

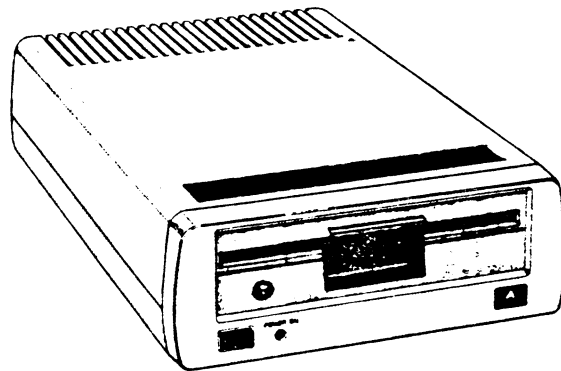
ADAM'S ALIVE

AN INDEPENDENT MONTHLY
ADAM NEWSLETTER

JANUARY 1988

\$3.50

CONGRADULATIONS TO
GLEN CRANE



COLECO

FOR BECOMING THE WINNER OF A NEW
ADAM DISK DRIVE.

PUBLISHED BY E. & T. SOFTWARE

INDEX

THE EDITORS DESK	3
ADAM NEWS	4
NEW PRODUCTS	6
ADAM SERVICE CENTERS	7
NEW MEMBERS	7
MEMBERS LETTERS	7
MICROWORKS PRINTER PATCH	10
NEWSMAKER PRINTER PATCH	12
BEGINNING SMARTBASIC	15
ADVANCED PROGRAMMING	17

REVIEWS

SOFTPACK /BUSINESS PACK	10
TURBODISK	11
NEWSMAKER	13
DEFENDER & CENTIPEDE	14
AUTOWRITER	14

ADAM'S ALIVE is published monthly by E. & T. SOFTWARE. Subscription rates are \$20.00 per year (12 issues) in the USA and it's possessions, and \$22.00 per year in CANADA, and \$28.00 in all other foreign countries. A six month subscription is \$11.00 in the USA and it's possessions, \$12.00 in CANADA, and \$15.00 in all other foreign countries. All payments MUST be made in U.S. funds, payable to E. & T. SOFTWARE. Send payment to: E. & T. SOFTWARE 1010 WESTMINSTER, GARLAND, TX 75040. For assistance or ordering information, call (214) 414-8156.

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ASSISTANT EDITOR: Trisha Jenkins

NOTE: If you have some information about the ADAM that you would like to pass on to other members, please write. We will welcome your contributions to ADAM'S ALIVE, any information such as: articals, programs, reviews, comments, hints, complaints, etc. With your help, we can help other ADAM owners to get full use from their computer.

Please, unless you are the author, do not send any listings of copyrighted software. Except for programs with a signed release, all program listings printed in each issue must be public domain.

PROGRAMMERS/HACKERS: If you have a program or utility that you think is good enough to have published, please send us a review copy. We will market all software that we feel is good enough for publication.

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FROM THE EDITOR'S DESK:

We realize that this issue is very late. Due to the tremendous amount of Christmas sales, and the fact the the flu bug paid a visit to our house, we got very behind in working on this issue. We will try very hard to catch up on our work as fast as possible, and try and get each issue in the mail to you, by no later than the 14th of each month.

By the time you receive this new issue, 1988 will have come, so we at E. & T. SOFTWARE wish you and your family a very happy new year.

What does the future hold for our orphaned ADAM? Some doom sayers say that this past Christmas was ADAM'S last. I disagree with that assesment. From all the information I have been receiving, ADAM is still 'ALIVE AND WELL', and prospects for 1988 look very good indeed.

There is one major problem that I see as a danger to ADAM'S survival, and that is piracy. Software piracy is a major problem with all other brands of computers, but with an orphan, this is a very serious threat.

Software piracy has been with the computer industry since the very beginning. When home computers were first introduced, there were no laws protecting the rights of programmers. This was the case, until 1980, when Congress passed a law protecting computer software in section 117 of the Copyright act. This law does not take away your rights to make backup copies of software, as long as the copies are for YOUR USE ONLY. This law does protect the programmer from those who would make illegal copies to sell, or give to their friends. Many ADAM owners do not realize that the act of giving away a copy of copyrighted software to a friend is piracy, even if no money was exchanged.

This problem is such a serious threat to the survival of the ADAM, that I feel the word MUST get out to the many thousands of ADAM owners. Unless software piracy is curtailed, ADAM will die, and die quickly.

Many people in the ADAM community think that there are very large software companies producing ADAM programs. To a large extent, this is simply not the case however. Most companies that support the ADAM are run out of someones home, they do not have hundreds of employeews. but rather usually work on the programs themselves. For these companies, software/hardware sales are their very survival. Unlike some large corporations, ADAM publishers are operating on small margins out of cramped quarters, not fancy corporate offices.

Since the survival of the ADAM depends on the survival of the many small publishers of software, we should NEVER distribute copyrighted software, without the permission from the copyright holder.

Many many ADAM owners simply don't realize that they harm themselves, when they give a friend a copy of their favorite copyrighted program, by denying the publisher the opportunity to realize a profit. Since most programmers sell their products to make a profit, not doing so could cause them to stop investing their time and money in the ADAM.

I realize that this is not a very uplifting subject to discuss, but the future of the ADAM is at stake. If you know of someone who has been giving copies of copyrighted software to his/her friends, please make a copy of this issue and give it to that person.

I don't want you to get the wrong impression that this is just a problem with the ADAM. This problem has become very serious for many other computers as well. Some very large software companies have gone out of business due to software piracy.

What can you do? If you are asked to pirate a program, resist the temptation

and, to borrow a phrase, "Just say no." We all know how difficult it is to tell a friend that he can't have a copy of our favorite program, but if the program is so good, let him come over to your house and see it, so he can decide for himself if it's worth purchasing a copy. After all, why should he get a free copy when you had to pay for it?

Another thing you can do is, if you see a program on an ADAM bulletin board that you know is copyrighted, tell someone to have it taken off. Remember, the survival of ADAM is at stake.

ADAM NEWS:

Walters Software has just informed us that they are working on a NEW program that will allow the use of the memory expander cards as a high speed Ram Disk with SmartWRITER. We will have more on this exciting new product next issue.

Walters Software is also offering an upgrade to their RAMDSK and RAMDSK-2 programs. Send them your original with \$7.50 for the new update (Revision 7). This latest version will work with ANY size memory expander (up to 1 meg.).

Due to some problems installing the 512K memory expanders, Orphanware has decided to drop production of the memory expanders larger than 256K. They may however work with some ADAM owners who want a large expander. If you want a large memory expander, give big John a call at: (216) 882-4720.

Orphanware has their BBS up and running. Hours are 9pm - 8am Monday - Friday, and 7pm - 8am Sunday - Monday. Use 8 data bits, one stop bit, no parity (XMODEM protocol only).

Due to the recent increase in memory chip prices, Orphanware has increased the cost of their memory boards. Because of our increased costs, 64K memory boards are now \$39.95 to all members.

We wish to congratulate the Terry Fowler family for their new baby boy. Terry and his wife decided to name their new son (you guessed it) "ADAM". Nothing could be a greater gift than the gift of life. What a wonderful gift for the holiday season.

Terry is the founder of the Greater Houston Area ADAM Users Group (GHAAUG). Each month, Terry puts out an excellent newsletter. For those of you in Houston that are not yet members of a local ADAM group, write to: GHAAUG, Rt 2, Box 2756, Pearland Tx 77581.

For those of you in Florida, the Metro Orlando ADAM Users Group has a fine monthly newsletter. Our hat's off to the editor Patricia Herrington for a job well done. For info on the group, write: Patricia Herrington, 1003 Oak Lane, Apopka Fl 32703.

We have added several cartridge games to our product list. Two of these games: Defender and Centipeed are on sale to members for only \$10.95 each. We have a complete review of these great games in this issue.

We are sorry for the pricing on the other cartridge games, but we have no control over the price charged us by TeleGames U.S.A. We realize that these prices are a little high, but when you have only one source for them, you have very little choice in the matter. TeleGames has told us however, that because of the high royalties they must pay, this is the best price they can offer.

Wizards Lair Software has just released their new package called SnapSHOTS Volume I. This volume (as well as all future volumes) contains 35 pictures stored in NewsMAKER format, as well as the

ADAM NEWS CONTINUED.

same pictures stored in SignSHOP format. Available in Data Pack and Disk, each volume is only \$10.95.

Digital Express is working on a completely new ADAM OPERATING SYSTEM. See our interview with Dr. Swift in next months issue

We now have all the equipment to start our own BBS for ADAM'S ALIVE members. If you would be interested in using the system, please let us know.

Many ADAM owners also have either the Nintendo or Sega game systems. If you would like to see reviews on these new systems, please let us know.

If you like ADAM'S ALIVE, tell a fellow ADAM owner about us. If that person joins for 1 year, and gives us your membership ID# as a reference, we will extend your membership by 2 issues.

ANNOUNCEMENTS:

Congradulations to Glen Crane for winning our drawing for a new ADAM DISK DRIVE.

On March 1, 1988 we will be holding a drawing for a free \$75.00 ADAM software shopping spree. Since all ADAM'S ALIVE members will be eligible, tell all your ADAMITE friends to join our group.

For you members in the Dallas/Fort Worth area, we will be holding monthly meetings the second saturday of each month. The meetings will begin in Febuary. For more information, give us a call.

Due to a computer error, four members addresses were mixed together. This error has since been corrected. If you did not recieve the last issue, please let us know. We are very sorry for this foul up.

We have added the Coleco program Dragon's Lair to our product list. This exciting video game is available on DP or Disk to all members for only \$10.00. We will have a complete review next month.

We will be recieving a Disk version of ProofREADER shortly. This version was created by an ADAM group down in Australia. If you already have ProofREADER, and would like a Disk version, send us your ORIGINAL Data Pack and \$4.00. this will help cover our copying and shipping costs. If you are planning to order ProofREADER, and would like a copy on Disk, send \$3.00 to help cover our copying cost.

Our Christmas sale of our Sony Data Packs is now over. The regular member price is 10 for \$18.00. We have now extended our warranty on our Sony DDP's to a full year. Except for user damage, if during the couse of the warranty period a Sony DP should prove to be defective, return it to us for a replacement.

For those of you who wish a lower cost Data Pack, we are now offering E. & T. AB black shell DDP's. These are available to members at 10 for only \$14.00, and are guaranteed for a full six months.

Due to quality problems with our White Shell DDP's, we have decided to discontinue them.

Mr. T. Software has just released AUTOWRITER. This is a very good programming aid. See our review elsewhere in this issue.

Some members have expressed the desire to renew their membership early, and asked us if that was ok. By all means, you can renew at any time.

After much thought, we have now reduced our subscription rates for those of you in Canada. The new rates are: One year \$22.00, and six months \$12.00. For you Canadian members, we have added one extra issue for those with a six month

membership, and two extra issues for those with a one year membership.

Memberships for all foreign countries, other than CANADA, are now as follows: One year \$28.00, and six months \$15.00.

We wish to thank all of you who gave us favorable comments in your recent letters. We will continue striving to give you a quality newaletter each and every month.

Some members have expressed their desire for more advanced articles, so in this issue we have a discussion on sequential files, in future issues we will study the use of random access files using SmartBASIC 2.0.

If you are an advanced ADAM programmer, we need you to send us articles discussing advanced SmartBASIC programming. Many ADAM owners would love to read about some of your programming secrets. Your help will be greatly appreciated.

Mr. Jay Forman (M.W. RUTH CO.) recently informed us that he is meeting with COLECO concerning the release of all the games/ programs they had finished when they dropped the ADAM. We wish Mr. Forman the best of luck in this venture. All ADAM owners will greatly benefit if he can work out the arrangements with COLECO.

We just recieved the new PowerPAINT program from Digital Express. This is, without a doubt, the most extensive graphics and drawing program ever developed for the ADAM. Look for an in-depth review next month. If you have been waiting for just the right program to justify the purchase of a dot matrix printer, this one is it. This program is just unbelievable.

We are sorry to report that Expandable Computer News has dis-continued publication of their ADAM newsletter. ECN was the first ADAM publication. Due to fewer renewals, and the demands of the editor's (Mr. Sage) new job, this decision

was made. We are very sorry to hear this, ECN will be missed.

In this issue, we have reviews on Defender, Centipede, TurboDISK 1.0, AutoWriter, NewsMAKER, Softpack 1, and Business Pack 1.

New member Philip Kosowsky, a former Coleco lab technician, is offering a repair service to all ADAM owners. Philip will repair your ADAM for a flat charge of only \$50.00. This price includes parts, labor, and return shipping. However, he does not repair ADAM Disk Drives or mechanical parts. If your ADAM is down, call philip at: (717) 854-4647. His address is: 52 Carlisle Ave, York Pa 17404.

Current member cost for a 256K memory card is \$225.00 assembled. For larger memory boards, you will need to contact Orphanware directly. Due to the variation in the cost of memory chips, please CALL before ordering.

Digital Express has informed us that they should be shipping their new program BEYOND TREK by January 18th. If they are able to make that deadline, we should be shipping all back orders by the time you read this.

NEW PRODUCTS:

SOFTWARE:

- TAX 1040-87
- BASICAID
- GAMES I
- TEXT GAMES I
- UTILITIES
- HOME/BUSINESS
- SCIENCE/EDUCATION

CARTRIDGE GAMES:

- DEFENDER
- CENTIPEDE
- VICTORY
- PEPPER II
- TARZAN
- TIMEPILOT

- JUMPMAN JR.
- GATEWAY TO APSHAI
- COLECO FOOTBALL
- COLECO SOCCER
- CONGO BONGO
- BURGER TIME
- FROGGER II
- POPEYE
- ANTARTIC ADVENTURE
- MR. DO'S CASTLE

Games 1, Text Games 1, Utilities, Home/Business. and Science/Education all are some of the best public domain programs assembled into their proper categories. Put together, and enhanced by Mr. T. Software, these are some of the best PD programs available for the ADAM. Look for our reviews in future issues.

Except for Defender and Centipede, we DO NOT have any of the mentioned cartridge games in stock. However, if you would like a particular title, call us and we'll see that you get a copy. Prices for these games are listed in the product section.

HONEYWELL SERVICE CENTERS:

Several members have contacted us for information of where they can get their ADAM repaired. For those problems that Mr. Philip Kosowsky can not take care of, the following is a list of the authorized Honeywell service centers:

ARIZONA
PHOENIX (602) 862-3577
5115 N. 27TH AVE.
PHOENIX, AZ 85017

CALIFORNIA
LOS ANGELES (213) 533-8618
20600 GRAMERCY PLACE
TORRENCE, CA 90501

ANAHEIM (213) 533-8618
1162 N. GILBERT ST.
ANAHEIM, CA 92803

COLORADO
DENVER (303) 779-6479
7100 E. BELLVIEW SUITE 12C
ENGLEWOOD, CO 80111

We will list more locations next month.

NEW MEMBERS.

We wish to thank the following new members for their support:

Gary Stuckwisch	Russell Thoman
Billy Satterwhite	Norman Castro
Peter Mortsell, Jr.	Robert Thurwanger
Donna Leeper	Ed Fishel
Joe Friendly	Jack Bryner
Allen Keltner	John Burke, Sr.
Sandy Meyer	Philip Kosowsky
Steve Hollis	Richard Fulkerson
James Notini	Alan Moskoe
Rob Friedman	Douglas Chapman
William MacKenzie	Robert Currie
Edward Haas	Daniel Caulpetzer
Steve Olson	Thomas Lee
John Baney	Janice Wyrick
Richard Williams	Peter Cleary
Barry Fulton	Ambrose Taylor
Gary Scare	David Barker
Marisa Serven	Charles Kaelber
Paul Todd	Ronald Harder
Gary Osthoff	Brian McManus
Peggy Phillips	John Kirtley
Darryl Quinn	David Keefe III

MORE NEW MEMBERS NEXT MONTH....

MEMBERS LETTERS:

Dear ADAM'S ALIVE:

I enjoy my ADAM but am not interested in playing computer games. Instead I use it like a glorified calculator and make up my own programs, for instance, costs, loan values, number sorting, etc. My latest program is one to reveal the date of Easter for any year in the Gregorian Calendar.

At present, I have been trying to build up some musical programs but have been unable to find information for producing particular notes and the timing techniques for tunes and melodies. Any information along this line would be most appreciated.

I am enclosing the "EASTER" program which can be used any way you desire.

Yours truly

Ronald Harder

RESPONSE: You should try the program from Digital Express called Intel-BEST 3.3. This is a SmartBASIC enhancement program, that allows you to use sound in your own programs with ease.

EASTER PROGRAM:

```

4 HOME
6 PRINT TAB (10); "EASTER DATE"
10 INPUT "TYPE ANY YEAR WITH
DIGITS SEPERATED BY COMMAS ";
p,q,r,s
15 PRINT
20 y+1000*p+(100*q)+(10*r)+s
30 aa=INT(y/19):a+y-(19*aa)
40 b=INT(y/100)
50 c+10*r+s
60 dd=b/4:d=INT(dd)
70 e+b-(4*d)
80 ff=b+8:f=INT(ff/25)
90 g=INT((b-f+1)/(3))
100 ha=19*a=b-d-g=15
110 hb=INT(ha/30):h=ha(30*hb)
120 i=INT(c/4)
130 j+c-(4*i)
140 ka=32+(2*e)+(2*i)-h-j
150 kb=INT(ka/7):k+ka-(7*kb)
160 la=a=(11*h)+(22*k):l=INT(la/451)
170 ma=h=k-(7*l)+114
180 mb=ma/31:m=INT(mb)
190 o=ma-(31*m)
200 PRINT:PRINT:PRINT "IN ";y;" THE
DATE OF EASTER IS: ".PRINT
210 PRINT TAB (12);m;TAB(13);"/";TAB
(14);0=1

```

Several members have asked about the error message "NO MORE ROOM" when trying to save a program/file, even when there seems to be enough space on the tape/disk.

RESPONSE: ADAM has a bug when deleting files/programs. When a program/file is deleted, it still remains in the directory, thus even though ADAM shows that more space has been allocated, this is simply not true. The only way we know how to free up the space used by deleted files, is to use a program like PURGE found on the MEDIA-AID PLUS package. For more info on how this program works, see our review of this great program elsewhere in this issue.

Dear E & T:

I am in receipt of my first copy of my subscription to "ADAM'S ALIVE" and I desire to tell you that I am not sorry that I subscribed to your fine and excellent newsletter. Congratulations on a job well done.

In fact, I would like to know if you are accepting renewal subscriptions from new subscribers, such as myself, at his time as I want to renew my subscription as soon and as early as possible.

In addition to the above comments about your newsletter, I would like to take this opportunity to advise both you and MMSG that I would most definely be interested in purchasing an upgraded Backup+ 3.0 product that had the ability to copy multiple directory disks/tapes, support double sided disk drives, to print to either the standard ADAM printer or a dot matrix printer, and more.

".....have a Happy Healthy and Joyous Holiday Season, and keep up the good work in helping to keep "ADAM ALIVE".

Herman H. Cherney

MEMBERS LETTERS CONTINUED:

RESPONSE: Thank you for the kind comments. We will try our best to bring all our members a quality newsletter each and every month. By all means, we will accept a membership renewal at any time. We will forward your comments to MMSG. Hopefully, if enough ADAM owners respond, MMSG will decide to go ahead with the new upgrade.

Dear E & T:

I just wanted to say thanx a million for all your support for the ADAM computer. It really means alot to a 4 year Adam user. I would like to suggest a few things to include in your newsletter. 1st, if possible, could you include a "Hall of Fame" page which shows the high scores of Adam games that us (the readers) will send in? Of course, we will have to send in a picture of our TV screen for proof. 2nd, could you PLEASE!!!! include peeks & pokes which would help me (an advanced programmer) out?

I thank you for listening, and keep up the OUTSTANDING WORK PLEASE!!!!

Darryl Quinn

RESPONSE: Thank you so much for the nice comments. Gosh, I'm starting to (BLUSH).

What do the rest of you members think of a Hall of Fame section in each issue? If enough people respond, we will be glad to include it in every issue. Please let us know what you think.

For you hackers, we will have a list of some of the peek and poke locations in next month's issue.

Dear Editor,

I already have Coleco's 64K expander but it doesn't really give me what I want. For example, I am still pretty limited in

spreadsheet size using ADAMCALC. Will your expanders allow me to use the extra memory to construct larger, more complicated spreadsheets?

Can I install your 64K and/or 256K expanders even though I already have Coleco's installed?

Also, what are the advantages of using SmartBASIC 2.0?

James Valley

RESPONSE: Due to the limitation of ADAMCALC, all expander cards are used ONLY a 64K print buffer. Having a memory expander will not give you the ability to create a larger spreadsheet.

When using a memory expander, you can only use ONE AT A TIME.

SmartBASIC 2.0 is great when using sequential files, random access files, or creating sprites within your own programs. One disadvantage to 2.0 is the fact that it is NOT compatible with any SmartBASIC V1.0 program that uses peeks, pokes, or calls. For this reason, 2.0 should only be used by those ADAM owners who have experience in BASIC programming.

MORE LETTERS NEXT MONTH

The following information is for those of you who have, or are planning to purchase a high speed dot matrix printer:

NewsMAKER PRINTER PATCH:

Elsewhere in this issue is a NewsMAKER dot matrix printer patch, sent to us from Digital Express.

By entering in the 9 SmartBASIC lines, the program will then access your dot matrix printer. When using this patch, DO NOT use any other printer patch. When all the directions are followed, turn

your printer on, insert NewsMAKER and pull reset.

For those of you who would just like to change the programs to FAST LOAD, use Intel-LOAD 2.0 and follow instructions 5-7.

MicroWORKS PRINTER PATCH

For those of you who have, or are planning to order the program MicroWORKS, we now have a printer patch so you can use an Epson compatible dot matrix printer. Before you use the following program, be sure your printer is on. Enter the following lines, and save the program as a HELLO file on a copy of your SmartBASIC tape/disk:

```
10 POKE 16149, 255: POKE 16150, 255
20 DATA 126, 254, 3, 200, 245, 219, 64,
203, 71, 40, 250, 241
30 DATA 211, 64, 35, 24, 239
40 FOR x = 62741 TO 62747: READ mc:
POKE x, mc: NEXT
41 DATA 27, 51, 18, 10, 3
43 FOR x = 0 TO 4: READ mc: POKE
56730+x, mc: NEXT
45 DATA 33, 154, 221, 205, 99, 252, 201
47 FOR x = 57000 TO 57006: READ mc:
POKE x, mc: NEXT
49 CALL 57000
55 TEXT: VTAB 10: PRINT " PATCH
ENABLED...": PRINT: PRINT " BRUN
MicroWORKS NOW"
60 NEW
```

REVIEWS

SOFTPACK 2.0/BUSINESS PACK 2.0 by Lyle Marschand

E. & T. Software has been a solid, long time supporter of the ADAM. Ed Jenkins is a great programmer and a devoted ADAMite.

Ed has rewritten his two great programs, SOFTPACK and BUSINESS PACK, adding many features and enhancements.

He is now using SmartBASIC v 2.0 in order to utilize its random access file capabilities (SmartBASIC v 1.0 does not support random access files). The advantage of random access files is access speed and the ability to store more records per file. Sequential files, which is what BASIC v 1.0 provides, can hold only 150 records per file (depending on the length of the main program). This limits many programs and requires multiple files to be created and used.

SOFTPACK contains two main programs- SOFTCHECK is a comprehensive checkbook management program handling checks, deposits, ATM transactions, interest, check fees, and account charges. Up to 650 entries per file can be accommodated. An 'auto check' feature has been added that supports up to five different checks that are the same each month (car, mortgage payment, etc). Once all transactions are entered they may be listed to either the screen or printer, or edited if an error was made. Full search capabilities are provided by check #, deposit, atm, charge, or date. All canceled entries can also be retrieved.

CHECKBOOK RECONCILER is just that, you enter your bank balance and any outstanding checks/deposits and the program will balance for you.

CHECKBOOK TOTALIZER aids in analyzing how your money is spent. You can print out checks, deposits by month, category (food, doctor, etc.) or tax deductible.

SOFTMAILER provides for the entry and maintenance of a list of names and addresses (up to 150 per file). Three lines of address entries are provided for as well as three categories that can be used to group names/addresses for later retrieval and printing (e.g. bills, Christmas list, etc.). A full editor is provided for maintenance. Printing is fully supported, with search by last/first

REVIEWS CONTINUED.

name, record #, zip code, and category. Large and small envelopes, paper, and mailing label printing are supported.

BUSINESS PACK contains an improved version of the SOFTMAILER program with additional features and a program called SOFTFILER, that allow the establishment of a database of names, addresses, etc. Up to 248 records can be stored in each file and multiple files can be set up. Sophisticated search facilities are provided in addition to editing and sorting capabilities. SOFTSTOCK and STOCKPRINT are used to create and maintain an inventory sysetm for small businesses with up to 400 stock items. Stock #, vender, product name, quantity on hand, reorder point, quantity on order, total sold, company and retail cost data are provided. Various reports can be printed based on this data.

Both SOFTPACK and BUSINESS PACK are very well done programs, with good edit routines and ease of enty for the user.

These new versions are being made available to owners of the older version for \$7.50 including shipping. Also, you may send in a data tape/disk containing files created using the original version of SOFTPACK/ BUSINESS PACK for conversion to be compatable with the new version, for only \$3.00.

RATING - A

EDITORS NOTE: Lyle Marschand is the editor of the NIAD monly ADAM newsletter. Neither Lyle Marschand or NIAD, are afiliated with E. & T. SOFTWARE or ADAM'S ALIVE in any wav.

TurboDISK 1.0
by Patricia Herrington

As the proud owner of a brand-new 64K card, the first thing I did was get out TurboDISK, the exciting new RAMdisk package from DEI (Digital Express, Inc.). I had been reading my manual for two weeks in anticipation of the event, and I was ready!

Following the instructions, I loaded SmartBASIC, entered a poke, and then loaded the file named 'ramdisk'. It's as simple as that to install a super-efficient internal drive that runs even faster than a disk drive! At this point, I loaded some of my favorite utilities into RAM. Now all my drives were free, and my utilities were almost INSTANTLY available by accessing "d7".

I also loaded the file "ezkeysII" that came on the disk. This is a public domain program developed by DEI. What it does is allow you to use the shifted Smartkeys to perform such functions as changing drives and cataloging. The keys don't show graphically on the screen, so you have to remember what their function are, or work from a list. But you remember pretty fast whenl you realize how much easier it is to push shifted V than to type "catalog". (And you can catalog "d7" . . . your RAMdisk . . . just like any other drive.) I spent the rest of the session giving those two programs a real workout, and they performed perfectly.

In case you don't know what to stick in RAM, there is another program in the package. It's called "turbocopy", and it's much more than a copy program. It copies darn near anything. And it allows you to examine the blocks on your media to see if you have any bad ones. It's super user-friendly, with graphics and sound effects. The only drawback is that you can't use the copy program to copy anthing from d7, because it resides in the RAMdisk.

There's am extra-special feature to TurboDISK, which is that it allows you to exit BASIC and use other types of software without erasing the files you have stored, so you can return to them later.

DEI writes cosistently excellent manuals. The one that comes with TurboDISK is clear, thorough, and well-written.

I would strongly recommend TurboDISK to any one with a 64K card. I am thoroughly delighted with it. Way to go, DEI.

HackFax 101

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(hacker info on Strategic Software's "NewsMAKER" program)

In the early part of December 1987 Strategic Software released "NewsMAKER". This "text and text/graphics page layout package" is an innovative piece of work for the ADAM™ computer. While impressive in its own right, some of its purchasers may note that a few patches would be welcome. A couple of these are: (1) a modification to allow for use on a standard Epson FX compatible dot matrix printer (the Panasonic KX series, the Okimate 20, etc.) and (2) the ability to speed load the three primary BASIC programs of the "NewsMAKER" package, ie, NewsPRINT, NewsMAKER, and NewsEDIT.

NOTE: "NewsMAKER" employs the public domain interpreter "SmartBASIC 2.0".

NOTE: "The spelling of a few BASIC keywords are changed: LIST becomes Lxxx, END becomes Exx, NEW becomes Nxx, and so on.

TO PATCH FOR A DOT MATRIX:

- (1) rename HELLO to hello
- (2) boot the "NewsMAKER" data pack
- (3) after BASIC 2.0 is in RAM, enter LOAD hello
- (4) add the following lines:

```
0 POKE 1648, 255: POKE 1649, 255: POKE 20242, 11
1 DATA 126,254,3,200,245,219,64,203,71,40,2 50,241
2 DATA 211,64,35,24,239
3 FOR x=63089 TO 63105: READ mc: POKE x, mc: NEXT
4 DATA 27,51,18,10,3
6 FOR x=0 TO 4: READ mc: POKE 56320+x, mc: NEXT
7 DATA 33,0,220,205,99,252,201
8 FOR x=57000 TO 57006: READ mc: POKE x, mc: NEXT
9 CALL 57000: VTAB 1: HTAB 8: PRINT "dot matrix setup"
```

- (5) change RUN on line# 20 to BRUN and then enter SAVE HELLO
- (6) you may use Intel-LOAD 2.0 (by DIGITAL EXPRESS) to convert the programs to speed-loading
- (7) to do so (ONLY ON YOUR BACKUP; not the original data pack!!!):
 - a. RENAME NewsPRINT to newsprint
 - b. LOAD newsprint
 - c. enter LOMEM:28500
 - d. change RUN on line# 7110 to BRUN
 - e. change CALL 64743 on line# 7510 to TEXT:Exx
 - f. execute Intel-LOAD 2.0 with CALL 56320 & BSAVE NewsPRINT
 - g. RENAME NewsMAKER to newsmaker
 - h. enter LOMEM:26960
 - i. LOAD newsmaker
 - j. change RUN on line# 6910 to BRUN
 - k. change RUN on line# 7110 to BRUN
 - l. change CALL 64743 on line# 7510 to TEXT:Exx
 - m. execute Intel-LOAD 2.0 with CALL 56320 & BSAVE NewsMAKER
 - n. RENAME NewsEDIT to newsedit
 - o. LOAD newsedit
 - p. enter LOMEM:28500
 - q. change CALL 64743 on line# 6030 to TEXT:Exx
 - r. change RUN on line# 6060 to BRUN
 - s. change RUN on line# 6061 to BRUN
 - t. execute Intel-LOAD 2.0 with CALL 56320 & BSAVE NewsEDIT

- these tips may be reprinted and/or distributed provided NO alterations are made -

If you find this information useful,
a donation of 25 cents to DIGITAL EXPRESS would be appreciated.

NewsMAKER

For many of us, the ability to create multiple columns on a page and then import graphics into our documents, has long been just a dream. But now, thanks to the wizards at Strategic Software, our dream has come true.

With NewsMAKER, true desktop publishing has finally come to the ADAM. You can now create multiple columns, and then re-size them to any size you wish. By telling ADAM if you wish the column to contain text, or pictures, you can create some very impressive newsletters, catalogs, manuals, proposals, presentations, and much more.

NewsMAKER comes on a self-booting Data Pack, simply insert and pull the computer reset. The main program NewsMAKER will load, and display the main MENU. From this main MENU, you have five options to choose from. These are: EDIT, LOAD, SAVE, OUTPUT, QUIT. Each option can be chosen by either using the spacebar to select it, or using the first letter as the key word (i.e. E for EDIT). In either case, the selection for the various procedures is very easy to learn.

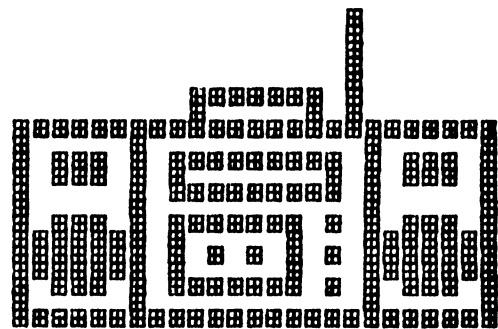
To create your columns, you select EDIT from the main MENU, then select NEW. A scaled down graphic representation of a full 8 1/2 X 11 inch page is displayed, so you can place your blocks anywhere on the page (except blocks cannot overlap each other). Once you have positioned a block (or column), you can then move, and resize it to fit your needs. You then tell ADAM if it will contain text or pictures, and then proceed to fill it with data or a picture.

Since NewsMAKER will accept any SignSHOP compatible pictures, this gives you many pictures to choose from. As explained earlier, our SnapSHOTS VOL. I will give you 35 pictures to choose from. We should have Vol. II by the first week in February.

To create your own pictures,

NewsMAKER comes with a very powerful picture editor called NewsEDIT. Loaded directly from NewsMAKER, NewsEDIT works much the same way as in their other popular program SignSHOP. By placing X's into the proper locations, you can create some very nice pictures. Once created, they can be stored in either NewsMAKER or SignSHOP formats.

Now that you have created a one page document, you first save it to tape or disk, and then load the program NewsPRINT. NewsPRINT will printout all the text, and then prompt you to reverse the page to the starting location. When ready, you press the return key, and NewsPRINT will then insert/print the pictures into the proper locations. When finished, you have a very impressive document.



As you can see from the above picture, NewsMAKER gives you the ability to display some rather impressive pictures into your documents.

Of all the fine programs produced by Strategic Software, I feel that NewsMAKER is one of their finest. With all the functions offered, and the ease of use, NewsMAKER is one heck of a good program. To show off it's many capabilities, we will be using it to create parts of ADAM'S ALIVE.

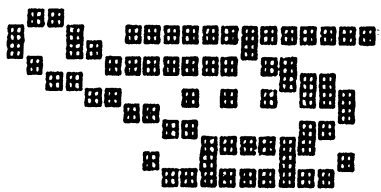
With all the things we like about NewsMAKER, there are two things that we found that we disliked. These were: The long loading time of the program, and the fact there was no dot matrix support. Even though these two problems have been since corrected by Digital Express, we feel these features should have been included by Strategic.

REVIEWS CONTINUED.

With those two small complaints asside, I really like News MAKER. I believe that the limits to the program are only our limits. With a little imagination, some very impressive creations can be made with this great program.

Since Strategic has shown us that they can produce such a great product for desktop publishing, how about a special revision for those of us who have dot matrix printers. It would be nice to be able to import high resolution graphics into our documents. What about it Strategic?

RATING - A+

DEFENDER/CENTPEDE

Two of the best arcade renditions available for the ADAM are Defender and Centipede. In both games, the action is fast and furious. ATARI did a better job on the graphics in these two exciting games, than they did on their own 5200 game system. With fast action game play, and excelent graphics, these are two of my favorite games.

In DEFENDER, the object is to save a planet form envading aliens. You are equipped with a high speed space ship, armed with lasers and smartbombs. Save as many humanoids as possible, while destroying the alien ships. Use your on-board scanning equipment to search for the humanoids. Fire your lasers to destroy the alien ships, or use your smartbombs to destroy all enemy ships in your sector. With the fast arcade action, this is one great space shootem up recommended for all star fighters.

In CENTPEDE you are trapped in a strange forest and are being attacked by some terrible creatures. Use your three magic wands to destroy the fast approaching centipede. Avoid the bouncing spider, strike out at the moving scorpion, while clearing the forest of poison muchrooms. Very much like the arcade game with the same name, centipede is a fast pased shootem up. You need very fast reflexes to stay alive and rid the forest of the many deadly creatures. With great graphics/ sound, and arcade action, this one is GREAT fun for youngsters of any age. Highly recommended.

RATING - A+

AUTOWRITER

AUTOWRITER is a excellent utility to aid programmers in writing sub-routines for their own programs. You simply choose which routines you need, and AUTOWRITER will write them to Disk or Tape, starting with a line number that you have chosen.

To load the program, insert and pull reset. After the logo screen appears, you will be given the choice to set the on screen digital clock. The program will then ask you for a starting line numer, and then the number of increments. You will then be shown the main program which gives you the following options: (I) - Machine Code Routines, (II) - BASIC Routines, (III) - Pokes and Calls, (IV) - Save lines in memory, (V) - Print options, and (VI) - Quit.

The first two options allow you to choose the online BASIC or Machine Code routines to be included in your programs. You can either press the I SmartKEY to STORE the routines in memory, or press SmartKEY VI for DONE.

Once you have chosen the rountines you need, you press SmartKEY IV from the main menu. This will store your routines

to a specified tape/disk. You then can merge your routines into your programs.

Eventhough many of the routines have been covered in some usersgroups newsletters, AUTOWRITER will save you many hours of search time, trying to dig through your back issues.

Not only will AUTOWRITE store your routines starting with the line numbers you have chosen, but the program will automatically adjust the addresses of the included machine code language routines so that you can combine them in any sequence.

For those of you who would like a listing of available POKES and CALLS, AUTOWRITER has much of this needed information on-line. Just choose SmartKEY III from the main menu, and you can either search by a key word, or list all the available POKE and CALL information one at a time. This added feature will save you a lot of time when writing your own programs.

A print option is also provided, so you can printout a hardcopy of all your needed information and routines.

To give you an idea how many routines are available with AUTOWRITER, the following is a sample of what is available: BASIC ROUTINES - Keyboard routines, Smartkey input control, print lines from the screen center, sorting, error trapping, GR & HGR color tabels, change string to upper case; Machine Code Routines - Text and background color change, underscored text, color inverse fonts, 40 column text mode, auto random numbers, sound routines, restore specific line numbers, on screen digital clock, and more.

Not only does AUTOWRITER help write your programs fast than you thought possible, but it's also a very good teaching aid for the novice programmer. By looking at the various routines provided, you will learn much new programming knowledge.

AUTOWRITER also comes with a very detailed and easy to understand

instructions manual. In just a few short minutes, you can be creating some very impressive programs.

If you are an ADAM programmer, or just starting to learn, AUTOWRITER will be a very valuable tool in helping you in your programming.

When I started learning BASIC programming, I wish I had a program that offered all these great features. If you only buy one programming utility this year, I suggest you consider AUTOWRITER. It's GREAT!

RATING - A+

BEGINNING SmartBASIC.

Now that we know how to display messages, we might like to have something to talk about. The ADAM's ability to perform calculations is readily available to us.

```

100 PRINT "THE NUMBERS ARE:"
105 PRINT "234.56 AND 43901 "
110 PRINT "THE SUM IS"
120 PRINT 234.56 + 43901
130 PRINT "THE DIFFERENCE IS"
140 PRINT 234.56 - 43901
150 PRINT "MULTIPLY THEM"
160 PRINT 234.56 * 43901
170 PRINT "NOW DIVIDE"
180 PRINT 234.56 / 43901
190 END

```

Here we have a program that performs addition, subtraction, multiplication, and division of two numbers. As you can see in lines 120, 140, 160, and 180, ADAM uses +, -, *, and / as the symbols for these arithmetic operations.

We can do some interesting things with what we know at this point, but the real power of the ADAM begins to emerge when we can save the results of calculations without having to recalculate.

ADVANCED PROGRAMMING.

A variable may be thought of as a pigeonhole or a mailbox in which we may save the value of data. We can save an hourly wage and save in the variable 'w'. Then we get the number of hours worked and save the value in 'n'. Next, we might find the net pay by multiplying w by n and then save it in 'k'. Or we might want to take advantage of some numbers.

```
100 s = 34 + 45 + 65 + 89 + 91 + 56
110 n = 6
120 av = s / n
130 PRINT "AVERAGE = ";av
140 END
```

If we want to calculate an average for a different set of values, we need only retype lines 100 and 110 of this simple program.

We have used 3 variables in this program: s, n, and av. We are free to choose a wide variety of names for variables. However, SmartBASIC only uses the first two characters of any variable name. One method to avoid problems in using variables is to limit their size to one or two characters.

SmartBASIC key words such as: LIST, RUN, STOP, END, PRINT, etc., should not be used as variable names.

Each of the statements 100, 110, and 120 is an example of the assignment statement in SmartBASIC. The effect of statement 100 is that the ADAM will calculate the sum of 6 numbers shown there and store in the slot labeled 's' by the value found in the slot labeled 'n' and place the result in a slot labeled 'av'.

SmartBASIC includes the INPUT statement as one means of providing data for a program to work on. When SmartBASIC encounters an INPUT statement, it causes the computer to wait for data to be typed at the keyboard.

When the statement:

```
100 INPUT x
```

executes, it will display a question mark as the signal to us that we are to type in a single number.

```
100 INPUT x, y, z
```

will also display a question mark. However, we have provided for three values to be entered, and ADAM will insist on getting three.

Suppose we enter only one, ADAM will gently prod us by displaying two question marks repeatedly until we have entered the proper amount of data. If we enter too much data, ADAM will display the error message: ? EXTRA IGNORED.

Suppose we just hit the RETURN key or type a letter instead of a number, ADAM will display an error message: ? REENTER, and will wait for you to reenter the required numeric data.

Suppose we want to write a program that will calculate the milage for each tankfull of gasoline. We have been careful to fill the tank each time. Since we do not know whether the tank was full when we got the car, we should discard the figure for the 1st purchase. What we do know is that 12.7 gallons took us 226.4 miles, and 17.7 gallons took us 252.7 miles, etc. The following program does the miles-per-gallon calculation for us:

```
100 PRINT "FIRST READING";
110 INPUT m
120 PRINT
130 PRINT "GALLONS, READING";
140 INPUT ga, m2
145 IF ga = 0 and m2 = 0 THEN END
150 m = m2 - m
160 mg = m / ga
170 PRINT mg; " MPG"
180 m = m2
190 goto 120
```

Note the use of the semicolon at the end of lines 100 and 130. This enables us to compose a single line of display on the screen from several lines in a program. Thus the question mark displayed by the INPUT statement at line 110 will appear immediately following the G in READING from line 100, and the question mark displayed by the INPUT statement at line 140 will appear immediately following the G in READING from line 130.

PROGRAMMING INSTRUCTION CONTINUED.

Since we want the number of miles traveled, the program must subtract the previous reading from the current one. This is done in line 150. 'm' is the miles traveled, 'ga' is the number of gallons used, and 'mg' is the number of miles per gallon. Once the ADAM has calculated the number of miles traveled, the current reading becomes the previous reading for the next item of data to be entered. This is the purpose of line 180. Line 120 is referred to as a blank PRINT. A blank PRINT will be displayed as a blank line. We can use this to adjust the spacing for better legibility.

To end the program, we have included line 145 so you could END by simply entering two zeros (seperated by a comma).

We will now study the GOTO statement. The GOTO 120 you see at line 190 is an instruction telling ADAM to excecute the statement numbered 120 next in sequence.

In this way, we are able to control the order in which SmartBASIC executes the statements of our programs.

There are numerous ways to provide programs with data. We have gotten numbers into our programs by including them in PRINT statements, by assigning values to variables with the assignment statement, and by programming with the INPUT statement. Now we add READ and DATA to the list for SmartBASIC.

The READ statement assigns values to variables by using DATA statements as the source. READ and DATA are always coordinated to solve the problem at hand. Let's convert the INPUT-based program on galoline mileage to a program that uses READ and DATA. In this case the data will not be entered from the keyboard.

```

90 PRINT "GAL. MILES MPG."
100 READ m
150 for i = 0 to 3
200 READ ga, m2
210 m = m2 - m
220 mg = m / ga
230 PRINT ga; " ";m; " ";mg
240 m = m2
250 NEXT

```

```

260 END
900 DATA 230.3
920 DATA 12.7, 456.7
930 DATA 17.7, 709.4
940 DATA 11.1, 895.5
950 DATA 13.8, 1131.6

```

We will continue our discussion next month.

USING DATA FILES

Several members have asked for more advanced articles on SmarBASIC programming, so this month we will start a series of discussions on file handling. We will start with the use of sequential files, then move up to the use of random access files.

A data file is stored alphanumeric information that is separate and distinct from any particular SmartBASIC program. It is recorded on either blank data packs, or disks.

In your previous SmartBASIC programming experiences you probably hand-entered all data needed by your programs using INPUT statements. You did this each time you ran your programs. Or, if you had larger amounts of data, you might have entered the data by using DATA statements, and used the READ statement to access and manipulate the data.

In either case, the data was program dependent; that is, they were part of that one program and not usable by other programs.

A data file is program-independent. It is separate from any one program and can be accessed and used by many different programs. In most cases, you will use only one program to create a data file. But once your data file is recorded (saved to tape/disk), you can then read the information from that file using many different programs, each performing a diffent activity with that file's data.

For example, perhaps you have entered a personal telephone and address data file, and wish to use this information several ways. Using one creation program, you create a data file and then save it to tape/disk. You could then access that information with another program to select just the specific information you need for a certain report. Another program could be written to edit/change any/all data information contained on your file. Then again, you could write another program to printout mailing labels. We used this same kind of format when we created our two program packs BUSINESS PACK and SOFTPACK.

Since this is for advanced programmers, we will assume that you understand how to convert numbers to strings, and have had experience using the DIM statement. If you have'nt, please refer to your SmartBASIC manual.

Depending on the size of your program, ADAM can accept about 150 address into memory. What we have done is use the FRE(0) command to check for available memory.

In your name/address sub-routine, use the FRE(0) command to check for available memory space. (example: m = FRE(0); IF m < 800 OR e = 150 THEN RETURN). The 'm' variable is used to store the available memory, and the 'e' variable is used to store how many address have been entered. By using this type of error check, you can prevent your program from crashing.

In sequential files, records are stored in a sequential fashion. In other words, to access the 145th record (or address), you will have to read each record from the beginning until you reach the 145th address. Another way is to read the address data into an array, and then use a FOR NEXT loop to read/edit the data.

The following is a sample program to create your data file:

```
100 CLEAR: d$=chr$(4)
110 x = 25: DIM e(x), nf$(x), ln$(x),
ad$(x), ct$(x), st$(x), zi$(x)
```

```
120 m = FRE(0): IF e = 25 OR FRE(0) <
800 THEN GOTO 200
130 e = e+1: home: vtab 10: INPUT "
FIRST NAME: ";nf$(e)
140 INPUT " LAST NAME: ";ln$(e)
150 INPUT " ADDRESS: "; ad$(e)
160 INPUT " CITY: ";ct$(e)
170 INPUT " STATE: ";st$(e)
180 INPUT " ZIP: ";zi$(e)
185 IF e = 25 THEN GOTO 200
190 PRINT:INPUT " ANOTHER ENTRY?
(y/n) ";a$:IF a$="Y" OR a$="y" THEN
GOTO 130
200 PRINT:PRINT " NO MORE ENTRIES.
ALLOWED"
210 PRINT:PRINT " PRESS ANY KEY TO
SAVE FILE":GET f$
220 PRINT d$: "OPEN ADDRESS"
230 PRINT d$: "WRITE ADDRESS"
240 PRINT e
250 FOR i = 1 TO e
260 PRINT nf$(i)
270 PRINT ln$(i)
280 PRINT ad$(i)
290 PRINT ci$(i)
300 PRINT st$(i)
310 PRINT zi$(i)
320 NEXT
330 PRINT d$: "CLOSE ADDRESS"
340 END
```

The above simple program will allow you to store up to 25 names and addresses on a data pack or disk. Since there are no error checking routines in our program, be sure you insert a blank data pack or disk correctly before following the instruction given on line 210. If the data pack or disk is not in the drive correctly, all your entries will be lost from ADAM's memory. Next issue we will discuss ways to protect your programs from data loss, and how to read back your address files to make any changes.

In future issues we will show you how to use sequential files as index files, and then use random access files for most of your data. In this way you can store many more data in each file.

CONTINUED NEXT MONTH

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CABLE & SOFTWARE (DP/DISK)	\$ 55.95
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PUBLIC DOMAIN SOFTWARE
(DP) \$6.00 (DISK) \$5.00

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ADAM'S ALIVE ORDER SHEET

FOR MEMBERS ONLY.

SOFTPACK 1, BUSINESS PACK 1, AND OUR BLANK DATA PACKS ARE GUARANTEED FOR A FULL SIX MONTHS. ALL OTHER SOFTWARE AND HARDWARE IS GUARANTEED AS PER MANUFACTURER.

YOUR NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

TELEPHONE NUMBER () _____

MEMBERSHIP ID# _____

PAYMENT: CHECK () MONEY ORDER () CHECKS TAKE TWO WEEKS TO CLEAR

CHARGE MY: MASTERCARD () VISA () —→ \$25.00 MINIMUM

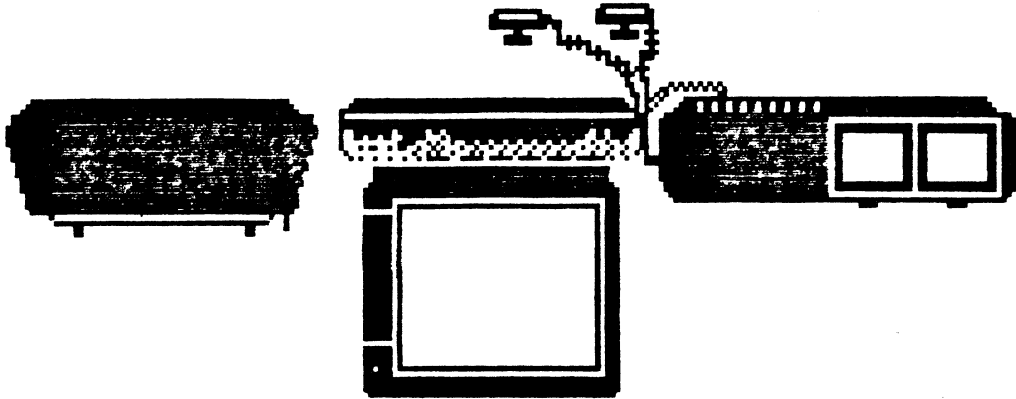
ACCOUNT NUMBER _____ EXP. DATE _____

SIGNATURE _____

QUANTITY	DP/DISK	DESCRIPTION	UNIT PRICE	TOTAL PRICE
C.O.D. () ADD \$1.90			SUB-TOTAL	
SHIPPING AND HANDLING \$2.50 U.S. \$4.50 CANADA				
8% SALES TAX (TEXAS RESIDENTS ONLY)				
TOTAL				

PLEASE NOTE: NO ORDERS WILL BE ACCEPTED WITHOUT YOUR ID#.

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