Continuing with our study of Romans chapter 8... 26 Likewise the Spirit helps us in our weakness; for we do not know how to pray as we ought, but the Spirit himself intercedes for us with sighs too deep for words. 27 And he who searches the hearts of men knows what is the mind of the Spirit, because the Spirit intercedes for the saints according to the will of God. 28 We know that in everything God works for good with those who love him, who are called according to his purpose. 29 For those whom he foreknew he also predestined to be conformed to the image of his Son, in order that he might be the first-born among many brethren. 30 And those whom he predestined he also called; and those whom he called he also justified; and those whom he justified he also glorified. 31 What then shall we say to this ? If God is for us, who is against us? 32 He who did not spare his own Son, but gave him up for us all, will he not also give us all things with him? 33 Who shall bring any charge against God's elect ? It is God who justifies; 34 who is to condemn ? Is it Christ Jesus, who died, yes, who was raised from the dead, who is at the right hand of God, who intercedes for us? 35 Who shall separate us from the love of Christ ? Shall tribulation, or distress, or persecution, or famine, or nakedness, or peril, or sword ? 36 As it is written,
"For thy sake we are being killed all the day long; we are regarded as sheep to be slaughtered." 37 No, in all these things we are more than conquerors through him who loved us. 38 For I am sure that neither death, nor life, nor angels, nor principalities, nor things present, nor things to come, nor powers, 39 nor height, nor depth, nor anything else in all creation, will be able to separate us from the love of God in Christ Jesus our Lord.

God is the ultimate helper of mankind. He sent His only Son to die for our sins and give us eternal life. His Spirit is present to help us on a day to day basis to deal with the ups and downs (sometimes there only seem to be downs) of life. This is part of God's perfect plan for his children - to provide for all our needs. Paul makes the common sense point that if God sent his beloved Son to earth to die just for us wouldn't he also give us every other blessing at His disposal ? In other words, He gave us His most precious possession so giving us other blessings would seem to be a natural. In fact, God gives us the means and power to accomplish anything THROUGH the name of Jesus. One of our Pastor members wrote and was concerned that our May Bible study was in error because he thought we were implying that we as humans have the power to break the bonds of sin and death and triumph over them. This is not what we intended to imply. The only way we can accomplish this is through our belief and faith in Jesus Christ. When we accept Jesus as our Lord and Saviour, God's Spirit indwells us and God sees us as one with His Son Jesus - hence we become righteous as Jesus is righteous, not of our own doing, but because we become one with Jesus through accepting him as our personal Lord and Saviour. Jesus said "I am the way, and the truth, and the life; no one comes to the Father but by me." (John 14:6) This is a key point, many people have devised ways that they claim can get you to heaven or some type of a life after death. These ways may include such things as "being a good person", "going to church", "meditating on some truth", "believing in a particular prophet" or "worshipping various God's". Unfortunately, these ways of getting to heaven have been invented by man. God sets the rules of life (not man) and God has said that mankind's salvation is available only as a free gift from God, through the sacrifice made by Jesus. In other words we can't earn our way to heaven by any means. Our pride may tell us that we have to "do" something to receive salvation, but this is not true. God gives us the gift of salvation and all the blessings that go with it.

This may be a hard thing to mentally accept, but our God is a loving father who wants to bless and help all his children.

Won't you accept this free gift today ? It will change your life for eternity.

God bless you all.

N I A D - A CHRISTIAN RUN BUSINESS

NIAD NEWS/ UPDATES

THIS MONTHS INDEX

From the Editor's Desk:

I was so encouraged to see Paul Pappas' article in the July issue of the Computer Shopper. Paul did an excellent job in his overview article describing the support available for ADAM owners. I recommend that you all pick up this issue of CS and read Paul's article - you will be impressed and thankful that we have a national magazine like CS that will carry information about our orphaned ADAM. Please write to CS at the address below and encourage them to continue to carry ADAM articles, thanking them for their support thus far. We hope to see an expansion in their "Classic Computers" section for the ADAM.

Remember, if you want this type of support for your ADAM, respond to Computer Shopper now at this address: 5211 S. Washington Ave Titusville, FL 32781 NOTE: The subscription price for Computer Shopper is only $21/ year and I would recommend it to all serious ADAM owners.

. Coleco has filed bankruptcy under Chapter 11 and will no doubt be undergoing a restructuring and trimming operation. This is a real shame, but there must have been some major problems inside the company to cause such a giant in the toy industry to crumble as they did. This may be a blessing in disguise for ADAM owners if there are any unreleased software titles or any hardware/

software stock that may be released as a result of this action !! Evidently, Hasbro toys has purchased most of Coleco's licenses with the exception of Cabbage Patch kids. One bad effect of this is that Honeywell will no longer service the ADAM (because Coleco in under Chapter 11). We are taking steps to acquire additional memory consoles, printers, etc. to accomodate any of you that have defective parts.

You might notice a difference in the look of this issue. I'll comment on this next month, when you will see an even more dramatic improvement in the look of the newsletter. This is just another step in NIAD's attempt to provide all members a high quality newsletter and a multitude of services.

. Well, the results of the member survey are very interesting. I was disappointed that more of you did not send in the survey questionnaire, especially with the incentive of $175 in gift certificates !! We received about 400 surveys in and will use the responses as representative of the entire NIAD member base. I would strongly suggest that any of you who did not send in your surveys and want to be heard - **SEND THEM IN NOW !** We want to here the needs of all the members. The survey was in the March/88 issue. *We will wait and publish the full results of the survey in the next issue, so you still have time to send them in.* The biggest surprise was that 75% of the respondents want us to begin printing advertising in the monthly issues. So be it, we will begin carrying advertising (for products we have checked out) in the September issue. Some additional interesting items from the survey (more next month):

AVERAGE AGE - 42.7 (although 20% are under 30)
AVERAGE # IN FAMILY USING ADAM - 2.4
MOST DESIRED ARTICLES - SOFTWARE REVIEWS
% WITH 2 ADAM SYSTEMS - 31%
% OWNING A DISK DRIVE - 45%
% OWNING A DOT MATRIX PRINTER - 31%

. We have an interesting issue for you with more SPEEDYWRITE tips, a couple good basic programs, descriptions of 11 new CP/M PD libraries, reviews of several new programs, a CP/M telecommunications tutorial and lots of new news !!

Notice

. See our HARDWARE UPDATES section for information on the new 720K 3 1/2 inch drives that are now available for the ADAM. You can store the equivalent of 4 1/2 diskettes full of data on one 3 1/2 720K diskette ! You can purchase the entire drive or send in your Coleco drive for an upgrade.

. Telegames has just announced a new game system that will run the Colecovision/ ADAM cartridges (not tapes). Lets hope this system will result in more games for us ADAMites.

. Please notify us if you would purchase a hard drive for your ADAM. E&T/ MMSG are considering producing a 20 meg hard drive that would sell for approximately $450 (we had indicated that they were considering a 10 meg for $350 in the last issue, but have switched to a 20 meg now). This drive will be usable with all software – SMARTBasic, SMARTWriter, CP/M, etc. Special software will be provided to allow the ADAM to boot programs from the hard drive as well, just like the big blue computers ! You need to write NIAD now if you would purchase this unit. We need 50 serious buyers before production work can begin.

. MMSG has found a bug in the Coleco disk drive controller EPROM chip (an EPROM chip is a micro chip that contains a program for the operation of a hardware device like a printer or disk drive) and is considering producing a new EPROM that will reduce the time it takes to format a new diskette to about 30 seconds. The price for the chip would be about $14.95. Please write NIAD if you want MMSG to produce this product.

. Our Public Domain library is growing so large that we can now offer reduced prices of $4.00 for disk and $6.00 for DDP. This includes all of the Public Domain titles – SMARTBasic, CP/M, games, Graphics, etc. Take advantage of this price reduction to get hundreds of great programs at a minimal cost.

. Sharon McFarlane is unbelievable – she has completed adding 11 additional volumes to our CP/M 2.2 Public Domain library !! There are some great programs including a new improved version of the Bradford printing program and TDOS, an improved and compact CP/M developed by Tony Morehan.

. Many of you have asked for more detail on the

programs that are contained in our SMARTBasic PD volumes. Jim Notini has put together a booklet containing descriptions of all the programs in volumes 1- 26 of our Basic library. Cost is just $5.00 for this booklet that will greatly aid you in choosing the right volumes. Order the "SMARTBasic PD Description" book.

. Our next Chicago local chapter meeting will be here at the store Thursday, September 8th at 7:30. We'll have plenty of demos of new programs and some unannounced specials !! Come to the meeting to talk with other ADAMites and find out what is new and exciting in the ADAM world.

. If 0788 or 0888 are the first 4 letters of your member number as it appears on your mailing label then this is your last issue – send in your renewal of $19 for 3rd class mailing or $26 for 1st/ Canadian.

SOFTWARE/ HARDWARE UPDATES

. Some addendums to our review of CHESS CHAMP, last month. We forgot to mention that the 64K memory expander is required for the game. Also, our recommendation was based on the novice chess player who will be challenged by the game. However, the intermediate or advanced player will find the game too easy, even at the higher levels. Digital Express has stated that they are working on an upgrade to CHESS CHAMP that will be available this fall to "toughen up" the play and correct a couple minor bugs.

. Walter's Software has been very busy developing more great software products for the ADAM. See our reviews of their AUTOBACKUP product and their new SPELLINGAID program in this issue. Walter's is also close to releasing what sounds like a fantastic printing program for dot matrix printers. This program will print signs, banners and greeting cards similar to many of the popular printing programs out for other computers. Many of us have been long awaiting a program like this for our ADAMs. I have seen some sample prints produced by the program and they look great ! Again, our quality software suppliers come to our aid-let's really support them because they are keeping our ADAM's alive.

. Acolyte Software has released OPENFILER, a program for reading SMARTFILER databases and writing standard

files that can be accessed via Basic or SMARTWriter. Wayne will have a review for the September issue.

. AJM software has just released DISKDOCTOR, a program to repair damaged EOS directories (an all too common problem that can result in the loss of all the data on a disk/ tape) and FILEINDEXER, a program for printing and sorting disk/ tape directories. We will have a review of each next month.

. Strategic Software has just released SUB RAIDERS, a graphics WW II submarine combat simulator. The game description looks very good, but we are awaiting a review copy before we recommend it.

. Bryan's Software has just released GREETING CARD I, a card printing program that requires Digital's great POWERPAINT program - we'll have a review and some samples next month.

. ADAMZAP Software has released WORDLIST V2.0, a large dictionary for use with Strategic Software's PROOFREADER software - see our review in this issue.

. ADAMZAP has also released FOREPLAY, a short adult oriented text adventure game. We do not endorse this type of program and ask you to not support it through not purchasing it. The game is poorly done as well. We are asking ADAMZAP take this game off the market.

. Digital Express has released SWIFTPRINT for printing high resolution color pictures on the Okimate 20 color printer as well as shaded black and white pictures on a standard dot matrix printer. See our review in this issue.

. Digital Express is still working on GODOS as of this writing, but has not announced a firm completion date

. 64K expanders are now available, but the 256K expanders are still on backorder.
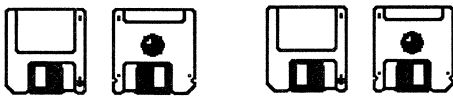
The standard Coleco disk drives are real scarce right now, but the new double sided conversions are going strong. We have them for $275 complete, or send in your drive and $125 to have it converted.
A 3 1/2 inch 720K conversion is now available !! Send in your Coleco drive and only $155 to have it converted to a 720K 3 1/2 inch drive. The price will go to $175 as of 9/1.

. How about an image scanner for under $100 that will attach to your dot matrix printer and scan images, writing them in an ADAM compatible high resolution file that can be viewed/ printed with available software ? More on this exciting development next month.

For Your Information
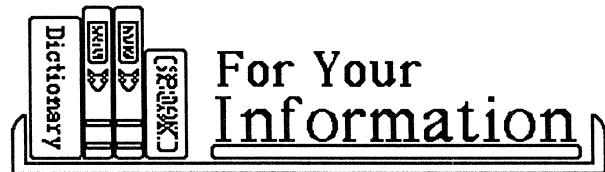
. Herman Mason is the Sysop of the TRADING POST BBS. This BBS is run on an ADAM using the A-NET software from Alan Neely. The BBS is up 24 hours a day at (216) 791-4022.

. Bob Warren has started a new ADAM BBS. GATE RBBS is up from 9PM to 9AM daily at (314) 358-2711.

. The Las Vegas ADAMLINK is operational 24 hours daily at (702) 873-8056. Set up as full duplex, 8 bits, 1 stop bit, no parity.

.The UP and ADAM BBS, sponsored by PSAN is up 24 hours daily at (206) 859-2018, run using C-NET software on an ADAM.

. The ADAM Washington area User's Group has it's BBS up Monday - Thursday 6PM to 6 AM and 24 hours Friday - Sunday. Call (703) 922-5497 and set at 8 bits, 1 stop bit

and no parity.

. The "GAS STATION" is up 24 hours daily and supports XMODEM protocal with a conference section for the ADAM - (817) 265- 8938.

. The Metro Toronto Adam Group runs two sets of meetings each month. One in the west end of Toronto the second Monday of each month (3rd in Sept & Oct) and one in the east end the fourth Saturday.
Call Richard Clee (president) at (416) 783- 0316 or write MTAG at:
Box 165, 260 Adelaide St. East
Toronto, Ontario M5A 1N0

. Are any NIAD members working with Tiny Basic ?
I am working with a youth organization which recently acquired an XT clone. At first I was just helping them learn to use it and the software they got with it but now some of the young people are interested in learning something about programming. They blew most of their grant on the computer so we have been exploring PD and Shareware sources (mostly PD). So far Tiny BASIC is the only affordable language I've found. It seemed a good choice since I knew I had it on one of the disks I got from NIAD, but there are a few problems... The one that is giving me the most trouble is not being able to printout what I do on ADAM. Since they do not have a modem and I haven't been able to find an affordable program that will allow the XT to read my disks, I was resigned to having to type everything in twice. Having to copy out what I've done at home and then go in and type it in is getting to be too much!

    Their version includes an ASM file and I've even wondered about trying to find one for the ADAM although it probably wouldn't help since my assembly skills are almost non-existant.

    If anyone knows of a patch to allow using TYPE with a TBI file please let me know! It is hard enough trying to keep ahead of teenagers without all the extra work.

    (Working with Tiny BASIC is as intriguing as it is exasperating. Trying to work within it's limitations takes some doing!) Margaret I. Carr 224 'C' NE 2nd St. Visalia, CA 93291

** Could anyone who has some information that could help Margaret, write to her at the above address **

JEOPARDY

. The following are some revisions to the Jeopardy instruction sheet that comes with this program:

KEY	FUNCTION
UNDO	Undo's some changes that have been selected
STORE/GET	Saves or retrieves a game.
WILDCARD	Gives you a look at the players if you're on the game board screen.

. Now for a trick that I have never heard mentioned anywhere. It was taught to me by a year and a half old kid we babysit. With Hard Hat Mack, if as soon as you are able to move your man you press the "#" on the controller, you will have an endless supply of men. It makes the game playable, but still a challenge. Before, I could never complete the second screen, now I have seen level 50. One problem I have noticed is that if, after you drop the last block on screen three, you immediately follow it through the hole, you may be stuck on that level for ever, or until you re-load the game, whichever comes first.

                    Michael F. Lyons
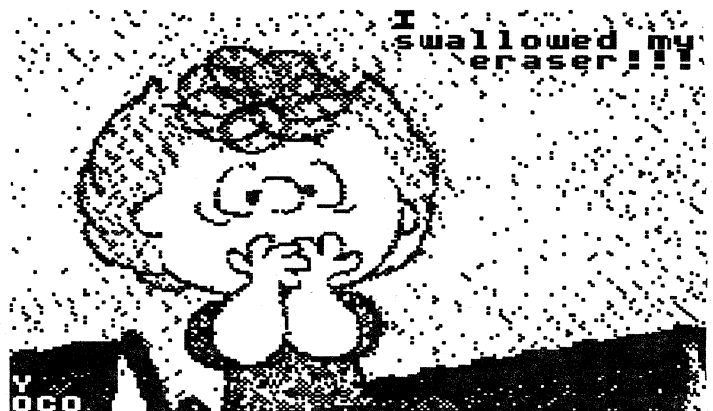
◆◆ PUBLIC DOMAIN WORKSHOP ◆◆

ADDENDUM TO WAMODRIVER

In the June/ 88 issue # 42, we printed an article about using the WAMODrive program for dot matrix printing from SMALRTBasic version 1.0. Since then we have been contacted by several members asking us about using this program under SMARTBasic version 2.0.

This is easily accomplished by changing just one line in the program.

Enter a new line number 11 as follows:

```
11 DATA  229,33,113,246,34,100,252,33,103,246,34,103,252,225,201
```

This line contains some different poke values that are specific to version 2.0

Here is a good little game for you arcade game lovers –

```
  3 POKE 17059, 14: POKE 17115, 241: POKE 17126, 77: TEXT
  4 GOTO 3000
  5 REM   - GET'EM
  6 REM   - by Joey Latimer
  7 REM        - Family Computing - November, 1985
  8 REM        - modified by H.M.Guill - 1986
 10 LOMEM :29000
 20 DIM d$(4), tr(19)
 29 REM          --turn off cursor--
 30 POKE 16953, 0
 40 hs = 0: s = 0: sp$ = CHR$(32)
 50 FOR i = 1 TO 4: READ d$(i): NEXT i
 60 FOR i = 28000 TO 28012: READ a: POKE i, a: NEXT i
 70 HOME
 80 PRINT " SCORE:0"; TAB(15); "HIGH SCORE:"; hs
 90 HTAB 2: INVERSE: PRINT SPC(29)
100 FOR i = 3 TO 21: VTAB i: HTAB 2: PRINT sp$
110 VTAB i: HTAB 30: PRINT sp$: NEXT i
120 HTAB 2: PRINT SPC(29): NORMAL: PRINT
130 PRINT "PNTS: +=100 *=250 $=500 /=-100";
140 INVERSE: c = 2: j = 20: FOR i = 4 TO 20 STEP 2
150 VTAB i: HTAB j: PRINT SPC(30-j);
160 tr(c) = j: j = j+1-2*(i >= 12)
170 c = c+2: NEXT i: NORMAL
180 FOR i = 3 TO 21 STEP 2
190 q = ABS(INT(RND(1)*8)-3): IF q = 0 THEN  q = 1
200 VTAB i: HTAB 29: PRINT d$(q); : tr(i-2) = q: NEXT i
209 REM          --"call 28007" prepares for keypress--
```

CP/M 2.2 WORKSHOP

-NIAD CP/M PUBLIC DOMAIN LIBRARY-
compiled by: Sharon McFarlane
July 15, 1988

===
-CNPDVOL.037
VDE-PAT .LBR   Miscellaneous patches for VDE.
VDE26-SP.LBR   Modifications to VDE for specialized screenwriter's format.
VDE265 .LBR   Small but powerful Text Editor. Latest version (April/88).
VDE265 .QRF   Quick Reference Sheet with brief description of all commands.
VDE265 .UPD   Info re Version 265 which includes improved tabs & indent.
VDEMAC#1.LBR   Pre-defined Macros for VDE.
VDEMAC#2.LBR   More Macros...
===
-CNPDVOL.43A
BRAD2A .LBR   NEW - Version 2 of popular BRADFORD multi-font printing program. MUST be used with TDOS &
            BRAD2B.LBR/BFUPDAT1.LBR (-CNPDVOL.43B). There is not enough memory available with the normal
        ADAM CP/Mto run BRADFORD 2.01
CCITCRC .COM   Calculates & validates CRC of file<s>.
CCITLIST.CRC   List of CRC values re this Library collection disk.
DISKSIZE.COM   Temporarily change disk drive designation from double-sided to single-sided or vice versa. Use with
            TDOS.
PATH   .COM   Turn "Path" On/Off. Use with TDOS.
TDOS-V13.COM   Tony Morehen's replacement CCP. Supports: 145, 255, 320 & 720Kdisk drives; Orphanware's 64,
            128, 256 & 512K Memory Expanders; Orphanware's 80-CVU or the EVE 80-Column Video Expansion
            Unit. Frees up 4K in TPA. Built-in "Path" structure and line-editingfeature. New CLS (Clear
            Screen/Home Cursor), LOG (Reset disk system), GO (Restart last program loaded into TPA), COPY
            (File from one medium to another), TYPE (List file on CRT) and LIST (Send file to printer) Commands.
            DIR lists an alphabetically sorted directory.
TDOS-V14.COM   Same as above but this version supports up to 6 disk drives!
===
-CNPDVOL.43B
BFUPDAT1.LBR   Smaller version of BRAD2 - Version 2.02. No major features lost!
BRAD2B   .LBR   Very large collection of fonts for BRADFORD V2. Use with BRAD2A (-CNPDVOL.43A) &
            BFUPDAT1.LBR. MUST be used with TDOS, as thereis not enough memory available with the normal
            ADAM CP/M to run BRADFORD 2.01
TDOS-V14.DZC   Comprehensive DOC file & installation info re TDOS V1.3 and 1.4
===
-CNPDVOL.044
DZLSTAR .LBR   Latest version of this popular interactive Disassembler.
Z80MR-A.LBR   Enhanced Macro-Assembler in 2 versions. One assembles directly
Z80MR-A.UPD   to a .COM file. UPD contains description of Z80MR-A.LBR files.
===
-CNPDVOL.045
CHALK21 .ARK   A fully-featured Electronic Spreadsheet program.
DBEDIT .TZT   dBASE II editing tips.
DBEDITOR.TZT   Limitations of dBASE II's command editor.

```
DBFULL  .TZT   dBASE II "Disk is Full" message.
DBJOIN  .TZT   Bug in dBASE II "Join" command.
FRONT50 .LBR   Front end loader to aid in learning the CP/M system.
GRAPH1  .LBR   Excellent Bar, Line & Scatter Graph program.
================================================================================
```

-CNPDVOL.046

```
BOX1     .ARK   Draw a "Box" around any size block of text - great for Menus!
SCRIVNER.ARK   Outstanding comprehensive data/text manipulator from the U.K.
UNARC    .COM   Extract ARK/ARC files - Version 1.6
================================================================================
```

-CNPDVOL.47A

```
XLATE6  .LBR   Intel 8080 to Zilog Z80 source code translator.
Z8E-V14 .INF   Info re Z8E Debugging Tool - Version 1.4
Z8E-V14A.LBR   Professional quality screen-oriented Z80 debugging tool.  Part A
================================================================================
```

-CNPDVOL.47B

```
ARK02   .ARK   CP/M program to generate ARK files. Needs 53-54K in TPA.
TPA32   .LBR   Calculates the TPA available on CP/M computers.
UNARC16 .ARK   Utility to view, type or extract archive (ARK/ARC) files.
XZIZ    .LBR   Intel 8080 <--> Zilog Z80 translator.
Z8E-V14 .INF   Info re Z8E Debugging Tool - Version 1.4
Z8E-V14B.LBR   Professional quality screen-oriented Z80 debugging tool.  Part B
================================================================================
```

-CNPDVOL.048

```
LT27     .LBR   Latest version of LT.  Lists Normal, Crunched or Squeezed files.
QL25B    .LBR   Fast memory based bi-directional file viewer.  Normal, Squeezed,
QL25C    .COM   Crunched, LBR, ARK or ARC files.  A "must-have" utility!
================================================================================
```

-CNPDVOL.049

```
CFA10   .LBR   Moves files to other User areas and/or changes file attributes.
COMPARE3.LBR   Compares 2 Binary files & shows addresses of all discrepancies.
CUT10   .LBR   Splits large files into smaller ones - very fast!
SD132   .LBR   Super Directory lister - also checks LBR, ARK or ARC files.
XCAT42  .LBR   Cross-reference program used with MCAT, creates disk files etc
================================================================================
```

-CNPDVOL.050

```
ENTAB16 .LBR   Replaces spaces with tabs in source code files.
JUSTIFY .LBR   Justify text files to right or left margins or both!
SOFTEN  .LBR   Convert ASCII text files to WordStar files.
WS-MAIL .LBR   MailMerge (WordStar 3.3) for labels & envelopes.
WS4-DIAB.FIX   Fix for WordStar 4.0 and Diablo printer.
WS4CPM  .NEW   List of new features for WordStar 4.0
WS4CPM  .PR    Announcement of new CP/M WordStar 4.0
WS4PRNDV.LBR   Use 2 printers with WordStar 4.0
WSCTRL-Y.INF   Change Control-Y "delete line" command in WordStar.
WSHEAD  .TXT   Tips for using headers/footers in WordStar.
WSMAGIC .TXT   Tips for speeding up WordStar 3.3 edit functions.
WSREVIEW.TXT   A review of WordStar 4.0, CP/M Edition.
WSOVR12 .ASM   Various patches to WordStar 3.3
WSSCRIPT.PAT   WordStar 3.3 patch for Super/Subscript.
WSWLDCRD.TXT   Changing WordStar's search wildcard.
================================================================================
```

A Short Concise Look at the Public Domain CP/M Modem Programs for the Adam.

Rob Friedman (Sysop Adam CP/M on CompuServe's Computer Club)

As Adam users, we have the opportunity to use several modem programs at absolutely no cost to us whatsoever. These are referred to as Public Domain, which are available to everyone free of charge. All the programs that will be discussed here are used for downloading all files, binary or text. Binary files are those that are CP/M programs, also known as .COM files, which these all are. There are 2 for the Adamlink Internal 300 baud modem, and 4 for use with a serial port <like the Orphanware serial port, or the SP-1> and 1200 baud external modem.

The internal modem programs are Madam7, a variation of the original Modem and Modem7, and Mex114, which stands for Modem EXecutive, a very complete scripting program. The external programs are Mex114, Imp245, which stands for Improved Modem Program, Csexec, which is CompuServe Executive , and Kermit <which simply means free in celtic>. Together they give us a variety of programs to fill our needs. The brief descriptions and opinions <mine> follow below.

First starting with the first program I received and the earliest Adam CP/M program, Madam7 by John Moore. This is a very capable program for the internal modem. In fact, this was the program I used until I bought my serial port and Avatex1200 modem from Orphanware. The commands are simple, and are displayed by using M for Menu. It has a built in function-key display, and a built-in phone library. They are installed with the companion programs M7Lib, and M7fnk. The program uses xmodem transfers, using either CRC or Checksum for file checking, and uses 128-byte blocks. As we get it, it's ready to run on the Adamlink Modem. To recieve a file, you must first set up the system you are calling to send the file to you. Then, you must manually set your own system to receive the file by going into the COMMAND mode via a Cntrl-E, then using >R Filename.Typ. Madam7 will then do the transfer for you, then return you to Terminal Mode. A very easy program all around, and a very easy one to learn.

Highly rated Mex114, by Ron Fowler, on the other hand.. is a very complete program with features I haven't even used yet <both the internal and external versions>. Mex114 will work very similar to Madam7, or run a script file and be fully automated. The program comes with a help file <Mex.Hlp> and a large doc file. One unique feature is it's cloning ability. This, with the built-in phone library and function key, allows you to save the settings and phone numbers you had before. No external program needed. Mex also has a little known feature. It will do both 128-byte and 1K downloading <use the RK Filename.Typ version for 1K>. A special note here.. the external version of Mex <as set up for the Adam> currently doesn't let you switch baud rates. There are two versions available..a 300 baud, and a 1200 baud. Also.. the original version allowed you to use either Xmodem or CompuServe type-A <CIS-A> downloading, which was automatic, and a little bit faster. But, about a 18 months ago, CompuServe changed their system, and Mex114 CIS-A no longer works. There is a commercial v=9 called Mex+ that has the CIS-A, along with a few other features, but the PD version no longer functions. This has become another favorite of mine, basically, because the program works on most telecom systems, and BBS's without incident. Also.. you can set various features on the fly from the command mode. <I usually turn off the bell..since my terminal has a bell without a switch> This uses the same procedure as Madam7 to download with the exception of using Esc instead of Cntrl. One of the all time better programs.

Imp, by Irv Hoff, for the external modems only, is similar to Madam7 <which is based off Irv's Modem7 commands, except you use ESC-E instead of Cntrl-E to get into command mode <like Mex>. Imp is unique in that it is the only PD program that will autoselect 1K protocol for transmissions if the system is capable. If not.. it will auto-switch to 128-byte blocks. Imp also has two companion programs for the phone library, and the function keys. And the Set Baud rate feature is implemented. Like Madam7, this is a very easy program to run..since it has a built in Menu, and very few commands. <Unlike Mex which is chock full of options.. that one needs to constantly refer to the Doc or Help file for help> This is my prime modem program ,though occasionally some BBS's wont download with it. If you have a problem downloading with Imp.. try Mex instead. A big hit in the CP/M world.

Now we come to the two different ones. Kermit, and Csexec. Both a little strange, Kermit is actually designed for use between mainframes and microcomputer and was developed at Columbia University. Kermit is not the frog, but is celtic for free. The current version in use is called

the generic one, because it will work on almost any system. <I think I've seen a version of Kermit set up for the Internal modem, but i've never used it>. Kermit uses kermit protocol, not Xmodem, which runs a bit slower. But..it is a standard in that several systems <mainframes> are using this and Kermit will run on most systems. Of course it will download or upload only from systems running Kermit. <CompuServe recently implemented Kermit in addition to their own CIS-A, CIS-B, Xmodem, and ASCII <this is a nonchecking mode that can be used for basic or text files. This is what Adamlink 2 uses. Also known as file capture, or Xon/Xoff>.

To use Kermit on an Adam with an external modem, you must first set the I/O port by using the command Set Port TTY. This will let Kermit work your modem. Then, use the Hayes commands for your modem . Ie: ATDT 2127771221 . The modem will operate and dial your number. To receive a file, you must let the system know the name you will use on your disk, then go into command mode, and use RECEIVE <no filename needed..you already told the system>. This is an interesting program because of it's usage to get programs from sources that don't use xmodem. Nice, after setting the port, but slow.

Csexec, on the other hand, was actually a commercial program from CompuServe that was put into Public Domain by CompuServe after they decided that CP/M was on the downswing. I came across it on CIS, and installed it for my serial port with a 1200 baud modem. There are no function keys, but it has a very, very simple script file feature that has to be seen. I hit the command to execute the default file, and when it's done..I've ended up in Computer Club. Nothing else to press. Csexec uses CIS-B protocal which uses 512- byte blocks, which is faster than standard Xmodem on CIS. It has no function keys, or a phone library, but you can set up the different phone numbers in individual script files. To download with Csexec on Compuserve, all you do after requesting to use

CIS- B protocol is to tell it the name for your disk, then Csexec does the rest. You don't have to do anything else. This protocol is also known as Vidtex-B. A definite plus when speed is of the essence.

What follows is my tests of download times using all the external programs at 1200 baud on Compuserve's Computer Club. The system as I have, is an Adam module 3 with a ColecoVison <converted to direct video by myself from an old article by John Moore in ECN>, 2 ddp's, 2 disk drives, a PIA2 <Original!> and a Panasonic KXP1080i, a Orphanware Serial port <version 1> pluged into a used TRS-80 DT-1 terminal for an 80 col display, a second serial board with an Avatex1200 modem, and a 512K Orphanware Ramcard/memory expander. As most people on CIS know..I almost never run anything other than CP/M.

PROGRAM TESTED FOR DOWNLOADING TO RAMDRIVE:
         WP-100.LBR showing as 37376 blocks online.

PROGRAM	BLOCKS USED	TIME TO DOWNLOAD MIN:SEC
IMP.COM	292	11:03
MEX12.COM	292	11:08
CSEXEC.COM	74.5	7:46
KERMIT.COM	564	18:53

Also, here is how Crosstalk version 3 fares up. This is a very popular commercial program that has it's own protocol, as well as Xmodem.

XTALK.COM	292	11:21

I hope this will give you a good overview of what is out there for us, and a brief comparison, so you can decide which is right for you.
<This was typed on my Adam using VDE265.COM..an excellent PD editor>
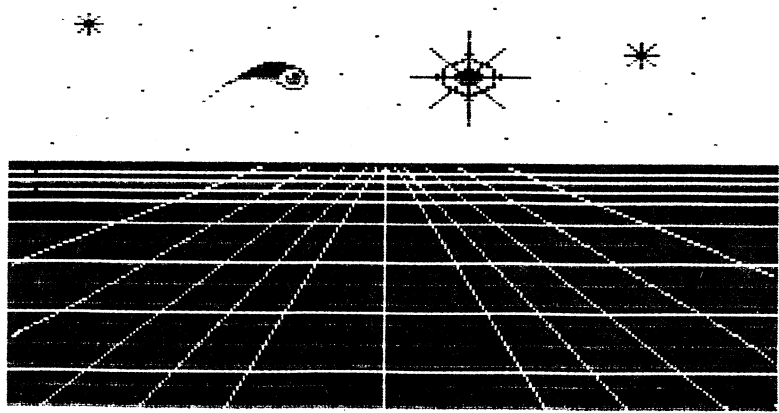
... CONTINUED FROM PAGE 5

```
210 f = 1: a = 4: d = INT(RND(1)*18)+3: CALL 28007
220 VTAB d: HTAB a: INVERSE: PRINT sp$; : NORMAL
229 REM       --"peek(64885)" tells latest keypress--
230 IF PEEK(64885) = 32 THEN   CALL 28007: GOTO 340
240 l = INT(RND(1)*19)+3: IF l/2 = INT(l/2) THEN 270
250 q = ABS(INT(RND(1)*8)-3): IF q = 0 THEN   q = 1
260 VTAB l: HTAB 29: PRINT d$(q); : tr(l-2) = q
270 VTAB d: HTAB a: PRINT sp$;
280 d = d+f: IF d > 3 AND d < 21 THEN 220
289 REM        --this poke and call make a sound--
290 f = -f: POKE 28006, 144: CALL 28000
300 POKE 28006, 141: CALL 28000
310 POKE 28006, 34+f: CALL 28000
320 FOR t = 1 TO 5: NEXT t: POKE 28006, 159: CALL 28000
330 GOTO 220
340 IF d/2 = INT(d/2) THEN  nd = tr(d-2): GOTO 360
350 nd = 29
360 VTAB d: HTAB a: PRINT sp$;
370 a = a+1: IF a = nd THEN 390
380 VTAB d: HTAB a: INVERSE: PRINT sp$; : NORMAL: GOTO 360
390 IF nd <> 29 THEN 500
400 p$ = d$(tr(d-2))
410 pt = 50-25*(p$ = "*")-40*(p$ = "+")-60*(p$ = "/")
420 v = SGN(pt): x = 50-20*(v < 0)
430 POKE 28006, 144: CALL 28000
440 FOR i = v TO pt STEP v: s = s+v*10
450 VTAB 1: HTAB 8: PRINT s; sp$;
460 POKE 28006, 128: CALL 28000
470 POKE 28006, x: CALL 28000
480 x = x-v: NEXT i: POKE 28006, 159: CALL 28000
490 GOTO 210
500 POKE 28006, 128: CALL 28000
510 POKE 28006, 50: CALL 28000
520 POKE 28006, 144: CALL 28000
530 FOR t = 1 TO 100: NEXT t
540 POKE 28006, 159: CALL 28000
550 HOME: PRINT: PRINT: PRINT " Sorry you missed!"
560 PRINT: PRINT " Your score: "; s
570 PRINT: PRINT " High score: "; hs
580 IF s <= hs THEN 610
590 hs = s: PRINT: PRINT " Congratulations!"
600 PRINT: PRINT " You beat the high score!"
610 PRINT: PRINT: PRINT: PRINT " Press 'E' to end, or"
620 PRINT: PRINT " space bar to play again."
630 GET kp$
639 REM       --"poke 16953,95" turns cursor back on--
640 IF kp$ = "E" OR kp$ = "e" THEN   POKE 16953, 95: END
650 s = 0: GOTO 70
900 POKE 16953, 95: END
```

SPEEDYWRITE WORKSHOP
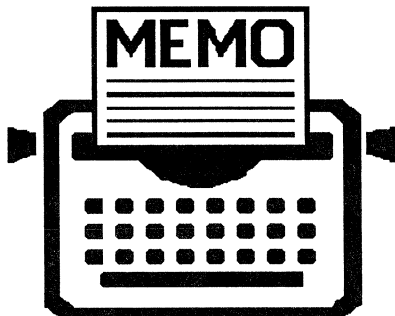
CHAPTER 9: USING SPEEDYWRITE WITH A PARALLEL PRINTER

Print   Preview   RePrint   Skip   Cont.   Select

SpeedyWrite 2 is definitely the best word processing program for the ADAM Family Computer System. One of the finest attributes of SW2 is its use of the dot matrix printer.

In its use of the dot matrix printer SW2 not only allows the standard text but also (via user fonts) prints boldface, italics, etc.

The most useful procedure the user fonts can be applied to is using the internal character sets of dot matrix printers. User fonts can also be used to switch between draft modes. Another good use of user fonts is for Super and Subscripts. To define a user font follow the procedures below.

1. ^V (Depress the control key and the "v" key together)
2. Enter the font number
3. Enter "+"
4. Enter the desired control code to turn on the font
5. Enter "-"
6. Enter the control code to turn off the font.

SW2 also allows you to send escape codes to the printer. The importance of sending these codes is that they allow you to change various type settings in the middle of your document. For example you may want to change from elite to pica fonts in the middle of your document. This can be done by sending special escape codes to your printer. Below are the procedure you would use to send these escape codes.

1. ^V
2. Enter "!"
3. Next enter the numbers to activate the desired control code.

Here is how it would look : | !27,xx. |

All Epson compatible printers (which most of the common ones are) use a code of 27 to tell the printer that the next code that will be sent is a command code to set some function of the printer. The "xx" code is whatever specific code is required to set some function. Your dot matrix printer book will have these codes defined for you. As an example, the following would tell my printer to start compressed printing: !27,15. To turn off compressed printing I would enter: !27,18. Check your printer manual if you run into any problems because some functions can't be turned on at the same time.

NOTE: Some control codes are activated when you preview your document. For example, insert the control codes for resetting your printer somewhere in the middle of your document and preview the document. You should notice that your printer was reset while previewing. Exercise caution in using the printer escape codes!

by Preston Harris

REVIEWS

SPELLINGAID By L. Marschand

The ADAM was introduced as a combination word processor and computer back in 1983 and gained much of its noteriety from the packaging of a letter quality printer with the system. SMARTWriter is an excellent word processor for the average user, but we have never had access to a spelling checker until recently – now we have two to choose from !! This is the unique thing about the staying power of the ADAM, the needs of the users are constantly being met by our software/ hardware developers.

SPELLINGAID is a sophisticated program that can use the 64K, 128K, 256K or 512K memory expander to hold multiple dictionaries. The memory expander is not required to run the program. The following shows the maximum words availabe based on the memory available:

BASE ADAM (NO MEMORY EXPANDER)	5000 WORDS
64K MEMORY EXPANDER	10000 WORDS
128K MEMORY EXPANDER	16000 WORDS
256 MEMORY EXPANDER	20000 WORDS
512K MEMORY EXPANDER	40000 WORDS

SPELLINGAID comes with 12500 words spread across 3 dictionary files. If you don't have a memory expander then only the first dictionary is loaded, two are loaded if you have a 64K expanader, etc. If you have a memory expander, SPELLINGAID offers you the convenience of more words then PROOFREADER, which means there is less liklihood that a truly correctly spelled word will be displayed because it is not in the dictionary. Note that you will have to add any words above the 12500 that are provided in the package if you have a 128K or larger expander. If you don't have a memory expander the number of words in the dictionaries of PROOFREADER and SPELLINGAID are about the same. Having more words in your dictionary is a plus, but it will take longer to check your document because ADAM has more possible words to check for each word in your document.

To illustrate, I checked the same 650 word document using SPELLINGAID with a 64K memory expander which gave me about 12000 words and PROOFREADER with its standard 5000 word dictionary. I hit the key to continue to the next word as soon as a missing word was displayed

(I didn't add or retype any words during the test) during the test of each program. The results were as follows:

	TOTAL TIME	WORDS NOT IN DICTIONARY
PROOFREADER	2 min 46 sec	128
SPELLINGAID	3 min 17 sec	88

One factor of course is that the dictionaries contained a different mix of words, but I don't think that was a major factor. SPELLINGAID took longer even though there were less words that were not in the dictionary primarily due to the time it took to check each word against the larger dictionary. Jim Walter's also stated that SPELLINGAID is a little slower due to the fact that color graphics are used on all the screens, which takes longer to display.

SPELLINGAID is a much more professionally done program, utilizing color, SMARTKeys for all program options and good error checking and correction routines which are not provided with PROOFREADER. These may or may not be important to you based on your personal preference. The functions of the two programs are essentially the same. You have the option to use the standard dictionary provided or load in another dictionary, the drive # and name of the file to be checked is entered as well as the name of the corrected file to be written out and then the program begans checking each word in the file against the dictionary. If a word is not found in the dictionary, it is displayed along with up to nine possible words beginning with the same letter(s). You can skip to the next word if the word is in fact spelled correctly (but not in the dictionary), add the word to the dictionary, select one of the words displayed or type in a replacement word.

The real value in any spelling checker is for larger documents, especially when the number of words in the dictionary is limited. The time it takes to spell check a small document is not worth the benefit in my opinion.

If you are don't have a spell checker, I would opt for the one that has more words built into the dictionary (SPELLINGAID if you have a memory expander) so that less "correct" words are not found in the dictionary, but the buyer must realize that it will take time to check the document. If you don't have a memory expander, then either program will do the job, although SPELLINGAID has

some nicer features and is a little cheaper. If you already have PROOFREADER, I don't know if there is a real good reason to buy SPELLINGAID unless you have a 256k memory expander and want the much larger dictionary.

We found a few bugs in the program that Walter's had already been working on, so a final version of the program should be ready by mid August.

RATING - A

NOTE: Walter's has also just released MISSPELLER, a 15000 word dictionary of the most commonly misspelled words. Both SPELLINGAID and SMARTWriter file versions of the dictionaries are included so you can easily modify and tailor the dictionaries included. Price will be $18.95.

WordLIST V2.0 By J. Notini

ProofREADER has been, until recently, the only spell checking program available for the Coleco ADAM computer. With this program you can check SmartWRITER, MultiWRITE and other ASCII files for spelling errors. Due to the limited ADAM memory you are only allowed to have about 7000 words in memory to compare your document to. This is a very small workspace.

With WordLIST V2.0, by ADAMZAP Software, you can now have over 16,000 words to compare your document to. With a few file changes and saves you can have your longer documents corrected in a very short time. WordLIST is not recommended for short documents because it would take longer for you to check it through ProofREADER than proofreading it with your word processor.

With WordLIST V2.0 you have four files to correct your document. These files are not alphabetically oriented, rather they are broken up by the most commonly used letters. For example: the file wordlist1 contains all words beginning with A,B,C,D,E, wordlist2 contains F,G,H,I,J,K,L,M,N,Y,Z, wordlist3 contains O,P,Q,R,U,V,W,X and wordlist4 contains S,T. Each file has a maximum size of 40K, therefor you can add your own words to wordlist 2,3, and 4 since they still have extra space remaining (wordlist1 is already filled to the

40K maximum).

At least two drives (data or disk drives) are recommended since there would be a lot of data pack/disk swapping with only one drive. Another tip that will cut down on time is to skip over words that are not included in the wordlist that you currently have loaded. For example: If you are correcting a document and you are on the file: wordlist4, just correct the words with S and T as the first letter, skip over words with other letters.

Please note that you will have to load each of the dictionaries individually and then have PROOFREADER recheck the entire document up to four times to get the advantage of using the full 16000 words in the combination of the four dictionaries - THIS WILL TAKE QUITE A WHILE to check a long document and would be overkill for a short document. See our review of SPELLINGAID above for more information on ADAM spelling checkers.

RATING - n/a

Price is $15.50 (DDP)/ $13.50 disk plus $3 s&h from:
Eric E. Danz
17 Capstan Rd
West Milford, NJ   07480-4816

AUTOBACKUP By L. Marschand

This is another in a series of ram disk utility programs from Walter's Software. The purpose of AUTOBACKUP is to provide a quick and easy way to transfer files/ programs from the ram disk to a disk/ tape or from a disk/ tape to the ram disk. Two programs are provided to accomplish this - AUTOSAVE will copy the contents of the ram disk to a disk/ tape and AUTOLOAD does the opposite. NOTE: Either SMARTDSK II OR SMARTDSK III is required to intialiaze the ram disk in order to use AUTOBACKUP. See our reviews of these two programs in the May issue. This program may also be used in conjunction with the PRBOOT program (also reviewed in the May issue) to copy a number of bootable programs to the ram disk. I would recommend this program for those who will be using many small or a few large files from their ram disk. It will be quicker to use AUTOLOAD to copy them all into the ram disk rather then using SMARTBasic, ADAMCalc or whatever program to copy them into the ram disk. AUTOLOAD can also be used to load a SMARTWriter file into the ram disk for access by the SMARTDSK I program. If you have a number of programs

in the ram disk, AUTOSAVE can be used to quickly copy them to a disk /tape. AUTOLOAD and AUTOSAVE do block copies, not file copies of the files/ programs and will write over any files on a disk/ ddp or ram disk, which is one of the reasons it is fast. Who should buy AUTOBACKUP ?   Anyone who does alot of work with multiple or large files in their ram disk, especially if they have a 256K expander. If you have PRBOOT please note that you can use it to copy bootable programs using the naming convention as specified in the PRBOOT manual. However, I would think the real use would be for working with multiple files during a work session and moving them from the ram disk to disk/data pack. It is a useful utility for the heavy user of ADAM files.

RATING - B

DOUBLE DISK FORMATTER
by J. Notini
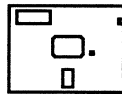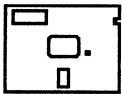
Double Disk Formatter is the newest disk formatting program brought to you by Walter's Software. This program will save you a lot of time formatting disks if you have two disk drives, but is a good program also if you only have one disk drive. Double Disk Formatter (DDF) will format disks in both drives at the same time, with options to add boots, directories, catalogs and different volume names. The single most important option to this program is it's compatibility with the three different disk drives that are available for the ADAM at the time: 5 1/4 Single-Sided (160K), 5 1/4 Double Sided (360K), and 3 1/2 Double-Sided (720K).

Many of you are probably thinking, What do I need another disk formatting program for, especially since the One-Minute Formatter is out and is in the public domain? Well, you brought up a good point. Many of the options between the two are almost identical: Format two disks at once (or just one), change volume name, add extra directory blocks for larger catalogs and formatting ability on either a single-sided or double-sided 5 1/4 inch drive. But where the One-Minute Formatter leaves off, the DDF continues on.

Some of the added features features of the DDF are: ability to format disks on the new 3 1/2 (720K) inch disk drives and also the ability to add a boot block to block

number 159 instead of block number 0. You will also have the ability to add from 1 to 127 catalogs on your disk. Each additional catalog from one adds 65 file names to a disk. A disk with three catalogs will have about 193 file spaces, but room for only 156 1K files. The additional file spaces are useful because when you delete a file it uses up a space.

The screen setup is rather dull, but in a utility program such as DDF, there really is no need for any kind of fancy graphic depictions that would only slow down the operating speed of this program. Highly recommended if you have a double-sided 5 1/4 or 3 1/2 inch disk drive.

RATING - A

SwiftPRINT Review: W. Motel

This is the newest package from Digital Express. It's 2 main functions are graphics printing and graphics file interchange.

First, the file interchange. You can load/store files from 6 of the more common formats. These are: SmartPAINT,   PowerPAINT,   PaintMASTER, GraphixPAINTER, Basic HGR, and RLE. For example, a PowerPAINT screen can be loaded and stored back out into GraphixPainter format. This can then be used with GraphixPainter. Any of the 6 formats can be loaded and stored differently. This is an excellent feature.

The second is the graphics printing. 3 options are available. The Epson is for any EPSON FX compatiable printer.
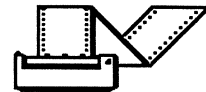
1. EPSON Black and White.
   Normal foreground only printing. All foreground colors print as black.

2. EPSON Black and White SHADING
   Both Foreground and Background colors are converted and printed as shades of grey and black, as on a B/W TV. This allows you to print color pictures as more then a black blob.

3. OKIMATE 20 COLOR.

You can print color graphics from the ADAM in color on your OKIMATE 20 printer.

Minimum requirements are to have, at least, 64K memory expander. The printer must be a Centronics compatiable parallel interface. The Okimate 20 must, of course, have a color ribbon.

Some additional features.
1. You can print one screen, or 2 screens - side by side (left and right halves). The later is the same as the design ability in PowerPAINT.

2. You can flip the picture upside down, or face left/face right. You cannot flip on it's side (print along long edge of paper).

3. Change colors on displayed picture.
   a. Global Background/Foreground
   b. Selected Background/Foreground
      One specific color changed to another.

4. Enter text from 5 typefaces and 4 sizes. This requires at least 128K expander.

Overall the idea is great, and the program has some very nice features, but in my tests I found the following:

Picture Size is limited to the small 4 by 2 inch size. This is basically the size you get from a direct screen pixel to print dot conversion. Their is no printed picture expansion or cropping. An option for larger sizes should be added.

Speed is probably the most bothersome. In doing the B/W shading, you can see the shading is accomplished by multiple passes over a print line. This results in some areas on the line being printed darker then others, thus the shading. I counted some cases of 26 print passes on the same line, before a line skip. With black and white, this isn't as critical. The flower basket picture included on the disk printed in approximately 10 minutes (4 x 2 inch size). Below is a B/W picture of a ship that will give you an idea of the shading.
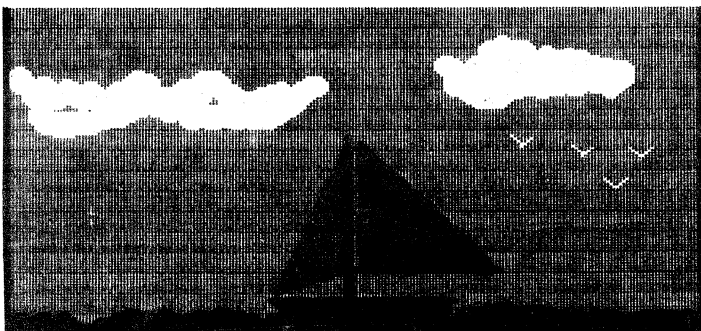
The OKIMATE color is where this is really a problem. Not only are these 26 passes per line time consuming, but you go thru a LOT OF RIBBON. The color ribbon is not reusable. In printing the flower basket, 1/2 the picture took 24 minutes, and approximately one-fourth to one-third of the ribbon. Again, I counted 26 passes per print line.

For color quality, I did a graphic using PowerPAINT, one of the other products. I simply created 13 squares across the screen, at the top. These were with the 16 x 16 pixel brush. Each square was one of the 13 available colors. When printed, it printed on two print lines. Again, multiple passes were observed per line. What seemed to be happening, was that the 1st square (16 pixels) was printed, then the next, and so on. This is what resulted in the multiple passes. The more efficient approach is the do the entire line in one or two passes. If you are not familiar with the Oki 20, the color ribbon consists of yellow, blue, and red portions of ribbon, each 8 inches long (the width of a sheet of paper). First the yellow part is layed down, and you strike all positions that require yellow, then the blue, then the red. Then you do a line skip. For colors such as green, you would strike the spot with yellow and blue (makes green).

Overall, the color quality was very good, as was the B/W shading. You will have to consider the cost of the ribbons (especially the color) and time factor for yourself.

The ADAM community has been waiting for a high resolution color printing program for some time. SWIFTPrint meets this this need, but requires some addtional work before we can recommend it.

RATING - C

From Basics to Basic By W. Motel

This is a 74 page beginners book by Mel Ostler designed to give the reader a basic understanding and introduction to the computer. Explanations range from numbering system concepts to computer functions. Chapters include:

1. All about numbers.
2. Binary number systems.
3. Hexadecimal number systems.
4. Binary to Hex conversion.
5. Hex to Binary conversion.
6. All about ascii.
7. Memory systems.

8. Microprocessor.
9. Mnemonics.
10. Assemblies and Disassemblies

The chapters on numbering systems take the reader from an understanding of number systems in general (using the decimal system) thru the other systems, also showing how to convert. Examples and mini Basic program code is used to illustrate the topics.

The chapters on the computer explain concepts of memory, RAM, ROM, addressing, parts and function of the microprocessor (such as clock, registers, memory, logic circuits, etc.), how they work and function together.

The end chapters give an introduction into machine language concepts.

Overall, the book is very well done. It is geared toward the complete novice as a preparation to their becoming 'beginner hackers'. The author has accomplished this in a down to earth, easy to read fashion. Each chapter ends with review exercises that both reinforce the material and can also be used as a refresher.
Recommended for the beginner.
Other books by this author:
Learning to Read with ADAM – a Z80 turorial
BASIC disassembled – Complete listing and explanation of Smart Basic.
EOS disassmebled – Same, but on the Adam Operating System

FROM BASICS TO BASIC may be ordered for $15 plus $3 s/h from: Mel Ostler
7641 Raasaf Blvd
Las Cruces, NM 88005

```
1000 DATA       +,*,$,/
2000 DATA       58,102,109,211,255,201,0,62,0,50,117,253,201
3000 HOME: PRINT "              "; : INVERSE: PRINT "
     ": NORMAL
3010 PRINT "            "; : INVERSE: PRINT "                    ":
NORMAL
3030 PRINT "                              "; : INVERSE: PRINT "    ":
NORMAL
3040 PRINT ">>>>>>>>> SLOT SHOT))    $"; : INVERSE: PRINT "    ":
NORMAL
3050 PRINT "                        "; : INVERSE: PRINT "    ":
NORMAL
3060 PRINT "            "; : INVERSE: PRINT "                    ":
NORMAL
3080 PRINT "            "; : INVERSE: PRINT "                    ":
NORMAL
3090 PRINT: PRINT
4000 PRINT " TO PLAY SLOT SHOT JUST PRESS "
4010 PRINT " THE SPACE BAR WHEN YOU WANT"
4020 PRINT " THE BOUNCING BALL TO FIRE "
4030 PRINT " INTO ONE OF THE SLOTS."
4040 PRINT: PRINT " TARGETS AT THE ENDS OF THE "
4050 PRINT " SLOTS CONTINUOUSLY CHANGE AND"
4060 PRINT " HAVE DIFFERENT POINT VALUES."
4080 PRINT: PRINT " PLAY ENDS WHEN SHOT HITS END"
4090 PRINT " OF SLOT DIVIDER BAR."
5000 PRINT: INPUT ">>>>>>>>>>>>>>>>> RETURN)) "; a$
5010 GOTO 10
```

OTHER SOFTWARE
Specify DDP or DISK

Item		Price	
VIDEOTUNES		$ 26.95	
FANTASY GAMER		$ 22.95	
BASIC BONANZA		$ 22.95	
SOFTPACK I		$ 18.95	
LVAC ARCHIVE I		$ 9.95	
REEDY SOFTWARE LIB		$ 15.95	
PERSONAL ACCOUNTANT	(DDP)	$ 19.95	
BUSINESS PACK		$ 18.95	
TURBOLOAD	(DDP)	$ 10.00	CLOSEOUT
QUICKCOPY		$ 15.95	
MULTIWRITE	(DDP)	$ 36.95	
ELECTRIC GAME PACK	(DISK)	$ 17.95	
Specify I or II	(DDP)	$ 19.95	
NUMBER BUMPER		$ 15.95	
REEDY	(DISK)	$ 15.95	
ENTERTAINMENT PACK	(DDP)	$ 17.95	
JEOPARDY QUESTION PACK	(DISK)	$ 14.95	SPECIAL
FAMILY FEUD QUESTION PACK	(DISK)	$ 14.95	SPECIAL
TRIVIA PACK I	(DISK)	$ 12.95	
	(DDP)	$ 14.95	
KIDS TRIVIA	(DISK)	$ 12.95	
	(DDP)	$ 14.95	
PRO FOOTBALL		$ 18.95	
BACKUP 3.0 (COPY ONLY)		$ 16.95	DISK ONLY
BACKUP +3.0 (COPY/UTILITY)		$ 24.95	SPECIAL
SMARTGAMES PACK	(DISK)	$ 9.95	
	(DDP)	$ 11.95	
ROYAL AMBS. EDUC PCK	(DISK)	$ 9.95	
(Christian pgms)	(DDP)	$ 11.95	
CPM NEVADA BASIC		$ 39.95	
SP-1 CUSTOM SOFTWARE for		$ 7.00	
Smartwriter/Filer (Specify printer)			
ADDRESS BOOK/CALENDAR	(DDP)	$ 15.95	
JEOPARDY QUESTION MAKER			
FAMILY FEUD QUEST MAKER			
Each of Quest Makers	(DISK)	$ 24.95	
	(DDP)	$ 26.95	
JANES'S RECIPES 25 rec/vol		$ 7.00	
(Specify DISK or DDP and VOLUME			
V1 Deserts, V3 Outdoor, V4 Holiday)			
MICROWORKS	(DDP)	$ 29.95	
Filer, Calc, Graph, Text			
EASY COME, EASY GO		$ 19.95	
WIZARD'S PINBALL ARCADE		$ 19.95	
ADAMTALK		$ 19.95	
Interpretor for EVE Speech Synthesizer			
SOLAR SYSTEM Quiz	(DDP)	$ 9.95	
AMERICA AT WAR Quiz	(DDP)	$ 9.95	
WORLD GEO Quiz	(DDP)	$ 9.95	
PERSONAL CHECKBOOK	(DDP)	$ 9.95	
HOME FILE MANAGER	(DDP)	$ 9.95	
HOME BUDGET	(DDP)	$ 9.95	
BASIC SYSTEM MGR/FASTRUN		$ 18.95	
LAB MOUSE		$ 12.95	
STATES and CAPITOLS	(DDP)	$ 9.95	
WORLD CAPITOLS	(DDP)	$ 9.95	
GREAT INVENTIONS	(DDP)	$ 9.95	
BASICAIDE		$ 9.95	NEW
SMART TYPE 2.0		$ 17.95	NEW
PROOF READER	(DDP)	$ 34.95	NEW
LIBRARIAN		$ 19.95	NEW
NIAD GOLD SERIES			
GAMES 1		$ 9.95	NEW
TEXT ADVENTURE		$ 9.95	NEW
HOME/BUSINESS		$ 9.95	NEW
SCIENCE/EDUCATION		$ 9.95	NEW
MICROTALK		$ 19.95	NEW
(Requires speech synthesizer)			
STAGE FRIGHT		$ 19.95	NEW
ADAMCALC Dot Matrix PATCH		$ 9.95	NEW
ADAMLINK Dot Matrix PATCH		$ 9.95	NEW
BEYOND TREK		$ 18.95	NEW
AUTO WRITER		$ 14.95	NEW
NEWSMAKER		$ 28.95	NEW
FILE MANAGER		$ 17.95	NEW

OTHER SOFTWARE
CONTINUED

Item		Price	
CHESS CHAMPION (64k req)		$ 15.95	NEW
ADAMLINK III		$ 18.95	NEW
MEGASYSTEM XR		$ 35.95	NEW
SPEEDYWRITE V1.0		$ 29.95	NEW
SPEEDYWRITE V2.0		$ 39.95	NEW
PRO GOLF CHAMP		$ 14.95	NEW
MR. T SEARCH		$ 12.95	NEW
MR. T SEARCH GAME PAK 1		$ 9.95	NEW
SMARTDSK I (For Smartwriter)		$ 18.95	NEW
SMARTDSK II		$ 16.95	NEW
(For Basic 1.0/2.0, Adamcalc, Flash Maker)			
SMARTDSK III		$ 24.95	NEW
(For Basic 1.0/2.0 with Compl Utility)			
PHRASE CRAZE	(DISK)	$ 17.95	NEW
	(DDP)	$ 19.95	NEW
PHRASE PAK1	(DISK)	$ 7.95	NEW
	(DDP)	$ 9.95	NEW
GRANDMA'S RECIPES	(DISK)	$ 7.95	NEW
	(DDP)	$ 9.95	NEW
PR BOOT		$ 17.95	NEW
TRIVIA SEARCH		$ 7.95	NEW
(Requires Mr. T Search)			
SPELLING AID		$ 26.95	NEW
MISSPELLER		$ 18.95	NEW
DBL DISK FORMATTER		$ 8.95	NEW

COLECO SOFTWARE
(DDP unless noted)

Item	No.	Price	
SMART LOGO	7600	$ 29.95	SPECIAL
EXPERTYPE	7602	$ 19.95	SPECIAL
SMART FILER	7813	$ 15.95	
RECIPE FILER	7658	$ 10.95	SPECIAL
SMART LTRS/FORMS	7805	$ 15.95	
FLASHCARD MAKER	7662	$ 15.95	
FLASHFACTS (TRIVIA 2902, HISTORY 2901, VOCAB 2900)		$ 11.95	EACH
CP/M 2.2	7832	$ 29.95	
ADAMCALC	7831	$ 24.95	
R. SCARRY WORDBOOK	7658	$ 20.95	
WACKY WORD GAME	7834	$ 15.95	
DONKEY KONG		$ 19.95	
DONKEY KONG JR.		$ 19.95	
SUPER ZAAXON	2632	$ 12.95	SPECIAL
2010: TEXT ADVENTURE	7849	$ 20.95	
BEST OF BRODERBUND		$ 20.95	
ADDR. BOOK FILER/AUTO DIAL.		$ 19.95	NEW

(Specify DDP or DISK)

ACTIVISION SOFTWARE
Item	Price	
ALCAZAR	$ 27.95	NEW
ROCK n' BOLT	$ 27.95	NEW
BOULDER DASH	$ 22.95	NEW
RIVER RAID	$ 22.95	NEW
KEYSTONE KAPERS	$ 22.95	NEW
PITFALL II	$ 22.95	NEW
DECATHLON	$ 19.95	NEW

IMAGIC SOFTWARE
Item	Price	
TENNIS	$ 27.95	NEW
MOONSWEEPER	$ 19.95	NEW

INTERPHASE SOFTWARE
Item	Price	
SEWER SAM	$ 22.95	NEW
AQUA ATTACK	$ 22.95	NEW
BLOCKADE RUNNER	$ 19.95	NEW
SQUISH'M SAM	$ 19.95	NEW

NEW PUBLIC DOMAIN ($6.00 DDP, $4.00 DISK)
CABBAGE PATCH ADV. IN PARK 128K version
FALL GUY   and   VIDEO HUSTLER
YOKES ON YOU   and   MATH WIZ

NIAD USER GROUP PRODUCTS
PUBLIC DOMAIN
PLEASE Specify VOLUME # and DISK/DDP
NOTE: COST per VOLUME:
        $ 4.00 DISK - $ 6.00 DDP

- SMARTBASIC # 1 - 26   (26 Different)
  - # BNDV1 - 26 (vol numbers)
- SMARTLOGO # #1 - 3   (3 Volumes)
  - # LNDV1 - 3
- ADAMCALC   # #1 - 2   (2 Volumes)
  - # ANDV1 - 2
- BASIC UTILITIES # 1 - 2 (2 Volumes)
  - # UNDV1 - 2
  - (Vol1 includes backup utility)
- CPM2.2   # #1 - 50   (50 Volumes)
  - # CNDV1 - 50
- JEOPARDY
- PINBALL/HARDHAT MACK
  - New bug free vers with 2 DEMO games
  - Add1s 2.00 for 40 page manual
- PINBALL GAMES (Volumes 1 and 2)
  - Requires Pinball/Hardhat Mack
- SUPER SUBROC
- TROLLS TALE
- ADAM DIAGNOSTIC
  - Requires 64k expander
- ADAMLINK II TELECOMMUNICATIONS
- SMARTBASIC REPLACEMENT DDP
- SMARTBASIC V2.0 with Doc. file
- NIAD BACK ISSUE INDEX - Smartfiler file
- EOS DISK MANAGER - (Replacement on Disk or DDP) $ 7.00
- CUSTOM PRINTER SOFTWARE $ 7.00
- VIDEOTUNE SONGS Volumes 1 and 2
- 1 MINUTE FORMATTER   (Disk)
- UKAS MINI REVIEWS

GRAPHICS PRODUCTS

DOT MATRIX PRINTER REQ'D FOR OUTPUT
Item	Price	
GRAPHIXPAINTER	$ 19.95	
GRAPHIXPIX I	$ 14.95	
POWERPAINT	$ 34.95	
CLIPPER	$ 14.95	
CLIP ART VOL 1 & 2	$ 12.95 @	NEW
PAINTAIDE	$ 18.95	NEW
POWERPRINTS I	$ 12.95	NEW
BASIC SPRITE GRAPHICS PGMS		
SPRITEMASTER	$ 18.95	
SPRITE POWER	$ 16.95	
ADAM PRINTER USED		
SIGNSHOP	$ 22.95	
NEWSMAKER	$ 26.95	
SIGNS (VOL 1 & 2)	DISK $7.95 DDP $9.95	
SNAPSHOTS VOL I	$ 10.95	
PD SIGNS (VOL 1 & 2)	DISK $5.00 DDP $7.00	
MONITOR/ TV ONLY		
PAINTMASTER	$ 22.95	
PAINTINGS (VOL 1,2,3)	DISK $ 7.95 DDP $ 9.95	
MISC PD GRAPHICS	DISK $ 5.00 DDP $ 7.00	

(CAN BE VIEWED ONLY OR PRINTED VIA DOT MATRIX PRINTER)

- RLE PICS (VOL 1,2,3)
- REEDY ART GALLERY (VOL 1,2)
- PAINTMATES (VOL 1,3)
- PAINTFORMS (VOL 1,2)
- N & B PIX (VOL 1-18)

SUPPLIES

RIBBONS
Item		Price	
ADAM REPLACEMENT		$ 4.95	EACH
PANASONIC 1080/1090I		$ 5.95	EACH
OKIMATE 20 RIBBONS	Black	$ 4.95	EACH
	Color	$ 5.95	EACH

COVERS
Item	Price
3 PIECE for COMPLETE ADAM	$ 18.95
DISK DRIVE ONLY	$ 8.95
3 PIECE for EXPANSION ADAM	$ 23.95

PRINTER WHEELS $ 5.55
Specify FONT STYLE for the ADAM printer
Gothic 12 Script 12, Elite 12, Emphasis,
Courier 72, Pica

Item	Price
TAPE DRIVE HEAD CLEANING KIT	$ .50
DISK DRIVE HEAD CLEANING KIT	$ 19.95
Contains 2 cleaning diskettes/fluid

DISK/DIGITAL DATA PACKS
Item		Price	
COLECO/LORAN DDP		$ 4.75	EACH
	10 for	$ 39.95	
NIAD/LORAN DDP		$ 4.25	EACH
	10 for	$ 34.95	
NIAD (Non LORAN) DDP	10 for	$ 19.00	
BOX of 10 LORAN DS/DD Diskettes		$ 9.95	SPECIAL
5 Boxes 50 Diskettes		$ 34.95	SPECIAL

PINFEED PAPER/LABELS
Item	Price
9 1/2 x 11 20# MICROPERF PAPER	$ 9.95 /500
	$ 16.95 /1000
9 1/2 x 11 OKI 20 THERMAL PAPER	$ 9.95 /250
3 1/2 x 15/16 PIN FEED ADDR LABEL	$ 6.95 /1000

CARTRIDGE SOFTWARE
Colecovision/Adam

Item	No.	Price
SMURF PAINT/PLAY	2697	$ 18.95
SUESS FIXUP PUZZLE	2699	$ 18.95
T.TURTLE LOGO/GRPHICS	2698	$ 29.95
DAMBUSTER		$ 18.95
WW II Bomber/Dogfight		
TAPPER		$ 29.95
TARZAN		$ 22.95
BEAMRIDER		$ 22.95
HERO		$ 22.95
WARGAMES		$ 18.95
CABBAGE PATCH PATCH PICTURE SHOW		$ 18.95
HEIST		$ 18.95
LEARNING with LEEPER		$ 9.95
NOVA BLAST		$ 18.95
GORF		$ 18.95
CENTIPEDE		$ 12.95
DEFENDER		$ 12.95

CP/M 2.2 COMML SOFTWARE
INFOCOM PRODUCTS
Requires ADAM CP/M software
DISK only

Item	Price	
PLANETFALL	$ 34.95	
ZORK I	$ 19.95	SPECIAL
ZORK III	$ 39.95	
STARCROSS	$ 39.95	
DEADLINE	$ 19.95	
HITCHHIKERS GUIDE	$ 19.95	SPECIAL
SUPERCALC	$ 49.95	

HARDWARE & ACCESSORIES
NOTE: SEE SPECIALS ON NEXT PAGE AS WELL

ADAM DOUBLE SIDED (320K DISK DRIVE) $275.00
Super high capacity double sided 5 1/4 inch drive.
This is a modified Coleco made drive with a new double sided
drive unit installed. Provides 320K of storage
on a floppy diskette.
Provides expanded capability for faster storage and
retrieval and increased reliability. Requires standard
diskettes.

DOUBLE SIDED DISK DRIVE UPGRADE $125.00
Send in your Coleco disk drive to be upgraded
to a double sided, 320K drive. Includes all
software for operating all Coleco programs.

3 1/2 INCH 720K DRIVE UPGRADE $155.00
**   ** AFTER 9/1 ** $175.00**
Send in your Coleco disk drive to be upgraded
to a 3 1/2 inch 720K drive. Includes all
software for operating all Coleco programs.

ADAM LINK MODEM 7818 $ 49.95
ADAM phone modem which provides capability, with included
software, to interface with other ADAM computers or large
bulletin board systems such as Compuserve.
NOTE: Order ADAMLink II software from Public Domain list
which will allow upload/ download of programs.

COMPUSERVE STARTER KIT $ 29.95
Includes account number, password and five free hours of
connect time to the popular compuserve information system.

DIGITAL DATA DRIVE # 2409 $ 29.95
NEW (but not boxed) digital data drive which can be used
as a replacement or as a second drive.

64K MEMORY EXPANDER ME-64 $ 49.95
Provides additional 64K of memory for SmartWriter, CPM
programs. Provides print buffer spooling for ADAMCalc.

256K MEMORY EXPANDER $149.95
Provides 256K ram disk under CP/M 2.2 **PRICE DEPENDS
Require addressmeer car (add'l $17) if ON CHIP COST**
you don't have PIA2 interface. Must
send in PIA2 for modification if you
have it.

EVE RS232/PARALLEL INTERFACE SP-1 $139.95
Allows the connection of the ADAM to any popular printer and
other devices requiring either serial or parallel interface
connections. Includes software for directing print to
additional printers directly from SmartWriter, SmartFiler,
basic, CPM programs.

EVE SP-1 PARALLEL INTERFACE ONLY $ 79.95
PARALLEL PRINTER INTERFACE $ 39.95
(Parallel cable required - see next item)

PARALLEL OR SERIAL CABLE SP-1C $ 15.95
Cable required to attach SP-1 or PIA2 interface
to other printers.

SHIELDED PARALLEL CABLE $ 24.95
Parallel cable containing extra shielding to prevent
interference with TV sets.

EVE MULTI-UNIT ADAPTER MA-3 $ 44.95
Special adapter cable required to attach both the SP-1 and
SS-CC to the ADAM. NOTE: Not required for 80-column video
board.

ADAM PRINTER TRACTOR FEED $ 72.95
Hooks unto the ADAM printer as originally designed to
provide for feeding of pin-fed continuous form paper.
Provides consistent alignment and advancing of paper. All
metal design - guaranteed.

PRINTER ON/OFF SWITCH $ 12.95
Relocates the on/off switch to the front of the printer for
easier access when loading paper.

MONITOR CABLE 7830 $ 9.95
Required to hook complete ADAM console to a video monitor.
Supports both picture and sound signals.
skill - see review in 2/85 issue.

* SPECIFY DDP OR DISK FOR SOFTWARE PROVIDED

SPECIALS/ NEW PRODUCTS

64K MEMORY EXPANDER & SMARTDISK I $ 59.95
Provides full ability to use 64K expander from Smart-
Basic as a ram disk. Specify whether you want the
Basic Ramdisk program for Basic V1.0 or 2.0

POWER SUPPLY FOR COLECO DISK DRIVE $ 19.95
POWER SUPPLY FOR COLECOVISION $ 9.95

MAGNAVOX CM8505 COLOR MONITOR $249.95
Use with the ADAM for better color. Also
compatible with all other computers as well.
Gives 40 column color in RGB mode.
Requires ADAM Monitor cable above.

MAGNAVOX TV TUNER FOR MONITORS $ 79.95
Turn monitors into standard TV's

MAGNAVOX 8CM8515 COLOR MONITOR $369.95
Same as CM8505 above, but will display 80
columns on RGB computers (not the ADAM).

3 OUTLET SURGE PROTECTOR $ 14.95
Protect your hardware from power surges.

COMBO MONITOR TILT/SWIVEL STAND & $ 69.95
5 OUTLET SURGE PROTECTOR W/ MASTER SWITCH
Integrated small unit organizes your computer
wires and gives surge protection. Turn on
all components with one switch or individually.

NIAD PRODUCT REVIEW BOOK $ 19.95
Contains detail reviews of 100 ADAM products,
organized alphabetically for quick reference.

SMARTBASIC PUBLIC DOMAIN DESCRIPTIONS $5.00
Provides written description of over 600
programs in all the PD volumes. Useful in
picking Public Domain volume to order.

ORPHANWARE PIA2 PARALLEL INTERFACE $ 289.95
& PANASONIC 10801 PRINTER W/CABLE $ NEW LOW PRICE
Everything you need to hook it up
ORPHANWARE PIA2 PARALLEL INTERFACE $ 249.95
& OKI 20 PRINTER-ADAM PLUG/PRINT
Everything you need to hook it up
OKI 20 PRINTER-ADAM PLUG/PRINT $ 199.95
No interfaces or cables
SUPER GAME CONVERSION to DISK $ 4.00 EACH
NOTE: You must send the disk & card from game as
proof of purch. Family Feud, Best of Broderbund
can be copied directly by most copy programs
SMARTFILER COPY WITH LATEST VERS. $ 4.00
Includes Label Print Fix
Send in your file disk/ddp
BACK ISSUES OF NIAD from 1/85 $ 3.00 EACH
              10 or more $ 2.50 EACH
RIGHT DIR TAPES for SUPERGAME COPY $ 2.50 EACH
UPDATES or FIXES to PD tapes $ 3.00 EACH

PRINTERS

PANASONIC 10801-2 $219.95
- TYPE: 9x9 DOT MATRIX
- SPEED: DRAFT MODE - 144 CPS / NEAR LTR QUALITY - 28 CPS
- PRINT CHR: COMPATIBLE W/ EPSON RX80, IBM, FULL GRAPHICS
- MEDIA HNDL: ADJ TRACTOR FEED
- INTERFACE: CENTRONICS PARALLEL,
- FEATURES: 2 YEAR LIMITED WARRANTY

PANASONIC 10911-2 $269.95
- TYPE: 9x9 DOT MATRIX
- SPEED: DRAFT MODE - 192 CPS / NEAR LTR QUALITY - 38 CPS
- PRINT CHR: COMPATIBLE W/ EPSON RX80, IBM, FULL GRAPHICS
- MEDIA HNDL: ADJ TRACTOR FEED
- INTERFACE: CENTRONICS PARALLEL
- FEATURES: 2 YEAR LIMITED WARRANTY

OKIMATE 20 COLOR PRINTER $199.95
- TYPE: 24 PIN THERMAL
- SPEED: DRAFT MODE - 80 CPS / NEAR LTR QUALITY - 40CPS
- MEDIA HNDL: LIMITED ADJ TRACTOR FEED
- INTERFACE: NONE STD - PARALLEL PLUG N PRINT MODULE SUPPLIED THAT ATTACHES TO EVE OR ORPHANWARE PARALLEL INTERFACE
- FEATURES: BLACK & WHITE OR COLOR PRINTING 8K BUFFER; SPECIAL PAPER REQ'D

PANASONIC RIBBONS - $9.95
OKIMATE 20 RIBBONS- $4.95 BLACK
                    - $5.95 COLOR

TRAINING MANUALS/ BOOKS

NIAD PRODUCT REVIEW BOOK	$ 19.95
LEARNING EXPRESS AUDIO TRAINER	$ 19.95
CP/M USER'S GUIDE BY T. HOGAN	$ 15.95
WORD PROCESSING WITH YOUR ADAM	$ 8.95
FIRST BOOK OF ADAM, THE COMPUTER TAB BOOKS	$ 8.95
BASIC BASIC PROGRAMS FOR THE ADAM BY KNIGHT, TIMOTHY ORR	$ 8.25
DISCOVERING SCIENCE ON YOUR ADAM, WITH 25 PROGRAMS BY TAL MOUNTAIN SCIENCE CENTER	$ 9.95
THE COLECO ADAM ENTERTAINER BY BRIAN SAWYER	$ 12.95
HACKER'S GUIDE TO ADAM VOL I	$ 11.95
HACKER'S GUIDE TO ADAM VOL II	$ 11.95
PROGRAMS FOR BOTH VOL I & II OF HACKER'S GUIDE ON 1 TAPE OR DISK	$ 3.00 DISK / $ 5.00 DDP
2ND EDITION ADAM RESOURCE DIRECTORY	$ 13.95
USING & PROGRAMMING ADAM BY KNIGHT	$ 7.95

SEGA GAME SYSTEM
NOT COMPATIBLE WITH ADAM

MASTER GAME SYSTEM $109.95
. 2 HAND CONTROLLERS
. LIGHT PHASER GUN
. COMBO MEGA CARTRIDGE
  - HANG ON GAME
  - SAFARI HUNT GAME

SEGA SPORTS PAD CONTROLLER $49.95
SEGA CONTROL STICK $14.95 NEW
SEGA 3D GLASSES $49.95 NEW

SEGA CARD SOFTWARE (256K) $24.95
. F-16 FIGHTING FALCON
. MY HERO
. TEDDY BOY
. TRANSBOT
. SUPER TENNIS (sports pad not req'd)

SEGA MEGA CARTRIDGES (1048K) $29.95

. CHOPLIFTER	. FOOTBALL NEW
. ACTION FIGHTER	. VOLLEYBALL NEW
. BLACK BELT	. ALEX IN MIRACLE WRLD NEW
. FANTASY ZONE	. GHOSTBUSTERS
. WORLD GP	. SOCCER
. PRO WRESTLING	. ZILLION
. MARKSMAN/ TRAP	. GOLF
. GREAT HOCKEY(SP)	. WONDERBOY
. RAMBO	. BASKETBALL *NEW*
. BASEBALL(NO SP)	. GANGSTER TOWN
. QUARTET	
. SHOOTING GALLERY	(FOR USE WITH GUN)
. RESCUE MISSION	(FOR USE WITH GUN) NEW *
. MISSLE DEFENSE 3D	(REQ'S GLS) $ 34.95 *
. ZAXXON 3D	(REQ'S GLS) $ 34.95 *
. MAZE HUNTER 3D	(REQ'S GLS) $ 34.95 *
. PARLOUR GAMES	$ 32.95 NEW*

SPACE HARRIER (TWO MEGA) >>>>> $ 34.95
ROCKY BOXING (TWO MEGA) >>>>> $ 34.95
OUTRUN   (TWO MEGA) >>>>> $ 34.95
FANTASY ZONE 2 (TWO MEGA) >>>>> $ 34.95
AFTERBURNER (FOUR MEGA) >>>>> $ 44.95 NEW*
EPYX JOYSTICK W/ AUTOFIRE $ 19.95 NEW*

NIAD
Northern Illiana ADAM User's Group

PO Box 1317, Lisle, Il. 60532
Phone: (312) 961-3529

MULTI-FUNCTION USER GROUP
MONTHLY NEWSLETTER-PUBLIC DOMAIN LIBRARY
DISCOUNT BUYING SERVICE FOR HDW & SFTW

BUYING SERVICE ORDER FORM

YOUR MEMBER # ----> _____

NAME	SHIPPING ADDRESS (IF DIFFERENT)
ADDRESS	NAME
	ADDRESS
PHONE ( )- -	

QTY.	ITEM NAME / NUMBER	DDP/DISK	PRICE EA.	TOTAL PRICE

SUB TOTAL _____

SALES TAX
ILLINOIS- 6.75% ON ALL ITEMS EXCEPT TAPE/DISK SOFTWARE
WISCONSIN, INDIANA, OHIO - 5% ON ALL ITEMS
MINNESOTA - 6% ON ALL ITEMS
MICHIGAN - 4% ON ALL ITEMS

---> $ _____

ALL MEMBERS PLEASE DO NOT FORGET SHIPPING/INSURANCE

	[]US UPS	[]US MAIL	[]CANADA	
$ 1.00- 50.00 -	$ 2.50	$ 4.00	$ 6.00	
$ 50.01-100.00 -	$ 4.50	$ 7.00	$10.00	---> $ _____
$100.01-200.00 -	$ 7.50	$10.00	$16.00	
$200.01-and up -	$10.50	$15.00	$22.00	

INITIAL ANNUAL MEMBERSHIP FEE REQ'D FOR BUYING SERVICE ---> $ _____

Payment Method:
[] Check or money order enclosed   Charge my: [] VISA [] ⬤

$25 minimum charge

Write Credit Card Account Number in boxes below:

| | | | | | | | | | | | | | | | |

Expiration Date

Signature

MEMBERSHIP RENEWAL ---> $ _____

BAL. OR CREDIT DUE ---> $ _____

TOTAL INCLUDED ---> $ _____

US FUNDS ONLY