have a combination of PICA and ITALICS, PROPORTIONAL, ELITE, or any other combination you might need.

The printer has a 4k buffer, has easy to install ribbon cartridges and is EPSON and IBM compatible. The NX mode uses 18x22 dot patterns for each character for superb near letter quality. One of the most useful features is the printer's "paper part" option. This button will lock your tractor feed paper into position and allow you to insert the enclosed single sheet feeder into the printer! This is the first printer we've seen that asks printing on high quality paper (such as resume stock or onion skin) a breeze!

- STAR NX 1000 \$199.95 + \$10.00 shipping
- PRINTER PACKAGE (includes the new NX1000, one PICA2 interface and the cable to connect them) \$249.95 + \$10.00 shipping
- STAR RIBBONS \$ 6.00 each + shipping
- RAMSONIC \$ 4.00 each + shipping (these ribbons fit the 1080 and 1090)

REPAIRS AND SERVICES

DISK DRIVE REPAIRS

We are probably the only repair facility for Coleco Controller Board repairs. If your disk drive is acting up, send it to us for repair. We will do the service work for \$35 plus the cost of parts. Please note, we will only work on original Coleco 16K disk drives, or the 32K-72K modified drives done by EVE Electronics, HSR, and of course Drphanware Business Systems. All other drives must be returned to the dealer where purchased or modified for repair.

DISK DRIVE CONVERSIONS

We can convert your standard Coleco 160 disk drive into either a 20K or 36K double sided drive or a 72K 3.5" disk drive. These are totally EGS and CP/M software compatible. We provide the patches for CP/M as well as a variety of the best format utilities for EGS and CP/M available. All you need to do is to send us a functional 60M disk drive and proper payment. We will return it generally in 10 days or less converted to the higher capacity. If your drive is broken, we will have to charge you for the repairs prior to doing the modification. This will be charged at current Drphanware Business Systems rates. Please note: the new 36K disk size format is NOT compatible with the standard 60M 16K disks. We suggest that the 36K drives be used as a 3rd disk drive. We will supply the special format programs to install and use the larger capacity 5.25" disks on your Adm.

- 720K 3.5" Conversion: \$140.00 + shipping
- 320K or 20K 5.25" Conversion: \$105.00 + shipping
- PIA2 UPGRADE \*\*\*\*\*
- PIA2 Upgrade Service: \$12.00 (includes shipping)
- SPI-P UPGRADE \*\*\*\*\*
- PIA2 Upgrade Service: \$12.00 (includes shipping)
- SPI-P UPGRADE \*\*\*\*\*

Eve Electronics offered a parallel only version of their SPI interface. If you own one and would like to add the serial port to transform it into a full blown SPI, we can now do this for you. Send your board to us for modification.

SPI-P Upgrade Service: \$40.00 + \$2.00 shipping

\*\*\*\*\* Drphanware Business Systems FALL-WINTER Catalog \*\*\*\*\*

PIA2 PARALLEL PRINTER INTERFACE

This interface will allow you to connect almost any popular parallel dot matrix printer to your ADM. Software is provided to drive your printer from SmartASIC, SmartLEB, SmartLETTERS and PDS95, ADMLink III and CP/M. See the SOFTWARE section for software to patch MacA/C to also output to a DMP.

- PIA2 Interface \$27.95 + \$3.00 shipping
- PIA2 ADVANCED PARALLEL PRINTER INTERFACE \*\*\*\*\*

This is the long awaited interface to allow use of the special printing capabilities of the newer printers. The PIA2 allows connection of printers such as the STAR NX-1000 or NX-1000 Rainbow to your ADM. Printers of this type offer multiple downloadable fonts, special graphics routines and in the case of the Rainbow, color printing! The previous interfaces had problems accessing these more advanced printing features. The PIA2 has all the bells and whistles you asked for! Please check the section on Repairs and Services for important information on upgrading your PIA2 into a full featured PIA2.

- PIA2 Interface \$44.95 + \$2.00 shipping
- PARALLEL PRINTER CABLE \*\*\*\*\*

This cable connects your dot matrix printer to the PIA2 line of printer interface boards. Simple plug in installation.

- \$14.75 + shipping. (Shipping is included when ordered with an interface.)
- ADM EXTERNAL MONITORS \*\*\*\*\*

Here is the package to add high speed telecommunications to the ADM. It comes complete with your choice of modem, an RS232 serial interface, all cables needed for hook-up, and three different software packages (TPE, XEX and KBD/RT)! Every thing you need to get up and running as soon as you receive the order. These modems can be moved on to other computer systems that have a serial interface. The ADMEX line is fully Hayes compatible. ADMEX 1200C modems are Hayes compatible from 300 to 1200 baud and are great for regular work. The ADMEX 1200C has a more extensive Hayes command set and comes with a switch selectable SYNCHRONOUS/ASYNCHRONOUS feature. The ADMEX 2400 adds to the features of the 1200C the higher data transfer speed of 2400 baud. Wait till you download a file at THIS speed!

- ADMEX 2400 \$239.95 + \$8.80 shipping
- ADMEX 1200 hc Call for price.
- ADMEX 1200C \$149.95 + \$8.80 shipping
- RS232 Serial interface only: \$44.00 + shipping

80 COLUMN VIDEO UNIT

With this expansion system you can now have a true 80 column video display with CP/M, our new DOS operating system or SmartASIC using DEI's SmartASIC 80. This unit will work with either the Stand Alone Computer or the Expansion Module #1. You will need to add a "Nonochrome Composite 80 column video monitor" to complete the installation. The unit comes with it's own power supply so there is no additional drain on the ADM power supply. We supply a copy of our 80 CPU utilities complete with the DOS operating system and a PD demo of 80 column SmartASIC. The full featured SmartASIC 80 is available from DEI or can be found in the Software section of this catalog. SmartASIC 80 permits output to the 80 column monitor in a non-graphics mode.

- Original design: \$219.95 + \$8.80 shipping
- EGE SP-1 design: \$199.95 + \$8.80 shipping
- With keyboard: \$289.95 + \$8.80 shipping
- EGE keyboard: \$259.95 + \$8.80 shipping

A NOTE ON WORDSTAR 4.0

This is WORDSTAR 4.0 on ADMX formatted disks and installed for the 80 CPU. Please specify the system components you will be using including type of printer, the number and size of your disk drives and we will install the software for DOS systems. The configuration can be done by the consumer but we do it to save you time. All you will need to do is boot the disk, type MS (CTRL) and off you go! WORDSTAR 4.0 (uninstalled) is currently listed direct from MicroPro for \$295.00.

POWER SUPPLY DEVICES

This plexiglass enclosure protects you from the hazards of the exposed wires found on the Coleco Power Supplies. Just drill 2 small holes in the power supply and install this cover using common sheet metal screws.

- \$15.95 + shipping
- KEYBOARD CABLES \*\*\*\*\*

Replacement cables for the keyboard and disk drives. You no longer have to put up with the short cables Coleco sold you. Just let us know what length cable you require for your system.

- \$3.00 each for the standard 6 foot cables.
- Add \$1.75 for each additional foot needed
- Add \$2.00 to your order for shipping



This action will put you at track zero, sector one. The screen  
.. will  
respond thusly:

T=0, S=1, PS=8

To cause the program to course through the entire disc, you  
type at the prompt:

:+:/5752 (CR)

The program will now advance through the disc, sector by  
sector and track by track. It will step through 8 sectors  
long track, hesitate slightly and then move to the next  
track. As it progresses, it will display on the screen each  
track and sector number. When it reaches track 13, sector 1,  
it adds another item called the group number. The first  
group number is 6-0000:00. The screen will look like this as  
it comes up to track 13 and beyond:

T=13, S=1, PS=8  
T=13, S=2, PS=1  
T=12, S=3, PS=2  
T=12, S=4, PS=3  
T=12, S=5, PS=4  
T=12, S=6, PS=5  
T=12, S=7, PS=6  
T=12, S=8, PS=7  
6-0000:00, T=13, S=1, PS=8  
6-0000:01, T=13, S=2, PS=1  
and so on.....

This will continue until it reaches

6-0100:0F, T=718, S=8, PS=7

That is, it will if it hasn't encountered a bad block. It  
will stop if that happens. This is a nice, fast,  
non-destructive test. And it will work on checking a disc  
that is formatted in DOS as well as it will on a disc that  
is formatted in CP/M. Naturally, you have to have CP/M in  
order to have the program DU-V87.

FROM IEAUG  
FROM IEAUG

Just a word about the numbers I used. Why did I type:

:+:/5752 (CR)

The + sign is a command to advance one sector. The seal/one  
is a delimiter which isolates each command on a  
multi-command line. The / sign commands it to repeat  
operation and the 5752 tells it how many times to repeat.  
And where does the 5752 come from? I want it to check from  
track 8, sector 1 thru track 718 sector 8. That is 719  
tracks each consisting of 8 sectors for a total of 5752  
sectors.

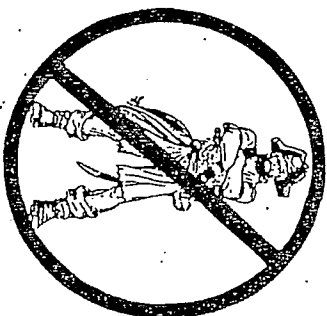
There are some functions that the 728 really performs  
adequately. Earlier, I mentioned word processing and  
spell checking. I use a couple of spell checkers and, like  
everyone, I have my favorite. I have preferred SPELL28  
because it has always been the fastest checker I have used.  
It is probably the most sophisticated checker ever designed.  
The vocabulary is substantially smaller than most, but it  
doesn't waste space with word variations, such as plural  
endings, participial forms, tenses etc. For a built in  
algorithm which will check these possibilities. For example,  
it knows that angrier is a legitimate variation of angry. Or  
that healthy is a correct variation of health. But the  
English language has so many exceptions to basic  
conventions, that it may not always know that plural's like  
children or women are valid words. Still it is a brilliant  
program. Even monsters like WORDPLUS has a lot of missing  
words in its vocabulary. I use WORDPLUS but it has a couple  
of drawbacks. First of all it is slow. And because it has  
such a large vocabulary (138K) and several support files, as  
well as some transient files it creates during operation, it  
can't be contained on one disc. In fact, one needs three  
drives to use WORDPLUS. One drive to hold the vocabulary,  
another drive to hold the main program and all of the  
support programs. Finally, there is the drive that contains  
the file to be checked. Unless you are serious about spell  
checking, that's enough to discourage anyone. But the 728  
eliminates one of these drawbacks. All operating files can  
be on one drive. And that drive can also have the basic word  
processor and formatter. Now that is NICE! Of course, it is  
still pretty slow.

That great program, PRINMASTER, was adapted to ADAM  
from another CP/M computer. I bought two copies of  
PRINMASTER and they were both originally made for the  
Kaypro. In the Kaypro, PRINMASTER was configured for use  
with two discs on two disc drives. Because, the Kaypro  
drives were large capacity, the files were nicely arranged  
with just two discs. But for the Adam, it required at least  
three discs and an additional disk for each supplemental  
graphic file such as SRT GALLERY. At times it could get so

confusing, that you never know which disc that PRINMASTER  
needed for its next operation. It wouldn't crash because of  
this, but you sure had to do a lot of disc switching. With  
the 728, you need have only a master disk and a disk for  
whatever graphics you plan to use. All other files such as  
borders, penants, fonts, etc. can be placed on the master  
file (up till it runs out of file space) and the others can  
be on the graphics disc. Now it runs like a Kaypro.

So far, the economies favor the 168. At least it does  
if you use the obverse side of the 168 disc (flippy). I use  
Nashua double sided 168 discs and I store 84K per dollar.  
With the 728 my costs are 514K per dollar. So the 168 gets  
about 24% more data for each buck. This may improve as more  
3.5" drives are used. There are other considerations, such  
as physical storage space. The 728s take up a lot less room.  
However, for me, it is hard to keep track of the contents of  
a 3.5" disc. With the 168 I slip a piece of paper with the  
disc directory into each disc envelope, but there are no  
envelopes with the 3.5" disc and even if there were, the  
tiny size couldn't hold a piece of paper with a directory  
—especially when the 3.5" directory is bigger than the 3  
1/4". And so it goes. In my opinion, bigger is not  
necessarily better.

Thomas J. Keene  
IEAUG



STOP!

3rd PARTY

SOFTWARE

PIRACY

# ADAM NEWS AND UPDATES



**COVER GRAPHICS:** The ADMX computer system on our cover was designed with PowerPaint and donated by BRYAN'S SOFTWARE. Our new return address logo was created by the design team at DIGITAL ADVENTURES.

**WALTER'S SOFTWARE** plans to release their graphic printing utility PRINTWORKS toward the end of this month. Reports are that the printouts are very sharp. Reports are that the program is easy to use with more features than similar programs for the 16 bit computers. It can also use FontPower fonts and Clipper clip art. The package will retail for \$29.95.

**Did you know** that you can renew your N&B subscription through OrphanWare? Just call their BBS and leave \$1500 Feedback along with your name, N&B ID, and your VISA or MASTER CARD number and expiration date. The cost is only \$24.75.

**One Minute Formatter** is our most widely used PD contribution to the ADMX community. A couple of months ago we updated to Ver 2.0. We are now offering this improved version to the general public. It supports 160K, 320K, and 720K drives. You can select the device number (in case you have three or four drives hooked up) and, of course, it formats, verifies, and INITs one or two drives (simultaneously). With the INIT you can have independent volume names, volume sizes, and directory sizes. You can update by sending your original disk with any product order received before 10-15-88. Also, we will probably list it next month and include it on the DISK-PAK disk.

**"MINI OVER ADMX"** is a GREAT new game for ADMX by Steve Pitman. See our review in this issue; also note the mention under "NEW PRODUCTS".

**ADAMX** has plans to release ZORAN III and CHILD SPAIN in the next few weeks. Both of these new games will make use of the BTR or ODS speech synthesizer. See their ad next month in N&B.

**We are now operating our new BBS.** The hours are 7pm - 8am EST weekdays and all day Sat and Sun. 300/1200 bps. 8-N-1 or 7-8-1. Please give us a call.

**Last month,** in our list of major graphics contributors, we forgot to include Ed Costello. Thank you.

**MHS** has just released "Copy Cart 2.0". Some of the improvements include: storage to any size disk or tape, formats disks within the program, full directory on target media, and game select menu uses game controller. On a 720K target disk you can store as many as 41 disk carts. We have added this excellent cartridge copy utility to our product list: just \$19.95 on disk (only).

**In the "NEW PRODUCTS" section** note that we've now added CARD SFT 3 (just released) from BRYAN'S SOFTWARE.

**N.Y. Ruth Company** is now marketing a mouse for use with ADMX. Contact them for ordering info on this new peripheral from Thomas Electronics. 3100 West Chapel Avenue Cherry Hill, NJ 08002

**In the latest issue of N&B's newsletter** there was a very unfavorable review of our SWIFTLINK. Never before have we spoken up against anyone having negative comments about a DEI product, but there are some facts that the reviewer cleverly forgot to mention. (1) Just weeks before the review (if that's what it was) DEI had protested NAD selling parallel interfaces that bore a high degree of similarity to OrphanWare's board (both to the layman and electrical engineer alike) and including Past-Patch (by OrphanWare) and listing the item as a PIA2 on invoices. (2) There are three GRAPHICS PRINT programs for ADMX: IMAGE 2.0, GRAPHXPARTNER, and SWIFTLINK. The reviewer wrote GRAPHXPARTNER (mmm). (3) SWIFTLINK sells for five to ten dollars less than his GRAPHXPARTNER (depending on where you buy either). (4) SWIFTLINK offers KORR THAN three times as many features as GRAPHXPARTNER. (5) And, the real clincher, the reviewer has been planning (insiders tell us) to release his own hi-res color print program specifically for the Oklake 20 this fall (mmm). We don't mind honest appraisals of our software that are not favorable, but when a review is so blatantly biased by the author it is time to call FOU!!! if anyone who has purchased SWIFTLINK before September 1 directly from DEI thinks that the program really is a piece of garbage, send it in before the end of this month for a FULL refund from us.

**Ready for a special** on N&B back issues? Until the 15th of October you can get any number of N&B back issues from #1 thru 10 (this is issue number 24) for just \$2.75 each. For you newer subscribers this could be a great way to catch up.

**A few selected reviewers** are testing the beta version of 60008 Eight now. We'll start shipping as soon as the reports come in. We expect this procedure will filter out any bugs that we overlooked before public distribution. Get ready for it; and let us know what you think about it.

**READY SOFTWARE** has just released PHASE PAK CONSTRUCTION SFT for making your own PHASE PAK LIBRARY disks or tapes. And the price is VERY reasonable. 10085 50th Street Alto, MI 49302

**We've added several new PD's** to our collections. PaintPAKES 10 and 11 are now done along with N&BPIX07. We also have two volumes of Videotuning songs (14 files each); for use with Videotunes by FutureVision. Ready software has released their 5000 PAKVOLs 2 & 3 (for use with the popular HageQuest adventure) into the public domain. And, we've added Cabbage Patch Kids Adventure by Coleco.

**N.Y. Ruth Company** has plans to begin issuing CREDIT cards to qualified applicants this fall. You'll be able to use this card to make purchases from their extensive line of computer products.

**Note OrphanWare's new advertisement** in this issue. Also they have a limited quantity of 320K (or 360K) disk drives available for \$219.95 plus 8.80 S/H. This offer expires 9-30-88.

**Alan Weeley** will send a copy of his latest issue of ADU for \$1.00. This newsletter is packed with info --- 41 pages. Send to: ADAMLINK of UTMX 2337 South 600 East Salt Lake City, UT 84106

**Troy Ballin** has updated his PICTURE 1.2 with a program called EXCHANGE. This lets you convert his picture format to GP which can also be used by SWIFTLINK and PowerPaint for printing. You can get the update from us by sending your sales receipt and \$1.00 with a product order.

**We now carry 3.5" disklabels.** These are pin feed, 2 7/8" x 1 1/2", white labels, just \$6.50 for 500.

**We've updated SWIFTLINK** to version 1.2; see our BBS for the improvements made. And remember the price of SWIFTLINK goes from \$11.95 on disk to \$19.95 on September 10th.

**David Garciachal** has finished the song and graphics files for G.A.N.E. III. Fourteen entertaining graphic and music files for just \$11.95.

**David White** plans to release a spell checker for his excellent SpeedyWrite 2.0 in the next couple of weeks. It can be accessed from WRHS SpeedyWrite 2.0. It comes with a 10,000 word dictionary, 5000 word expander, and it requires at least a 64K memory expander.

**Don't forget** about our DISK PAK service: get one disk every other month with all the N&B programs from that and the previous month. Just \$12.00 US, \$14 Canada, and \$18 foreign.

**Much of our new commercial software** for ADMX is being copy protected. When you order a copy protected disk we include a backup disk too.

**We have repaired a minor bug** in our SWIFTLINK that caused problems in the catalog size and with SmartWriter use when only a 64K card was installed. You can get the update P&K by sending in your original (add \$1.00 S/H if not placed with an order).

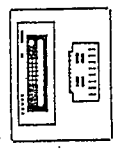
**ERT SOFTWARE** sells EPORNS for the 320K disk drives that greatly speed up format time (from 2 minutes down to 40 seconds). These new chips are included with their 320K disk drives and can also be installed in OrphanWare's drives (but ODS will void your warranty if you use them). The ERT and ODS 720K disks are not compatible because the sectors are arranged differently on the tracks.

**We would like** to hear from anyone who knows how to contact the author of the French graphics program "de Vincent". We need his permission in order to add it to our Public Domain Libraries, though it apparently already is PD.

**DIGITAL ADVENTURES** is on the verge of releasing the first volume in their adventure trilogy for ADMX, "Temple of the Snow Dragon". We have had the honor of playing the beta version. Incredible!! The graphics design is at the least equal to the expensive, colorful adventures on the 16-bit computers. Game play is very challenging with clues hidden in the graphics (every room is depicted with DEPICTED graphics) and in the messages. We are predicting that this will be one of the most popular games written for the ADMX (they will also be releasing versions for other systems). See their advertisement in this issue for a black & white example of the graphic quality --- all done on ADMX with PowerPaint. The retail price for the first adventure in the trilogy is \$24.95; N&B SDP is \$21.95. But, they have authorized us to provide a special introductory offer for N&B subscribers --- order from DEI before 10-7-88 and get it for only \$16.95 (MANY, MANY hours of challenging fun!).

# WHAT TO BUY

By Ron Collins



The best way to decide on what new equipment you should purchase for your ADAM computer system is to first determine just what you will be using the computer for. As with any purchase, the overall usefulness must be compared to the price you will have to pay. I like to get the most for my dollar while still maintaining the highest quality equipment possible. To ensure lasting use, always check out the manufacturer and the warrantee. If you find anything questionable, ask around -- sometimes a good deal and a good value are two separate items!

The most common question I hear concerns whether to buy a disk drive or a memory expansion board. I would say both are a necessity in my line, but to decide which to obtain first is more in line with the question. First, consider what type of programming you will be likely to be involved in. All will benefit from the higher speed data access of a disk drive. On the other hand, much of the new software requires at least a 64K expander before the program can even run! If that isn't bad enough, the disk drive supply is nearly exhausted. What a decision! The logical choice is the useable item with the best value and longevity. If you don't mind the high load time experienced with digital data pack usage, consider the options of a long speed RAMdisk. The basic 84K memory expander has a variety of uses. I can act as a high speed RAMdisk (an electronic disk or live with no moving parts), a print spooler, a copy buffer and a program buffer. The disk drive only speeds up program and data access. If you also consider the new programs such as POWERPAINT, GODS, and some of the upcoming titles from Nibbles & Bits that actually expect a memory expander to allow the programs to function, you will see the logic in the memory board purchase.

Software has a way of relying on hardware. QUICKCOPY, the best copy utility I know of, uses the memory device as a copy buffer. The program will read a tape or disk, store it into the expander, and then write it onto the destination tape or disk. This sounds like a roundabout copy procedure, but it works fast and it makes it possible to backup important software with a minimum of media swaps. If you've ever copied a data pack with a 1K or less buffer, you know what I mean! If you use ADAMcalc, the memory board acts as a print spooler. This means a completed spreadsheet can begin printing and another can be created at the same time. Without the spooler, the ADAM will freeze until the printer is finished with its task. Let you work and the spreadsheet will print OUT OF THE SPOOLER! Programs such as HALPER's SmartDISK even allow you to use the large boards such as the Orphanware MK-256K as a super-sized workspace for SmartWriter.

The next question concerns what size expander to buy. If money is tight, the 64K board will fill most average needs. If you are actively into CP/M, the larger amount of expansion, the better. A 256K card will allow you to copy an entire 160K disk or a full 255K data pack into the copy buffer! You can even copy your program files into it and RUN them at HIGH SPEED! It is actually faster to copy your program into the RAMdisk and then run it from that "drive" than to load the large program from tape or even disk. The reason is the lack of media access at load time. The RAMdisk has NO disk to read or tape to wind. A word of warning here about memory chip prices. These chips are used on all sizes of memory expanders and the cost continues to rise. The current cost is upwards of \$16 each. My best advice is to purchase a 256K board with either NO chips or with 64K worth on the board. As your funds build up and the need comes along, you can add extra memory chips to increase the size up to the full 256K. I understand Orphanware Business Systems is selling the "zero K" option (a 256K board without memory chips) for around \$50. The board even carries an exceptional guarantee.

PRODUCT: MicroTalk  
 MANUFACTURER: ADAMzap  
 MEDIA TYPE: disk/DDP  
 GRAPHICS/SOUND/DESIGN: 90/93/88  
 INSTRUCTIONS: 97  
 USEFULNESS VS. PRICE: 93  
 RECOMMENDATION: 93  
 PRICE: 17.50/15.50  
 RATED BY: Luke Whitman

For those of you that have always wanted your ADM to talk to you, as well as be your best friend that couldn't talk back, ADAMzap has helped to open the gateway for speech. This program has lots of options, good graphics on screen, and the design and format of the program is well oriented for those of us that continue to want more and more out of our ADM. It requires the EVE SS/CC or the OBS TALKER.

The first speech program needs to be loaded into SmartWriter before you do anything else. From this mode you need to access the DOC file for instructions, and also for a printout of a library of 231 basic words and 17 listed homonyms, as well as a lot of homonyms that are not listed.

Just follow the instructions and you will have no difficulty at all with this one. There is a poem, a speaking calendar/clock, 2 stories, 2 songs (spoken), a warning, and, of course the option of ending the program at any time after the completion of any one of the other options. For a first generation speech program this one is definitely recommended, and well worth the price.

PRODUCT: MIND OVER ADAM  
 MANUFACTURER: Steve Pitman  
 MEDIA TYPE: disk/DDP  
 GRAPHICS/SOUND/DESIGN: 98/96/98  
 INSTRUCTIONS: 93  
 USEFULNESS VS. PRICE: 97  
 RECOMMENDATION: 97  
 PRICE: 11.95  
 RATED BY: Solomon Swift

Steve Pitman and I had been exchanging routines and tricks for a while. I knew that this college student majoring programming was talented from our phone conversations and from seeing some of his programs. But when he sent me the first beta version of MIND OVER ADAM to look at, I was simply overwhelmed by the sheer appeal of the game. WOW!! Way to go Steve.

MIND OVER ADAM is based on the same game principle as MasterMIND™. Although I've always liked logic games, this type of game never really appealed to me... that is until MIND OVER ADAM. There is so much good stuff here that I can't imagine anyone not liking it. Pull the computer reset and a graphic screen appears while the program loads. The instructions are on two screens, tap a key and the second screen instantly appears. With the music, messages, and evil face in the upper left-hand corner of the screen I really felt like I was playing against someone.

The board is on a hi-res screen (designed with PowerPaint) and uses colorful sprites for the markers. There are six colors to choose from in guessing ADAM's sequence (hidden underneath a bar at the top of the screen). The left and right arrow keys (or joystick) let you select the slot to place the marker. The up/down arrows (or joystick) let you pick the color. After each guess (8 max) you are told how many were the right color in the correct position and how many (exclusively) were the right color. You get a variety of points with emphasis on solving the puzzle in as few guesses as possible. Upon solving one puzzle you move on to the next level with one less guess.

The animation is very impressive. When the game is over you have an opportunity to enter your name in the Hall of Fame (top eight all-time high scores). You do this on a very realistically drawn O'Jia board. You select letters in your name by placing the pointer over them on the board. I mention this just as another testament to the creativity and appeal of the program. VERY NICE GAME. I HIGHLY RECOMMEND it to gamers and non-gamers alike. This is one of a new generation of HIGH QUALITY, third party games for us ADM owners. And, I can guarantee that your purchase will encourage Steve to put out more of these FUN-TO-PLAY (and show off) low cost games.

Last issue we announced that we were offering a Double Sided Disk Drive Kit. Several ADAM owners misunderstood our announcement in that they could purchase a new Double Sided Disk Drive for only \$90.00 plus shipping. This kit was ONLY for those of you who already had an ADAM 160K Disk Drive, and would like to convert your Drive to 320K.

Since announcing the 320K kit in last issue, we have decided that the conversion can be too much of a problem for many ADAM owners. Since damage can be done to the ADAM controller by an inexperienced user, we have decided that we will no longer sell the conversion kits. To upgrade your Drive, you MUST send it to us for the conversion. Your cost for a 320K Double Sided conversion is only \$125.00 shipping included.

We have completed our new ADAM compatible 720K 3 1/2" Disk Drive. This new Drive will store as much data as nearly 5 single sided 160K Disks. These new E, & T, Drives will format a 720K 3 1/2" Disk in 1 minute and 5 seconds. The step rate has also been reduced from 20 milliseconds to 6 milliseconds. This will of course decrease the read/write time for all programs/files that are larger than 4 blocks in length. This new Drive (complete) is available NOW for only \$290.00.

For those of you who would like to send us one of your Coloco Single Sided 160K Drives to have upgraded to a 720K 3 1/2" Drive, the total cost for conversion is only \$155.00 (shipping included). This conversion also contains the same super-fast formatting, read/write capability as our complete Drive.

If you send us your Drive for a conversion, and we receive it on a weekday (excluding Friday) we will

convert your Drive and will ship it back to you within 24 hours. If we receive your Drive on a Friday or on a weekend, your Drive will be shipped back to you the following Monday.

Our complete Drives come with installation instructions, a SmartBASIC Utility Disk (for formatting, file copying, etc.), and a CP/M Utility Disk.

All of our ADAM compatible drives, and conversions, now come with a limited ONE YEAR WARRANTY. We will guarantee that your Drive will give you trouble free performance for a full year (except for user damage or damage caused by lightning).

For those of you who have recently purchased a new Drive, or sent in your Drive for conversion, your warranty will be extended for a full year.

We are continuing our work on an ADAM compatible 640K 5 1/4" Drive that will read ALL standard 160K ADAM Disks, but will also format 640K Double Sided Disks. We will keep you informed on our progress.

Since all our Drives format up to FOUR TIMES faster than those sold from Orphanware, several people have called requesting the purchase of our faster 320K and 720K EPROMS. Our 320K EPROMS will work with a 320K Orphanware Drive, decreasing the format time by some 29 seconds, but we are sorry to report that our 720K EPROMS will NOT work with a 720K Orphanware Drive.

Our super-fast 320K EPROMS are available for only \$19.95 each. These new EPROMS will allow your Orphanware 320K Drive to format a Double Sided Disk in only 37 seconds as well as increase the speed of the Drives reading and writing. Complete installation instructions are also included.

We will soon be offering a 160K Super-fast EPROM that will format Single Sided Disks almost TWICE as fast as the COLCO one can. This will speed up the formatting of your Single Sided Disks by nearly 100%. The price for this super-fast 160K EPROM is only \$14.95. Complete installation instructions will also be included.

We are also continuing our work on an image scanner for the ADAM. This scanner will work with any Epson compatible dot matrix printer. Using fiber optics to scan a page (up to 244 dots per inch using a 24 pin printer) this scanner can import pictures from Newspapers, Magazines, photographs, etc. These scanned images can then be imported into PowerPAINT or Digital Express's up-and-coming Desk Top Publishing program. Stay tuned for further details. Who said the ADAM is dead??

We are still looking at the possibility of producing a Hard Drive for the ADAM. We initially thought of producing a 10MEG, but have since decided a 20MEG would be better. We will try to hold down the cost to around \$500.00. If you would like to have a super high-speed 20MEG Hard Drive for your ADAM, please drop us a line. We MUST have a commitment from at least 50 ADAM owners before we'll start production. The release of this product is strictly up to you.

Walters Software has recently sent us a printout of their up-and-coming "The PrintWORKS". From what we have seen so far, this program appears to have MORE FEATURES than ANY other similar program on ANY other computer (this includes the IBM, Atari ST, and the Commodore). This exciting new program will allow the creation of banners, signs, posters, greeting cards, etc. The user will have the choice of several types of Borders, Fonts, and several Clip Art files. Each Font can be

printed in three different sizes, and up to 72 different Clip Art pictures can be used on EACH PAGE. Walters will even include a conversion program so the user can use the Clip Art files and Fonts created with Digital Express's CLIPPER and FontPOWER programs. For printing, the program will require an Epson compatible dot matrix printer (Panasonic, Star, etc.). From what I have seen so far, this is one program that should be on a "MUST HAVE" list. Look for a complete review just as soon as the program is completed.

We have just received a demo copy of MIND OVER ADAM. This is a new game from Steve Pitman Software. This is a Mastermind type game in which you must guess the position of four different colors. The game uses high resolution graphics and some neat sound effects. Look for a complete review next month.

For those of you with an Orphanware 80 column card, Digital Express has just released SwiftBASIC 80, an 80 column version of SmartBASIC 1.0. This new program can be purchased directly from Digital Express.

David White (the genius who created SpeedyWRITER) is working on a Spelling Checker and a Thesaurus that will work in conjunction with his popular word processor. We'll have more details as soon as possible.

ZADAM ELECTRONICS has announced they will be releasing SUPER BASIC PLUS this September. SUPER BASIC PLUS is the first MICROSOFT BASIC compatible BASIC for the ADAM. Nearly any MICROSOFT program can be translated to work with SUPER BASIC PLUS, and used as is. This powerful BASIC features LOGO-like sprite implementation, compatibility with all graphic standards (GR, HGR, HGR2, PIC, RLE, PAINTMASTER, and SmartPAINT). The user has the ability to access any size memory expander (this

PHRASE SHEET

Send the completed sheet to Mike Keith, P.O. Box 368 Fredericktown, Mo. 63645

Pak

#1: [grid]

#2: [grid]

#3: [grid]

#4: [grid]

#5: [grid]

#6: [grid]

#7: [grid]

#8: [grid]

#9: [grid]

#10: [grid]

#11: [grid]

#12: [grid]

#13: [grid]

#14: [grid]

#15: [grid]

#16: [grid]

#17: [grid]

#18: [grid]

#19: [grid]

#20: [grid]

#21: [grid]

#22: [grid]

#23: [grid]

#24: [grid]

#25: [grid]

#26: [grid]

#27: [grid]

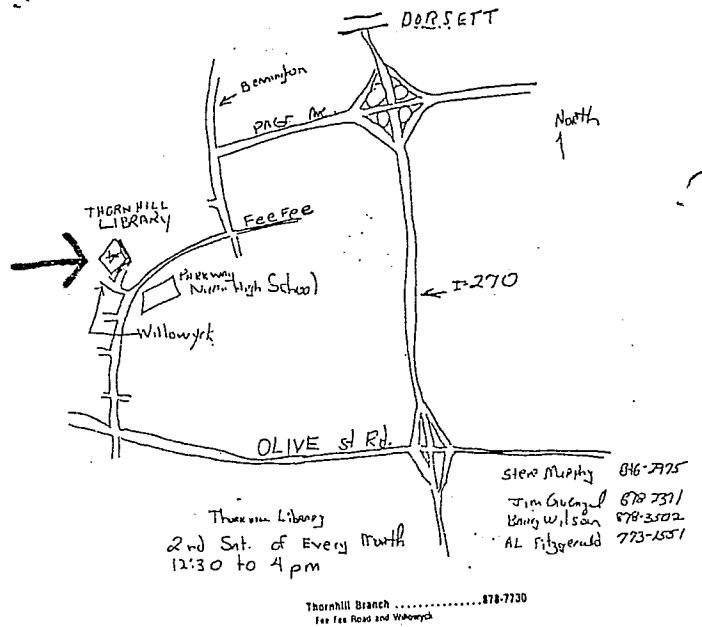
#28: [grid]

#29: [grid]

#30: [grid]

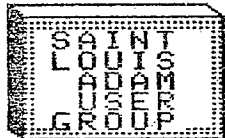
ST. L. AUG MEETING DATES  
 2nd Saturday of each month  
 12:30 - 4:00. THORNHILL LIBRARY

Dec 10 1988

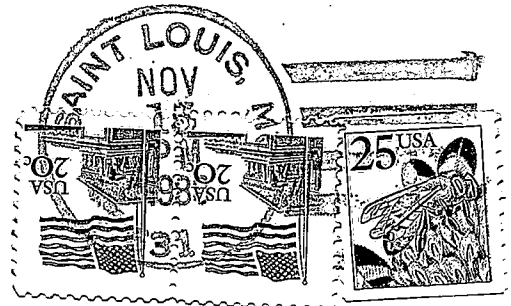


St Louis ADAM USER'S GROUP  
 Meeting Place + time

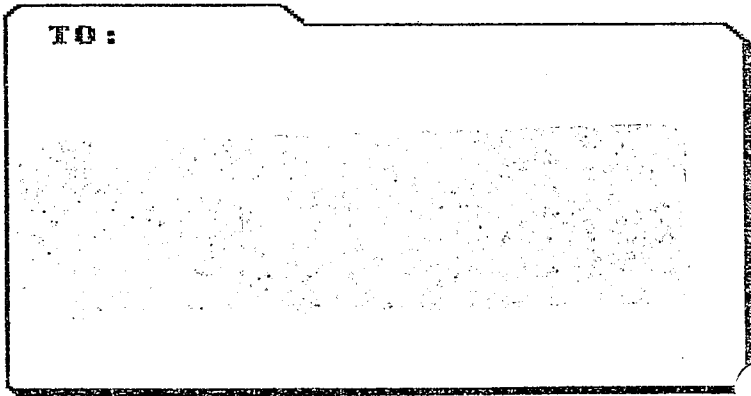
- IMPORTANT !! PLEASE TRY & BRING THE FOLLOWING TO THE MEETING:
1. BLANK Media (disk or tape) so that new PD programs can be copied for you.
  2. Software to demonstrate for other members.
  3. HARDWARE SO WE CAN GET AT LEAST 2 ADAM SETUPS RUNNING. More would be helpful.



12967 Weatherfield  
 St. Louis Mo. 63146



TO:



FIRST CLASS MAIL