

NIAD Northern / Iliana ADAM User's Group

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**MULTI - FUNCTION USER GROUP
MONTHLY NEWSLETTER - PUBLIC DOMAIN LIBRARY
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Issue # 75 - April 1991
Editors: Lyle Marschand & James Notini
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Hours: Mon - Fri 11am - 7pm, Saturday 9am - 5pm CST

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Continuing our study of Romans, chapter 7 ...

¹⁴ About the middle of the feast Jesus went up into the temple and taught. ¹⁵ The Jews marveled at it, saying, "How is it that this man has learning, when he has never studied?" ¹⁶ So Jesus answered them, "My teaching is not mine, but his who sent me; ¹⁷ if any man's will is to do his will, he shall know whether the teaching is from God or whether I am speaking on my own authority. ¹⁸ He who speaks on his own authority seeks his own glory; but he who seeks the glory of him who sent him is true, and in him there is no falsehood. ¹⁹ Did not Moses give you the law? Yet none of you keeps the law. Why do you seek to kill me?" ²⁰ The people answered, "You have a demon! Who is seeking to kill you?" ²¹ Jesus answered them, "I did one deed, and you all marvel at it. ²² Moses gave you circumcision (not that it is from Moses, but from the fathers), and you circumcise a man upon the Sabbath. ²³ If on the Sabbath a man receives circumcision, so that the law of Moses may not be broken, are you angry with me because on the Sabbath I made a man's whole body well? ²⁴ Do not judge by appearances, but judge with right judgment."

²⁵ Some of the people of Jerusalem therefore said, "Is not this the man whom they seek to kill? ²⁶ And here he is, speaking openly, and they say nothing to him! Can it be that the authorities really know that this is the Christ? ²⁷ Yet we know where this man comes from; and when the Christ appears, no one will know where he comes from." ²⁸ So Jesus proclaimed, as he taught in the temple, "You know me, and you know where I come from? But I have not come of my own accord; he who sent me is true, and him you do not know. ²⁹ I know him, for I come from him, and he sent me." ³⁰ So they sought to arrest him; but no one laid hands on him, because his hour had not yet come. ³¹ Yet many of the people believed in him; they said, "When the Christ appears, will he do more signs than this man has done?" ³² The Pharisees heard the crowd thus muttering about him, and the chief priests and Pharisees sent officers to arrest him. ³³ Jesus then said, "I shall be with you a little longer, and then I go to him who sent me; ³⁴ you will seek me and you will not find me; where I am you cannot come."

³⁵ The Jews said to one another, "Where does this man intend to go that we shall not find him? Does he intend to go to the Dispersion among the Greeks and teach the Greeks? ³⁶ What does he mean by saying, 'You will seek me and you will not find me,' and, 'Where I am you cannot come?'"

³⁷ On the last day of the feast, the great day, Jesus stood up and proclaimed, "If any one thirst, let him come to me and drink. ³⁸ He who believes in me, as the scripture has said, 'Out of his heart shall flow rivers of living water.'" ³⁹ Now this he said about the Spirit, which those who believed in him were to receive; for as yet the Spirit had not been given, because Jesus was not yet glorified.

⁴⁰ When they heard these words, some of the people said, "This is really the prophet." ⁴¹ Others said, "This is the Christ." But some

said, "Is the Christ to come from Galilee? ⁴² Has not the scripture said that the Christ is descended from David, and comes from Bethlehem, the village where David was?" ⁴³ So there was division among the people over him. ⁴⁴ Some of them wanted to arrest him, but no one laid hands on him.

⁴⁵ The officers then went back to the chief priests and Pharisees, who said to them, "Why did you not bring him?" ⁴⁶ The officers answered, "No man ever spoke like this man!" ⁴⁷ The Pharisees answered them, "Are you led astray, you also? ⁴⁸ Have any of the authorities or of the Pharisees believed in him? ⁴⁹ But this crowd, who do not know the law, are accursed." ⁵⁰ Nicodemus, who had gone to him before and who was one of them, said to them, ⁵¹ "Does our law judge a man without first giving him a hearing and learning what he does?" ⁵² They replied, "Are you from Galilee too? Search and you will see that no prophet is to rise from Galilee."

This passage is interesting in that it discusses how the people were reacting to Jesus and who they thought he was.

We have to put ourselves in the context of the time in Jerusalem. The Romans were the rulers of Israel and all the Jews. This rule was an oppressive one and the Jews were trying to find a way out. The Old Testament (there was no New Testament at that time) spoke of a Messiah or "Christ" who would come to "save" the Jews. However, the Jews assumed that this Messiah would be a military type who lead them to overthrow the Romans and reclaim their rule of Israel.

The Pharisees were the religious leaders of the Jews and they were in many respects the leaders of Israel from a governmental standpoint as well. They were "in charge" and they liked it that way. They established religious rules, through their interpretation of the scriptures and passed them on for the people to obey. They were concerned about a Messiah from the standpoint that they didn't want anything to upset their domination of the Jewish people.

Jesus was a mystery to them. He spoke and taught as a person who had been trained in the scriptures although everyone knew that he was just a common man. He performed miracles, healing people wherever he went, feeding thousands from a few loaves of bread and fishes. He was a gentle teacher who spoke of love and did not take the glory for any of his deeds, rather he stated that everything he did was from God the Father and that he was only carrying out what He wanted him to do.

There were very few people who really understood what Jesus was teaching, he said many things that they "marvelled" at but didn't really understand. The people did recognize that Jesus was no ordinary prophet because of what he taught and the miracles he performed.

In this passage, some of the Jews began to question each other, wondering if Jesus might in fact be the Messiah they had been hoping for. However, other Jews said 'No, the Messiah is to come from Bethlehem', not Galilee as they thought Jesus was from.

(Continued on page 2...)

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N.I.A.D. PROCEDURES



⇒ N.I.A.D. is published monthly except for the months of December/January and July/August, which are combined issues by the Northern Illiana ADAM User's Group. Individual issues may be purchased for the current month or a backissue for \$3.00 (always check Product List for current pricing). The April issue of N.I.A.D. is the 75th issue published by N.I.A.D., there are 74 preceding issues. When ordering backissues, please specify the number of the issue, month and year.

⇒ The standard membership rate for 10 issues is **\$22.00 USA Third Class** and **\$29.00 Canadian, USA First Class** and it's **possessions**. Contact us for membership rates outside of these areas.

⇒ N.I.A.D. welcomes contributions of original reviews, programs, articles, questions, suggestions and comments. Please include a SASE (Self-Addressed-Stamped-Envelope) if you want a written reply. Also, any contribution sent in on DDP or DISK will be eligible to receive a public domain program or volume in return at no charge!

⇒ Your N.I.A.D. member ID number is on the first line of your mailing label (affixed to the newsletter). The first four digits are the month and year of the final issue in your current membership. Please check this number each month to make sure that issues are not missed.

⇒ N.I.A.D. will not be held liable for any issues missed due to an address change which we are not informed of. Please get this information to us as soon as possible so as not to cause any type of difficulties. Also, include your member ID number.

⇒ N.I.A.D. accepts advertising for ADAM related products and services. Cost is \$50 for a half page ad and \$75 for a full page ad for one month. Contact us for multi-issue discounts. Well over a thousand ADAM owners receive our newsletter each month and many more get to see it second hand. You may send in your ad in either SmartWRITER, SpeedyWRITE, PowerPAINT, PrintWORKS, other ADAM formats, IBM ASCII or IBM PUBLISH IT! DTP format files or even supply us with a high quality print out for reproduction in the newsletter. N.I.A.D. reserves the right to not advertise certain products.

⇒ If **0491** are the first four digits in your member number, it is time to renew your membership to insure that you do not miss an issue.

⇒ N.I.A.D. welcomes software developers to submit their programs for us to evaluate for possible commercial sale. Send in your products for us to test and to review in the newsletter. N.I.A.D. offers a 50 / 50 split of the sale price on all items that we handle distribution of for all developers. You will find that this is one of the best offers around in the ADAM community. We will also publish a review on the product as soon as possible and handle distribution of demo copies.

⇒ Our Chicago Local Chapter Meetings are a great way to learn more about our beloved ADAM systems. You have the opportunity to meet fellow ADAM owners, ask us questions, see live demonstrations of hardware and software and also purchase products. We meet in our store, CompuKINGDOM, the second Thursday of each month at **7:30 PM**. If you need directions getting here, just give us a call.

The meetings which will be held throughout the year will fall on the following dates (remember that there are no meetings scheduled for the months of June, July and August):

May 9, 1991
September 12, 1991
October 10, 1991
November 14, 1991
December 12, 1991

We have exercised due care in the preparation of this newsletter (that doesn't mean we're perfect!). No warranty, expressed or implied with regard to the information contained herein is given, either by interpretation, use or misuse. The opinions expressed herein do not reflect those of the editor or staff unless noted.



(Continued from front page)

We can look back now and see how foolish these people were knowing that Jesus was born in Bethlehem. However, I think we might have made the same mistake as the Jews of that day. Consider the fact that Jesus was an ordinary looking man, the son of a carpenter, working class citizen like many of the people of Israel. Yes, he was a prophet, but there had been many prophets in Israel and he could have just been another one.

Jesus said the key phrase in verse 24 of chapter 7 - **"Do not judge by appearance, but judge with the right judgement."** This is really the key to why the Jews of that time were confused and why we are confused about some things today.

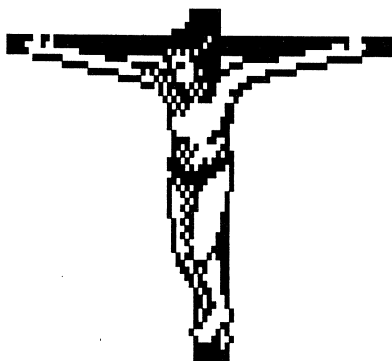
As humans, we tend to judge by appearance or by action, i.e., what we see with our natural senses. Using our natural senses usually leads to the wrong conclusion is we are not careful or experienced in what we look for. The phrase 'things are not always what they seem to be' are so true.



My son recently bought his first car (pray for us!) and by all outward appearances the car, although 12 years old "seemed" to be in good shape. We took it on a test drive and again, it appeared to run pretty good and has relatively low mileage for a 1979. He bought the car and has been paying to repair it ever since! He is learning that a 12 year old car costs money to keep up and that once we started to analyze the components of the car there were more things wrong then we originally thought based on our first look and test drive.

This is the case with most things and we learn (mostly the hard way) not just to go with the outward appearance of things. However, we are still very susceptible to reacting just on the basis of outward appearances which is why advertising is a multi-billion dollar business. We think that if we buy the clothes, perfume, etc. that beautiful people wear in magazines and television ads, we will become like them!

This is why Jesus did not come to Earth "looking the part" of a messiah, majestic and powerful. He did not want to be listened to or admired based on his outward appearance, but on what he said and did. Jesus was sent to bring a different message to mankind, a **message of God's love for his children and a plan for their salvation.**



Jesus was in fact both the messenger and the message, he preached about God's love and he displayed this love through healing 1,000's of people and sacrificing his own life to give us eternal salvation. Won't you accept this gift of eternal salvation today by asking Jesus to be your saviour?

God bless you all.

Here we are again with another fabulous N.I.A.D. Newsletter which is, of course, a couple weeks behind schedule. Once you fall behind, it seems like there is no way possible to catch up until the combined July / August or December / January newsletter roles around. It's always an uphill battle in trying to get the newsletter compiled, but thanks to the many contributions that we have received over the last couple months, the process of laying out the newsletter has become considerable easier. I would especially like to thank Doug Rosenvinge (of Acolyte Software) for his tremendous work in handling the CP/M and TDOS workshops. He has already done so much and is now working on a whole series of comparisons on the different versions of the CP/M operating system that will especially benefit the beginning CP/M user. You should see the first of this series in either the May or June newsletter, and knowing Doug's devotion, these will be some fabulous articles.

Contained in this issue are some other helpful workshops on SmartWRITER and also SmartBASIC programming. The SmartWRITER article by Bill Reynolds is one of the chapters that will appear in the "ADAM Survival Guide" book and should give you a little idea of the quality that this book will consist of.

One disappointing bit of news is that Joe Quinn, editor of the Gulf Coast AUG newsletter and also a programmer under the Grafex Software label, has had to move onto to another computer system due to work related needs and therefore has turned over the GCAUG to some of it's members to operate. He has also released all his programs into the public domain for all to share, a very nice gesture on his part. I will miss his wit and knowledge as will the ADAM community and wish him all the best in all his future endeavors.

TeleGames USA has informed us that across the board price reductions have been made on their line of Coleco / ADAM compatible cartridges as well as disk and data packs. TeleGames USA, as I am sure you know, carries a very large selection of cartridges for our system that range in price for \$15 on up to \$30. They also have a wide variety of cartridge game which have been setup on disk or data pack. These include such titles as Alcazar, Rock'N Bolt and Boulder Dash that were never available on cartridge format, but were finally made available through a licensing agreement TeleGames made. With all the hoopla over the new generation of videogame systems, now might be the time to once again use that cartridge port or joystick due to these price reductions. N.I.A.D. is closing out on the TeleGames line, see the specials page for some eye-popping pricing on the remaining titles which are available, due to these reductions by TeleGames.

And yes, Spring is in the air, which means that we will be offering a wide variety of specials as well as price reductions on ADAM hardware and software. Now is the perfect time to pickup that much wanted ADAM product for yourself or even to get a jump start on the Christmas season as many people did last year. Please pay specific attention to the dates which the specials are valid through as well as any stipulations outlined for the specials (which are available on a limited basis).

Finally, due to E&T Software / Ed Jenkin's heavy work schedule he has been unable to supply his products to us on a consistent basis. If you are ordering a Memory Expander or Parallel Interface there is the possibility that delivery of the product could be delayed for a couple of weeks if we do not have the item in stock at the time. We apologize for an inconveniences caused, but please bear with us.



N.I.A.D. NEWS & UPDATES

⇒ N.I.A.D., as we did last year, is offering a large selection of discounted software, hardware and specials for the Spring months. Check out the listing contained on page 5 for complete details of ADAM and Sega products which are on special until the release of the May '91 Issue #75 newsletter. Also note that some of the products are available on a limited basis and will not be offered again once stock is out.

⇒ The N.I.A.D. Public Domain Library is once again growing in size at a tremendous rate. New volumes include: Paint Palette, SmartBASIC Con. Kit, The Abominable Snowman, Dawggone Dawgs (these four titles were all released to the P.D. by Graftex Software) and ADAMCALC ANDV Volumes 6 thru 17. Also, a number of unreleased cartridge volumes have been combined. Check out the Public Domain Workshop for all the details.

⇒ MICRO INNOVATIONS continues research and development on their low cost line of Hard Drives for the ADAM. Two different models will be developed, PowerMATE or ADAMnet compatible, but the exact setup of each unit has yet to be set in concrete. Projected price for each of the 40Mb units are currently set at \$399.95 with a release date to be sometime in the middle to end of summer.

⇒ MICRO INNOVATIONS' ADAMnet 5 1/4" and 3 1/2" Floppy Disk Drives are selling at such an unbelievable pace that it has been almost impossible to keep them in stock. The good news to date concerning these disk drives is the fact that the introductory pricing is still in affect and it looks like the drives will remain at their current pricing for the immediate future.

⇒ OASIVE PENSIVE ABDACUTORS has produced a small quantity of the ADAM Image Maker video enhancement boards and has distributed a number for extensive testing and software development. The A.I.M. board is easily the most talked about and awaited hardware product for the ADAM. Hopefully next month we will have news as to when the A.I.M. will be released for retail purchase.

⇒ ADAMCON 03 continues to be the most anticipated event of the summer for the ADAM community. For the most up-to-date news read the update article by Dean Roades. One item that needs to be cleared up is the matter of the Day Pass Delegate. In the registration form, we listed the \$99 fee as being for one day only, well we goofed, the \$99 fee is for the entire convention minus the hotel room.

⇒ ADAM SOFTWARE SUPPORT has announced that they will only be dealing directly with ADAM distribution vendors and no longer with direct sales to the ADAM community due to time constraints. All products distributed by this company will still be available through the many ADAM vendors but not by direct purchase.

⇒ WALTERS SOFTWARE CO. has released their updated SmartDSK Cart product, now called ADAM'S Desk Top. Unlike the SmartDSK Cart, ADAM'S Desk Top will also be available on disk or data pack for \$29.95 where as the cartridge will retail for \$39.95. Current owners of the SmartDSK Cart may receive and update to ADAM'S Desk Top for \$20.00 directly through Walters Software Co.

⇒ TRIPLE A AUG, operated by Ramen Griffin, is an up and coming users group which has recently grown to over 40 members and is publishing a very informative ADAM newsletter. For more information write to: AAAUG - c/o Ramen Griffin - 3 Robin Hood Rd. - Albany, NY 12203-5113.

⇒ HEXACE SOFTWARE, operated by Bruce Walters, has released three new utility packages which contain their new enhanced Operating System. All three programs are reviewed in this issue. Another news item from Hexace is the availability of a complete disassembly of the MASTER 6801 processor in the ADAM with detailed explanations. If you are interested write to:

HEXACE SOFTWARE
c/o Bruce Walters
Rd#4, Box 81
Franklin, PA 16323

⇒ HAL WEBER SOFTWARE has recently updated all of their tutorial programs: States Race, El Espanol, Francais Por Les Chic and Math Mentor; with enhanced game elements as well as SmartWRITER documentation. All of these enhancements will be reviewed in the May issue as well as a number of new titles which were released by Hal Weber. If you are an owner of one of the four mentioned titles, you may receive an updated copy by sending in your disk or data pack along with \$3.00 to cover return shipping / handling.

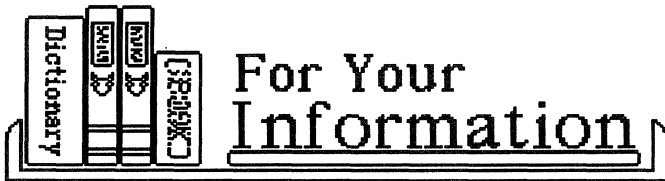
⇒ S.M. VIDEO has recently announced the release of two new power supply units for the ADAM in either 150 or 200 watt configurations. We will have a complete press release in the May issue. In the meantime, for further information write to:

S.M. VIDEO
c/o Shon McCallum
P.O. Box 3189
Oakton, VA 22124
(703) 620-4485.

⇒ PANASONIC has released a new 24-pin dot matrix printer, model # KX-P1123i, which offers many of the same features of the KX-P1124i but at a considerable cheaper price tag. With the advent of the KX-P1123i, the KX-P1191i 9-pin printer has been phased out. The KX-P1180i continues to be available and is one of the top selling dot matrix printers worldwide. If you are in the market for a dot matrix printer, give the KX-P1180i a look before buying anything else. It is one of the best for the money.

⇒ JASON BROWN SOFTWARE has officially released the hypercard-type software that you have been reading about over the last couple months and it is now called the LINKED STACK DEVELOPMENT KIT. It is available directly through Jason for \$25 U.S. postpaid or \$25 Canadian plus postage and applicable sales tax. We hope to have a review in the next issue as well as information about some other programs that are in the works by this company (We have heard that a project manager is in the works as well as a SmartBASIC V2.0 program which will require a 64K Memory Expander). Jason's new address and phone number is:

JASON BROWN SOFTWARE
86 Parliament St., Suite 3C
Toronto, Ontario, Canada M5A-1Y6
(416) 368-5354.



GRAFTEX SOFTWARE
6665 Timbers Dr.
Mobile, AL 36695

Dear ADAM Community,

Over the past four years I have enjoyed the association of many ADAM owners and users. I feel that I have made friends in many states and even Canada. Yet as with all good things there must come an end. Due to promotions where I work, lack of spare time, and need for a compatible system, I was forced to turn the local ADAM USERS GROUP over to others.

Unlike others in the ADAM Community, I did not want to disappear without an explanation. Also, I did not wish to leave questions concerning the software I have released through Graftex Software. Therefore, I am this date (April 1), releasing to the public domain all software produced by this company (SmartBASIC Construction Kit, Paint Palette, The Abominable Snowman, Dawggone Dawgs, etc.).

Joe Quinn / Graftex Software

FOR SALE BY OWNER

⇒ ADAM System, defective CPU with two good data drives and 64K M.E. - \$50; ADAM Printer - \$40; 5 1/4" 320K Disk Drive -\$100. Dozens of programs on tape and disk with manuals, etc. - \$30; 3 new printer ribbons, spare daisy wheel - \$15. Or everything for \$175 US. Contact: Lorne Duncan - 27-901 Kentwood Ln. - Victoria, B.C., CAN V8Y-2Y7 - (604) 658-5270.

⇒ Miscellaneous items for sale: 64K M.E. - \$20; 5 1/4" 320K Eve Electronics Disk Drive-\$125; 3 1/2" 720K Orphanware Disk Drive - \$150; Okimate 20 Color Printer with parallel interface and cable -\$100; Zenith Data Systems 12" Amber Monitor - \$25. Contact: Fred Kraus - 473 Glendale Rd. - Buffalo Grove, IL 60089 - (708) 537-1635.

⇒ Extra ADAM CPU and Printer for sale for \$125 plus UPS shipping charges. Both have checked out and seem to be in excellent condition, but the printer needs a new ribbon. Contact: Robert Goad - 8441 Flagstone Dr. - Tampa, FL 33615.

⇒ Complete ADAM System, Exp. Module #3 ADAM System with ColecoVision, 5 1/4" 160K Disk Drive, ADAMLink Modem, NEC JC-1225MA 12" Color Monitor, numerous accessories and supplies, original Coleco software on data pack, disk and cartridges, and all owner's manuals and additional books. Call or write to work out a deal. Contact: John Huber - 3120 Grape Creek Rd. - San Angelo, TX 76903-2330 - (915) 653-3610.

⇒ Complete ADAM System with Magnavox 13" Color Monitor (80 column) with additional Coleco programs and miscellaneous supplies and accessories. Contact: Phyllis Larmore - 2309 N. Evergreen Ave. - Arlington Heights, IL 60004 - (708) 255-8283.

⇒ Expansion Module #3 ADAM System with ColecoVision, Printer, Keyboard, original manuals and accessories as well as a number of Coleco software titles on data pack and numerous cartridges. Cost negotiable. Contact: Steve Critelli - 1421 E. Marlowe Ave. - Indianapolis, IN 46201 - (317) 634 9624.

ADAMCON 03 UPDATE

by ADAMCON 03 Convention Chairman
Dean Roades / 463 AUG President

In addition to the many verbal commitments we have for AC03, we have started to receive confirmed reservations. Norman Castro was the first and now it's a race to see who can be the first on their block to register. We have also been getting many letters with questions, suggestions and comments. It seems that a few things are not clear from the initial registration form and information. We will try to clarify some of these questions.

First and foremost, the agenda. The agenda outlined in the registration form is PROPOSED. Absolutely nothing is cast in stone. In order to provide the most wanted information, we suggested an agenda and asked that the registrants check the sessions they wanted to see. We will adjust the agenda based on these responses and attempt to secure qualified speakers. Several changes are already in the works. A 'Frugal Hacker' session has been proposed which was not in the original agenda. Some sessions, such as 'Advanced Hardware', may be narrowed down to include only a couple of hardware items. There is a lot we can do to help everyone get the most out of the convention.

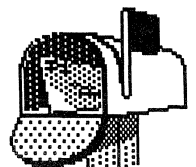
What will happen when we set the final agenda is that the sessions will be geared to the majority. It also means that some subjects will not be covered if there are only a few responses. Rather than just set an agenda, we are asking you to help us plan it.

Another topic of discussion is the format for the sessions. At AC01 and AC02 all delegate were invited to all sessions. Several commented that if a they were not interested in that topic, there was no alternative. Our goal is to schedule sessions that do not overlap. For instance: The people who will want to attend 'BASIC Programming for the Novice' will have little use for 'Advanced CP/M + TDOS'. The more popular sessions will be repeated so you have a better chance of attending one of them. There WILL be conflicts. We hope to minimize them so you will be able to see everything you want. We have scheduled the afternoon off on Saturday by popular demand. The majority of those who responded to MTAG's survey after AC02 want to keep this 'free' time. It is not necessarily intended for sightseeing, even though there are many things to see in Indiana. In the past two conventions, this time was spent with other ADAMites checking out the latest programs or hardware, trading PD software, or talking to ADAM suppliers about their products. We expect to have the meeting rooms open with an ADAM set up in each. It's a great opportunity to solve a problem or make a new friend. Having the convention run from Thursday evening to Sunday evening was a difficult decision. We knew that there would be some problems, but we felt that having two full days of convention on the weekend would entice more people to attend.

Please feel free to comment on any aspect of the convention. Our goal is to 'give the people what they want'. The 'final' agenda should be set by June and will be sent to all registered delegates and published through the usual channels of ADAM News Network and ADAM BBSs. There will be conflicts for some people but try to look at the convention as a whole. To paraphrase Lincoln:

We will satisfy some of the people all of the time; All of the people, some of the time; but there is no way to satisfy ALL of the people, ALL of the time. Please bear with us. We are genuinely trying to do what's best for ADAM.

Dean Roades
8522 Hohman Ave.
Munster, IN 46321





N.I.A.D. SPRING FEVER SALE

PRICES EFFECTIVE MAY 15th - JUNE 15th

LIMITED AVAILABILITY ON SOME ITEMS



1st & 3rd CLASS RENEWAL

○ THIRD CLASS (\$22.00) - FIRST CLASS (\$29.00) RENEWAL
 Receive one free Public Domain Volumes of your choice for Renewal

COMMERCIAL SOFTWARE

	WAS	NOW
○ ADAMTUTOR by TUTORWARE	\$9.95	\$5.00
○ AMERICA AT WAR (DDP) by A-WARE	\$9.95	\$5.00
○ AUTOBACKUP by WALTERS SOFTWARE CO.	\$17.95	\$11.95
○ BACKUP 3.0 (DISK) by M.M.S.G.	\$10.95	\$7.95
○ BASIC BONANZA by MARTIN CONSULTING	\$14.95	\$8.95
○ BASIC SYSTEM MGR, by PRACTICAL PROGRAMS	\$18.95	\$12.95
○ BLOCKADE RUNNER (DISK) BY INTERPHASE	\$15.95	\$9.95
○ CHESS TUTOR I (DDP) by TUTORWARE	\$9.95	\$5.00
○ CHESS TUTOR II (DDP) by TUTORWARE	\$9.95	\$5.00
○ CLIP-ART VIEWER by WALTERS SOFTWARE CO.	\$24.95	\$19.95
○ DINOSAUR DIG by PITMAN SOFTWARE	\$16.95	\$11.95
○ EASY COME, EASY GO (DP) by M.M.S.G.	\$19.95	\$12.95
○ FORMATTER II (DISK) by WALTERS SOFTWARE CO.	\$12.95	\$7.95
○ H.E.R.O. (DISK) by ACTIVISION	\$16.95	\$9.95
○ MIND OVER ADAM by PITMAN SOFTWARE	\$11.95	\$7.95
○ MisPELLER by WALTERS SOFTWARE CO.	\$18.95	\$9.95
○ MOONSWEEPER by IMAGIC	\$15.95	\$9.95
○ NOVABLAST (DISK) by IMAGIC	\$18.95	\$9.95
○ PHRASE PAK I by REEDY SOFTWARE	\$9.95	\$6.95
○ PHRASE PAK II by REEDY SOFTWARE	\$9.95	\$6.95
○ RamBOOT by WALTERS SOFTWARE CO.	\$19.95	\$10.95
○ REEDY ENTERTAIN. PACK by REEDY SOFTWARE	\$13.95	\$9.95
○ REEDY SOFTWARE LIBRARY by REEDY SOFTWARE	\$17.95	\$9.95
○ SmartDSK I by WALTERS SOFTWARE CO.	\$18.95	\$12.95
○ SmartDSK II by WALTERS SOFTWARE CO.	\$16.95	\$10.95
○ SmartTERM V1.02 by KEHOE SOFTWARE	\$15.95	\$9.95
○ SnapSHOTS VOL. I & II by WIZARD'S LAIR	\$10.95	\$6.95
○ SQUISH'EM SAM (DISK) by INTERPHASE	\$18.95	\$9.95
○ STAGE FRIGHT by REEDY SOFTWARE	\$13.95	\$9.95
○ STOCK MARKET GAME by IMAGE MICROCORP	\$15.95	\$9.95
○ STRATOZAP by ALLIED CREATIVE ENGINEERS	\$16.95	\$9.95
○ TOURNAMENT TENNIS (DISK) BY IMAGIC	\$18.95	\$9.95
○ U-MATCH-EM by PHOENIX 2000	\$12.95	\$8.95
○ WORLD CAPITALS (DDP) by PARALLEL SYSTEMS	\$9.95	\$5.00

HARDWARE, SUPPLIES & BOOKS

○ FROM BASICS TO BASIC	\$14.95	\$11.95
○ BASIC BASIC PROGRAMS FOR THE ADAM	\$8.25	\$4.95
○ N.I.A.D. PRODUCT REVIEW BOOK	\$14.95	\$9.95
○ ADAM PRINTER POWER SUPPLY	\$59.95	\$39.95
○ ADAMnet CABLE (7ft.) by COLECO	\$2.95	\$1.00
○ TAN HAND CONTROLLER by COLECO	\$5.95	\$2.95
○ 256K RIGHT DIRECTORY DATA PACK	\$1.00	\$.75

N.I.A.D. NEWSLETTER BACKISSUES

○ NEWSLETTER BACKISSUES \$1.00 \$.50
 Choose from any of the published backissues of the N.I.A.D. Newsletter EXCEPT FOR ISSUES #2, 4, 5, 6, 7, 9, 10, 12, 14, 15, 19, 20, 23, 42, 55, 66/67, and 74. Remember that starting with the July / August 1986 Issue #19/20, all issues for July and August as well as December and January are combined issues.

MEMORY EXPANDER SPECIAL

- 1) Buy a 64K Memory Expander at the standard retail price of \$34.95 and receive SmartDSK I on disk or data pack absolutely free. SmartDSK I is an update for SmartWRITER which uses any memory expander as a high speed ramdisk along with options to use the ADAM Printer or a dot matrix printer. While supplies last.
- 2) Buy a 256K MegaRAM Memory Expander at the standard retail price of \$119.95 and receive RamBOOT on disk or data pack absolutely free. RamBOOT sets up four different programs on the ramdisk (SmartWRITER, SmartBASIC V1.0, SmartBASIC V2.0 and ADAMCALC) and allows one to switch between the four programs almost instantaneously with one key press. While supplies last.

ORDER SIZE SPECIAL

NOTE: Your order must be placed via phone-in between the hours of 1:00pm and 6:00pm on the specified dates. Membership fee, shipping & handling as well as tax may not be applied to the total cost of the purchase. Only one of each Sega unit is being offered, so be quick to insure that you are the one who places an order first.

- 1) The first person to place an order on Thursday, May 30, 1991 which exceeds \$300.00 will receive absolutely free a SEGA 8-BIT VIDEOGAME BASE SYSTEM. This Sega system comes with the Control Deck, two Control Pads, Power Transformer, TV Hookup and Hang-On game.
- 2) The first person to place an order on Friday, May 31, 1991 which exceeds \$400.00 will receive absolutely free the SEGA 8-BIT VIDEOGAME MASTER SYSTEM. This system comes with the Control Deck, 2 Control Pads, Sega Light Phaser, Power Transformer, TV Hookup and two games: Hang-On and Safari Hunt.

SEGA 8-BIT GAMES SPECIAL BUY 2 - GET 1 FREE

NOTE: Free choice must be of equal or lesser value than either of the first two Sega game titles which will be purchased.

○ ALF	\$17.95
○ ALTERED BEAST	\$24.95
○ BLADE EAGLE 3-D (requires Sega 3-D Glasses)	\$19.95
○ CAPTAIN SILVER	\$17.95
○ FANTASY ZONE: THE MAZE	\$15.95
○ GOLVELLIUS	\$23.95
○ KUNG-FU KID	\$15.95
○ MARKSMAN SHOOTING & TRAP SHOOTING	\$15.95
○ MIRACLE WARRIORS	\$21.95
○ PENGUIN LAND	\$21.95
○ R-TYPE	\$24.95
○ RAMBO III (requires Sega Light Phaser)	\$23.95
○ RAMPAGE	\$24.95
○ RASTAN	\$24.95
○ SHINOBI	\$19.95
○ SHOOTING GALLERY	\$15.95
○ TIME SOLDIERS	\$19.95
○ VIGILANTE	\$19.95
○ WANTED	\$17.95
○ WHERE IN THE WORLD IS CARMEN San DIEGO	\$19.95
○ WORLD GRAND PRIX	\$15.95
○ Y'S: THE VANISHED OMENS	\$24.95
○ ZAXXON 3-D (requires Sega 3-d Glasses)	\$19.95



SmartWRITER WORKSHOP

Tips, Tricks & Things to Avoid

by Bill Reynolds

The following information has been extracted from the following ADAM supporters and the author: Alan Neely - ADAM Link of Utah Newsletter, Keith Marner - United Kingdom AUG and appeared in NIAD, Don Zimmerman - Appeared in NIAD, and Faye Deere - Appeared in Emerald Coast AUG Newsletter AUGER.

Use the arrow keys (up, down, left, right) and the HOME key simultaneously to move a screen at a time in a document. The HOME and left or right keys will take you to the left or right edges of the screen. If you are in the moving window format, it will take you several repetitions to reach the right edge. The HOME and up or down keys will jump one screen up or down and the cursor will stay in the same column and there will not be a 2-3 second pause. Using the HOME key only will jump one screen, move the cursor to the left edge, and pause for 2-3 seconds.

The same keys can be used to HI-LIGHT or erase HI-LIGHT for large areas.

After pressing the PRINT key, the PRINT HI-LIGHT SmartKEY will print the highlighted text. Therefore, if you do not want to print an entire document, use this feature.

Use HIGHLIGHTING to separate and combine documents. If you have a file and want to use part of it in another document, first save the section of the first document that you want to include in the second. Move the cursor to the start of the section to save and hit SmartKEY IV (HI-LIGHT) and use the arrow keys to mark all the words / lines you need to save. Use the MOVING WINDOW mode to HI-LIGHT several lines at a time. If you have several paragraphs, use the HOME and arrow keys explained earlier in this chapter. If you HI-LIGHT a word or line by mistake, hit SmartKEY V to erase the HI-LIGHT mark. After HI-LIGHT is completed, press the STORE / GET key, and then SmartKEY III (Store HI-LITE). Name the file and save to tape or disk. The HI-LITE text is now a separate document.

To combine two documents, GET the first document from tape or disk, move the cursor to the location you want to place the second document and INSERT a RETURN there. Now press STORE / GET and select the document you want to add to the first one. It will be placed where the cursor was located. SmartWRITER will default to the name of the second file added. Rename the combined file if necessary.

Many people prefer the MOVING WINDOW function because you can move the cursor around quickly and see a whole screen of data. To access the MOVING WINDOW mode, press SmartKEY II, then SmartKEY VI, then set the right margin to 46. This will allow an entire line on the screen at once. Do not forget to reset the right margin to 70 (or your choice) before printing the document. The MOVING WINDOW must be used when entering columns of data to line up correctly. Remember to put a carriage RETURN at the end of each line by pressing the RETURN key. There is no known method to generate an eighty column screen with SmartWRITER. Maybe a hardware guru out there can come up with a solution.

When you combine two files, ADAM will take on the attributes of the second file. This causes a problem with page margins and tabs. One way to maintain different margins is to use INSERT / DELETE to put a hard carriage RETURN for each line. Another way is to save each file under a different name and enter an END PAGE marker on the last line of the first document. Print the document, clear the screen, and load the second document with different margins or tabs. Set the top margin to

one and print the second document. You will probably find using the MOVING WINDOW mode is easier to try the above technique.

The following table shows which attributes change when you merge two files and those which do not change.

ATTRIBUTE	BOOT UP	DEFAULT	CHANGE?
Horizontal Margins		Left=10, Right=70	yes
Vertical Margins		Top=6, Bottom=60	yes
Tabs		Every 5 spaces	yes
Type of paper		Letter (11 inch)	yes
Line Spacing		One	yes
Screen Color		Blue	no
Sound		Full	no
Format		Typewriter	no
Name of File		None given	on
Boot			yes

A new file will always be placed on the next line below the cursor. To place a new file above the present file, INSERT an extra carriage RETURN at the top of the original file before getting the second file. If desired, you can move the new text by HI-LITE MOVE to another location.

Have you ever needed to print the cent sign in SmartWRITER? The first step is to store the following one line program under SmartBASIC. Note there is one space added after pressing the ESCAPE / WP key because the HI-LITE begin and end operation can not MOVE / COPY only one character.

1 PRINT "(ESCAPE/WP)(SPACE)"

Store this under a name you can remember. Boot SmartWRITER and get the one line program. Next type in your text or get an existing file. Next copy the top line to where the cent sign is wanted. After copying the cent sign you may backspace to erase any extra spaces. When you are finished with your document, DELETE the top line and print out your document.

To change Horizontal Margins:

- Press SK I (Margin / Tab)
- Press SK II (Horizontal)
- Press SK III (Left) or SK IV (Right)
Use the left or right arrow keys to move the margin left or right
- Press SK VI (Done)

To change Vertical Margins:

- Press SK I (Margin / Tab)
- Press SK III (Vertical)
- Press SK III (Top) or SK IV (Bottom)
Use the arrow keys to increase or decrease the pages top and bottom margins.
- Press SK VI (Done)

The ADAM default page length is 66 lines to a page. Make use of the ability to change margins quickly and easily to fit a long document onto one page. Experiment to get rid of that second unwanted page. Remember, stored documents always maintain the margins in effect when saved. Change them as needed.

To Change Tab Settings:

- Press SK I (Margins / Tab)
- Press SK IV (Tab)
Use the arrow keys to move the tab marker on the ruler.
- Press SK III (Tab Set)
Note: This establishes a permanent tab stop until changed.
- Press SK VI (Done)

To Remove a Tab Setting:

- Press SK I (Margin / Tab)
- Press SK IV (Tab)
Use arrows key to move to unwanted tabs
- Press SK IV (Tab Clear)
Note: one tab only To remove all tabs, Press SK V (All Clear)
- Press SK VI (Done)

To Select Color, No Sound, Partial Sound, or Full Sound:

- Press SK II (Screen Options)
- Press SK II (Color Select), SK III (No Sound), SK IV (Partial Sound), SK V (Full Sound)
- Select personal options and then press SK VI (Done)

Every time you begin a new file, type the first sentence and then save your file under a descriptive ten character or less name, clear the workspace, and then get the new file from the disk or tape. You must do this or the message "THAT FILE ALREADY EXISTS" will appear and stay there until you press the ESCAPE / WP key when you try to save a document the second time. If this confuses you, just remember to type the first sentence, SAVE the file, CLEAR the workspace, and GET the file back again. After you have done this, store your file often to avoid retyping your work (ADAM lockup or power outages) Press SAVE and SK VI and ADAM stores your file under the existing name. To change the name, type in the new name and press STORE.

Limit documents to approximately seven pages if you have the standard ADAM memory and twenty pages with a 64K expander. You can go more pages with a larger expander (ie: 128K, 256K, 512K ect.) but you risk losing a lot of work if something goes wrong. On long documents, put an END PAGE marker at the end of each file. Combine each file as discussed elsewhere in this chapter.

NO MORE ROOM / CANNOT WRITE TO THIS FILE DISASTER - The worst possible problem when you try to save a document is not to have enough room on your disk or tape or have a bad block on the tape or disk. SmartWRITER will respond with a NO MORE ROOM or CANNOT WRITE TO THIS FILE message and tells you to hit the ESCAPE / WP key (Make sure you remove your media before doing this), and proceeds to begin restoring files. The vertical margin begins to cycle and will NEVER stop, the keyboard will lock, and there is no alternative but to reset the ADAM and lose everything you have typed since the last SAVE operation. To minimize the loss, SAVE YOUR FILES OFTEN!!! You can monitor the amount of space left on your media by doing a catalog in SmartBASIC. Blocks can be checked on disk using the VERIFYING after you format. I know of no way to verify blocks on a tape unless you use some Public Domain or Commercial Software. To utilize more room on a tape or disk, consider purchasing some type of squeeze program which removes deleted files from the directory and frees up more space. Remember to SAVE YOUR WORK OFTEN.

Do you want to get to the end of a long document fast? Use the SEARCH function and look for a series of characters you are sure are not duplicated in the document (@@@, ###, &&&, ect.) and when ADAM can not find the characters, it will say "CHARACTERS NOT FOUND" and you will be at the bottom of the document. This is much quicker than using the HOME and arrow keys discussed elsewhere in

this chapter. ADAM searches only below the cursor so it is impossible to get to the top of your document using SEARCH. It is usually quicker to SAVE your work, CLEAR the workspace, and reload the file. Sometimes SEARCH has a problem searching past an END PAGE marker. Remove them if it causes you a problem. Search can also be used to verify spelling on unique words (input the first few letters) or to replace abbreviations put in a document. Use the REPLACE ALL command to correct all places where the unique word or abbreviation was used in the document.

After you turn ADAM on, it defaults to the Electronic Typewriter mode. Press the ESCAPE / WP key to enter SmartWRITER. Press the Control Key and R Key simultaneously and the number R80 should appear in the SmartKEY Block IV on the screen before pressing ESCAPE / WP. If you have a lower number, you should contact a hardware vendor and purchase a R80 version because earlier versions have numerous bugs. Also some programs will not work with earlier versions. You can also update SmartWRITER's revision level by using the DISK MANAGER software that comes with disk drives. The software contains R80 versions of SmartWRITER. Once loaded, press ESCAPE / WP key, and the latest version will be installed. You must do this at the beginning of each session, because when you turn ADAM off, the information is erased.

Remember these rules when underlining - Do not set the left margin to one - If the left hand column must be set to one, do not start any underlined text following a blank line in column number one - Start the underlined text in column two or greater - If the left hand margin must be set to one and underlining must start in column one following a blank line, place a Control plus 6 plus a space or a SUB / SUPERSCRIPT plus a SUBSCRIPT and a space and then a RETURN in both cases. This will also cause SmartWRITER to skip only one line at each blank line instead of the normal 1 1/2 lines.

Carriage Return Buzz - If you attempt to place a carriage return at the end of a line and you hear a buzzing sound, it means there are characters to the right of where you are trying to put the carriage RETURN. These characters can be spaces, tabs, or control plus another key which you can not see. To solve this problem, you can advance the cursor to the right a few spaces and then press the BACKSPACE key a few times and then press the carriage RETURN. Another solution is to use INSERT key to put the carriage RETURN where you want it. You can also use the INSERT key to put a carriage RETURN anywhere in the document (ie: If you want to separate sentences or paragraphs).

To get correct pagination (page numbers) store the first page of your document in a separate file by itself. Then you can print your file out with no page number and start the rest of the file beginning with page two.

Sometimes vertical margins will not take the first time and must be redone a second time. If after changing the vertical margins, there is no hesitation before the regular SmartKEYs appear, the vertical margin was not changed. Press SK I, then SK III and after a hesitation (you will see the vertical margin marker going up and down), the new margins will be in effect.

If you need to delete a section of a saved document, always use the DELETE key and not the CLEAR key. DELETE allows you to continue using the original file name while clear makes you type in a new name.

If you need to backup and retype over an error, use the left arrow key and not the BACKSPACE key. If you press BACKSPACE and then the UNDO key accidentally, your ADAM can lockup.

If you use your backspace key instead of the DELETE key, you can get everything to line up again by pressing the INSERT key and the SK II (Done). This is faster and there will be no annoying gaps in your text.

DELETE has the same effect but involves highlighting text to be deleted. If you are entering data and want it to be in a certain spot, you must have a carriage RETURN at the end of the line to "hold" the line in place. Also if you want to indent a line, the previous line must have a carriage RETURN at the end of it.

A good method to stop paper from sliding in the printer is to remove the printer cover and place one 3 inch (unstretched) rubber band on both the right and left side of the cover. Replace the cover and lift each rubber band to stretch over the tabs that stick up on the paper hold down bar. Lift the rubber bands when the bar must be raised for paper adjustment.

SmartWRITER recognizes only one disk drive. Do not try to utilize the second disk drive if you have one. SmartWRITER will not recognize your disk drive unless you turn it on before you turn ADAM on.

ADAM adds one extra carriage RETURN when a file is saved to tape or disk and removes it when the file is retrieved. ADAM uses the extra carriage RETURN as an END of FILE locator in case no data was entered, as in the case of a dummy file. This may be another reason ADAM may scramble text at the end of a long file sometimes.

If you attempt to clear the workspace and hit the keys too quickly, you can lockup the system or the sound will disappear. When this happens, save your document, turn your ADAM off and back on to the default settings. To prevent this from occurring, just wait a second between hitting the keys required to clear workspace.

The 11 or 14 above the vertical margin scale tells you what size paper you are working on (8 x 11 or 8 x 14).

Have you ever wanted to make DATA that originates from SmartWRITER accessible to SmartBASIC? Start with SmartBASIC and create a dummy file. To create a file accessible to SmartWRITER and SmartBASIC, it must be an "A" type. You can create such a file using the following program:

```

10 REM A FILE CREATOR
20 PRINT CHR$(4); "OPEN SAMPLE"
30 PRINT CHR$(4); "WRITE SAMPLE"
40 PRINT
50 PRINT CHR$(4); "CLOSE SAMPLE"
60 END
    
```

After running this program, the file name SAMPLE may be edited via SmartWRITER to contain data readable by SmartBASIC. If your sentences are too long, you can not use INPUT statement. In such cases, you will have to use the GET statement.

When you are getting files from tape or disk, watch the white marker on the left scale. Each sweep of the marker as it scans from top to bottom is equal to one page of text.

In the MOVING WINDOW format, DELETE, INSERT, and MOVE / COPY can cause a temporary text displacement on the screen. Pressing the HOME plus the left arrow will re-align the screen.

Bold Typing parts of text is possible with the original ADAM Printer. First print the text. Now return the sheet of paper to the beginning of the text (use the knurled knob on the printer). Press HI-LITE and mark all the text to be typed as boldface. If you need to skip lines between bold typing, you must tell ADAM by HI-LITING at least one space per line to be skipped. Press PRINT and then PRINT HI-LITE. Experiment to perfect.

Here is a Label Making Process that only works in SmartWRITER:

- Press SK I (Margin/Tab)
- Press SK II (Horizontal Margin)
- Press SK III (Left)
- Use left arrow to take margin to one
- Press SK VI (Done)

Now enter your data. Anywhere you need a blank line, including the space between labels do the following:

- Press SK VI (Super / Subscript)
- Press SK V (Subscript)
- Press the Spacebar once
- Press SK VI (Done) followed by a RETURN

An easy way to repeat the subscript character throughout the list of addresses is to make up one subscript character and then use the COPY function to repeat it throughout the list.

The controller keypad can be used to input numbers and the joystick can be used to move the cursor in SmartWRITER.

With multiple block DIRECTORIES, SmartWRITER will display the first part of the directory. To see the rest of the directory do the following: Move the arrow to the bottom right file name and press the down arrow. The drive will run to load the

second part of the directory.

To create your own two block directory, use a block utility program to POKE a 2 into location 25308 (POKE 25308,2 followed by the RETURN key). Then INIT your new datapack or disk.

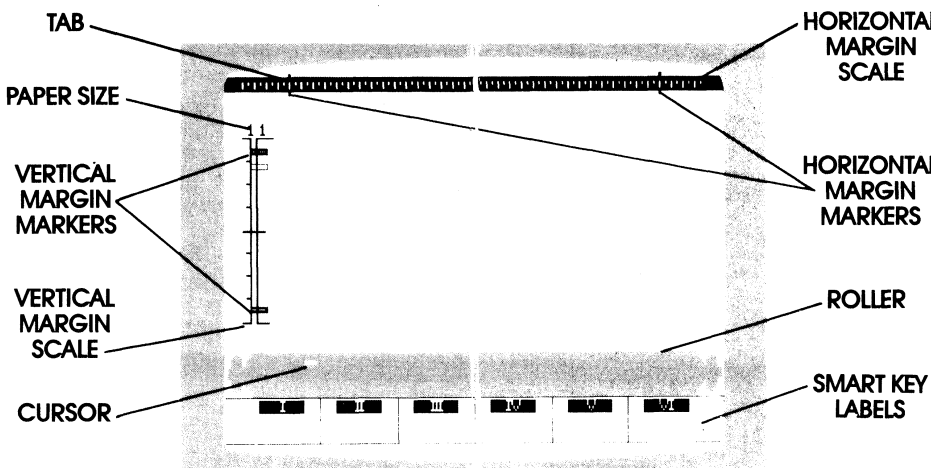
You can delete files from SmartWRITER. First press the GET key and move the arrow to the file to be deleted. Then press the DELETE key. Presto it is gone from the directory.

Always save your document before you try to print it. On rare occasions, ADAM may lockup and not allow you to save your work.

Use the UNDO key to reverse any unwanted commands such as CLEAR. Press UNDO immediately before you press any other key.

This article is also going to appear in the 'ADAM SURVIVAL GUIDE'.

ADAM™ SmartWRITER™ Easy Reference Guide





SmartBASIC WORKSHOP

Machine Code in SmartBASIC

by Mel Ostler



EDITOR'S NOTE: *This is the first of a planned series of articles by Mel Ostler which were to appear in the Sprite Chaser newsletter, which is no longer published. We will do our best to try and continue this series by Mel, but if we can't for some reason we would recommend the purchase of Mel's books: From Basics to Basic and his Hacker's Helper series: Learning to Read with ADAM Vol. I, Learning to Write with ADAM Vol. II and Learning to Draw with ADAM Vol. III.*

I have been asked to do a series of articles for the newsletter concerning the art of entering machine language programs and CALLING them from SmartBASIC, and using them in turn to CALL EOS subroutines for the convenience of the user.

I agree that this is a very handy thing for even the beginning programmer to be able to do, for one is not long at the task of programming in Basic before he realizes that there are some things which he wants to do which one of the EOS subroutines have already been designed to do, if he just knew how to get them to work for him.

As an example of this; I was writing a program several years ago on my ADAM to take the daily transactions of a small businessman, (and I mean small, not what the "Small Business Administration" calls small), and to take the input directly from check registers, invoices, receipts, bills, etc. and to save them in a coded file. This program could easily be used daily by the businessman to file all of the information from business activity for the day.

Then other programs would be run against this ledger information to tell the owner at any point in time where he stood relative to debits or assets, individually or totally, net worth at any point in time, the financial status at any point in time for a job underway by a contractor, or any one of a myriad of other kinds of information that might help that businessman sleep better at night.

In the process of writing the program I found that the system by which ADAM's Basic stores information on disks, (required for rapid access), was very wasteful. Looking through the programs of the EOS, I found that it was capable of storing the information about anyway that I wanted, if I selected the correct subroutine or combinations thereof.

In the process of doing my own CALLING I could get one disk to accept about 100 times as much of the limited amount of information that the small, small businessman would enter daily.

There are also many ways to make ones own utility programs, and speed up regular programs if one can access the EOS directly.

And perhaps the most intriguing of the things that can be done, is that one may access the video screen and sound generator, to give special, unique effects to his programs.

And finally, one of the best reasons that one might want to learn more about the accessing of the routines of the EOS, and the setup and operation of the video chip and sound generator; is that although these things are constantly being improved, more advanced models of these programs and hardware items generally rely upon models presently being used, and are therefore, more often than not an advancement of present things, as opposed to brand new, radically different systems or devices. Thus by the learning of the things available to one in the ADAM, (a very straight forward and well planned system), one prepares himself adequately for his future programming efforts if and when he moves on to other computer systems. It seems to be a kind of win / win

situation, as most types of leaning tend to be. But first we need to lay a bit of groundwork so that as many readers as possible can be included in the understanding of these articles.

For some the things said here may be "old hat", but please bear with the discussion in-as-much as there may eventually be something which may be of benefit to all.

Similarly there may be some who would feel that they don't quite understand some thing or another, or perhaps several things. If this happens, please write to the editor, or directly to me, and we'll / I'll answer either in the next article, or by personal correspondence. I want all who wish to understand, to be able to understand and to be eager to share what they discover also. So correspondence is definitely invited.

Let me say at the outset, that those who have finished the first part of the "HACKERS HELPER" books, "PART I, A BEGINNER TEXT FOR NEW HACKERS", and have done fairly well at understanding it, should have little difficulty in following what we will discuss in these articles.

If the reader has read and been able to follow Volume I of the "HACKERS HELPER, FROM BASICS TO BASIC, LEARNING TO READ/ WRITE / DRAW WITH ADAM", he will certainly not have any difficulty, and may in fact be as qualified as I to write this series of articles. However, there are many who have learned the fundamentals which we will be discussing from other sources, and the above mentioned publications are in no way prerequisites to the reader. While on this subject though, when we need to discuss something which is readily found in print, whether in the above mentioned publications or in some other publication, I will not attempt to repeat in the articles what can be found other places. I guess that what I am trying to say is that programmers ought to build a library of reference books with time, and learn what can be found and how to find it in each one of his books.

And so let us begin with some definitions. We will define terms from time to time as we go along in the articles, and today we have already used the letters EOS with the assumption that all readers would certainly know what it means.

EOS, (Extended Operating System), is the operating system originally designed for the ADAM computer. It is stored in a ROM, (Read Only Memory), chip within ADAM itself, and loads into the upper part of the standard 64K RAM (Random Access Memory).

OPERATING SYSTEM, is a group of subroutines, not necessarily interdependent, though some are, which do some of the chores which the designers of a computer know will have to be done by the computer's microprocessor. For example, generally speaking, a computer must have a keyboard type of input for the user to be able to communicate with it. Therefore, an Operating System could logically be expected to contain routines to transfer information from the keyboard to the RAM.

Similarly a computer must logically have at least one type of output device through which it can respond to the user, such as a printer, and / or video monitor or TV. The Operating System can be expected to contain programs to operate such output devices, etc. (note that the words Subroutine, Routine, and Program are constantly interchanged, and the reader should not try to attach too much importance to this. It is impossible to decide how long a subroutine should be to qualify as a routine. And it is equally impossible to define a limit to the length or complexity of a routine, so that anything larger or more complex than

that can be defined as a program).

BASIC, as used in the articles will refer to the "SmartBASIC" program which was delivered with the purchase of the new ADAM. "SmartBASIC" is the registered trademark name of the version of the Basic Language Programming program developed for Coleco by Lazer MicroSystems Incorporated. It is almost identical to all other versions of Basic written near the same time as it was written for Coleco, but fits the machine language of the ADAM microprocessor, (the Z80), and is configured to be stored initially from RAM address \$0100 to \$6B0f, from whence it expands itself as it does additional self set-up, and later expands again when it receives particular instructions. The elements of the Basic program remain stored at the initial RAM locations, with only limited exceptions.

And now to begin our discussion, let us try to understand a little about the Basic which we are going to be using. We went through the process of loading (reading), Basic into memory in the "LEARNING TO READ WITH ADAM" Volume I of the "HACKERS HELPER". Let us get to know a bit about Basic by starting at the point where we left off there. Basic is loaded from the media (the disk or tape which we used); and then the last instruction of the "boot" routine which caused the "loading" to take place, set the PC register of the Z80 microprocessor to the value \$0100, or 256d.

51261:\$C83D E9 JP (HL)
where HL had just been loaded with the value of \$0100

This means that the microprocessor will take it's next instruction from that address in RAM. Since this is the lowest address at which Basic was loaded, the Z80 begins to get subsequent instructions from the loaded Basic program.

00256:\$0100 C3 9D 3E CALL \$3E9D

The first instruction is the 3 address CALL instruction to \$3E9D (16029), three addresses less than the beginning of the "central loop" as it is referred to in Hinkle's "HACKER'S GUIDE VOLUME II". The instruction encountered at these addresses is another CALL to \$4061, which is an address within the region of Basic later to be used as the "Input Buffer".

16481:\$4061 D9 EXX
16482:\$4062 06 00 LD B,00
16484:\$4064 D9 EXX

This is the set-up routine, and it continues through subsequent addresses, through the regions of RAM later to be used for the "Length Of The Crunch Code Buffer", and ends in the mid part of the region later to be used as the "Crunch Code Buffer".

I include the disassembly of the regions being discussed, as they are discussed, but the reader would do well to get the disassembly of basic complete, both as it sits in his RAM as he uses it; and a disassembly of Basic as it is on the media. There are some important differences as the paragraph above indicates. A dump of the two forms of Basic is also handy, although I will indicate for those not interested in obtaining such, the values found wherever the discussion requires it. These things really should be part of his reference library. Upon arriving at \$4061, the alternate B register is loaded with a \$00, and saved aside as alternate. We will see the reason for this at a later time, so make a mental note of it. This takes us through address \$4064.

16481:\$4061 D9 EXX
16482:\$4062 06 00 LD B,\$00
16484:\$4064 D9 EXX

Instructions \$4065 through \$4068 change the jump instruction at \$0100, by which we arrived at this point, to a jump instruction in the Central Loop.

16485:\$4065 21 A3 3E LD HL,\$3EA3
16488:\$4068 22 01 01 LD (\$0101),HL

This is logical enough since there will never again be a need to go through the set-up routine again, and in fact, this routine will soon be destroyed by input from the keyboard by the user when control is finally given to him. Instructions \$406B through \$406F are two set-up instructions for a DJNZ loop, (ending at \$408C), which we shall analyze in the next article.

16491:\$406B 06 1F LD B,\$1F
16493:\$406D 11 75 3F LD DE,\$3F75

To conclude this article, I want that the reader should note that the CALL instruction changes the PC register of the Z80 to the address of the instruction being CALled. This is exactly what is done when a CALL is issued directly from Basic. The Basic program does some subroutine gymnastics which we will discuss later, but finally issues a machine language CALL for the Z80 to the address which we specify in the Basic CALL instruction.

For example, if i write in the immediate mode:

CALL 0 (this is the first address in RAM)

in the program, Basic will hesitate one split second, and return control to me. That is because the instruction I gave for Basic to go through it's series of internal instructions and ultimately set the Z80 PC register to \$0000 causes it to do just that. But when the Z80 reads the instruction at \$0000, it sees a RETurn instruction, which returns the Z80 to the Basic instruction set. Basic then interprets this action as the end of the routine, (or subroutine, whichever you wish), that I CALled (Why the RETurn instruction is located at this location is obvious enough, but is not within the scope of discussion).

And so the Basic program CALled the instruction as I requested. If on the other hand I CALled the address:

CALL 64743

in the program, Basic would again turn the CALL over to the Z80 microprocessor. The Z80 would go to the routine in the EOS, and would read the instructions which put the SmartWRITER program into effect, from which there is no return to Basic. If you try this one you will have to reset the computer to get back to Basic.

And so you see that one may CALL any address in RAM from Basic that he wishes, but he must live with the consequences. The computer will do what you tell it to do, and if not careful, you will be required to reset to get back to Basic.

Some interesting CALLs that one may use directly are:

CALL 63538 which will cause the computer to go through the computer reset process without pulling the computer reset switch. If your Basic media is still in the drive, it will reload the Basic program as if you had manually pulled the reset switch.

CALL 64655 which will cause the system to recognize a disk drive that wasn't turned on when Basic was loaded, but was later switched on.

These are most of the CALLs to EOS that can be used without prior Z80 register set-up. Many of the others, and the way to set them up and use them, will be discussed in later articles.

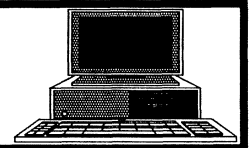
We have made these CALLs in the immediate mode, but CALLs will be made more commonly within a Basic program. These are examples with which you may use to test the CALL command from Basic, which we will be using considerably in the articles.



CP/M 2.2 & TDOS WORKSHOP

Public Domain and Reviews

by Doug Rosenvinge



In this Article

- WordStar 4.0 price change
- FORTH-83 V2.0, N.I.A.D. CP/M PD Disk CNDV-55
- FILEBASE, N.I.A.D. CP/M PD Disk CNDV-56
- Future directions - response to mail.

WordStar 4.0 Ordering Update

★ ★ ★ ★
 WordStar International is no longer selling WordStar 4.0 directly to the consumer. The Distribution is now being handled by Trio. Their phone number is (716) 892-9630. Along with this change there has been a large price increase. Trio will upgrade your WordStar 3.3 to WordStar 4.0 for \$120. If you want to buy WordStar 4.0 for the first time (no upgrade) they are charging \$180. They will convert the disks to almost any format. They also include a copy of *WordStar 4.0 Made Easy*. I am surprised by the size of the price increase. WordStar International had only charged \$89.

My recommendation: If you want WordStar 4.0 or 3.3 and you don't want to pay these prices look for a used copy among your friends, leave messages on BBS's, or watch user group newsletters for notices of people who want to sell their copies. You may get lucky and find one at a more reasonable price. Remember the disks don't have to be in the ADAM CP/M format, there are conversion programs that will enable almost any 5 1/4" floppy format to be converted to ADAM CP/M format. So if you find WS4 or WS 3.3 for Kaypro, Osborne, or other major CP/M computer it can probably be converted for your ADAM.



N.I.A.D. P.D. CNDV-55 A & B

Forth 83 V2.0: I suppose we could call this a "Tale of Two Forth's" but I will resist the temptation. Recently I received this disk containing Forth-83. As I checked the directory the name of the program and its filesize looked familiar. It seems that on disk 12 we have version 2.10 (June 1, 1984) and on disk 55 version 2.0 (April 1984). Now you might ask "Why would the librarian put an older version in the library?" The older version contains 2 companion libraries of routines that are absent from the version on disk 12. If in Forth you issue the command VIEW and you only have disk 12 you will get an error message that Forth could not find the file it is located in. On the other hand, if you load the same version of Forth (2.1) and have the kernel80.blk on your logged disk the VIEW command will work. Rightly or wrongly I have concluded that the program on disk 12 is a minor update to that on disks 55 A & B and in order to use the Forth on disk 12 fully, you need disks 55 A & B. Disk 55 also has a documentation file which will explain some commands, memory map, and the underlying philosophy of this Forth-83 version. Disk 55 contains these files: F83.COM, KERNEL80.BLK, UTILITY.BLK and README.80. I can't comment on the quality of this program as I do not program in Forth.



N.I.A.D. P.D. CNDV-56 A & B

FILEBASE is a unique database manager. It works with both fixed length and variable length records. The data structure is simply comma delimited ASCII. This means that its databases can be read and manipulated by BASIC, WordStar, and other programs that can read ASCII files. FILEBASE is shareware, that is, if you like it you are honor

bound to register it with the author. He offers 2 levels of registration, \$15 that allows you to use his program and provides you with the latest disks, and a full registration of \$30 which gives you the latest disks, additional program modules: FBACCESS (faster record retrieval), PROFLOSS (produces a 14 column profit/loss statement from check register), SETPRINT (sets up printer attributes) and a 128 page bound manual. FILEBASE is available in both CP/M and MS-DOS versions.

What it Does: FILEBASE allows you to enter information into fields of undetermined length. This means that your records take up less room on the disk. FILEBASE allows up to 40 fields of 255 characters per record. It has some special field types that allow first name, last name to be in the same field but still extracted as if they were separate from each other. The same is also true for zip codes. Databases may be sorted, indexed and merged. Subsets of records can be excluded or written to a new file. New databases may be created from old databases, new fields added or fields subtracted. Record lengths can be made longer without losing data. Variable length records can be converted to fixed length records and vice versa. Fixed length records can be accessed by a key field. Any field can be a key field and key fields can be accessed by searches that include greater than, less than, equal to, and string searches. Records can be printed for labels, envelopes, tabular form, and other layouts. The program, is menu driven, provides excellent error trapping and online help.

The above only hints at the capabilities of FILEBASE. I find the sorting part of the program the most useful. Remember, FILEBASE databases are simply comma delimited records. No special structure is used. This means that any data file that is comma delimited can be sorted and manipulated by FILEBASE. For example, if I used OpenFILER (a program I have written) to convert a SmartFILER database and I want to use it with WordStar for mailmerge, but I want to print the records in zip code order, all I have to do is run Openfiler to produce the EOS data file, boot CP/M and use the ADAM.COM program to bring it into CP/M. Once in CP/M I would use FILEBASE to sort the database on the ZIPCODE field and then I would have a data file ready to use with WordStar. FILEBASE can handle more than SmartFiler (except for the text field), doesn't look as pretty on screen, and is a little slower due to the various program modules that are loaded and run.



Some features you won't find in many other places. One of these features is that some fields can be the result of math functions. I haven't tried this feature myself. Printed reports can include a comment line entered at the keyboard at the time of printing. You also have the option of advancing the page a number of lines after each record is printed. Searches are very rapid and you may combine a number of criteria in a search. The menu system presents you with a number main headings. Under each main heading one or more functions is listed. After selecting a heading the program module is loaded and a series of questions is asked to determine what you want to do. Each response is tested by the program as it is typed in. If you give an invalid response you are warned immediately and are given a chance to enter a new one. For example: You decide you want to sort a file. you pick that option from the menu. FILEBASE will then ask for its name. As soon as you are done typing the name FILEBASE checks the directory to see if it exists. If it doesn't it will ask you to try again. If it does exist FILEBASE will continue with the processing, checking the contents of the file, determining its structure and size. After this has been finished it will then ask any other questions it needs answered (such as field on which to sort and name of sorted file.) The advantage to this approach is that

you don't end up issuing a long complicated command as you might in dBASE II only to have it fail because of some field/file name error or error in typing in the command.

What it isn't

FILEBASE is not a dBASE II. It does not have a command language or sophisticated report generator. It is a good general purpose database manager especially useful for mailing lists, phone lists and the like.

FILEBASE is not fast, unless you have high density disk drives or a large (at least 256k) RAM disk. It requires all of its program modules to be on the default disk so if you only have standard Coleco disk drives you will have to use a datapack for FILEBASE. Program modules take time to load, the largest is about 45k. The minimum setup you should have is 2 tape drives. A better setup would be a large memory expander and disk drive.

FILEBASE is not a report generator or mailmerge program. It has some of these capabilities but it really is designed to manipulate files that can be used by other programs that specialize in mailmerge and the like.

My recommendation: FILEBASE is a worthwhile addition to any CP/M library. If you don't have a CP/M database manager then you may want to start here. If you have a database manager like dBASE II then you already have the capabilities that FILEBASE offers. If you only have SmartFiler than you may want to consider FILEBASE. It offers smaller sized files that can easily be shared between different disk/tape formats, allows dividing large databases into smaller ones and combining smaller databases into larger ones. No program is perfect, FILEBASE could use some fleshing out in the printing department but I don't find that to be a major problem. Here is the glory of shareware, you can afford to get the shareware version and try it out. If it meets your needs you can register for the latest version!

Time Delay

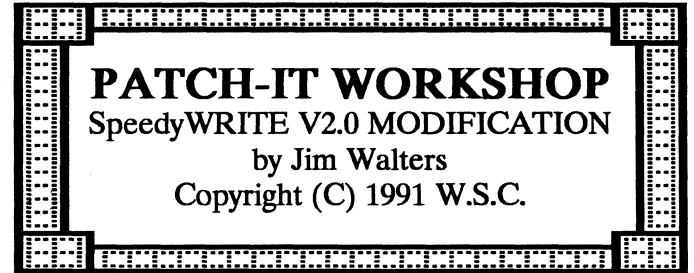


There is a time delay from the time I write these articles to the time they are published. This delay can be as long as four months. Because of this, information I pass along can be outdated by the time you read it. An example of this is the WordStar 4.0

pricing. I had checked a number of times with WordStar International to verify the price. At no time did they indicate that they would be changing the way CP/M WordStar Release 4 would be distributed. Shortly after my review was printed WordStar decided to let TRIO handle the distribution. A number of you were disappointed by the new high prices and contacted me about my article in which I had quoted the \$89 price. All I can do is ask for your patience and understanding. The information I included in the article was accurate at the time it was written. I can't control what a company will do. I do want to thank all of you who contacted me about the price change. I would not have known about it unless you told me.

From the Mailbag

Thank you for sending your suggestions on the future direction of this column. The suggestions I received included: Comparing similar public domain and commercial programs with an eye to features and value, explanations of how to use CP/M and TDOS, how to customize and install software and in depth reviews of disks already in the library. Some of you have written/called to ask questions or just to introduce yourself. I have enjoyed meeting you, reading your letters and helping where I could. That is part of the fun of being a part of the ADAM community. If you do write, and want a reply, don't forget to enclose a Self Addressed Stamped Envelope. My address is: Doug Rosenvinge, 30 Arborway Dr., Scituate, MA 02066.



I said I would not do another "MOD", but time heals all wounds. I worked real hard on all the Super Game "MODS" and almost everyone took advantage of them. Only one company paid me for using them, N.I.A.D. was that company. Why should I work for nothing? I have been asked to do several "MODS", and now you know why I say no.

SpeedyWRITE V2.0 uses redundant block loads to get the program into memory. This makes it impossible to move the program to add more catalog blocks. You sure waste a lot of space using one block for a catalog. My "MOD" turns a new media into a four block catalog. All references to utility programs pertain to SmartDSK III.

1. First INIT a disk or ddp with 4 catalogs using "INIT" from SmartDSK III.

2. Copy the SpeedyWRITE file to your new media with "MANAGER". Now we must make a dummy file, (BSAVE DUMMY, A0, L2000), to your new media. This command has to be entered in SmartBASIC.

3. Copy all the rest of your files from SpeedyWRITE to your new media using "MANAGER".

4. Using "TOOLKIT" from SmartDSK III, why TOOLKIT, because it works in decimal and is a lot easier to understand and use. Set the offset to (51200) and load in block 0 from your SpeedyWRITE media. Modify location (51280) to a (5), (51294) to a (6), and (51308) to a (7). Copy block 0 to your new media's block 0.

5. Set offset to 8192 and load in block 4 and modify as follows:
(8200) - (8), (8214) - (9), (8228) - (10), (8242) - (11), (8256) - (12),
(8270) - (13), (8284) - (14), (8298) - (15), (8309) - (16), (8324) - (17),
(8338) - (18), (8352) - (19), (8366) - (20), (8380) - (21), (8394) - (22),
(8408) - (23), (8422) - (24), (8436) - (25), (8450) - (26), (8464) - (27),
(8478) - (28), (8492) - (29), (8506) - (30), (8568) - (31).
Copy block 4 to block 7 of your new media.

6. Set the offset to 256, and load in block 29. Modify location (576) - (29), and (634) - (29). Copy block 29 to block 32 of your new media.

7. Copy block 31 from SpeedyWRITE to block 34 of your new media. Copy block 32 to block 35.

8. Boot-up the SmartWRITER program by pulling the computer reset. Using SmartWRITER save a small file to your new SpeedyWRITE media.

I hope this is all that is needed for SpeedyWRITE V2.0 to work properly with a multiple block directory. If you have any problems I would like to know. These instructions are copyrighted by Walters Software Co. and can not be reprinted without written permission.



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(814) 827-3776



PUBLIC DOMAIN WORKSHOP

Reviews and Updates

by Jim Notini

INFOCOM UPDATES

Thanks to Ron Collins of the Akron AUG, all of the Infocom titles which are available for conversion (these are not Public Domain) have been updated to work in either standard CP/M 31 column, TDOS 40 column, or CP/M and TDOS 80 column format. The Infocom titles come with either 2 or 3 setup files that have an extension of < .COM > along with the Infocom program file that has an extension of < .DAT >. The following is a breakdown of how each title is setup:



Ballyhoo, Leather Goddesses' of Phobos, Plundered Hearts and Stationfall are setup for display in CP/M 31, CP/M or TDOS 80 column and you must load CP/M or TDOS first. You can't use the CP/M 31 display version with TDOS.

Deadline, The HitchHiker's Guide to the Galaxy, Planetfall, Seastalker, Starcross and Zork I, II and III are setup for display in CP/M 31, TDOS 40 and CP/M or TDOS 80 column and also contain TDOS V4.58, which makes these titles practically self-booting (you can make them self-booting if you make a PROFILE.SUB file which is similar to the SmartBASIC HELLO program).

PUBLIC DOMAIN UPDATES

Four of the Public Domain Entertainment Volumes which contains eight unreleased cartridge games have been combined together as one large volume in CopyCart format. The combined volumes are as follows: FALL GUY / VIDEO HUSTLER, MASH / SUPER COBRA, MEMORY MANOR / WORD FEUD and ARTILLERY DUEL / TOMARC THE BARBARIAN. Also included on this new combined collection are SmartWRITER documentation files for each of the games. The Super Cobra game was officially released by Parker Brothers, but the cartridge version does not work on the ADAM. If you're looking for some entertainment as well as educational games, this is the volume to pick-up.

ABOMINABLE SNOWMAN

The Abominable Snowman, by Graftex Software, was originally released as a commercially copyrighted program in 1989, but has been donated to the public domain by it's developer Joe Quinn. It is designed as a graphics / text adventure game for the novice adventurer. It is not too hard for the beginner yet it should provide a worthwhile challenge the the experienced adventurers.

The Abominable Snowman is a non-violent adventure where you do not have to fight or kill any enemies but have to use logical reasoning in order to overcome different circumstances which one will be faced with during the course of the adventure. The adventurer takes on the persona of a professor searching the great white north for the Abominable Snowman and it is up to you whether he will make it out alive or be lost forever in this frozen tundra.



The adventure is filled with high-resolution graphics which were created with PowerPAINT and is totally auto-booting. Also, contained in SmartWRITER format is a documentation file. Originally reviewed in the November 1989 issue.

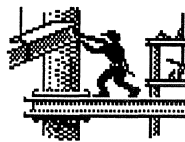
PAINT PALETTE

Paint Palette, by Graftex Software, was originally released as a commercially copyrighted program in 1990, but has been donated to the public domain by it's developer Joe Quinn. Paint Palette is designed to be used with PowerPAINT by Digital Express. It will provide one with over 200 different shades of colors. This is made possible by blending the foreground and background screens together. It works best when you need a large area of a special color.

Also, you will find several demonstration pictures which were developed by Pat Herrington of the Metro Orlando AUG. These pictures were developed to further demonstrate the capabilities of Paint Palette and have to be seen to be believed. Included in SmartWRITER format is a documentation file. Originally reviewed in the June 1990 issue.

SmartBASIC CONSTR. KIT

SmartBASIC CONSTRUCTION KIT, by Graftex Software, was originally released as a commercially copyrighted program in 1989, but has been donated to the public domain by it's developer Joe Quinn. SmartBASIC CONSTRUCTION KIT is designed to aid the novice programmer to better understand the many commands resident in SmartBASIC V1.0. This program runs through all possible SmartBASIC V1.0 command words with descriptions as well as many examples. If you are just getting into SmartBASIC programming or need a refresher, this is a tremendous tool and aid.



S.B.K. is totally auto-booting and completely menu-driven for ease of use. You may also use the program as a dictionary in that you do not have to follow through each of the menus to get to the command you need to study up on, you can jump around from command to command with ease.

Included in SmartWRITER format is a documentation file. Originally reviewed in the November 1989 issue.

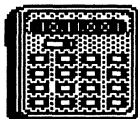
DAWGGONE DAWGS

DAWGGONE DAWGS, by Graftex Software, was originally released as a commercially copyrighted program in 1990, but has been donated to the public domain by it's developer Joe Quinn. Dawggone Dawgs is a program Graftex Software produced as a challenge to themselves. It was their intent to write a program that would, on a consistent basis, select the dog most likely to win at the local dog track. About three months of statistically studying the race forms and modifying the program were required before the program would perform to the standard that had been required. It was not and is not a get-rich-quick scheme, but rather a program that if one selects the dog recommended by the program and places a wager for this dog to win or to show, will in most cases return more than was bet.

Dawggone Dawgs was written for the local track in Mobile, AL and may need to be revised for other tracks throughout the country. The purchaser of this public domain volume will have to modify it themselves since Graftex Software is no longer involved with the ADAM. The program is totally auto-booting and included is a SmartWRITER file which contains the documentation. Also, the basic which is contained on this volume is an extremely enhanced version of V1.0 through patches developed by Soloman Swift of Digital Express and the enhancements are listed in the documentation file.

ADAMCALC ANDV VOL. #6

□ **TRUCARCOST** - This spreadsheet calculates the cost of keeping an old car, cost of buying a new car, cost of loan payments, allocates cash down payment over life of new car, and calculates loss of interest income on payments.



□ **INCOMESTAT** - Figures are fictitious for a T.V. dealer. Used to demonstrate how to set-up an income statement. Can be used from year to year by blanking oldest year and replacing with new values.

□ **BALANSHEET** - Used to demonstrate a balance sheet with the figures being fictitious and easily erased to allow for your own use of the spreadsheet.

□ **FINANCPOS** - Used to demonstrate a financial position statement. The figures are fictitious and can easily be erased to allow for your own use of the spreadsheet.

□ **NOTES4STAT** - This spreadsheet is set-up in two columns and is used to simulate a word processor. It is designed for text notes and not for figures or calculations.

□ **NOTES5STAT** - This spreadsheet is for notes that have a lot of figures, columns and calculations. It takes a bit of time to design and type up but you save time in future years.

□ **NOTES6STAT** - This spreadsheet is used for complex notes requiring many figures, columns and calculations. Illustrates the tax problems possible with Deferred Income Tax Payable because of taking more depreciation for tax purposes than is recorded on the financial statements.

□ **STATETUTa** - Tutorials, instructions and explanations re Financial statements. Describes how statements are set-up, format, formulas, printing, saving and also tricks and shortcuts.

□ **STATETUTb** - Tutorial on NOTES4, NOTES5 and NOTES6. Discusses purposes of statements, variety of methods of copying various formulas, ease of use in future years once they are set-up and discusses Recapturable Depreciation and Deferred Income Taxes.

□ **TRIG6** - Calculates 12 different types of trigonometry equations. For example, given height and top angle it will find the base.

□ **SEARCHBLOK** - Shows how one can search a block since this is no where to be found in the ADAMCALC manual.

□ **SELECTBLOK** - This is a quick way of finding the Cell Area that is used in many formulas (ie. average, count, maximum, minimum, standard deviation, and sum). Saves having to remember, write down or search for limits of the Block Area you need.

□ **BLANKBLOK** - Blank or erase any Block or Cell Area in a spreadsheet. This can cover any number of rows and columns or any part of the spreadsheet. Also, some ideas on how to avoid erasing a spreadsheet inadvertently.

□ **FORNEXT100** - Simulates for next loop 1-100. You can set step automatically. Solves algebra equations up to the 6th power. Shows that ADAMCALC can be used in an interactive way; that is you make an informed guess as to about where the solution should be.

□ **SORTSUBCOL** - This routine sorts a part of a column. Using sort, in any way at all, can have some very confusing consequences.

□ **FORNEXTa** - A collection of formulas.

□ **LOANRATERM** - Allows one to find the balance of the loan at any time. Allows one to enter in large cash payments and then recalculate a new loan payment.

□ **LOANRATERMa** - A shorter and simplified version of LOANRATERM. Finds the mortgage or loan payment required per month. Finds balance of loan at end of any month. You can compare 2 loans or renegotiate the first loan and leave the original loan in the top program and the new loan in the bottom for comparison and study.

□ **NiadANDV-6** - Brief descriptions and instructions on how to use each of the included ADAMCALC spreadsheet or formula files. This is an ADAMCALC file.

ADAMCALC ANDV VOL. #7

□ **A33-ENDTUT** - Tutorial which explains the usage of BUDGjan91.

□ **BUDGjan91** - Personal Budget illustration you can develop. Six month budget with automatic totals, cross totals, etc. Tutorials, explanations, formula development and design are given in detail in tutorial files: a1-32tut and a33-endtut. These tutorials outline a step by step approach to make the Personal Budget tell what to enter letter by letter.

□ **BANKjan91** - This is a spreadsheet which is designed for Income and Disbursements. Three tutorials files are supplied: B1-B18TUT, B19-B35TUT and B36-ENDTUT.

□ **BANKjan91a** - This is a spreadsheet which is very similar to the spreadsheet listed above.

□ **A1-A32TUT** - Tutorial which explains the usage of BUDGjan91.

□ **B1-B18TUT** - Tutorial which explains the usage of BANKJAN91.

□ **B19-B35TUT** - Tutorial which explains the usage of BANKJAN91.

□ **PERSBALASH** - This is a spreadsheet which is set-up for Personal Balance Sheet creation at the end of each year.

□ **B36-ENDTUT** - Tutorial which explains the usage of BANKJAN91.

□ **PENSIONTUT** - A tutorial which handles the subject of pensions.

□ **CALCPROGSa** - List of books, magazines, and other texts that I have used over the years in studying ADAMCALC. Also, list of names of programs I have made from these publications.

□ **CALCPROGSb** - Continuation of the list of programs of spreadsheets along with some ideas on how ADAMCALC can be used by various people in different fields.

□ **WORDPROTUT** - A tutorial on ADAMCALC as a word processor. Variations are possible because of the extreme flexibility that you have because one can vary the set-up of the column so easily. Advantages over SmartWRITER are discussed, etc.

□ **NiadANDV-7** - Brief descriptions and instructions on how to use each of the included ADAMCALC spreadsheet or formula files. This is an ADAMCALC file.

ADAMCALC ANDV VOL. 8-17

ANDV volumes 8 through 17 are also now completed thanks to the contribution by Nick Lukach (who also contributed Vol. 5, 6 and 7). We will be reviewing all these volumes over the next couple of issues



TYPE
PRINTER UTILITY
RELEASED
1988

SwiftPRINT
by DIGITAL EXPRESS, INC.

PRICE
\$15.95
MEDIA
DISK / DATA PACK

Reviewed by Pat Herrington

REPRINTED FROM THE APRIL 1990 M.O.A.U.G. NEWSLETTER

By now, most of you are aware that I really enjoy computer graphics. I am usually the first kid on the block to snatch up any new graphics programs as soon as they are released. SwiftPRINT was an exception. I did NOT rush out and buy it, because I thought its main attraction was the ability to use a color printer. I do not HAVE a color printer, so I didn't bother. It wasn't until ADAMCON, while chatting with Tony Patterson, that I discovered some of its other capabilities. Later, Tony, Eric Danz, and I used some of its features in a joint project. The next day, I took advantage of special convention pricing and bought it.

Since then, Solomon Swift has told me repeatedly that this is the software package he is LEAST proud of. When I asked him WHY, the only reason he gave me is that it's "too slow". Well, yes, it IS slow to load. If your only criterion for choosing software is speed, maybe you would be unhappy with SwiftPRINT. But, frankly, I didn't even notice. After all, I have put in my share of time waiting for tape drives to spin; so what? I judge a software package on what it can do for me that makes my life easier (or more fun!) And this program does allow me to do things I couldn't do before.

SwiftPRINT will never be my primary print utility, because it prints out only one to two screens at a time. (If you want to, though, you CAN get a continuous page, by printing out as many two-screen sets as you like.) Most of the time, I still use PowerPAINT. But for some applications, I find that only SwiftPRINT will do. For example:

First off, there is the matter of getting more life out of printer ribbons. Graphics printing EATS ribbons. What do YOU do with a ribbon that is still dark enough for ordinary jobs, but is too faded for important work?

SwiftPRINT has a "laser intensity" option for printing DARK copy. And I do mean DARK. If you choose this option, the print head makes nine passes! Slow? Of course it's slow! I leave the room and do something else while it's printing. But it's a lifesaver when I have both a semi-faded ribbon and a project requiring superior print quality. (Magazine editors won't even GLANCE at washed-out graphics.) For me, this feature alone makes SwiftPRINT indispensable.

Ever look at a color screen and wish you could capture some of that variation in hard-copy? Until now, the only way you could do that was with a color printer. But SwiftPRINT has a unique option that allows you to shade in shades of grey. And it prints BOTH foreground and background, whereas the background is ignored in all other print programs. This is only partially successful. The various tone values are not dissimilar enough if you are using a new ribbon. But it DOES work

with old ribbons, which are useless for anything else. (Just imagine NEEDING a worn-out ribbon!)

Another feature I find extremely useful is the "flip screen" option. You can load a picture and flip it horizontally, or vertically, or both, and save the results of each operation. This is very useful for letterheads, when you want the same picture on both sides, facing opposite directions. It's even more useful if you want to draw a full-page border. You can design one corner of the border with a design program, load it into SwiftPRINT, and flip every which way. Saves a LOT of work, especially if your design is very elaborate. If you design your own greeting cards, you can flip the screen that belongs inside the card. Then it's easy to lay out your page so that everything faces upright when it's folded.

Then there is the matter of format. There are quite a few different ways of saving graphics pictures. Many graphics programs recognize only one type of file. PowerPAINT will load all of them, but will save them only as HGR pictures or binary 10k files. SwiftPRINT will convert almost any kind of graphics file into any other graphics format, and that is invaluable for people who like to work back and forth among different graphics utilities.

There is one more super feature, but it's accessible only to those who have a larger memory expander (128k, or greater.) It's a special text entry function, which allows you to type text in your choice of 5 typefaces and 4 sizes. Nice, but not unique. You can do that in PowerPAINT. The difference is, you can choose to "flow" text between cells... that is, type in one continuous line from the left edge of the first cell to the right edge of the second cell. In PowerPAINT, you can enter text in only one cell at a time. This way is a bit faster, and you don't have to keep track of where you left off in the previous cell. (There's no option for user fonts in SwiftPRINT, though.)

Like most Digital Express programs, this one contains little extra touches that aren't integral to the package, but are nice to have: color selection, for example, and options for initializing media, etc.

The only quibble I have... and it's a minor one... is with the "user interface". The menus are user-friendly and quite attractive, but the options are selected with the arrow keys I personally find it more convenient when a single keystroke is used to select options. That shaves only a fraction of a second off the process, but somehow it SEEMS more efficient. Still, that IS a pretty minor point. You do not need PowerPAINT to use SwiftPRINT, but you DO need at least 64K of expanded memory, and either a dot matrix printer or an Okidata color printer. SwiftPRINT is available from most ADAM vendors. Suggested retail price is \$15.95.

SYSTEM REQUIREMENTS

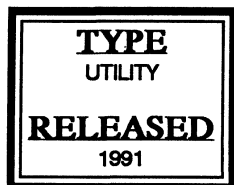
- MEMORY: 64K MEMORY EXPANDER OR LARGER
- PRINTER: DOT MATRIX PRINTER OR OKI-20 COLOR D.M.P.
- DRIVES: 1 DISK DRIVE OR 1 DIGITAL DATA DRIVE
- OTHERS: NO OTHER REQUIREMENTS

SOFTWARE RATINGS

- GRAPHICS / SCREENS..... A
- MUSIC / SOUND..... B-
- INSTRUCTIONS..... A+
- EASE OF USE..... A

OVERALL

A



ADAM'S DESK TOP

by WALTERS SOFTWARE CO.



Reviewed by Jim Notini

ADAM'S DESK TOP (ADT for short) is the long awaited update by Walters Software Co. to the SmartDSK CART. Unlike the SmartDSK CART, ADT is available on disk or data pack as well as on cartridge. The ADT program brings a new modern way for ADAM users to use their computers. The Extended Operating System (EOS) that every ADAM contains was, in fact, one of the first graphic operating systems available for any home computer. Take a look at SmartWRITER, it sure contains a lot of graphics, and all done with the EOS operating system. ADAM'S DESK TOP uses a modified EOS operating system, which we all know as the SmartDSK operating system, to bring you a graphics desk top control program to make your ADAM operate better as well as faster.

ADT options include ramdisk setup which can sustain system resets as well as options to initialize the ramdisk; ability to use the standard ADAM EOS operating system with or without a dot matrix printer; ability to use the SmartDSK operating system with SmartWRITER, SmartBASIC, etc. setup with ramdisk drivers as well as dot matrix printer drivers; boot tools that allow one to boot almost any program from the ramdisk; a media may now contain as many bootable programs that there is room for (block space available); copy tools that will backup a larger size drive to a smaller size drive by using more than one destination media; quick ramdisk load and save options and so much more. ADT is also compatible with any size and make memory expander from 64K all the way up to 1,024K (1Mb) as well as any size or make disk drive from 5 1/4" 160K on up to 3 1/2" 720K and if you purchase the cartridge version, ADT boots in a matter of seconds.

To boot ADT, all you have to do is place the disk or data pack in a drive and pull the COMPUTER RESET unless of course if you have the cartridge version in which case you would pull the CARTRIDGE RESET. The SmartDSK operating system will be placed into memory as well the ADT program and then the system will be tested by ADT to see what the system consists of. If you have a 128K memory expander or larger, the option to reserve one bank of memory will be asked, if you do not choose to reserve a bank the full size of the expander will be used. From the main SmartKEY menu you may exit ADT, view information on the version number or continue onto the Toolbox Menu.

The Toolbox Menu consists of five SmartKEY options, the first three of which will give you access to the utilities:

Choosing SmartKEY I RAMDISK TOOLS will bring you to a new menu of 3 options that allow the user INIT, LOAD or SAVE the ramdisk. INITIALizing the ramdisk will effectively clean everything off of it so be careful with this option. LOADING the ramdisk allows for the transfer of a disk or data pack to the ramdisk, therefore allowing the user to setup files such as clip-art on the ramdisk before loading a program like the Clip-Art Viewer or BASIC files before loading SmartBASIC. This is a tremendous time saver and the easiest way that's available to ADAM owners to setup a ramdisk and stock it with files for use in other programs. SAVEing the ramdisk is the process of copying the data that is contained on the ramdisk onto a disk or data pack. This will be used

if you save your work on the ramdisk and need it at a future date. Note that if you have a larger memory expander, it may take a couple disk or data packs to backup.

Choosing SmartKEY III BOOT TOOLS offers three options that allow one to BOOT DRIVE, SmartWRITER or BOOT PROGRAM. BOOTING a drive will simply allow the user to boot a media that is in a drive with the option of using 1 of 3 operating system: SmartDSK, Standard EOS with dot matrix support or Standard EOS. Choosing SmartWRITER offers the use in SmartWRITER of a ramdisk or tape drive #2 and either the ADAM Printer or dot matrix. If you have a dot matrix, you may also change the line spacing from 0 to 9. BOOTING a program allows one to load a file loading program that was setup with the MAKE BOOT option I will discuss later.

Choosing SmartKEY IV COPY TOOLS offers three more options that allow one to COPY MEDIA, COPY FILE or MAKE BOOT. The COPY MEDIA option will backup a larger drive to a smaller drive by using additional smaller medias. If you are trying to backup a 256K ramdisk to a 160K disk drive, it would take 2 disks to completely backup the ramdisk. The COPY FILE option is used to copy one file at a time from one drive to another using the exact file name or new name that you type in. The MAKE BOOT option will allow the user to make a boot file that will boot a file loading program (IE: SmartBASIC). This option will allow for the creation of disks or data packs that contain a number of bootable program that can be loaded by the BOOT PROGRAM option. Extensive instructions are given for the different types of bootable programs which are available.

ADT is the most complete set of utilities every released for the ADAM by Walters Software Co. It combines all the options that are found in other programs by Walters such as PrBOOT, RamBOOT, AutoBACKUP, and SmartDSK I, II, III. It is also very easy to use due to SmartKEY option menus so you won't spend hours reading through the manual trying to figure out how to use a certain feature. The only involved process is setting up a media with multiple bootable programs due to the variety of boot routines that have been used by programmers of other software. If you are interested in ADT, I would highly recommend the cartridge version even though it is \$10 more. It will save a tremendous amount of wear and tear on your drives as well as speed up the use of ADT since you won't have to wait for it to load every time you want to use it.

THE REAL VALUE OF A.D.T.

- PrBOOT \$17.95
- RamBOOT \$19.95
- AUTOBACKUP \$17.95
- SmartDSK I \$18.95
- SmartDSK II \$16.95
- SmartDSK III \$24.95



TOTAL COMBINED PRICE \$116.70

SYSTEM REQUIREMENTS

- MEMORY: BASE ADAM SYSTEM WITH 64K MEMORY EXPANDER
- PRINTER: ADAM PRINTER OR DOT MATRIX PRINTER
- DRIVES: 1 DISK OR 1 DIGITAL DATA DRIVE
- OPTIONS: 128K, 256K, 512K, 768K OR 1,024K MEMORY EXPANDER

SOFTWARE RATINGS

- GRAPHICS / SCREENS A+
- MUSIC / SOUND NA
- INSTRUCTIONS A
- EASE OF USE A+

OVERALL

A+

TYPE
UTILITIES
RELEASED
1991

COPX, FORMAX & HELPER

by HEXACE SOFTWARE

PRICE
\$9.95 @
MEDIA
DISK / DATA PACK

Reviewed by Jim Notini

COPX

COPX was developed to aid in the process of making backup copies of files on the ADAM computer. COPX allows the user to copy entire disks or data packs as well as the ability to copy single files or several files at the same time. Advanced features of the file copy routine include the ability to select the order in which multiple files will be copied, the ability to specify file types to copy as well as the ability to specify the first letter of a file to copy that will copy all the files on a media that start with that letter. COPX supports any size ramdisk as well as disk drive and when making a backup from the ramdisk, the user can make two backups at the same time if two disk drives are available.

There are four modes of copying which are available: ALL, DIRECTORY, FILES or OFFCOPY; that can be used to make copies from and too your physical drives or the ramdisk. COPY ALL will copy from block 0 to the end of the source media and allow you to copy to any other physical drive or ramdisk contained in the system. COPY DIRECTORY will copy only the blocks which are used on the source directory to any of the physical drives or ramdisk. COPY FILES is a file copier that allows the user to select one or more files from the EOS source directory to be copied to another device. Files may be selected in any order so as to arrange the files on the destination media exactly as you want them. OFFCOPY is a block copier that allows the user to specify a block or a range of blocks to copy from the source to a specific location on the destination.

The COPY FILES option is easily the most advanced on the market to date. It reminds me a an IBM program in the flexibility that the user has as to what they want copied and how they want it arranged on the destination. Options not only include the ability to number the files in the order that you want them copied, but also the ability to tag all files, tag by file type, tag by attribute, tag by file size or tag by first letter. User groups should especially love the ability to copy a program to a larger ramdisk and then make multiple copies at the same time if they have two disk drives attached to their ADAM.

FORMAX

FORMAX is a program that will allow the user to control up to eight disk drives when formatting disks and it will also initialize the disk and even can put a custom boot block on it. All disk drive sizes are compatible with FORMAX (5 1/4" 160K and 320K and 3 1/2" 720K), the number of directory blocks can be set anywhere from 1 to 8 and the volume name can all be set before the format process.

In order for the user to have the ability to hookup and use at the same time up to 8 disk drives, a custom EPROM chip is required. This custom EPROM may be purchased through Hexace Software at an unspecified price as of yet. If you are interested in setting this up, I would recommend writing to Hexace for further details.

SmartWRITER'S HELPER

SmartWRITER'S HELPER is a patch program for SmartWRITER only that will expand the usefulness of this terrific built-in word processor. The fixes and updates that are made will finally clear up some of the more disturbing bugs which are contained in SmartWRITER. But the main features of SmartWRITER'S HELPER are the ability to switch back and forth between using the ADAM Printer or a Dot Matrix Printer, a ramdisk or tape drive #2, and tape drive #1 or disk drive #2 all without ever having to leave SmartWRITER and boot another program. This is accomplished through an array of key press sequences that involve the CONTROL key.

When you boot SmartWRITER'S HELPER, the ADAM Printer, tape drive #1, tape drive #2 (if you have a second tape drive) and disk drive #1 (if you have a disk drive) are all active. If you want to switch to a dot matrix printer all that would need to be done is to press the "CONTROL" and "A" keys at the same time. To switch back to the ADAM Printer, you would press "CONTROL" and "B" simultaneously. If you wish to setup a ramdisk in place of tape drive #2 (even if you don't have a second tape drive), you would press "CONTROL" and "C" at the same time. To return to tape drive #2, you would press "CONTROL" and "D" at the same time. If you wish to gain access to a second disk drive which hooked up then you would press "CONTROL" and "E" at the same time but then you would lose access to tape drive #1. To switch back to tape drive #1, you would press "CONTROL" and "F" at the same time. One other unnoticeable difference is the fact that when you delete the very last file on a disk or data pack, that file space is totally cleared out and the end marker for the directory is moved up into the now deleted file space as well as the block count being corrected.

Down the road a bit, custom printer drivers for dot matrix printer owners will be added to allow the user to access some of the different print styles that their dot matrix printer supports. This will be accomplished via the entry of special control escape codes being entered before and after the word or words which the user wishes to change the style of. Since all printers are not designed alike, the user will have to supply the special print codes for certain modes of print. Hexace is will also be working on a program to include that will contain a large variety of printer setups that will patch the new version of SmartWRITER'S HELPER that will be available soon.

The programs, while very plain in look, perform as they are advertised and do a very good job. I don't see the need for another disk formatting program because there are already a number in the public domain as well as being commercially available in other utility programs, but I am sure there are a number of people out there who would love to setup an ADAM system with more than 2 disk drives and format a group of disks together. Of the three programs, SmartWRITER'S HELPER should be the most useful due to the enhancements it makes to SmartWRITER and soon it will offer advanced dot matrix printer features.

SYSTEM REQUIREMENTS

- MEMORY: BASE ADAM SYSTEM
- PRINTER: ADAM PRINTER OR DOT MATRIX PRINTER
- DRIVES: 1 DISK DRIVE OR 1 DIGITAL DATA DRIVE
- OPTIONS: 64K THRU 1,024K MEMORY EXPANDER

SOFTWARE RATINGS

- GRAPHICS / SCREENS..... C-
- MUSIC / SOUND C-
- INSTRUCTIONS A-
- EASE OF USE A+

OVERALL

B+

N.I.A.D. PRODUCT LIST

PRODUCTS & PRICING SUBJECT TO CHANGE WITHOUT NOTICE

ADAM HARDWARE

- **160K 5 1/4" DISK DRIVE EPROM** \$17.95
Greatly reduces disk formatting time along with fixing some bugs in the original disk drive eprom for Single-Sided drives. User must install.
- **320K 5 1/4" DISK DRIVE EPROM** \$17.95
For use with older Double-Sided drive conversions by Eve Electronics. Reduces read / write time of most operations. User must install.
- **ADAM COMPUTER SYSTEM** \$239.95
Complete reconditioned ADAM System with Printer, includes all components / software (1 piece Memory Console). 90 day warranty. Includes Shipping / Handling!!
- **ADAM COMPUTER SYSTEM EXP. MOD. #3** \$209.95
ADAM and Colecovision Game System attaches together to make a complete ADAM System (2 piece Memory Console). 90 day warranty. Includes Shipping / Handling!!
- **ADAM DIGITAL DATA DRIVE** \$59.95
Replacement or second digital data drive for the ADAM Computer. Great to own to speed up the backup process and also as a convenience to eliminate the need for swapping data packs constantly.
- **ADAM DISK DRIVE POWER SUPPLY** \$14.95
New, more reliable power supply transformer for ADAM Disk Drive (5 1/4" or 3 1/2").
- **ADAM KEYBOARD** \$24.95
New keyboard for the ADAM, great to have as a spare or for replacement of defective keyboard. Comes with a 2 foot coiled cable.
- **ADAM MONITOR CABLE** \$9.95
Allows attachment of a Composite Monitor, Monitor ready T.V., or RGB (with composite jacks) to the ADAM Memory Console providing both audio and video. Monitor must have separate RCA Audio and RCA Video input jacks. **NOTE:** Note available for the ADAM Expansion Module #3 Unit that attaches to the Colecovision.
- **ADAM PRINTER POWER SUPPLY** \$49.95
Standalone power supply which can be used in place of the ADAM Printer (saves wear and tear) to power the ADAM. Great to own if you have a dot matrix printer so that the ADAM Printer can be unhooked and stored for future use.
- **ADAM PRINTER POWER SUPPLY COVER with LIGHT** \$14.95
Protect your ADAM Printer Power Supply from dust, dirt and accidents with this cover and power on / off light. Instructions for hookup included.
- **ADAM TAN HAND CONTROLLER** \$5.95
New Coleco Hand Controller with 12-button numeric keypad and two fire-buttons.
- **ADAMNET CABLE** \$2.95
Flat, 7 foot cable for use with either the ADAM Keyboard or ADAM Disk Drive.
- **ADAMOUSE II with MOUSE PAD (Internal Version)** \$74.95
Mouse controller which attaches internally to the joystick port. Requires minor modifications to be made. Works with any ADAM programs with can use a joystick. Programs are planned which will make full use of this and the following mouse.
- **ADAMOUSE II with MOUSE PAD (External Version)** \$79.95
Same Mouse as listed above, but plugs directly into the joystick port and does not require modification to the joystick port. Not compatible with all software.
- **DYNAMITE SOUND DIGITIZER (Disk or DDP)** \$69.95
Cartridge with software which allows for the digitizing of any sound feed in through a standard RCA Audio Cable. Creates a digitized file which can be accessed in your own programs. Complete set of edit features built-in to software. Can be supplied with SmartCLOCK Chip attached inside (see listing below).
- **DYNAMITE SOUND DIGIT. with SmartCLOCK CHIP (Disk or DDP)** \$99.95
Dynamite Sound Digitizer with the SmartCLOCK Chip already installed into the D.S.D. cartridge. If ordering the D.S.D. separately, you can't add the SmartCLOCK Chip by yourself. The D.S.D. would need to be returned to TRISYD VIDEO LABS for upgrade. Two week shipping delay when ordering this product.
- **MEGACOPY TAPE MAKER TYPE III (Disk or DDP)** CALL
Hardware device with software which allows for the creation of ADAM compatible data packs using the ADAM itself and two Digital Data Drives. Capable of producing over 12 different formats. Comes with Data Drive speed testing software built-in.
- **MIDI-MITE INTERFACE (Disk or DDP)** \$74.95
Allows your ADAM to communicate with MIDI compatible synthesizers. It has one MIDI-IN, one MIDI THRU and two MIDI OUT jacks. Included are two MIDI cables for connection to your synthesizers and a ribbon cable for connection to the ADAM side port. Advanced software included. VideoTunes by FutureVision is recommended.
- **SmartCLOCK CHIP (Disk or DDP)** \$39.95
Plugs into U8 socket on ADAM Logic Board in Memory Console. Tracks hundreds of seconds, minutes, hours, days, day of the week, month, year, 12 / 24 hour modes, leap year correction.

MEMORY EXPANDERS

- **64K MEMORY EXPANDER** \$34.95
Provides an additional 64K RAM of memory to boost total system RAM to 144K. Many of the newest software packages require at least a 64K Memory Expander or can access it to speed up operation of programs. Card easily installs into Slot #3 in Memory Console. No technical knowledge is required to install or use.

- **256K MEGARAM MEMORY EXPANDER** \$119.95
Expandable memory board which will hold up to 1 MEGabyte of memory (1,024K)! Comes with 256K of memory installed and 3 open rows of sockets for upgrade with the 256K SIPs. Requires a Parallel Printer Interface or Addressor Card listed below to operate fully, without one, the MegaRAM will operate as a 64K Memory Expander.
- **256K MegaRAM SIP MODULE** \$49.95
256K Memory Modules used to expand the MegaRAM Memory Expander. Add 3 256K SIPs to obtain a full 1 MEG (1,024K) of memory, just add 1 to boost the MegaRAM to 512K or 2 to boost the MegaRAM to 768K!
- **ADDRESSOR CARD** \$19.95
Installs in Slot #2 and required for full use of MegaRAM Memory Expander if you don't have or purchase a Parallel Printer Interface to address MegaRAM too.

PRINTERS & INTERFACES

- **PANASONIC KX-P1180i DOT MATRIX PRINTER** \$169.95
(with ADAM Printer Interface & Cable (Disk or DDP)) \$209.95
9 pin dot matrix printer with 2K buffer and parallel connector. Draft speed 192 CPS, Near Letter Quality speed 38 CPS. Many built-in print styles: compressed, elite, pica and size adjustable. Bottom / Rear paper feed. One ribbon enclosed. Two year limited warranty. Provides best compatibility with ADAM programs.
- **PANASONIC KX-P1123i DOT MATRIX PRINTER** \$259.95
(with ADAM Printer Interface & Cable (Disk or DDP)) \$299.95
Identical to KX-P1180i but 24-pin with faster draft speed 240 CPS and Near Letter Quality 63 CPS. Includes a Front paper feed. One ribbon. Two year limited warranty.
- **PANASONIC KX-P1124i DOT MATRIX PRINTER** \$299.95
(with ADAM Printer Interface & Cable (Disk or DDP)) \$339.95
Identical to KX-P1123 but 24-pin with 6K buffer. Draft speed 192 CPS and Near Letter Quality 63 CPS. One ribbon. Two year limited warranty.
- **E&T PARALLEL PRINTER INTERFACE (Disk or DDP)** \$39.95
Interface card with software that plugs into Slot #2 in the Memory Console and provides the ability to print text / graphics on any standard dot matrix printer as well as Addressor connection for 256K or larger Memory Expanders. Requires Parallel Printer Cable or Shielded Parallel Printer Cable.
- **MULTI-PURPOSE INTERFACE BOARD 2 (Disk or DDP)** \$74.95
Provides two RS-232 Serial Ports and 1 Parallel Port along with Addressor Connection for 256K or larger Memory Expanders. Includes patch software for dot matrix printer and specially configured telecommunications software for non-standard serial ports along with the most current version of TDOS. Serial & Parallel cables sold separately.
- **PARALLEL PRINTER CABLE** \$14.95
Cable which attaches between Parallel Interface and Dot Matrix Printer for either the M.I.B. 2 (6 foot) or E&T Parallel Interface (3 foot).
- **SHIELDED PARALLEL PRINTER CABLE** \$19.95
6 foot shielded cable which provides for extra shielding from interference.
- **RS-232 SERIAL CABLE** \$14.95
6 foot cable which attaches between M.I.B.2 and Serial hardware device.

MONITORS & MODEMS

- **MAGNAVOX 1CM135 13" COLOR RGB MONITOR** \$299.95
13" Color RGB / Composite compatible monitor, green text display option, sharpness control, vertical & horizontal centering controls, comb filter, built-in stand, IBM compatible, capable of 80 column display with 25 lines and 640 horizontal pixel resolution (NOT ON THE ADAM). Requires ADAM Monitor Cable.
- **GOLSTAR 2105G 12" GREEN COMPOSITE MONITOR** \$109.95
12" Green composite / monochrome monitor that offers resolutions up to 640 x 200, with up to 80 columns with 25 lines. Requires ADAM Monitor Cable.
- **GOLDSTAR 2105A 12" AMBER COMPOSITE MONITOR** \$109.95
12" Amber composite / monochrome monitor that offers resolutions up to 640 x 200, with up to 80 columns with 25 lines. Requires ADAM Monitor Cable.
- **GOLDSTAR GSM-1200 BAUD MODEM** \$89.95
100% Hayes compatible, asynchronous, auto answer, auto dial, call progress monitoring with speaker. Requires Serial Interface and cable.
- **GOLDSTAR GSM-2400 BAUD MODEM** \$129.95
100% Hayes compatible, asynchronous, synchronous, full or half duplex, auto answer, auto dial. Requires Serial Interface and cable.

M.I. ADAMnet DISK DRIVES

Stand-alone floppy disk drives for the ADAM Computer. Plugs into the ADAMnet connector on the Memory Console. Comes with external power transformer and ADAMnet Cable. 100% compatibility with Coleco's ADAMnet Disk Drive and E&T Software's Disk Drive upgrades. Contact Micro Innovations for custom configurations.

- **5 1/4" 320K M.I. ADAMnet FLOPPY DISK DRIVE** \$199.95
- **3 1/2" 720K M.I. ADAMnet FLOPPY DISK DRIVE** \$249.95

PowerMATE HARD DRIVES

POWERMATE HARD DRIVE SYSTEMS & ACCESSORIES:

Standalone add-on subsystems that provide one or two 10, 20, or 40 MB Hard Disk Drives, one or two 320K or 720K Floppy Disk Drives, two RS-232 Serial Ports, a Parallel Printer Port, a Memory Expander Board Addressor Port and a Disk Cable for the Coleco ADAM Computer (also will soon provide a power supply for the entire ADAM System). Includes the most current version of the TDOS Operating System along with File Manager V3.0 and close to 1 MB of utilities, etc. pre-installed.. SmartMATE CART by Walters Software is recommended for EOS and CP/M users.

BASE UNITS:

- POWERMATE 10 (10 MB HARD DRIVE) \$399.95
- POWERMATE 20 (20 MB HARD DRIVE) \$499.95
- POWERMATE 40 (40 MB HARD DRIVE) \$599.95

OPTIONS:

- 5 1/4" 320K FLOPPY DISK DRIVE \$99.95
- 3 1/2" 720K FLOPPY DISK DRIVE \$99.95
- SECOND HARD DISK DRIVE: 10 MB \$149.95
- SECOND HARD DISK DRIVE: 20 MB \$224.95
- SECOND HARD DISK DRIVE: 40 MB \$299.95
- PERIPHERAL CABLE: SERIAL (6 feet) \$14.95
- PERIPHERAL CABLE: PARALLEL (6 feet) \$14.95

N.I.A.D. SERVICES

UPGRADE 5 1/4" 160K SINGLE-SIDED DISK DRIVE TO:

- 5 1/4" 320K DOUBLE-SIDED DISK DRIVE UPGRADE \$109.95
- 3 1/2" 720K QUAD-SIDED DISK DRIVE UPGRADE \$129.95

Send in your Coleco 5 1/4" 160K Single-Sided Disk Drive to be upgraded. Don't send the power supply transformer. Repair charge for defective drives. will be assessed (minimum of \$50.00). Send payment to NIAD, disk drive to: E & T Software - 9588 Forest Ln. #514 - Dallas, TX 75243 - (214) 349-7859.

DATA PACK CONVERSION TO DISK FORMAT \$4.00

Send in your title card from your Coleco data pack to be converted to disk. Titles which can be converted are: Buck Rodgers, Donkey Kong, Donkey Kong Jr., Dragon's Lair, Zaxxon, Recipe Filer, 2010: The Text Adventure, Richard Scarry's Best (specify 320K or 720K disk size), The Best of B.C., SmartLetters & Forms, CP/M 2.2. If you don't see a program listed above that you can't produce a working copy of on disk, call during regular business hours to see if we can do so for you.

SmartFILER UPGRADE TO VERSION 27D \$4.00

Send in your SmartFILER Disk or DDP to be upgraded to Version 27D which provides numerous fixes to bugs contained in Coleco's original release.

INFOCOM CONVERSION TO ADAM CP/M FORMAT \$4.00

Send in your INFOCOM titles to be converted to an ADAM CP/M format. We can convert: Zork I, II & III, Planetfall, Deadline, Starcross, HitchHiker's Guide to the Galaxy, Leather Goddess' of Phobos, Stationfall, Plundered Hearts, Seastalker and Ballyhoo. Most, if not all, Infocom titles are still available in just about any computer store. Does not matter what computer it is for, we can convert it to ADAM format.

EXPANSION MODULES

EXPANSION MODULE #1 ATARI 2600 ADAPTER \$44.95

Plugs into the front expansion slot on the ColecoVision or the right side expansion slot on the ADAM Memory Console. Allows for the use of ATARI 2600 compatible cartridges on the Coleco / ADAM systems. No additional hardware is required.

EXPANSION MODULE #2 DRIVING CONTROLLER \$44.95

Steering wheel controller with gas pedal for use on the ColecoVision or ADAM. Comes with a free TURBO game cartridge and manuals. A number of other Coleco cartridges require this controller in order to play.

ROLLER CONTROLLER \$44.95

Trakball controller with two joystick slots which creates a control center for use on the ColecoVision or ADAM. Can be used as a mouse-type controller in numerous ADAM programs. Comes with a free SLITHER game cartridge and manuals. A number of other Coleco cartridges require this controller in order to play.

SUPER ACTION CONTROLLERS \$49.95

The ultimate in joysticks for the ColecoVision or ADAM. Package includes two arcade style joysticks each with a 12 button keypad, 4 fire-buttons and speed wheel. Comes with a free SUPER ACTION BASEBALL game cartridge and manuals. A number of other Coleco cartridges require these controllers. All joystick controllable Coleco carts and ADAM software are 100% compatible with these controllers.

MANUALS & BOOKS

ACCESSING VRAM \$12.95

A detailed explanation and overview of the Video Display Processor and VRAM covering 15 pages which demonstrates how to set up the two most used graphics modes on ADAM in Z-80 code. Numerous SmartBASIC and Z-80 code listings.

BASIC BASIC PROGRAMS FOR THE ADAM \$8.25

A treasury of practical and entertaining SmartBASIC programs that take full advantage of ADAM's sound, color, and graphics. Includes full program listings, illustrations and explanatory notes. Perfect for the SmartBASIC newcomer and to supplement Coleco's SmartBASIC Manual.

FROM BASICS TO BASIC \$14.95

A beginners look at computers. The first step in moving from SmartBASIC programming to machine language. Contains detailed overviews of the systems used in the computer and why they are required. When the reader has completed, machine language programming will be possible. Numerous machine code listings.

HACKER'S GUIDE TO ADAM VOL. I \$11.95

Detailed look at the operation of the ADAM hardware and software. Operating system routines are identified and instructions given to control all aspects of the ADAM. Numerous SmartBASIC program listings included.

HACKER'S GUIDE TO ADAM VOL. II \$11.95

Continues from Vol. I plus: Basic overview, zero page, keywords, math routines, basic commands, screen and data / disk drive routines, schematics, etc. A must for the serious SmartBASIC programmer. Numerous SmartBASIC program listings included.

HACKER'S GUIDE VOL. 1 & 2 PROGRAMS (Disk or DDP) \$5.00

LEARNING TO DRAW WITH ADAM (Z-80) (Disk or DDP) \$24.95

Deals with graphics in general and teaches one how to address the video screen via the Z-80 microprocessor in all four standard modes of the ADAM Video Display Processor (TI-9928). The reader will finish this 161 page book with a vast understanding of the VDP through considerable drilling exercises and through the included SmartBASIC demo programs and listings.

LEARNING TO READ WITH ADAM (Z-80) \$24.95

A discussion of machine language instructions, some specifically, and a great many generally, as the author develops the disassemblies of all that transpires after the reset button is activated. Promotes direct use of routines in ADAM's EOS.

LEARNING TO WRITE WITH ADAM (Z-80) (Disk or DDP) \$24.95

Assumes the reader has a knowledge of Z-80. Discusses write to media operations, memory mapped ports vs. standard IN/OUT ports, device control blocks, creation of new routines to replace EOS write-block is created, mass storage, Master 6081 processor and much more. Comes with outstanding SmartBASIC demo programs.

MacADAM MANUAL \$19.95

An enlightening 72 page manual that aids the user of the public domain title "MacADAM" with simple step-by-step methods of programming macros. Numerous assembly language routines listed.

MacADAM DEMO FILES (Disk or DDP) \$5.00

N.I.A.D. PRODUCT REVIEW BOOK \$19.95

Contains detailed reviews of over 100 ADAM products previously reviewed in the N.I.A.D. Newsletter through 1987. Save money by knowing about the products you are thinking about purchasing.

N.I.A.D. PUBLIC DOMAIN REVIEW BOOK \$5.00

Booklet contains descriptions of all programs in the SmartBASIC (Vol. 1-33), SmartBASIC Utilities (Vol. 1-2) and SmartLOGO (Vol. 1-5) public domain libraries.

N.I.A.D. YEAR IN REVIEW: 1985 \$9.95

A 32 page book of ADAM product reviews which were published in the January 1985 through December 1985 N.I.A.D. Newsletters. Great money and time saver.

MISC. PRODUCTS

ADAMCON 01 VIDEO HIGHLIGHTS (VHS Tape) \$14.95

ADAM PRINTER RIBBON (DIABLO HYTYPE I FILM) \$4.95

ADAM PRINT WHEEL \$6.55

Specify font style for ADAM Printer: GOTHIC 12, SCRIPT 12, ELITE 12, EMPHASIS / ORATOR, COURIER 10 or PICA 10

ADAM PRINTER DUST COVER \$8.95

ADAM KEYBOARD DUST COVER \$8.95

ADAM COMPLETE MEMORY CONSOLE DUST COVER \$8.95

ADAM EXP. MOD. #3 MEMORY CONSOLE DUST COVER \$8.95

ADAM 5 1/4" OR 3 1/2" DISK DRIVE DUST COVER \$8.95

PANASONIC KX-P110i RIBBON for KX-P1080 / 1091 \$9.95

PANASONIC KX-P115i RIBBON for KX-P1180 / 1190 \$12.95

5 1/4" DISK DRIVE HEAD CLEANING KIT \$5.95

3 1/2" DISK DRIVE HEAD CLEANING KIT \$5.95

5 1/4" DISK STORAGE CASE (HOLDS 70 DISKS) \$5.95

3 1/2" DISK STORAGE CASE (HOLDS 50 DISKS) \$5.95

DISKS & DATA PACKS

256K NIAD ECONOMY ADAM DIGITAL DATA PACK \$2.00

10 256K NIAD ECONOMY ADAM DIGITAL DATA PACKS \$19.00

256K RIGHT DIRECTORY ADAM DIGITAL DATA PACK \$1.00

10 256K RIGHT DIRECTORY ADAM DIGITAL DATA PACKS \$9.00

50 5 1/4" DS/DD GENERIC DISKS with SLEEVES, TABS \$16.95

25 3 1/2" DS/DD 720K GENERIC DISKS \$16.95

BONUS 5 1/4" DS / DD DISKS (10 Pack) \$8.95

BONUS 3 1/2" DS / DD DISKS (10 Pack) \$11.95

N.I.A.D. BACKISSUES

N.I.A.D. NEWSLETTER BACKISSUES \$3.00

N.I.A.D. Newsletter Issues # 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 19, 20, 23, 42, 55 and 66 / 67. These issues are not valid for any special pricing.

N.I.A.D. NEWSLETTER BACKISSUES \$1.00

All other issues besides the ones listed above. Valid for specials pricing which are offered from time to time. Check monthly specials section.

ENTERTAINMENT

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BLACK GOLD	\$15.95
BLOCKADE RUNNER	\$15.95
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DIABLO	\$15.95
DINOSAUR DIG (64K)	\$16.95
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LAS VEGAS CRAPS	\$16.95
M&M JEOPARDY QUESTION PACK	\$14.95
MAGE QUEST	\$13.95
MIND OVER ADAM	\$11.95
MOONSWEEPER	\$15.95
MR. T SEARCH	\$12.95
MR. T SEARCH: GAMEPAK I	\$9.95
MR. T SEARCH: TRIVIAPAK I	\$7.95
MYSTERY & YACHT	\$14.95
N.I.A.D. GOLD: GAMES	\$9.95
N.I.A.D. GOLD: TEXT ADVENTURES	\$9.95
NOVABLAST	\$18.95
PHRASE CRAZE	\$17.95
PHRASE PAK I for Phrase Craze	\$9.95
PHRASE PAK II for Phrase Craze	\$9.95
PITY	\$18.95
PRO FOOTBALL	\$18.95
PRO GOLF CHAMP	\$14.95
PRO PICKS	\$18.95
REEDY ENTERTAINMENT PACK	\$13.95
REEDY SOFTWARE LIBRARY	\$17.95
ROBOTHIEF	\$19.95
ROCK'N BOLT	\$18.95
SMARTBASIC BONANZA	\$14.95
SMARTGAMES PACK	\$9.95
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STAGE FRIGHT	\$13.95
STATES RACE	\$15.95
STOCK MARKET GAME	\$15.95
STRATOZAP	\$16.95
SUPER PARROT	\$12.95
SUPER ZAXXON (DDP)	\$9.95
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TOURNAMENT TENNIS	\$18.95
TRIVIAPAK I	\$12.95
U-MATCH-EM	\$12.95
VASE OF TURR	\$29.95
WIZARD'S PINBALL ARCADE	\$14.95
ZORAN III	\$13.95

CONSTRUC. SETS

FAMILY FEUD WRITER	\$19.95
JEOPARDY WRITER	\$19.95
LINKBUILDER for Pro Golf Champ	\$19.95
MAGE QUEST CONSTRUCTION SET	\$13.95
PHRASE PAK CONSTRUCTION SET	\$9.95

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AMERICA AT WAR (DDP)	\$9.95
CHESS TUTOR #1 (DDP)	\$9.95
CHESS TUTOR #2 (DDP)	\$9.95
EASY AS A,B,C, & 1,2,3	\$11.95
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EXPERTYPE (DDP)	\$9.95
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ADAM CONNECTION (IBM DISK)	\$24.95
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ADAM'S DESK TOP (D/DP)	\$29.95
ADAMCALC PATCH	\$9.95
ADAMLINK II PATCH	\$9.95
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BACKUP 3.0 (DISK)	\$10.95
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SMARTDSK III for SmartBASIC	\$24.95
SMARTMATE CART (PowerMATE)	\$39.95
SMARTWRITER'S HELPER	\$10.00
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PRODUCTIVITY

ADAMLINK III+	\$24.95
ADAMLINK III UPGRADE TO III+	\$5.00
ADAMTALK V1.1 (EVE SS-CC)	\$19.95
ADDRESS BOOK / CALENDAR	\$9.95
AUTOAID\$24.95 AUTOWRITER	\$14.95
BASICAID V2.0	\$9.95
BORDERSPLUS for PrintWORKS	\$12.95
CLIP-ART VIEWER	\$24.95
E.O.S. FILE INDEXER	\$9.95
ELECTR. FLASHCARD MAKER (DDP)	\$9.95
FLASH FACTS: HISTORY (DDP)	\$6.95
FLASH FACTS: VOCABULATOR (DDP)	\$6.95
FONTPOWER	\$14.95
INTEL-BEST 3.3	\$18.95
LABEL MAKER DELUXE (DISK)	\$9.95
LABELWORKS, THE	\$24.95
MASTERING MUSIC	\$9.95
MR. T LIBRARY	\$10.95
MUSICPRO	\$15.95
PERSONAL CALENDAR UTILITY (64K)	\$19.95
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RECIPER FILER (DDP)	\$9.95
SMARTBASIC CART (V1.0 versions)	\$39.95
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SMARTTERM V1.02	\$15.95
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SPRITEPOWER	\$15.95
SUPERBASIC PLUS	\$9.95
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VIDEOTUNES	\$21.95
VISI-SPRITE V6.5	\$22.95

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CLIP-ART VOL. I & II	\$12.95
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SWIFTPRINT (64K)	\$15.95
YULE TOOLS I	\$16.95

\$4.00
DISK

N.I.A.D. PUBLIC DOMAIN SOFTWARE

\$6.00
DDP

MISCELLANEOUS VOLUMES

- SMARTBASIC BNDV # 1 - 36:** 36 different volumes containing assorted SmartBASIC entertainment, application, graphics, patch, utilities and other misc. programs. Most volumes are auto-booting and contain SmartWRTTR documentation.
- SMARTBASIC UTILITIES BNDV # 1 - 2:** 2 different volumes containing SmartBASIC utility programs such as file copiers, backup utilities, patches and other misc. programs. Volumes are auto-booting and contain SmartWRTTR documentation.
- SMARTLOGO LMDV # 1 - 5:** 5 different volumes containing SmartLOGO entertainment, application, graphics, utilities, patches and other misc. programs. Volumes require the user boot SmartLOGO first, contain SmartWRTTR documentation.
- ADAMCALC ANDV # 1 - 17:** 17 different volumes containing ADAMCALC spreadsheet formulas, tutorials and demonstrations. All volumes require the user to boot ADAMCALC first and contain SmartWRTTR or ADAMCALC documentation file(s).
- CP/M 2.2 CNDV # 1 - 57:** 57 different volumes containing CP/M 2.2 utilities, games, interpreters, patches, compilers, word processors and other misc. programs. Volumes require the user boot CP/M 2.2 first, most programs contain documentation.
- CPD SIGNS BNDV # 1 - 2:** 2 different volumes containing SIGHOP/NEWSMAKER graphic files for use with these programs by Strategic Software. Volumes require the user boot SIGHOP/NEWSMAKER first and contain SmartWRTTR documentation.
- FINBALL GAMES PNDV # 1 - 7:** 7 different volumes containing Finball Construction Set pinball games which were designed with this public domain program by Coleco. Each volume is auto-booting and contains SmartWRTTR documentation.
- VIDEOTUNES SONGS VNDV # 1 - 3:** 3 different volumes containing many assorted song files each that are for use with Videotunes by FutureVision. Each volume requires the user to boot Videotunes, then load the song file.
- MIDI SONGS MNDV # 1 - 9:** 9 different volumes containing many assorted song files each that are for use with Mini-Recorder by Bonafide Systems for the MIDI-MATE.
- SOLO-ADVENTURE PACK VOL. # 2 - 3:** 2 different volumes of Solo Adventures for use with Mage Quest by Reedy Software. Each volume requires the user to boot Mage Quest first and contain SmartWRTTR documentation.
- SUPER FRONT LINE DEMO:** A Coleco In-House demo of the never-completed supergame version of the ColecoVision cartridge Front Line. Program is auto-booting and runs through two very detailed demo screens of the supergame with sound.
- NIAD BACKISSUE INDEX:** SmartWRTTR database detailing the contents of past NIAD Newsletters through 1987. Requires that the user boot SmartWRTTR first and then follow the SmartWRTTR instruction manual in order to load the database.
- DUKAS MINI-REVIEWS VOL. #1-2:** 2 different SmartWRTTR databases with multi-reviews of hundreds of software and hardware products. Requires that the user boot SmartWRTTR first and then follow the included instruction sheet on how to access.
- DADAM SUPPORT DIRECTORY:** SmartWRTTR database containing names, addresses, etc. of ADAM support firms and user groups by Hector Sanchez. Requires the user boot SmartWRTTR and then follow the SmartWRTTR instruction manual.
- FLASH FACTS: MUSIC STUDIES:** Eight flashcard files for use with the Electronic Flashcard Maker by Coleco dealing exclusively with music theory. Requires the user boot E.F.M. by Coleco first and contains SmartWRTTR documentation.
- COLECO PRESENTS: SOFTWARE:** Coleco self-booting database program containing lists of planned Coleco software and cartridges for the ADAM and ColecoVision DDP ONLY.

GRAPHICS VOLUMES

- DRLE PICS VOL. # 1 - 4:** 4 different volumes of RLE picture files which can be viewed in SmartBASIC V1.0 with the included Cbcol-FAST program or in PowerPAINT, also contains SmartWRTTR documentation.
- DREYEDY ART GALLERY VOL. # 1 - 2:** 2 different volumes of 13 SmartPAINT format picture files to be viewed in SmartBASIC V1.0 with the included leader program or in PowerPAINT and other programs which support the SmartPAINT format.
- CN & B PIX VOL. # 1 - 28:** 28 different volumes of 13 SmartPAINT format picture files to be viewed / edited in PowerPAINT, ShowOFF, etc.
- DPAINTMATES VOL. # 1 - 13:** 13 different volumes of clip-art, sprite and font files for use with PowerPAINT, SpritePOWER and CLIPPER by Digital Express. The Print Works or The Label Works by Walters Software Co., and other assorted programs.
- CPAINTFORMS VOL. # 1 - 4:** 4 different volumes of assorted letterheads, labels font files and miscellaneous graphic files for use with PowerPAINT by Digital Express.
- CG.G.P. PIX VOL. # 1 - 3:** 3 different volumes of picture files for use with the Coleco Graphics Processor. All pictures are taken from Coleco / ADAM programs, and carts through the use of the cartridge version of The Coleco Graphics Processor.

ENTERTAINMENT VOLUMES

- OSUPER BUCK RODGERS:** This is the supergame which comes with the ADAM Computer and is offered here for replacement in the case of damage to your original.

- FINBALL CON. SET / HARD HAT MACK** (Best of Electronic Arts): Coleco pinball pack contains two great games in one package. New bug free version w/ 2 demo pinball games and an instruction sheet. **Add \$2.00 for 40 page manual.**
- DISPER SUB-FLOO:** Coleco supergame pack version of the Sub-Flo cartridge. This is a tremendous 3-D arcade action game with great graphics and a Hall of Fame option as well as an instruction sheet.
- TROLL'S TALE:** Coleco supergame pack originally developed by Silus Software. This is a children's adventure game with good graphics and offers a strong challenge as well as an instruction sheet.
- JEOPARDY:** Coleco supergame pack of the popular television game show. Fabulous game with great graphics, multi-player ability, load / save games and a Hall of Fame option as well as an instruction sheet.
- CARBAGE PATCH KIDS: ADV. IN THE PARK:** Enhanced version of the popular ColecoVision cartridge of the same name, but with better graphics and added obstacles to be avoided by the gem(s).
- ITEMPLE OF APHAI:** Revision 2: Epyx supergame pack which was never released. This is a role playing adventure with graphics and some arcade sequences. Disk and DDP not compatible. Comes with instruction sheet.
- YOKES ON YOU / MATH WIZ:** Cars which were developed by Fox Games & Stern. Play the role of a toster in helping the chicken collect her eggs and a tremendous math skills arcade builder for ages 4-up. Comes with instruction sheet.
- JA-CHESS (SARGON):** Great graphic chess game which was developed in CP/M and modified by Chris Braymen. Comes on an auto-booting media and includes documentation on how to use.
- DS SCREEN DONKEY KONG JR.:** Coleco's In-House version of Super Donkey Kong Jr. with an additional 5th play level, MARIO'S BAKERY (arcade version doesn't even have this level). This version automatically runs through all screens.
- CHIESS SOLITAIRE:** Great graphics version of chess where you try to guess the moves of the masters (15 different classic games are included). Also contains a second game, Knight's Tour, and documentation in program.
- COLLOSSAL CAVE:** Enormous text adventure program which was the forerunner to the line of Infocom text adventures known as ZORK. Includes TDOS V4.5B.
- DISPER DAM BUSTER:** Supergame version of the cartridge with added screens and Hall of Fame. The only flight simulator available for all systems.
- GAMES EVER MADE:** Are you good enough to defeat the NAZI forces?
- THE BEST OF B.C.:** A two supergame pack with B.C.'S QUEST FOR TREES and B.C. II: GREGG'S REVENGE developed by Coleco of Canada. Help their past obstacles to find Cate Chick and to find the Meaning of Life.
- DMOJUG PHRASE PARK:** An additional 300 phrases for use with Phrase Craze by Reedy Software. Compiled by George Drank. Contains SmartWRTTR documentation.
- THE ABOMINABLE SNOWMAN:** Search the Great White North for the illustrious Abominable Snowman. Be careful in your quest, there are many pitfalls that you will face. Contains SmartWRTTR documentation.
- CLASSIC UNRELEASED CARTS:** A collection of 8 cartridges: Fall Guy, Video Hustler, M.A.S.H., Super Cobra, Memory Manor, Word Feud, Artillery Duel and Tomarc the Barbarian. Contains SmartWRTTR documentation.

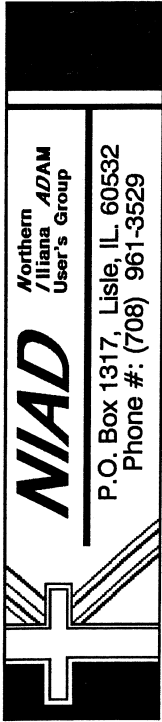
UTILITY VOLUMES

- DEOS DISK MANAGER:** Coleco utility program which was supplied with the 5 1/4" 16K Disk Drive. Also contains the most current Coleco EDS Revision, Rev. 7.
- DSPEED CHECK V2.0:** Enhanced Coleco digital data drive test program to assure proper speed operation of drives for best read / write performance. Best results will occur by purchasing disk from us instead of ddp and then copying over to ddp.
- DADAM UTILITIES:** Coleco In-House utilities, test and demo programs contained on an auto-booting media. Memory expander required for some of the system testers. Also includes Adam Diagnostic and an instruction sheet.
- MACADAM: Z80 / EDS Assembler** written in machine code for the immediate to advanced machine code programmer. Contains manual in SmartWRTTR format.
- DISTRATEGIC SOFTWARE PATCHES:** SmartBASIC V1.0 programs for patching Strategic Software's SIGHOP, NEWSMAKER, MULTIVITE, MICROWORKS, etc. programs for use with dot matrix printers as well as major enhancements made to the MultiWrite Word Processor. Contains SmartWRTTR documentation.
- COLECO GAME COPY:** Coleco In-House cartridge copy utility as well as a media backup utility rolled into one program. Will copy most of the available cartridges.
- SHAPEMAKER:** Great SmartBASIC V1.0 utilities for creating shapes and placing text on the HGR or HGR2 screen.
- CMEDIA MATE:** Three tremendous utility programs for editing data packs and disks in SmartBASIC V1.0. Contains informative SmartWRTTR documentation.
- QUICKCOPY V5.0:** Excellent machine code copy program (block and file) with additional ramdrive and ramcopy software. Compatible with all memory expanders and disk drive sizes. Contains a 37 page manual in SmartWRTTR format.
- COLECO IN-HOUSE PROGRAMS:** Six separate programs: three diagnostic

- programs along with the Turnell/Troll, ADAM and MIDI Demos.
- MIDI DRIVERS & DEMOS:** A collection of MIDI SmartBASIC V1.0 utilities programs along with technical information of the MIDI file setup. Contains SmartWRTTR documentation.
- SOFTWARE BACKUP V1.0:** Allows for the backing-up of bootable programs onto the same media. Up to six self-booting programs can be placed on one Software Backup media. Most program work file. Contains SmartWRTTR documentation.
- TRILD TEST:** Coleco's own In-house utility designed specifically for testing the operation of the 5 1/4" 160K Coleco made disk drive. No technical knowledge required, just boot-up and wait for the results. Contains SmartWRTTR documentation.

PRODUCTIVITY VOLUMES


- DADAMLINK II:** Coleco's advanced telecommunications software with all the features of ADAMLINK I and the added ability to up and download ASCII files. Comes with addendum instruction sheets to the ADAMLINK I manual.
- MARKET MONITOR:** Coleco of Canada marketing system program for the personal investor. Not totally bug free. Contains SmartWRTTR documentation.
- TAX PLANNER:** Coleco of Canada business software which will create a clearer and more complete picture of your tax situation. Contains SmartWRTTR docs.
- DVSI-SPRITE V6.0:** Advanced sprite development package with many powerful built-in features. This is the crisp/revue version of the copyrighted version 6.5 and is made available for demo purposes and a chance to test out before buying V6.5.
- DATAVINO:** Great graphic design utility from France using a point-and-click method of operation along with a SmartBASIC V1.0 utility to convert DATAVINO files into GraphiPAINTER files. Contains SmartWRTTR documentation. DISK ONLY.
- DX-10 CONTROL SOFTWARE:** Home appliance control / security system software. Requires a Serial Interface, Serial Cable and the X-10 Hardware. Contains SmartWRTTR documentation.
- COLECO GRAPHICS PROCESSOR:** Coleco's graphic design utility used to create graphics for cartridges and supergames. Now, on an EDS media. Instructions are provided as well as a picture file conversion program. Requires memory expander.
- ITDOS V4.5B:** Super enhanced version of CP/M 2.2 which operates much like MSDOS. Adds many new features. On 1 - Data Pack \$6.00 and \$2.00 for 30 page manual. OR on 2 - 5 1/4" disks \$8.00 with manual in Doc file.
- SMARTBASIC V1.0:** Coleco's original SmartBASIC which came with the ADAM. This is available for replacement on DDP / Disk and has been enhanced for disk owners.
- SMARTBASIC V2.0:** Coleco's extended / enhanced version of SmartBASIC V1.0 (49K versus 28K) with memory expander access, but is not fully compatible with V1.0. Contains SmartWRTTR documentation.
- FRENCH BASIC:** Great modification of SmartBASIC V1.0 with demos. Must have version for the serious programmer that includes 10 new commands for using sprites, windows, easy color changes, etc.
- SMARTBASIC V2.1:** Nice modification of SmartBASIC V2.0 that adds macros for string inputs, formater and backup programs. Contains SmartWRTTR documentation.
- SMARTBASIC V2.0 40 COLUMN:** 40 column text version of SmartBASIC V2.0 which works in STDMEY or EXTMEY modes. No longer do you have to bother with a non-standard 31 column screen. Contains SmartWRTTR documentation.
- MAUSTALLUM:** SmartBASIC: Enhanced SmartBASIC V1.0 with SmartKEY display of some of the most often used SmartBASIC commands (ie: RUN, LIST, SAVE, etc).
- LADAM FORTH V1.1:** ADAM compatible version of this popular programming language. Comes with a number of programs on media and instruction sheet.
- COLECO PERSONAL CP/M:** Coleco's In-House version which evolved into CP/M 2.2. Made available for collectors and as an easy way to test the ADAM components. Comes with instruction sheet.
- TRACKER:** Allows for the tracking of Hurricanes in the Gulf Coast area. Enter 14 x and y coordinates and then save them as a file or view the hurricane in action on the high-resolution map of the area. Includes SmartWRTTR documentation file.
- USP-1 CUSTOM PRINTER SOFTWARE:** Specialized software patches for use in SmartWRTTR. Used to imbed software commands. Available for the following printers: Panasonic 1080 / 91 / 92 / 93, Star G10 / G20, Epson FX / FX Blue Chip, Olympia 860, Brother 2024L, Smith Corona: Comprehensive stat. comp. for plotting, balling and beam testers with full line of edit features, save option, print features for ADAM Printer or dot matrix by Mizar's Ltd. Comprehensive instructions in SmartWRTTR.
- CPAINT PALETTE:** For use with PowerPAINT. Will provide you with over 200 different shades of color, where normally the total number of colors accessible is 16. Contains SmartWRTTR documentation.
- SMARTBASIC CONSTRUCTION KIT:** Designed to aid the novice programmer better understand the many commands resident in SmartBASIC V1.0. Fully menu driven and auto-booting. Contains SmartWRTTR documentation.
- DAWGNOW DAWGS:** This program will, on a consistent basis, select the dog most likely to win at the local dog track through data that is inputted by the user. However, this is not a get-rich-quick scheme. Contains SmartWRTTR documentation.

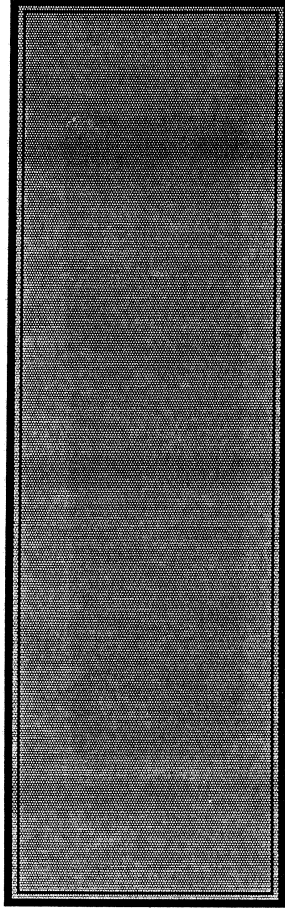


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" For GOD so loved the World that he gave his one and only SON, that whoever believes in him shall not perish, but have eternal life. For GOD did not send his SON to condemn the World, but to save the World through him. " . . . John 3:16

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