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Issue #73 - February 1991  
Editors: Lyle Marschand & James Notini  
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Continuing our study of John chapter 6...

<sup>35</sup> Jesus said to them, "I am the bread of life; he who comes to me shall not hunger, and he who believes in me shall never thirst. <sup>36</sup> But I said to you that you have seen me and yet do not believe. <sup>37</sup> All that the Father gives me will come to me; and him who comes to me I will not cast out. <sup>38</sup> For I have come down from heaven, not to do my own will, but the will of him who sent me; <sup>39</sup> and this is the will of him who sent me, that I should lose nothing of all that he has given me, but raise it up at the last day. <sup>40</sup> For this is the will of my Father, that every one who sees the Son and believes in him should have eternal life; and I will raise him up at the last day." <sup>41</sup> The Jews then murmured at him, because he said, "I am the bread which came down from heaven." <sup>42</sup> They said, "Is not this Jesus, the son of Joseph, whose father and mother we know? How does he now say, 'I have come down from heaven?'" <sup>43</sup> Jesus answered them, "Do not murmur among yourselves. <sup>44</sup> No one can come to me unless the Father who sent me draws him; and I will raise him up at the last day. <sup>45</sup> It is written in the prophets, 'And they shall all be taught by God.' every one who has heard and learned from the Father comes to me. <sup>46</sup> Not that any one has seen the Father except him who is from God; he has seen the Father. <sup>47</sup> Truly, truly, I say to you, he who believes has eternal life. <sup>48</sup> I am the bread of life. <sup>49</sup> Your fathers ate the manna in the wilderness, and they died. <sup>50</sup> This is the bread which comes down from heaven, that a man may eat of it and not die. <sup>51</sup> I am the living bread which came down from heaven; if any one eats of this bread, he will live for ever; and the bread which I shall give for the life of the world is my flesh."

<sup>52</sup> The Jews then disputed among themselves, saying, "How can this man give us his flesh to eat?" <sup>53</sup> So Jesus said to them, "Truly, truly, I say to you, unless you eat the flesh of the Son of man and drink his blood, you have no life in you; <sup>54</sup> he who eats my flesh and drinks my blood has eternal life, and I will raise him up at the last day. <sup>55</sup> For my flesh is food indeed, and my blood is drink indeed. <sup>56</sup> He who eats my flesh and drinks my blood abides in me, and I in him. <sup>57</sup> As the living Father sent me, and I live because of the Father, so he who eats me will live because of me. <sup>58</sup> This is the bread which came down from heaven, not such as the fathers ate and died; he who eats this bread will live for ever." <sup>59</sup> This he said in the synagogue, as he taught at Capernaum.

<sup>60</sup> Many of his disciples, when they heard it, said, "This is a hard saying; who can listen to it?" <sup>61</sup> But Jesus, knowing in himself that his disciples murmured at it, said to them, "Do you take offense at this? <sup>62</sup> Then what if you were to see the Son of man ascending where he was before? <sup>63</sup> It is the spirit that gives life, the flesh is of no avail; the words that I have spoken to you are spirit and life. <sup>64</sup> But there are some of you that do not believe." For Jesus knew from the first who those were that did not believe, and who it was

that should betray him. <sup>65</sup> And he said, "This is why I told you that no one can come to me unless it is granted him by the Father."

<sup>66</sup> After this many of his disciples drew back and no longer went about with him. <sup>67</sup> Jesus said to the twelve, "Will you also go away?" <sup>68</sup> Simon Peter answered him, "Lord, to whom shall we go? You have the words of eternal life; <sup>69</sup> and we have believed, and have come to know, that you are the Holy One of God." <sup>70</sup> Jesus answered them, "Did I not choose you, the twelve, and one of you is a devil?" <sup>71</sup> He spoke of Judas the son of Simon Iscariot, for he, one of the twelve, was to betray him.

This passage of verses communicate the basic purpose of Jesus' ministry on the earth. He clearly states that He is the Son of God, who was sent by God the Father to provide eternal life to God's children on Earth.

Many people and even several religions think that Jesus was a great "man" and a prophet, but they deny his deity. These verses are in direct conflict to this type of view of Jesus and very specifically state **who he is and why he came:**

1. "For I have come down from heaven." (v 38)
2. "All that the Father gives me will come to me..."(v37)
3. "For this is the will of my Father, that every one who sees the Son and believes in him should have eternal life..." (v 40)
4. "I am the bread which came down from heaven." (v 41)

What you have to ask yourself is whether you believe the Bible or not. Unfortunately, many people choose to believe some of the Bible, but not all. They tend to pick out certain verses that they don't want to believe in. This is a major problem from the perspective that people will say they believe in the Bible, when they really mean that they believe in some of the Bible. This is like picking and choosing what laws you want to adhere to! Somehow I can't picture telling a judge that the reason you broke a law was that you didn't believe in it!

Either the Bible is true or it isn't. **The Bible is the "Word of God"** and the truths contained in it are intended to teach us God's plan for salvation. Many people are now turning to the Bible to see what it has to say about some of the events that are occurring in the Middle East right now.

I think that many of us believe that the Bible is true in our heart but we are too "wordly" to admit it. I was on a college campus last week and as I was walking through the hall I overheard a student saying that the Bible no longer has a purpose in today's culture, as it did in the "old days". I'm sure many people think this way, but Jesus said many times in the Bible that he was the "beginning and the end", the "first and the last", the Alpha and the Omega".

In Matthew 25:35 it says "Heaven and earth will pass away, but **my words will not pass away.**"

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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 Dec./Jan. issue of N.I.A.D. is the 73rd issue published by N.I.A.D., there are 72 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 **0291** 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.

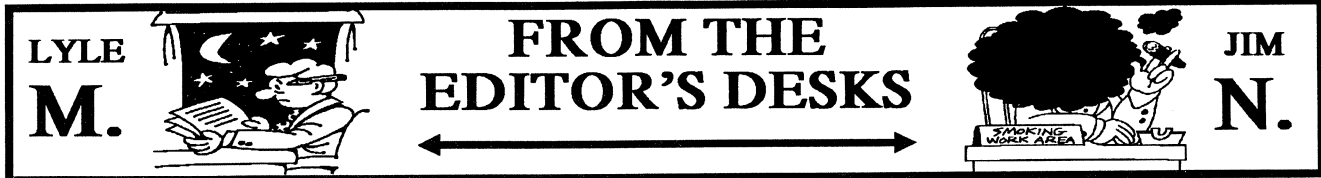
⇒ N.I.A.D. welcomes software developers to submit their programs for us to evaluate for possible commercial sale. Send in your products for us to test and to review in the newsletter. N.I.A.D. offers a 50 / 50 split of the sale price on all items that we handle distribution of for all developers. You 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):

**March 14, 1991**  
**April 11, 1991**  
**May 9, 1991**  
**September 12, 1991**  
**October 10, 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...)

The words of the Bible are timeless and apply to today as much as they did 2000 years ago. The Bible contains a full account of the events that will occur in the future as well, many of which are occurring right now. The tiny little nation of Israel is in the center of the most explosive area of the world, just as the Bible indicated.

So, although it may be fashionable to not publicly state that the Bible is all true, the facts are speaking for themselves.

The Bible clearly states who Jesus was and what he came for - to give each of us the opportunity to have eternal life and salvation. Verse 40 states that every one who believes in Jesus will have eternal life and will be "raised up" in the last day. I want to be one of those, don't you? How is this done - **just believe in Jesus as the Son of God, who died for the forgiveness of your sins.**

Some people have difficulty with Jesus' statements in verses 53 - 58. Jesus was speaking of what a person needs to do to really accept Him as their personal saviour. The concept of eating his flesh and drinking his blood is a symbol of accepting the eternal life that only comes by believing in him. As I wrote last month, Jesus used the concept of our need for bread to keep us alive physically and related it to our need for spiritual food to keep us alive spiritually. This is what he is talking about here as well and he explains the fact that his discussion of his body and blood was a spiritual discussion, not meant to be physically interpreted (see verse 63 where he states "...the flesh is of no avail; the words I have spoken to you are spirit and life.")

God bless you all.

I'm sure that most of you are focused on the War in the Gulf. It is kind of hard not to focus on it with all the coverage that it is being given. Never before have we had a war that is so close from their perspective that we see the actual bombings through the eyes of the "smart" bombs themselves and hear live reports from the scene as the events are happening. It is so real, yet it isn't because we just see it through a TV or radio. The Coalition forces are there for real, experiencing the excitement and the horror of a "real" war. Lets keep them all in our prayers and not grow callous to what they and their families are going through.

Here on the ADAM front things are going great. We are very pleased to announce the **availability a fully compatible ADAM disk drive** from Micro Innovations. This drive is a full replacement for the Coleco manufactured drive, offering more disk capacity at a lower cost. A full 320K 5 1/4 drive is only \$199.95 and a 720K 3 1/2 drive is only \$249.95. The original Coleco drive had only 160K and retailed for \$250 to \$300 !! This is a great deal for all you ADAMites who have been waiting for your first drive or an add on. These drives come with a power supply and the software you need to format diskettes to get the full capacity of your drive and use all the standard ADAM software.

The **ADAM community has been waiting a long time for another ADAM compatible disk drive** and thanks to Micro Innovations we now have one !

It was great to have Tony Patterson of Digital Adventures here on February 14th for our User Group meeting. Tony was in Milwaukee and drove down just to see us. We talked about how he went about writing his great Temple of the Snow Dragon adventure game. Thanks alot Tony.

Jim has done his usual great job in putting together another newsletter full of ADAM information, news and tips. Read and learn / enjoy to get more out of your ADAM!

Here we are again, scrambling to get the February issue of the N.I.A.D. Newsletter out and into your hands in the midst of all the turmoil that has erupted in the World the last month and a half. Let's hope that by the March issue, the war in the Middle East and the other problems in the Baltic States will have come to a switch end for the sake of the hundreds of thousands of soldiers and personal in these areas.

A lot is currently going on in the ADAM world also. We finally have the release of ADAM compatible disk drives by Micro Innovations, which will ease the growing demand that has occurred for the Coleco made disk drive. Also, M.I.'s planned line of low cost (not low quality) PowerMate and ADAMnet hard drive systems should be made available within the coming months. These hard drive systems will be the perfect addition for those of you who do not wish to spend up to \$500 on the complete PowerMate hard drive turnkey system. Oasive Pensive Abacutors is inching closer and closer to having the A.I.M. video board available for purchase. We have the events of ADAMCON 03 unfolding and many more people have committed to attending this third annual ADAM only convention. The ADAM News Network, A.N.N. (not related in anyway to C.N.N., but just as good), is publishing some terrific monthly article disks / data packs as well as beginning work on a project known as the "ADAM SURVIVAL GUIDE" which will be made available at ADAMCON 03. Along with all these projects and products, there are some new software programs which will be released shortly that should provide for many hours of entertainment as well as productivity usage on the ADAM. So stay tuned to the goings-on over the next couple months leading up to ADAMCON 03, all the developers will be pushing frantically to have their 'wares available in time for this major event.

I would like to thank Tony Patterson, Digital Adventures and Temple of the Snow Dragon fame, for taking time out of his busy schedule which has him traveling all over the country and paying us a visit at our February meeting (he drove all the way down from Milwaukee during some pretty bad weather!). To our members surprise, they found out that the second in the Dalark Trilogy and sequel to Temple of the Snow Dragon, Pit of Reshus, is in the developmental stages and will be definitely be released. No exact date has been set yet due to Tony's heavy workload, but in the meantime, Tony did pass along some very useful public domain packages that will be made available as soon as we have compiled sufficient documentation and he also graciously handed over what was completed on the long awaited "Pictorial Graphics Library" for us to complete and make available. So you see, it does pay off to come to the meetings which are held on the second Thursday of each month, due to the fact that on occasion we have a surprise visitor as well as, do I say it, myself and Lyle available to drill with questions. The only flaw with the February meeting was the fact it fell on Valentine's Day, my girlfriend almost killed me!

The last little bit I would like to mention is the matter of how slow the U.S. Postal Service was to deliver the December / January issue to members whose membership is 3rd class. This particular issue was mailed on the 26th of January and still many had not received the issue up to the 16th of February. If you are one of these people who had a long delay in receiving this issue, I would highly recommend updating your current membership for the remaining months to 1st class. Third class mail is handled entirely different from 1st class and if for some unforeseen reason the post office can't deliver the newsletter to you, it will either be thrown out or returned to us. This issue you are reading now, February 1991, will be mailed out on the 21st or 22nd.

**TIL NEXT MONTH, "KEEP ON ADAMing!"**



# NIAD NEWS & UPDATES

⇒ **THE ADAM CONNECTION**, operated by Steve Major, has announced that their planned monthly ADAM publication, C.A.I.N., will not be published due to a lack of subscriptions. All subscriptions received should have been refunded by the time you read this. The ADAM Connection, however, still is fully functioning as an ADAM vendor of hardware, software and supplies and also has a BBS service on-line (see the ADAM BULLETIN BOARD article).

⇒ **EYEZOD GRAPHICS**, operated by Pat Herrington, has made available an additional set of graphic files, Yule Trims I, for use with PowerPAINT which are oriented towards the Christmas season, but can be used for many other purposes. In order to receive this bonus package, you'll need to purchase Yule Tools I and mail-in the survey with \$7.50. Yule Trims I consists of a multitude of beautiful graphics files including a full-page Christmas tree; numbers and punctuations to match Candy Can Clips; number sprites to match Kringle, Pringle, and Frosty sprites; more frame clips; and much, much more.

⇒ **TRISYD VIDEO GAMES**, operated by Syd Carter, has announced that the MegaCopy III data pack formatter will no longer be produced due to a lack of reliable circuit board developers. However, a new design is in the works and we should see MegaCopy IV made available in the near future.

⇒ **WALTERS SOFTWARE CO.**, operated by Jim Walters, has announced that work on the SmartDSK Cart II has started up once again. When completed, owners of the SmartDSK Cart I will be offered an upgrade at a reasonable cost. SmartDSK Cart II promises to be the most complete and easy to use set of utilities ever compiled into one SmartKEY driven program ever assembled for the ADAM. Best of all, the functions of the cartridge will be instantly accessible by pulling the cartridge reset switch. More news will follow as we receive it. Also, Walters Software Co. has written a patch that allows SpeedyWrite V2.0 to work from a multiple block directory. What this means is that owners of SpeedyWrite V2.0 and SpeedyWrite Spell can put both programs together on the same media and or take advantage of the larger drive sizes. Note that your data disks or tapes already may contain multiple block directories, but the original SpeedyWrite V2.0 media must be a one block directory. For details on how to receive the patch information, contact Walters Software Co.

⇒ **PITMAN SOFTWARE**, operated by Steve Pitman, is completing work on their sixth entertainment package for the ADAM called RoboTHIEF. Over the last couple months, many modifications and enhancements have been made to the program which has held it back from being released. We hope to have RoboTHIEF available by as well as a review next month.

⇒ **M.M.S.G.**, operated by Jim Marshall, is nearing completion of their long awaited strategy / arcade game, Galactic Bounty Hunter. This is a program which many thought would never see the light of day, but reports indicate that development still continues although slowly. More news will follow as we receive the information.

⇒ **MICRO INNOVATIONS**, operated by Mark Gordon, should have released their line of ADAM compatible disk drives which operate off of the ADAMnet, this means 100% compatibility with Coleco made disk drives as well as disk drive upgrades performed by E & T SOFTWARE and ADAM'S HOUSE. The M.I. disk drive is available in two standard setups through N.I.A.D.: 5 1/4" 320K and 3 1/2" 720K E & T compatible. Custom setups which are available directly through M.I. include: 5 1/4"

160K, 5 1/4" 360K, 3 1/2" 720K Orphanware compatible. The retail on all 5 1/4" disk drives is \$199.95 and all 3 1/2" 720K disk drives retail at \$249.95. Also, coming in March from M.I. is a stand-alone PowerMate Hard Drive. This unit, model name PowerMate H.D. LC, will consist of a 40 Mb Hard Drive contained in a housing about the size of a disk drive, and an interface board which will install in slot #2 inside the Memory Console, which will also offer a Parallel Interface and Addressor connection. This will be the perfect setup for those who don't need all the extras that the PowerMate H.D. offers. Retail price is tentatively set at \$299.95. Following the PowerMate H.D. LC will be the ADAMnet H.D., which again will be a 40 Mb Hard Drive contained in a disk drive sized housing, but it will hook-up to the ADAM through the ADAMnet port on the Memory Console. The advantage to the ADAMnet H.D. will be 100% compatibility with all EOS software programs, where as the PowerMate H.D. line is not compatible with all EOS programs (CP/M and TDOS drivers will have to be developed in order for these operating systems to work with the ADAMnet H.D.). Pricing has not been set yet. Watch for further details on these products in next months issue or contact M.I. direct via mail, phone or their BBS.

⇒ **OASIVE PENSIVE ABACUTORS**, operated by Gary Bowser, has supplied the following specs and information on the soon to be released ADAM Image Maker: Uses the new TI V9958 video chip; 192K of VRAM; a special ASIC device; a 25-pin monitor / expansion port for future video devices (digitizers, genlocks, etc.); analog RGB video device circuitry; step-by-step user installation guide; SmartBASIC and Z80 V9958 programming guide; recommended RGB monitor guide; graphic demos displaying the power of A.I.M.; GIF file viewer supporting the V9958 and software patches for CP/M, TDOS and SmartBASIC to allow full use of the V9958 processor. More details will follow as received or you may write directly to O.P.A. and request a copy of O.P.A. News, their new quarterly newsletter.

⇒ **ADAM NEWS NETWORK**, operated by Barry Wilson, has become a subscription only distribution. A.N.N. is the disk / data pack distribution of ADAM only articles and programs which is published monthly. Each month's distribution contains over 200K of articles and public domain programs, an unheralded value for only \$35 a year. Other news out of A.N.N. pertains to the start of a manual called "The ADAM Survival Guide". This guide will be similar to the "ADAM Resource Directory" which was published several years ago. A.S.G. will include basic ADAM information for beginners as well as more advanced sections, product descriptions of software and hardware that has been developed over the years, name and addresses of ADAM support firms and much more. As plans look right now, A.S.G. may well run over 200 pages long! Planned release date is August 1st at ADAMCON 03.

⇒ **ADAMCON 03**, coordinated by Dean Roades, the 3rd Annual International ADAM Convention, is developing into the most widely talked about and supported event of the year. See the information and registration articles contained in this issue for the most up-to-date happenings.

⇒ **ADAM'S HOUSE**, operated by Terry Fowler, has accumulated a tremendous amount of surplus and like new hardware that should provide ADAMites with spare parts, repair parts and like new components (ie: disk drives, data drives, modems, memory consoles, printers, circuit boards, etc.) for many years to come. Time will be needed by ADAM'S HOUSE to sort through and test all the equipment, but detailed information and pricing should be made available by them shortly.

⇒ **WHITE CO.**, operated by David White, has developed a patch for SpeedyWrite V2.0 which allows the program to boot from any of the hard drive systems currently available for the ADAM. If you are interested in this update to SpeedyWrite V2.0, contact Al Fitzgerald on the SLAUG BBS or write and include SASE: 8747 Annetta Pl. - St, Louis, Missouri 63147.

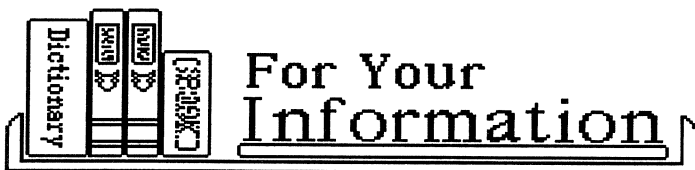
⇒ **E & T SOFTWARE**, operated by Ed Jenkins, as mentioned in last month's newsletter has shut down operations, but not completely! Remaining inventory has been drastically reduced in price and will still be available for purchase as long as supplies last. If you are interested in finding out what is available, contact E & T after 6:00 pm weekdays and reasonable hours on Saturday.

⇒ **MAINE ADAM LIBRARY**, operated by Bob Sebelist, has released Appointment Book. This programs makes excellent use of graphics to present the current and future day's schedule which are entered by the user. Not only can an appointment book be setup, but also a phone directory amongst many other options. However, A.P. requires either the EVE / OBS clock card or the SmartCLOCK by Trisyd V.G.. A review will be contained in next months issue.

⇒ **THE ADAM EXCHANGE BBS**, operated by George Koczwar and Herman Mason, have made available once again the OBS / Classic ADAM Minni-Winni Hard Drive which was developed by John Lingrel. The Minni-Winni H.D. and interface installs internally in the Memory Console with minimal modification to the memory console casing and is powered by an IBM power supply. Further details and pricing are unknown at this time, but you can details through their BBS or by writing Herman Mason: 8912 Blaine Ave. - Cleveland, OH 44106.

⇒ **ADAMLINK OF UTAH**, operated by Alan Neeley, has completed the compilation of their ADAMCON 02 VHS video. The ADAMCON 02 VIDEO can be purchased directly through A.L. of Utah and retails for \$10.95 + \$3.00 shipping.

⇒ **JASON BROWN SOFTWARE**, operated by Jason Brown, is nearing completion on their full blown hypercard-type software for the ADAM. For further news on what hypercard offers, read the article contained in this issue.



**BLURRY EYED ADDENDUM**

John Luce, a new member from Portland, OR, has come up with an improvement to the TV/Monitor enhancement that was developed by Bob Slopsema. He came up with an improvement that eliminates the solder connections - Radio Shack Video/RF Adapter @ \$1.29 (part # 278-255A), which will adapt the coaxial plug(s) on the booster to an ADAM RCA plug connection. Thanks John, and also Bob for supplying the updated information to us.

**FOR SALE BY OWNER**

⇒ ADAM System w/ printer \$135.00; ADAM System w/ covered power supply/no printer \$100.00; Colecovision complete \$35.00; SmartLetters & Forms \$12.00; Recipe Filer \$7.00; SmartFiler \$12.00; ExperType \$10.00; CP/M 2.2 w/ manual \$15.00; SmartLOGO w/ manual \$10.00; ADAMCALC w/ manual \$15.00; WordStar 3.3 (converted for ADAM CP/M) w/ manuals \$35.00; Misc. other software and cartridges (send a SASE for list). Contact : Bob Slopsema - 1815 Camille SE - Kentwood, MI 49546 - (616) 949-9461.

⇒ 2 - Coleco 5 1/4" 160K Disk Drives @ \$100.00; 2 - Memory Consoles with 2 Digital Data Drives, Keyboards and hand controllers @ \$100.00; ADAM Printer \$50.00; Printer Power Supply \$10.00; 64K Memory Expander \$20.00; Parallel Printer Interface and cable \$20.00; Numerous commercial and public domain data packs and cartridges. \$500.00 for everything and I pay UPS to anywhere in the USA. Contact: Eric Webster - Roberts Ridge Rd. - HCR 72 Box 5444 - E. Waterboro, ME 04030 - (207) 247-3204.

⇒ ADAM Exp. Mod. #3 System with 2 data drives; 64K Memory Expander; 5 1/4" 160K Coleco disk drive; Colecovision video game system; Roller Controller; numerous commercial and public domain programs on disk or datapack; numerous cartridges and also books. Contact: Ed Vesely - (708) 852-0882.

⇒ Complete ADAM System as originally sold with extra Data Drive and 64K Memory Expander installed \$135.00; 2 New Keyboards w/ cables @ \$12.00; Modem with software and manual \$35.00; 8 -Data Drives @ \$20.00; 5 Data Drives w/o front door @ \$12.00; software like new in original boxes from \$5.00 to \$12.00; 60 Coleco data packs with programs - 6 for \$10.00. Add 10% for shipping charges. Contact: Roger Kish - 1175 Whispering Pines Dr. - Scotts Valley, CA 95066.

**N.I.A.D. SPECIALS & NEW PRODUCTS**

**COLECO COMPATIBLE ADAMnet FLOPPY DISK DRIVES**

Stand-alone floppy disk drives for the ADAM computer. Plugs in to ADAMnet. Comes with external power cube and ADAMnet cable. Available with several different PROMs. Standard PROMs are: 320K Double-Sided format for the 5 1/4" drive and 720K E & T Software format for the 3 1/2" drive. Non standard PROM setups available directly through Micro Innovations which include: 5 1/4' 160K Single-Sided, 5 1/4' 360K IBM format and 3 1/2' 720K Orphanware format.

- 320 Kb 5 1/4" ADAMnet F.D.D..... \$199.95
- 720 Kb 3 1/2" ADAMnet F.D.D..... \$249.95

**WHILE IN-STOCK SUPPLIES LAST**

- BASIC BASIC PROGRAMS WITH ADAM.....\$5.00
- N.I.A.D. PRODUCT REVIEW BOOK.....\$7.95
- ADAM BOMB.....\$7.95
- AMERICA AT WAR.....\$5.00
- BACKUP 3.0 (DISK).....\$7.95
- BASIC BONANZA.....\$7.95
- BASIC SYSTEM MGR./FASTRUN.....\$7.95
- BLACK GOLD.....\$7.95
- CABBAGE PATCH KIDS: PIC SHOW (CART).....\$7.95
- DINOSAUR DIG.....\$7.95
- DIABLO.....\$7.95
- EASY COME, EASY GO.....\$7.95
- FLASH FACTS: HISTORY.....\$5.00
- GREAT INVENTIONS GAME.....\$5.00
- THE HEIST (CART).....\$7.95
- WORLD CAPITALS.....\$5.00

**DYNAMITE DEAL**

The first TWO N.I.A.D. Members to place a phone order on Wednesday, March 6, 1991, between the hours of 2:00 PM and 5:00 PM (CST) which totals over \$200.00 (excluding shipping/handling and tax) will receive a DYNAMITE SOUND DIGITIZER by Trisyd Video Games absolutely FREE! Yes, you HEARD it right! If your one of the lucky TWO, you'll receive an \$80.00 product absolutely free!



463 ADAM USER GROUP invites you to the 3rd annual;  
INTERNATIONAL ADAM CONVENTION

## ADAMCON 03

AUGUST 1 - 4, 1991 in South Bend, Indiana

Sponsored by ADAM-Link of Utah and ADAM News Network, Official BBS - SLAUG BBS



Join ADAMites from all over the continent for the third annual ADAM only convention. Many ADAM suppliers will be displaying their latest software and hardware. Workshops and demonstrations on every facet of ADAM will be conducted by the experts in the ADAM community. An area often overlooked, 'BASE ADAM' will get a lot of attention. This is for those ADAMites who want to get the most out of their ADAM the way it came out of the box.

We will have featured speakers on topics of interest to all. Barry Wilson of A.N.N. and S.L.A.U.G. will give his first (and last) annual CP/M speech. Phil Kosowsky, Bruce Walters, Eric Danz, Bart "ZONKER" Lynch, Rich Clee, Ron Mitchell, George Koczwra, Lyle Marschand, Jim Notini and others have started making their plans to attend.

The most popular part of ADAMCON 01 and 02 was the ADAM STORE! We will continue this tradition. ADAM suppliers are already lining up their booths to give you the best selection ever.

There will also be surprises. One well known ADAM person said that a big surprise is in the works. Also, special offers for ADAMCON 03 delegates only!

## CONVENTION COSTS

We have worked hard to get the best possible package at the lowest cost. These costs are as follows:

- Full Delegate - \$220.00:** Entitles one to Gala Banquet (Sunday evening), door prizes, awards, admittance to all seminars, workshops, etc., lunch (Friday, Sunday), full breakfast (Friday to Sunday), Thursday evening reception, room - 4 nights, per person \*.
- Non-Delegate Spouse - \$184.00:** Entitles one to Gala Banquet, door prizes, awards, full breakfast (Friday to Sunday), Thursday evening reception, room - 4 nights, per person \*.
- Non-Delegate Children 6-18 - \$49.00:** Entitles one to Gala Banquet, full breakfast (Friday to Sunday), room - 4 nights per person\*.
- Delegate Children 6-18 - \$75.00:** Entitles one to all the functions that a full delegate is eligible for.
- Day Pass Delegate - \$99.00:** Entitles one to all functions for one day except of course a room.
- Children in room with parent, Limit 1 per adult
- \* Room is double occupancy, add \$80.00 for single room
- Deposits:** Before April 15, 1991, a \$50.00 deposit is requested. If registering after April 15th, a \$100.00 deposit is requested. This applies to delegates only. Full payment is required by July 1, 1991. All payments are refundable until July 7, 1991.

**Discounts:** For full payment before April 15, 1991. Full Delegate - \$210.00, Spouse - \$174.00.

## REGISTRATION BONUS

All who register by 6/1/91 (Deposit or full payment) will receive 5 Public Domain volumes of their choice from the 463 ADAM P.D. Library on 5 1/4" disks (or 3 volumes on DDP). Be sure to mark your selections on the back of the registration form. If we do not have anything you need or make no choice, we will substitute 10 blank, formatted 5 1/4" disks.

## ADAMCON 03 GENERAL INFORMATION

### SPECIAL THANKS

An ADAM Convention is quite an undertaking. There is much to do long before you even know if there will be enough support to actually put it on. One of the things you need is money. I would like to take this opportunity to thank Alan Neeley of ADAM-Link of Utah and Barry Wilson of ADAM News Network for providing the startup funds which makes this and other mailings possible. 463 ADAM User Group is organizing this convention and the sponsorship by ADAM-Link and A.N.N. is a great assistance.

### LOCATION

ADAMCON 03 will be held at the Ramada Inn, 52890 US 33 North, South Bend, IN 46637, (219) 272-5220. ADAMCON 02 was held in a Ramada in Toronto and these facilities are very similar.

South Bend is at the north end of Indiana, in the middle of the state. It's within driving distance for many ADAMites and is easy to get to. The Ramada Inn is located on US 33, just 2 miles north of the Indiana Toll Road (I80/90). Take Exit #77. After paying your toll, take the north exit to Route 33 (Be careful, the curve is very sharp!). There are many restaurants along this street, within walking distance, so it will be easy to find a place for dinner.

The Michiana Regional Airport only 7 miles from the hotel. Most major airlines have connecting service. It's small, but you won't have to walk for miles from the gate (I usually fly out of O'Hare in Chicago. It takes longer to get to the gate than most of the flights out of there!). The Ramada has a courtesy van that can pick you up and bring you directly to ADAMCON 03.

South Bend is also served by Amtrak and the major bus lines. If you fly, drive, or ride, it's easy to get to South Bend.

### BULLETIN BOARD SUPPORT

463 ADAM does not have their own BBS so St. Louis BBS has consented to being the Official ADAMCON 03 BBS. The latest news and information will be posted there. I log-on a couple of times a week, so you can leave messages for me if you wish. My handle is 'DEAN' (how clever). Other famous ADAMites also check in regularly, Barry Wilson, Zonker, Alan Neeley, and more. You can 'talk' to them also.

SLAUG BBS / SYSOP - SHAMAN Al Fitzgerald  
(314) 383-3617

9 PM - 6 AM, Thursday - Sunday

The SLAUG BBS is an A-NET type BBS. Default ADAMLink settings are used. If you have a modem and have never used it, this is the time to try it out. New users should load ADAMLink and dial the number. The BBS will answer and ask you for your account number. At this point, type 'NEW' and follow the excellent instructions. After getting into the system, type 'B8' at the main prompt to go to the ADAMCON 03 message board.



# ADAMCON 03 REGISTRATION FORM

NAME: \_\_\_\_\_ SPOUSE: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE / PROV: \_\_\_\_\_ ZIP / POSTAL CODE: \_\_\_\_\_

- IF YOU ARE TRAVELING ALONE AND WISH TO SHARE A ROOM, CHECK HERE: [ ] YES [ ] NO
- WOULD YOU LIKE TO RESERVE AN ADAMCON 03 T-SHIRT? \$10.00 EACH (M, L, XL): [ ] YES [ ] NO
- SHOULD WE MAKE ADAMCON 03 HATS AVAILABLE? [ ] YES [ ] NO
- IF YOU ARE BRINGING HARDWARE TO THE CONVENTION, MAY WE BORROW IT IF NEEDED? [ ] YES [ ] NO
- IF YOU PLAN TO SETUP YOUR ADAM IN YOUR ROOM, MAY WE POST THAT FACT SO THAT OTHERS MAY USE? [ ] YES [ ] NO
- WHAT HARDWARE WILL YOU BE BRINGING? \_\_\_\_\_

## CONVENTION COSTS RECAP

- \_\_\_\_\_ Delegates @ \$220.00 = \_\_\_\_\_
- \_\_\_\_\_ Spouse @ \$184.00 = \_\_\_\_\_
- \_\_\_\_\_ Children @ \$49.00 = \_\_\_\_\_
- \_\_\_\_\_ Delegate Child @ \$75.00 = \_\_\_\_\_
- \_\_\_\_\_ Day Pass @ \$99.00 = \_\_\_\_\_
- \_\_\_\_\_ Single Room \$80.00 = \_\_\_\_\_
- \_\_\_\_\_ T-Shirts @ \$10.00 = \_\_\_\_\_

- Total: \_\_\_\_\_
- Deposit: \_\_\_\_\_
- Balance Due: \_\_\_\_\_

Make Checks (U.S. Funds only please) Payable to:  
"ADAMCON 03" and send to:

**Convention Chairman  
Dean Roades  
8522 Hohman Ave.  
Munster, IN 46321**

## ADAMCON 03 AGENDA

We are going to try something new this year. There will be 3 breakouts (information sessions, workshops, demos, etc.) running at the same time. You will need to select the breakout you wish to attend. You will notice that some sessions are presented only one time, so you will have to make a choice. If there are 2 sessions you wish to attend, but are scheduled at the same time, mark them #1 and #2. This agenda will change based on your response and the availability of speakers. We may also substitute product demonstrations for one of the sessions. It is very important that you let us know what you want. We do not want anyone to feel left out.

### FRIDAY, AUGUST 2nd:

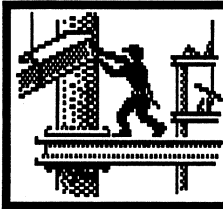
- 7:00 - 9:00 BREAKFAST
- 8:30 - 9:30 AM General Meeting - "The State of ADAM"
- 9:45 - 10:45 AM Breakout A (Pick One)
  - [ ] #1 - ADAM Diagnostics, Basic Maintainance
  - [ ] #2 - Hardware - Advanced. What is available
  - [ ] #3 - Writing Text and Graphic Games
- 11:00 - 12:00 AM Breakout B (Pick One)
  - [ ] #1 - BASIC Programming for the Novice
  - [ ] #2 - Advanced Graphics: Sprites, Fonts, Clips
  - [ ] #3 - ADAMCalc: The spreadsheet program
- 12:00 - 1:00 LUNCH
- 1:00 - 2:00 PM General Meeting - "Maintaining ADAM User Groups"
- 2:15 - 3:15 PM Breakout A (Pick One)
  - [ ] #1 - Base ADAM - Panel Discussion for novice users
  - [ ] #2 - Advanced BASIC Programming + M.L.
  - [ ] #3 - Advanced Graphics: Sprites, Fonts, Clips
- 3:30 - 4:30 PM Breakout B (Pick One)
  - [ ] #1 - Hardware - Basic add-ons: Disk Drives, etc.
  - [ ] #2 - Data Base programs for the ADAM
  - [ ] #3 - Other Languages: Forth, C, Assembler

### SATURDAY, AUGUST 3rd:

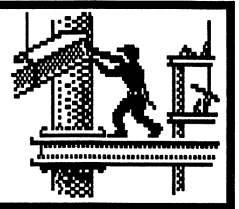
- 7:00 - 9:00 BREAKFAST
  - 8:30 - 9:30 AM General Meeting - ADAM News Network
  - 9:45 - 10:45 AM Breakout A (Pick One)
    - [ ] #1 - Starting ADAM User Groups
    - [ ] #2 - Specialized Hardware, MIDI, Sound Digitizer, A.I.M., etc.
    - [ ] #3 - LOGO on the ADAM
  - 11:00 - 12:00 AM Breakout B (Pick One)
    - [ ] #1 - Graphics for the novice
    - [ ] #2 - Advanced Utilities: Block Editing, Directory rebuilding, etc.
    - [ ] #3 - BASIC Languages: SB V1.0, SB V2.0, French Basic, Australian BASIC, etc.
- (AFTERNOON FREE)

### SUNDAY, AUGUST 4th:

- 8:00 - 9:30 BREAKFAST
- 9:00 - 10:00 AM General Meeting - To Be Announced
- 10:00 - 11:00 AM Breakout A (Pick One)
  - [ ] #1 - BASE ADAM - Panel Discussion for Novice users
  - [ ] #2 - CP/M 2.2 + TDOS for the beginner
  - [ ] #3 - Hardware: Advanced. What is available
- 11:15 - 12:15 AM Breakout B (Pick One)
  - [ ] #1 - Utilities: Basic, Making backups, file transfer
  - [ ] #2 - CP/M 2.2 + TDOS for the advanced
  - [ ] #3 - Word Processing. Comparing different programs
- 12:30 - 1:30 LUNCH
- 1:30 - 2:30 PM General Meeting - Support Your Local ADAM Suppliers / Vendor
- 2:30 - 3:30 PM Breakout A (Pick One)
  - [ ] #1 - ADAM STORE 3 PM - 6 PM
  - [ ] #2 - HYPERCARD
  - [ ] #3 - To Be Announced
- 7:00 - 9:00 Banquet with Awards, Door Prizes and MORE!



## ZENITH Z-29 TERMINAL INSTALLATION " 80 COLUMNS THE EASY WAY " by Earl Kiesler



I recently had the need to communicate with a local timeshare computer via modem from my ADAM Computer. The problem, however, was that the ADAM supports only 30 columns on its screen and the business computer expects you to have an 80 column screen. Also, it is extremely slow to communicate at 300 baud using the internal ADAM modem.

So I started looking around for an 80 column solution and a high speed modem. I soon discovered that my options were very limited. The RS-232 and 80 column boards that were once available for the ADAM are no longer produced and are in such limited supply that the purchase price for a used unit is very high (if you can even find a used unit). About this time, I spotted a write-up about Micro Innovations' M.I.B. 2 Serial / Parallel interface board in the N.I.A.D. Newsletter. I called Micro Innovations and talked to the owner, Mark Gordon, about how to locate the parts needed to satisfy my needs. He verified that the M.I.B. 2 would allow me to run an external modem off of one of its serial ports and told me how I could connect an 80 column CRT terminal to its other serial port. It turns out that Mark designed the M.I.B. 2 specifically for these purposes. He also provides TDOS and TDOS communication software with the M.I.B. 2 to accomplish this.

I then purchased an M.I.B. 2 from N.I.A.D., who delivered the M.I.B. 2 from stock. Mark recommended that I purchase a Zenith z-19 or Z-29 CRT terminal to plug in to the M.I.B. 2. The ADAM uses the Zenith Z-19 command set for its display. All of the ADAM CP/M 2.2 and TDOS programs are also set up for the Z-19. The Zenith Z-29 is a newer, fancier Z-19 compatible terminal and is recommended if you can get one. If not, a Z-19 will work fine. Mark gave me the name and number for Computer Surplus Store (also known as Wied Stuff Warehouse, we don't have the area code, but the number is 434-0168. The zip code's first three numbers are 408, again we are sorry that we can't provide the entire number) of Milpitas, California, who he knew carried used terminals. I called them and ordered a Z-29 for \$79.00 plus \$20.00 shipping. It arrived in about 10 days. I found a used 2400 baud external modem locally and purchased it.

The installation of the M.I.B. 2 is very easy (as long as you read the instructions). Just make sure that the connector pins point to the left of the computer (when looking at the computer from the front) when you install it in the middle expansion slot (slot #2). The modem connects to J4 (the bottom connector); the terminal connects to J3 (the top connector); and the printer connects to J2. The M.I.B. 2 can also supply the bank-switching signal (via J5) to a large memory expander board, if you have one. The M.I.B. 2 gets its serial port power from the power supply connector on the side of the ADAM. Just unplug the printer, plug the dual 9-pin adaptor in to the computer, and plug the printer in to the adaptor. A transformer version of the M.I.B. 2 is also available for those installations where you are already powering additional items from the ADAM supply and are worried about overloading it.

To get your modem running on the ADAM's internal display, plug the cable into the modem connector and install the 40 column version of TDOS and use the telecommunication program of your choice. Mark provides the 40 and 80 column versions of TDOS and the IMP and MEX communications programs with the M.I.B. 2. Additional programs are available on the Micro Innovations Bulletin Board (including all of the TDOS utility programs and the ZMP communications program for 80 column displays). I started out using the IMP program but found that I preferred the convenience of the MEX program. The MEX program

works well and allows you to save a re-configured copy of itself to another disk or tape. This allows you to set up your baud rate, parity, and so on for your own unique requirements.

To install the 40 column version of TDOS, insert the M.I.B. 2 distribution disk or tape, pull the reset switch and wait for the "TDOS 4.5" signon message and the "A0>" prompt. You then type "40MIB458" and hit the return key. The 40 column TDOS installation program will load in from disk or tape and sign on. The installation program will tell you what ADAM storage devices it finds - up to 2 disk drives, 2 tape drives and a memory expander. It also tells you what letters it will assign the devices when the installation is complete. By the way, if you have a memory expander, it will also ask you whether you want to place it before or after the other devices in the list. I normally place my memory expander board after the disk and tape drives.

The TDOS installation program will then ask you questions about the sizes of any disk drives it finds and about the settings for the serial ports and the I/O device assignments (which port to use for the display, the keyboard, and the printer). Answer all the questions you know the answer for. In the M.I.B. 2 installation instructions, Micro Innovations tells you which settings to use to get the configuration you want. Study that part of the installation instructions carefully before you change any of them. Mark has the default configurations set for 19.2 Kilobaud on the terminal port, 2400 baud on the modem port, and the ADAM display, keyboard, and printer.

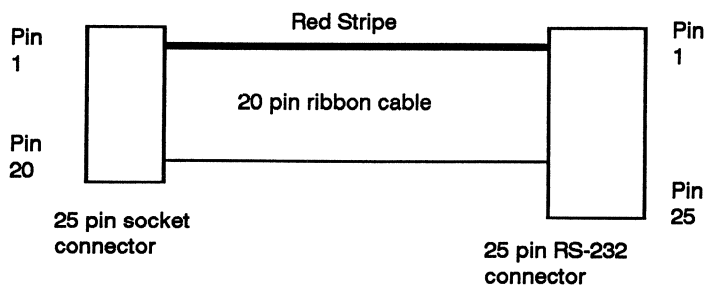
I have a 720K Orphanware disk drive as my #1 disk and a 160K Coleco disk drive as my #2 disk. I select the 702K format (option #5) for the Orphanware drive because I want to be able to put the TDOS Operating System on every disk. I select the 145K format for the Coleco drive because it's the only one the drive supports. I just pass by the serial port 1 (modem) parameters by entering a zero on that screen. The communications programs set up the modem port the way they need to so any configuration done by the installation program will get overwritten anyway. Be sure to set up the serial port 2 parameters to match the configuration you set the Z-29 for.

When you come to the IOBYTE assignments, leave them as they are for now. When you determine that your terminal works properly, you can go back and re-install TDOS permanently for what works for you. After you've answered all of the questions, save the newly configured TDOS on a blank formatted disk or tape. Boot the new version by pulling the reset switch and watch it boot up. Remember, it will use the normal ADAM display for now.

The Z-29 terminal is easy to install. First make sure it's working by plugging it in and turning it on. You should get a blinking cursor. Hit the "SETUP" key and the configuration menu will be displayed on the screen. Set the configuration parameters to utilize the fastest baud rate available (usually 19.2 Kilobaud), and set the rest of the RS-232 port parameters for 8 data bits, no parity, and 1 stop bit.

Now locate your serial cable if you purchased one with the M.I.B. 2 or if you didn't, call Micro innovations or one of their dealers to purchase one, or go purchase the parts you need to make your own. I chose to make my own terminal cable. I crimped a 20 pin socket connector on one end of a piece of 20 conductor ribbon cable and a 25 pin female RS-232 connector on the other end. Make sure that both connectors are attached to the cable so that the red stripe goes to the pin 1 end of each connector, as shown below.





Connect the RS-232 connector to the DTE port (the male connector) on the Z-29 and the 20 pin socket connector to J3 (the front top connector) on the M.I.B. 2. The RS-232 connector can only be plugged in one way on the Z-29. However, the 20 pin socket connector can be plugged in upside down on the M.I.B. 2. Make sure that pin 1 on the socket connector (the end with the ribbon cable's red stripe) is towards the back of the computer. If you look at the M.I.B. 2 from the component side, pin 1 will be in the lower left corner of J3. Plugging the connector in upside down is not fatal, but the terminal won't work with it that way.

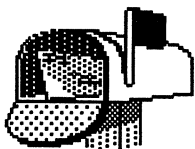
Next you must install TDOS to use the terminal. I recommend that you use the 40 column version until you know that you've got the terminal connected (and configured) correctly. Put in a copy of your M.I.B. 2 distribution disk or tape and run the IOBYTE program. Select "1" to change the display device. Answer "3" to send the display output to the terminal (on port SR2:) and then "0" to get out of the IOBYTE program. If you have everything configured and connected correctly, the "A0>" prompt will appear on the Z-29 display. You are still entering commands to TDOS from the ADAM keyboard so you can experiment with several programs, such as a communications program, to verify proper operation of the Z-29.

You may or may not want to use the Z-29's keyboard instead of the ADAM keyboard. However, you should make sure it's working properly. Run the IOBYTE program again and change the keyboard assignment to SR2:. Now, after you get out of the IOBYTE program, the ADAM keyboard no longer functions. The Z-29 keyboard should be operating.

The reason to go through this process of checking out proper operation of the terminal before saving a permanent configuration using the Z-29 is that you have control of the computer from the ADAM keyboard while checking out the Z-29 display. When you try out the Z-29 keyboard, and it doesn't work, all you have to do to regain control is to pull the reset switch to reboot TDOS configured for the ADAM display and keyboard from the disk or tape. Once you're satisfied that the terminal is working properly, you can re-install TDOS to use the terminal when it boots up. By the way, I keep my ADAM display still connected so I can use it for EOS programs. I use the Z-29 for TDOS programs. I have my TDOS boot disks set up to use the Z-29 and it is up and running within a minute.

My printer, a Panasonic KX-P1080i, works perfectly with the M.I.B. 2 and the supplied TDOS software.

All in all, the connection of the Z-29 was very easy and well worth the effort. When I connect to the timeshare computer, I can see all 80 columns of my mail (rather than having to scroll back and forth trying to read each line). I certainly waited too long getting the M.I.B. 2 with an 80 column display and a faster external modem and am glad I did finally get it. It greatly enhances my working speed when connected to an unfriendly BBS and is quite a money saver.



**Earl Kiesler**  
3310 Milford  
Indianapolis, IN 46236

## THAT'S RICH! "A Vulcan of Your Own!" by Rich Lefko

I've got the perfect way for you to start off 1991... own your own Vulcan! That's right, you can own your own Vulcan and get valuable ADAM information at the same time!

No, you can't buy Mr. Spock and ask him every ADAM question you've ever had, but you can subscribe to VULCAN'S COMPUTER MONTHLY! Since the COMPUTER SHOPPER saw fit to toss us ADAM owners aside, as did FAMILY COMPUTING, once again we had no national magazine covering the ADAM.... that is, until now!

VULCAN's has picked up ALL of the classic computing articles that COMPUTER SHOPPER used to offer and in some cases has even expanded it's coverage.

If you've never picked up a copy of VULCAN's, let me tell you about it. It is quite similar to the COMPUTER SHOPPER in content. An average issue contains 200+ pages and many ads for various computers and components.

As with any national computer publication, VULCAN'S COMPUTER MONTHLY (VCM) has articles covering MS-DOS, the MAC, and AMIGA systems. However, this is where the similarities end. VCM has a dedicated "Classic" computer section devoted to the TI-99/A, TRS-80, Apple, Commodore, Sanyo 55X, and, most importantly, the ADAM.

The monthly ADAM column is written by Faye Deere of the Emerald Coast AUG (ECAUG) and is always chock full of ADAM info. While Faye's articles usually cover many subjects, there are also single topic articles included as well, such as ADAMCON 02. These articles are usually several pages long and are extremely well written. I think you would enjoy reading them as much as I do. This alone is good reason for subscribing to VCM, but it isn't the only reason.

VCM has an extensive CP/M section! For example, in the Dec. 1990 issue there are articles covering Wordstar 4.0 and 5.0, dBASE 2 tips, as well as reviews of several VEDIT CP/M word processing programs. There were many more besides these, and I understand that Ron Collins may soon be writing for this section as well!

VCM also has a communications section with a rather extensive listing of FOG-affiliated user groups, and BBSs. I wish more ADAM groups would try to get themselves listed here, to reach those "closet" ADAMites who haven't found us yet! I found five ADAM groups listed, three in the U.S. and two from Canada. I've begun to see a few ADAM ads in the Classified section as well!

I would very strongly recommend a subscription to VCM. Also, if you DO decide to subscribe please let them know it's because of their ADAM section (you can also pickup VCM at most newsstands, bookstores, and other stores which carry computer magazines). We need this kind of national exposure, if for no other reason, to help us find new ADAMites. In fact, when Faye printed my address a few months ago, I received several letters from previously "unknown" ADAMites looking for information.

VULCAN'S COMPUTER MONTHLY is available for \$15.95 per year. Write to: P.O. Box 55886 - Birmingham, AL 35255 - or call 1 (800) 824-0676 for information. Remember, you can pickup the latest issue at your local newsstands!

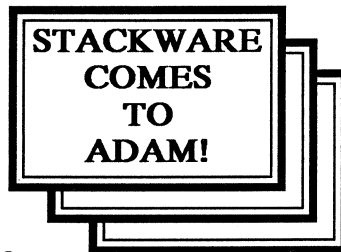


Since I first showed "HyperCard for Adam" at the AdamCon 02 show, much interest has surrounded the release of the program. However, there may be more 'hype' than facts about HyperCard at this stage. I am a little concerned that people may not really be aware of what to expect from the software, because no one has actually worked long enough with the program at this point to offer objective comment. I will try to demystify the concepts behind the development and intentions of the product...

## HYPERCARD'S REQUIREMENTS

HyperCard's effectiveness comes from its simplicity and extremely compact size. HyperCard's overhead varies between 5K and 9K. While HyperCard works reliably with a data-drive, it really requires a disk because it needs extremely fast access to the storage medium.

HyperCard works with just about any storage device (d1...d7) in any combination. So a single application written with HyperCard can sprawl over all of the available storage space on Adam. If you have 900K of online storage (two tape drives, and two disk drives, plus some extra RAM set up as another drive), you will be able to use HyperCard applications that can contain 2500 cards, roughly more text than a 200 page paperback book (more if you employ disk swapping). HyperCard does not care where or how the stacks are organized, as long as they reside on "d1...d7" devices that SmartBASIC can recognize. This may include RAMdisk arrangements and hard disks. You could collect many P.D. or commercial HyperCard stacks and design your own menu stack (entirely with HyperCard's Toolkit) to access any of them, almost instantly.



## WHAT HYPERCARD REALLY IS

HyperCard is a program that allows you to create information oriented software that runs by itself. It is best suited for text games, catalogue-type applications, interactive-letters, etc.

HyperCard breaks down into two components: cards and links. No matter how difficult it may be to understand HyperCard without seeing a demo, it is true: the only two things that you EVER have to deal with when programming a HC application is CARDS and their LINKS. Nothing else. You describe how a card looks: e.g. the text that will appear on it, the color of the card, its title, etc. Then you decide how each card links to another card. Your software is finished, and practically ready to run on any Adam.

Let's assume that you have a body of information that you wish to make accessible to an Adam User on his / her computer. Let's say that it is a catalog of hardware / software that you are selling. It is logical to break a catalog up into different categories (e.g. Hardware, and Software) and these can be further divided into other categories (Game Software, Utility Software, etc.). Now, rather than produce a flat, 2-dimensional paper copy of this catalog, you would use HyperCard to create a catalog that permits the user to find exactly what they want instantly, no

matter how much information you are presenting. The idea here is that by laying out all the possible links between the cards in the first place (paths), the user is encouraged to find his / her own path through the various "cards" of your catalog, leaping here and there instantly. A difficult task to accomplish with paper, I would say.

First, you break up the information into screen-sized passages of text. Each screenful represents a "card". The cards you create collectively represent a "stack".

The user will move from card to card based on the 'links' that you have established. Each card may link to other cards in special ways. Therefore, the user can move through different cards representing different products you are selling (in the case of a Product Catalog). You not only define in which ways the cards are linked together but also what methods the user employs to move from card to card.

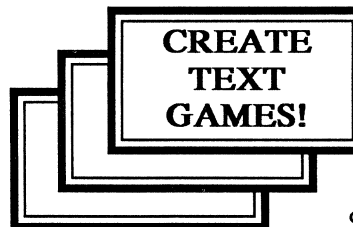
These methods may include SmartKEYS which let the user leap to other individual cards ("Press 'I' to see Hardware Products, 'II' to see Software"). Or a card may request that the user key in some text, evaluate that text, and then move the user to appropriate cards. You may move the user in random directions if you wish (this is crucial for text games!). You may move the user in a strict order between cards. You may connect one stack of cards to another stack of cards to another stack of cards. These stacks may inter-link in as many ways as you can think of. The overall idea is to allow the user to roam through a stack of text-displaying cards, pushing SmartKEYs or entering answers, or whatever.

HyperCard is simply Cards and Their Relationships With Each Other. YOU decorate the cards with color and text; YOU lay out their links to each other. However simple this may seem, it is really the content of your cards, the style of your writing, and the way you choose to present your information that defines your stack! Meticulously detailed text adventures spanning a thousand pages, interactive letters to other Adam users that simulate conversation, complex on-screen instruction manuals, on-screen newsletters written by eight people in different cities; these are some of the ideas that can be realized with the basic HyperCard package.

Again, since you don't have to concern yourself so much with conventional computer programming, you have more energy to direct towards talking to the User; the textual portion of your software, the part that most concerns your Users.

## ADVANCED PROGRAMMERS

What is also happening here is that you are learning the basics of OOP; Object Oriented Programming. You create and describe Objects (in HyperCard's case, these objects are Cards) and the Task that each Object performs (some cards Link, some cards ask for Keyboard Input, some cards offer Buttons to be pushed). You then link your Objects together, and an APPLICATION has been created. More about this method of programming and why it's better than ordinary programming another day.



Hyperware is the state of the art for users of every computer system that it has become available for. Even if this version of HyperCard does not meet everyone's initial expectations (those Adam users who have used hyperware on other systems), the first attempt has been made to bring Adam users to the fore-front of user-created software.

I will stretch my neck out a bit to say that BASIC alone is obsolete for Adam, and that a programmer patching simple BASIC or machine-code routines to HyperCard stacks will be lightyears ahead of the pack.

HyperCard is currently going through an intensive rewrite, to correct two small errors in the software, and to provide all the customize-ability that the Adam is capable of providing in the text format. I have been



### CREATE BUSINESS APPLICATIONS

extremely busy tending to my fulltime project, which has nothing to do with computers and is very "Christmas-intensive". Therefore, the re-writing process is going very slowly. A de-bugged version of HyperCard is available now, and people can create interesting software with it immediately. Later,

sometime into 1991, the really enhanced versions will be available. I have always promised that old versions of HyperCard stacks will be convertible to new versions and that promise still stands.

Part of the rewrite will include the GARDEN, and this is provided for BASIC programmers who want to extend HyperCard's abilities. The GARDEN is actually a space in HC's programming code that will permit a BASIC routine to be executed whenever the HC application encounters certain cards. If you wrote a small BASIC program to create sound effects, like the ones published by Sol Swift, you would simply write it into the HyperCard Toolkit, exactly the way that you would include it in your own programs. Then you would tell HC to execute this routine whenever certain card(s) are selected by the user. This would be done with ONE LINE OF BASIC CODE. (The idea here is to "announce" to HyperCard that your routine exists, and under what conditions you want it "activated"). In short, you can add your own BASIC routines to HyperCard Stacks, and HyperCard will execute them whenever you ask it to. In this respect, HyperCard will often exceed anything that you can create with BASIC alone, even if you are an expert.

## ABOUT MACINTOSH COMPARASIONS

HyperCard for the Macintosh takes advantage of the ease with which the Mac handles graphics and sound. By contrast, Adam's graphics and sound power is nowhere near as accessible to the programmer. But as far as I'm concerned, it's okay to have obsolete hardware, as long as the software is up to current standards.

There is no point in making Adam something that it is not. It is not a graphics intensive machine, at least, not as far as graphical interface technology is concerned. For example, why program graphic representations of buttons when Adam was designed with programmable function keys directly on the keyboard (labelled I through VI). The Macintosh does not have function keys in its "out-of-the-box" configuration. Using a picture of a arrow to press a picture of a button would take more time than if the user simply hit one of the six function Buttons at the top of the Adam keyboard.



### CREATE NEWSLETTERS ON DISK / DDP

WHEN AND IF EVER A COMPLETED GoDOS / GoBASIC package is available, HyperCard will be re-written to more closely emulate the Macintosh version. I believe that when Sol Swift finally finishes GoDOS, it will fast overtake any other operating currently in use on Adam. "GoHyperCard" will likely follow in the same footsteps as it has on the naturally-graphic Macintosh. It (or its descendants) will become the #1 application on Adam for users of all abilities.

I understand that someone is trying to develop a handheld scanner (a device which can turn images on paper into a HI-RES screen). The 1990 Adam must have this device. This is the hardware technology that will make HyperCard truly scream. If you know how to reach this person, please tell him that you are interested in his device, even if you don't plan to use it to develop HyperCard stacks. The scanner must at least be built! Graphics hardware like this is required to bring Adam to the 1990s, as opposed to where Adam sits now: comfortably in the mid-eighties. To these developers, I offer my FULLEST support, whatever that may entail.



### CREATE PRODUCT CATALOGS ON DISK / DDP

Sol Swift, if you are reading this, please hurry with your Graphic User Interface. I will rephrase: HyperCard, the Scanner, and the GoDOS package running on the 1983 Adam System will compare favourably with some late 80's 32-bit microcomputers. 'Nuff said?

## VARIOUS FINAL NOTES

The software that I have designed employs the same hyperware concepts and similar execution to the Macintosh program. Beyond that, there is no use trying to draw comparasions between the Macintosh and the Adam computers. The graphics power is not there for Adam.

The name 'HyperCard' wasn't intended to stick, but I had initially thought that Adam people might be familiar with the terminology. I was / am not interested in the politics of naming software, especially since no one is likely to mistake an Adam for a Macintosh. But don't be surprised if HyperCard resurfaces with a completely new name... once I can think of a good one!

Ultimately, HyperCard provides a new way of computer communication that Adam has simply not seen before, since 95% of Adam's current software is designed with software techniques dating back over 10 years. The idea of creating HyperCard was to bring simple, yet sophisticated programming to the average to expert Adam user.

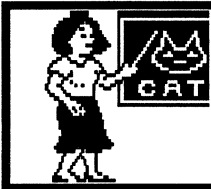
## FOR FURTHER INFORMATION

For further information on "Hypercard for ADAM", contact the developer, Jason Brown, directly at the address listed below. As soon as N.I.A.D. has Hypercard available for resale, we will publish a review.



## JASON BROWN SOFTWARE

312 Adelaid St. W. #805  
Toronto, Ontario, Canada M5V - 1R2  
(416) 348-9978



# WHAT IS ADAM-FORTH?

## Some Design Features of FORTH

### by Thomas Gilmore



The "Start-Up" version of FORTH for the ADAM is a set of CP/M 2.2 files directly from FORTH-83, the 1983 International Standard, which have been set up to auto-boot right into FORTH so that CP/M 2.2 is not needed. The first three articles focused on what is available for your ADAM Computer, how to put it to work, what FORTH is and isn't, and some of the specific FORTH advantages. How it came to be available for ADAM users will be the subject of ADAM-FORTH V1.1 Part V.

This article will cover some of the design features of FORTH and how they work, including a step-by-step discussion of a sample program.

## WORDS

A word, with a MINIMUM of one space before AND after it, is what FORTH commands and statements are all about.

If you have worked with SmartLOGO on the ADAM (or a LOGO on another computer) you are probably quite familiar already with this design feature, including the opportunity to extend the language with YOUR OWN word definitions.

If you are not already a LOGO fan, I will just go a bit further and say that in FORTH a "word" is just about any string of characters, one or more, defined as meaning one or more other FORTH words OR a group of assembler code mnemonics. The FORTH word ":" means "this is the start of a word definition". The FORTH word ";" means "this definition is now done".

## DATA STACK

There are far fewer variables usually used in this language, since almost all numerical data is put in ONE place -- the data stack. Like a tray server in a cafeteria, the data stack PUSH's down to receive one piece of data and POP's back up to serve one. That is true for individual words AND for data left by one word for another. It takes some real effort to learn how to use this feature. The main benefit is speed of execution. A secondary benefit is eventually seeing a new simplicity in computing and (eventually) developing new applications -- that work and CAN be quite user friendly. (A few variables are used, for purposes such as counting).

## POSTFIX NOTATION

This is NOT my name for it, believe me. What this design feature means is that FORTH words are placed AFTER the numeric data they need to execute. (There are a few calculators which work this way). For example, 2 2 +. The result of this addition is 4, of course. Similarly, 6 2 / results in 3. This different arrangement is only true for NUMERIC data. Words generally come BEFORE alphabetic data, such as text messages or filenames.

Now, here are two FORTH "screens", one for some utilities and one for an interesting, little game. I thank Anita Anderson and Martin Tracy for the game idea and rules, presented as an exercise in their book, "Mastering FORTH" (Bowie, MD 20715: Brady Communications Company, Inc., 1984.)

**NOTE:** In the program listing, the " ~ n " represents a comment line

(similar to REM in SmartBASIC). The only problem is that the " ~ " symbol with an " n " is not a key on standard keyboards. FORTH may have a special keypress to create this symbol, but we don't now for sure at this time. Since these are only comment lines (they explain what is happening in the program without changing it's operation) you can leave these out entirely. We left them in so that the instructional value is not lost.

## DEMO PROGRAM #1

```
18 list
SCR ~ n 18 SAMPLE.BLK
0 ~ n Utilities for random number generation 22Feb87tcg
1 ~ n
2 : fv ( n addr -- )
3 ~ n Uses F83 "FIG-VARIABLE" to create a variable with specified
4 ~ n name for address, and sets it's value to specified n
5 fig-variable ;
6 ~ n
7 ~ n The next line creates variable "seed" and sets value to 12,301
8 12301 fv seed
9 : rand ( -- R )
10 ~ n Gets a 16-bit random nbr R from seed & updates seed for next
11 seed @ 5421 * 1 + duo seed ! ;
12 : random ( n -- r )
13 ~ n generates R with rand, then mod's to nbr r in range 0 .. n - 1
14 rand swap mod ;
15 ~ n random nbr r is now in the data stack, but hidden from view
ok
```

### Discussion:

□ 9 of the lines have " ~ n ", the FORTH word for "this is a comment line".

□ 3 of the lines have "(", the FORTH word for "the REST of this line is a comment".

□ The first word definition is on lines 2 through to 5. It simply establishes a much shorter version of a standard FORTH word.

□ Line 8 uses this word to create a variable upon loading.

□ A second word is defined in lines 9 through to 11. Line 11 gets the current value at address of seed, multiples it by 5421, adds 1, and duplicates the result, storing one and leaving the other on the data stack.

□ A third word is defined on lines 12 through to 14. Line 14 executes "rand", reverses the top 2 numbers on the data stack, divides, and keeps the remainder on the data stack.

□ Remember that the " ~ n " does not need to be entered due to the fact that it is the signifier that the following text is there to give the end user an idea of what is happening.



## DEMO PROGRAM #2

```

19 list Scr ~ n 19 SAMPLE.BLK
0 ~ n A number guessing game, using Scr ~ n 18 Utilities 22Feb87tcg
1 ~ n First, create variables "gap" and "try" and set values to zero
2 0 fv gap 0 fv try
3 : game (-r)
4 ~ n starts the game with a random number r i 1 ..200?
5 101 gap ! 0 try ! 200 random 1+ ;
6 : win (r--)
7 ~ n wraps up game, gives results, and clears stack
8 cr ." you WON in " try @ . ." guesses." drop ;
9 : guess (r g - r)
10 ~ n make a guess g and check against the i hidden ?r
11 try & 1+ try ! 2dup + ( add to count; check for =)
12 if drop win else over - abs dup ( match or close ?)
13 3 ( if ."HOT!" gap ! else dup ( close or better ?)
14 gap @ ( if .(warmer) gap ! (better; store how far to off)
15 else ." colder" drop then then then :
ok

```

### Discussion:

- Most of the lines have, or are, comments.
- Line 2 uses "fv" to create two counters
- A first word is defined in lines 2 to 5. Line 5 sets an arbitrary, initial "gap", zeroes the "try" counter, gets a random number, and adjusts it up to the range 1
- A second word is defined in lines 6 to 8. Line 8 does a carriage return, ". . ." prints a message, gets the value of the "try" counter, prints that, completes the message, and drops the target number off the stack.
- The last word is defined in lines 9 to 15. The "try" counter is updated, the top 2 numbers on the data stack are duplicated before a series of comparisons. (Each comparison uses up 2 numbers -- they're gone). Comparisons are "postfix notations", too. A message is selected and printed. If the gap has been closed, the latest "gap" is stored.

Here's what it looks like when you compile it, look at some of the variables, and run it:

```

18 19 Thru ok
see seed
24676 VARIABLE SEED Value = 12301 ok
see gap
24740 VARIABLE GAP Value = 0 ok
see try
24752 VARIABLE TRY Value = 0 ok
game ok
70 guess warmer ok
130 guess colder ok
90 guess colder ok
60 guess colder ok
72 guess warmer ok
75 guess
You WON in 6 guesses. ok
bye

```

In the last article of this series, we'll point out some more of the design features of FORTH and include another sample program.

## COLECO'S MENU TEST

by Phil Kosowsky

Insert the test cartridge (Menu Test is contained on the public domain volume, ADAM UTILITIES) then turn on the computer and activate the cartridge by pulling the game reset switch. The screen will show the nine different options to choose from listed below. Make your choices with the joystick controller #1.

Now you can select the test that wish to run by pressing the number on hand controller number one.

- 1) **TEST EVERYTHING BUT RAM** - This test runs test numbers two, three, four, seven, and eight.
- 2) **TEST HAND CONTROLLERS** - This test is for testing the hand controllers and super action controllers. Pictures of the standard hand controllers will be on the screen. Start by moving the joystick through all of its positions. You will notice each position you hit by a bar will disappearing on the screen, this tells you if the hand controller is working. Now press the fire buttons and numbers on the numeric pad. You will see two green squares on the side of the controllers. Push numbers two and three at the same time then three and nine at the same time. By doing this is the same as pressing the lower two buttons on the super action controller. If you are testing super action controllers, use the spinner in both directions. There are two squares that will flash one for each direction. One more thing, make sure you press the pound symbol on hand controller number two last (#). That is the key that resets the cartridge.
- 3) **TEST PRINTER** - This test sends 16 functions / characters to the printer. What you will see is the printer type "test AB 12 &\$".
- 4) **TEST VIDEO AND AUDIO** - Color vertical bars will appear on the screen. These bars should be clear and picture snowless. The colors should be close to the NTSC color bar pattern. Anything other than solid color bars shows that there is a possible problem in the VRAM. Shortly after the bars appear on the screen you will hear three musical tones followed by one noise register sound. These sounds should be clear and without any background noise. To end this test press any key on either hand controller.
- 5) **TEST TAPE DRIVE 0** - This test is for tape drive number one. Place a blank tape in tape drive number one then press number five from the main menu. The tape drive will rewind the tape then write to a sector on both track one and track two, read back and then verify, when the test is complete "Tape drive 0 is ok" or "Tape drive 0 is bad" will appear.
- 6) **TEST RAM** - This test will test the main 64K memory on the CPU logic board. The results of the test will show on the screen.
- 7) **TEST ROMS** - This test will indicate what the game board operating system is along with the four ROM's on the CPU logic board. The game board operating system check sum should be D483. The four ROM check sums will vary depending on what revision your logic board is.
- 8) **TEST KEYBOARD** - This test is simple, just press keys on the keyboard and see if the same keys appear on the screen. To end this test press the ESCAPE / WP key on the keyboard.
- 9) **TEST TAPE DRIVE 1** - This test is the same as test number five except this is for tape drive number two.

This technical column has been provided by KOSOWSKY'S ADAM REPAIR as part of it's continuing support for the ADAM COMPUTER. If you have a problem with any Adam Computer equipment write to Kosowsky's Adam Repair and send a SASE. Send To:

**KOSOWSKY'S ADAM REPAIR**  
**6067 JERUSALEM DRIVE**  
**CICERO, NEW YORK 13039**  
**(518) 699-6456**

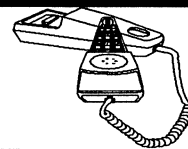
MON - FRI 6:00 PM TO 10:00 PM - SAT & SUN 10:00 AM TO 10:00 PM



# ADAM BULLETIN BOARD

This Month: ADAM BBSs

by Jim Notini



## ADAM-LINK BBS

LOCATED: Phoenix, Arizona  
 SYSOP: Rusty Gillott  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: IBM MS-DOS based  
 PHONE #: (602) 936-3892  
 HOURS: 24 hours a day / 7 days a week  
 MISC: PC Pursuit / Starlink

## ADAM-LINK BBS

LOCATED: Salt Lake City, Utah  
 SYSOP: Alan Neeley  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1 or 8 - N - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (801) 484-5114  
 HOURS: 6 PM - 8 AM (MST) Monday - Friday  
 24 hours weekends and holidays  
 MISC: PC Pursuit / Starlink

## ADAM EXCHANGE

LOCATED: Akron, Ohio  
 SYSOP: George Koczvara  
 BAUD RATES: 300 / 1200 / 2400  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: CP/M 2.2 based  
 PHONE #: (216) 883-9355  
 HOURS: 24 hours a day / 7 days a week  
 MISC: Starlink

## A.W.A.U.G. BBS

LOCATED: ?, Virginia  
 SYSOP: Jeff Jodoin  
 BAUD RATES: 300 / 1200 / 2400  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: CP/M 2.2 based  
 PHONE #: (202) 561-2475  
 HOURS: 24 hours a day / 7 days a week  
 MISC: PC Pursuit / Starlink

## CAT'S LAIR BBS

LOCATED: ?, Vermont  
 SYSOP: Pete Ames  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (802) 295-4831  
 HOURS: 24 hours a day / 7 days a week

## MACH I BBS

LOCATED: Milwaukee, Wisconsin  
 SYSOP: Gary Schoenung

BAUD RATES: 300 / 1200  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: ADAMCastle EOS based  
 PHONE #: (414) 762-0492  
 HOURS: 9 PM - 6 AM / 7 days a week

## MAINE BBS

LOCATED: Waterford, Maine  
 SYSOP: Robert Sebelist  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: CP/M 2.2 based  
 PHONE #: (207) 583-4923  
 HOURS: 6 PM - 8 AM Monday - Sunday

## MICRO INNOVATIONS BBS

LOCATED: Reston, Virginia  
 SYSOP: Mark Gordon  
 BAUD RATES: 300 / 1200 / 2400  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: CP/M 2.2 based  
 PHONE #: (703) 264-3908  
 HOURS: 6 PM - 6:30 AM Monday - Friday  
 24 hours weekends  
 MISC: PC Pursuit / Starlink

## NORTHERN LINK BBS

LOCATED: ?, Alberta, Canada  
 SYSOP: Gerry St. Peters  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 8 - N - 1  
 SOFTWARE: ADCOM EOS based  
 PHONE #: (403) 246-4086  
 HOURS: 24 hours a day / 7 days a week

## ROCKY MOUNTAIN BBS

LOCATED: ?, Colorado  
 SYSOP: Jesse Thornhill III  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (719) 783-9046  
 HOURS: 24 hours a day / 7 days a week

## ST. LOUIS BBS

OFFICIAL ADAMCON 03 BBS

LOCATED: St. Louis, Missouri  
 SYSOP: Al Fitzgerald  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (314) 383-3617  
 HOURS: 9 PM - 6 AM (CST) Thursday - Sunday  
 MISC: PC Pursuit / Starlink

## TAPPS MUSIC BBS

LOCATED: Rexdale, Ontario, Canada  
 SYSOP: Terry Cairns  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1 or 8 - N - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (416) 741-2432  
 HOURS: 24 hours 7 days a week

## THE ADAM CONNECTION

LOCATED: Champlain, New York  
 SYSOP: Steve Majors  
 BAUD RATES: 300 / 1200  
 PARAMETERS: 7 - E - 1 or 8 - N - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (518) 298-4294  
 HOURS: 24 hours a day / 7 days a week

## THE COLECO DEPOT

LOCATED: Howard Beach, New York  
 SYSOP: Darryl Quinn  
 BAUD RATES: 300 ONLY  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (718) 848-3066  
 HOURS: 8 PM - 12 AM 7 days a week

## THOMAS ELECTRONICS

LOCATED: Saskatoon, Sask., Canada  
 SYSOP: Thomas Mackie  
 BAUD RATES: 300 / 1200 / 2400  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: IBM MS-DOS based  
 PHONE #: (306) 384-7682  
 HOURS: 24 hours a day / 7 days a week

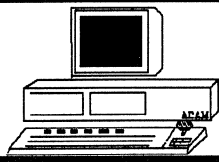
## TRADING POST BBS

LOCATED: Cleveland, Ohio  
 SYSOP: Herman Mason Jr.  
 BAUD RATED: 300 / 1200  
 PARAMETERS: 7 - E - 1 or 8 - N - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (216) 791-4022  
 HOURS: 24 hours a day / 7 days a week  
 MISC: PC Pursuit / Starlink

## VOICE OF THE EAGLE BBS

LOCATED: Fort Campbell, Kentucky  
 SYSOP: Ricki Gerlach  
 BAUD RATES: 300 ONLY  
 PARAMETERS: 7 - E - 1  
 SOFTWARE: A-NET EOS based  
 PHONE #: (615) 431-9833  
 HOURS: 8:30 PM - 5:00 AM on Wed & Thur





# CP/M 2.2 & TDOS WORKSHOP

## Public Domain and Reviews

by Doug Rosenvinge

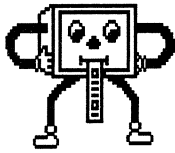


### In this Article

- Description of N.I.A.D. CP/M Public Domain Disks CNDV-53 & 54
- Description of New N.I.A.D. CP/M Public Domain Disk CNDV-57
- Note on using STAR NX-2400 printers.

### N.I.A.D. P.D. DISK CNDV-53

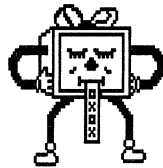
This disk contains print utilities to be used primarily with dot matrix type printers to provide greater printing control.



**ALPHATXT.LRC** - Alphatxt is a program designed to execute printer commands embedded in an ASCII text file while it prints out that file to printer or disk. This means that it could be used in a limited way with the ADAM printer, or to produce nicely formatted text for the screen. It allows the use of up to 23 printer

control format strings. (You must define these for your printer.) Other features include: 3 types of justification and filling, adjustable margins during the print, paging and page numbering, headers, footers, centering, indents and more. This looks to be a very complete package that you may wish to use if you are using a program like Video Display Editor for a wordprocessor. In order to use this program you need to have a CP/M text editor that will produce an ASCII (characters only) file. It would be helpful if your editor would allow you to embed control characters into the text, but that is not imperative.

**IMAGEPRT.LBB** - Imageprint is a different sort of print utility. It will work only on Epson/Panasonic dot matrix printers (or those that emulate them). Imageprint is designed to produce extremely high quality output from your printer. It uses its own fonts to overprint a line up to 3 times to get a high density output. This is a share ware program in that this version does not contain the full number of fonts. To have full use of the program you must register with the author (\$36) and then you will receive a complete set of fonts. I have not been able to test this program. From what I read in the documentation, it uses dot commands similar to WordStar and may be just what is needed to get a really professional look out of a dot matrix printer.



**PAN1091.COM** - All I know about this program is that it is a printer utility for the Panasonic KX-P1091 printer.



### N.I.A.D. P.D. DISK CNDV-54

**VDE266** - This is perhaps the greatest CP/M text editor in the public domain. It is **fast!** The whole program is memory resident so there are no overlay or message files that have to be looked up during its operation. If you have used WordStar you know that you lose seconds

here and there waiting for it to look up messages, warnings, and overlays. Because of its program size WordStar has very little room in memory for the file being edited requiring even more disk/tape activity. On the other hand, Video Display Editor does everything in memory. This creates a limitation that the file being edited **must** fit completely in memory. This means that you are limited to files of less than about 35k

on the ADAM (A guesstimate on my part.) Its command structure follows that of WordStar, and computability is pretty high.

*What it has:* Ruler line at the top of the screen, large text display area, 3 types of documents: WordStar Document and WordStar non-Documents and ASCII; centering, indents, block copy, block delete, block insertion, line delete/insertion, insert a file into the file you're editing, windows, ability to enter printer control commands, search and replace, global search and much more.

*What it doesn't:* Extended printer control for printers like ADAM's daisy wheel, automatic hyphen help, spell checking, mail merging and very advanced features found in commercial software.

This is one editor that I use fairly often. If you don't have a good CP/M editor then get this disk! There have been several updates of Video Display Editor, this is the latest and perhaps the last, version 2.66.

**VDE266SP.LBB** - This is a set of patches for Video Display Editor that will turn it into a specialized Screen Writer's editor. If you prepare scripts for plays or movies this may interest you.



### NEW DISK ADDED!

Yes, it does happen, new programs are found and added to the N.I.A.D. library. In fact, several disks will be added in the next month or so. The newest disk contains two main sets of programs, one a game and the other a file utility. If you have found public domain programs (programs that are free to be used by anyone that are released by their authors into the "public domain.") or shareware programs (programs that are designed to be distributed for free to anyone, but the user is on their honor to pay a registration fee to the author) that are **not** part of our library, you are invited to send them to N.I.A.D. on a 5 1/4" disk or datapack. If we can add them to our library you will have the choice of any of our public domain disks in exchange. Please see the rules for public domain exchange in the N.I.A.D. newsletter. **NOTE:** CNDV-55 and CNDV-56 will be added shortly.

### N.I.A.D. P.D. DISK CNDV-57



**BARSOOM** This has also been called BARSOOM2. Barsoom is a text adventure game. I generally don't like text adventures but I have developed a liking for this one. The game opens with you standing in a Martian desert with few "assets" other than your wit and luck. If you head off in the right direction you will find useful things to take with you that will enable you to complete the game, or at least survive a few moves.

One hint: When you begin, start by heading west, at least you won't die in the desert right away. This game recognizes a good sized vocabulary. It also has a game "SAVE" feature. This is most helpful for returning to the game at a future point or at least not having to start all over from scratch at your untimely deaths. A brief help file was added to let you know of some other hints. All files were removed from the library for you to enable your immediate play. Enjoy!

**UNZIP099.LBB** - This is an "unZIP" utility. Zipped files seem to be the current method of choice for compressing files and collections of files in

CONTINUED ON PAGE 16, COLUMN 1



## PUBLIC DOMAIN WORKSHOP

Reviews & Updates  
by Jim Notini

# SOFTWARE BACKUP V1.0

## by GL PROGRAMS

As a precautionary measure, one should always make a backup of his program in case there should develop a problem with the original. The problem with making a backup of a self-booting software is that you can only store one per media. Consequently, you can use up a lot of data packs or disks just for backup purposes. One could always store multiple softwares on one media, but they would no longer be bootable and would have to be transferred to be useable. You would also face the problem of properly storing and cataloging the boot blocks.

Here is the solution to this problem. SOFTWARE BACKUP V1.0 (SB) will store up to 6 bootable software programs on one media and they will all be bootable. Once you've created a backup in the drive and pull the computer reset switch a menu will come up listing the programs and you make your selection via the SmartKEYS.

This is not a stand-alone program. You will need a good media editor and a copy program that will backup programs. It is recommended to use File Manager V2.0 or higher. It's the best utility program on the market and has both media editor and backup utilities along with a whole lot more. These features were not incorporated into SB due to the fact that File Manager is already available.

Upon booting SB, the user is presented to a menu screen which lists two programs contained on the SB media. Both programs are SmartBASIC V2.0, but the second one of them offers a tremendous dot matrix printer patch while the other is the standard version which is already in the public domain (more on the DMP patch later). When a choice is made, basic will load and you will be presented with the standard flashing cursor. In order to load SB, you will need to type in "BRUN SWBU ". Once entered, SB will load and the main menu of options will be displayed.

SB's main menu consists of 5 options:

1) **CREATE** - This option prepares the media for the backup process and proceed to backup one program (this will be explained next). You'll need an initialized media with a one block directory. Once completed, you will be instructed to insert the newly created backup media and select which drive it is in, either Data or Disk Drive #1 or #2. A six block file will be created which is called FIRSTBLOCK. This is where the boot blocks of the programs will be stored. The first program's boot block will be stored at block 2, the second at block 3, ..., and the sixth program's boot block will be in block 7. Next, the name of the program will have to be entered, the name can be up to 20 characters long and does not have to correspond to the program's filename. Once entered, the boot block menu will be updated on the backup media. The next step is to insert the original program that is going to be copied to the backup media. The program's boot block will be read into memory and then written to the backup media.

2) **ADD** - This option will have already been put to use by the CREATE option since it automatically proceeds through the backup process after CREATE sets up a media for SB use. Add will allow for the additional backup of programs onto the backup media. Up to 6 programs in all can be stored on a media with the only possible exception for not being able to store up to 6 being if the actual program files which are backed

up to the backup media overflow the media.

3) **DELETE** - This option allows for the deletion of the last program's boot block and name that was stored on the backup media.

4) **EDIT** - This option allows for the renaming of the program names that will appear when the backup media is booted. Once renamed, the updated boot block will be written back to the backup media.

5) **PRINT LABEL** - This option allows for the printing of the of a label which contains the names of the programs that are contained on the backup media. Depending on which version of SmartBASIC V2.0 you booted, it will either print on the ADAM printer or a DMP.

Once you have CREATED or ADDED to a backup media, you then have to copy the rest of the programs files onto the backup media as SOFTWARE BACKUP V1.0 only copies the program's boot block. For this, a good copy program such as File Manager, Quickcopy, etc. will be required. For instance, if one used SB to copy the boot block of File Manager to a SB backup media, the File Manager boot block is on the backup and if the backup is booted File Manager will be displayed in the menu, but you can't run it since the File Manager program file is not on the backup yet. Hence, you will need to copy the file that contains the File Manager program onto the backup media. This will have to also be done for any other programs that you want to place on the backup media.

There are some stipulations that need to be followed and these are clearly detailed in the seven page instruction file contained in SmartWRITER format on the SOFTWARE BACKUP V1.0 media. There are basically two ways that a program is normally loaded via the boot block. The first type will simply contain the name of the file which is to be loaded, but the second type can become quite tricky. The second type will specify which blocks to read into memory. This is were some modifications to the programs boot block will have to be made in order to get them to work with SB.

Type 1 programs include: SmartBASIC V1.0, V2.0, ADAMCalc, ADAMLink, SmartLOGO, Disk Manager, File Manager, Disk Doctor, File Indexer. The only catch here is that SmartBASIC V1.0, V2.0 and ADAMCalc all use the same filename "BASICPGM" and therefore the filenames will have to be changed as well as the boot block of the program modified to reflect the new filename if you plan to store them all together on the same backup media.

Type 2 programs include: SmartFILER, RecipeFILER and Address Book Filer. The programs are all loaded by block, not filename, so the filenames aren't of that much concern, but a number of BYTE in the file will have to be modified and this is detailed in the instructions.

Some programs like SpeedyWRITE V1.0 and V2.0 as well as most Digital Express (Soloman Swift) programs cannot be setup yet by SB due to the fact that they modify the EOS which causes conflicts with SB, but GL PROGRAMS is working on modifications to get these to work also. Another nice option to be used with SB is the SmartDSK series of

CONTINUED ON PAGE 16, COLUMN 2



the MS-DOS world. This program will unzip them into their usable forms. Remember, MS-DOS programs will not run in CP/M! Why have Unzip? Some graphics, text and even CP/M files have been zipped on Bulletin Boards. If you utilize public domain disks that may be zipped, or Bulletin Boards than you might want Unzip around. It is very easy to use.

UNCR.COM and NULU.COM are included on this disk so you can extract the files in UNZIP099.LBR. Use NULU to extract the files and UNCR to uncrunch them.

## STAR PRINTERS AND THE ADAM

STAR NX-2400 printers (and other STAR printers) claim in their literature to be able to handle both 7-bit and 8-bit printer codes. What is not said is that the STAR printer can't do both at the same time. In order to use newer STAR printers with older computers (like our ADAM) you must call their customer service line and request a new ROM chip. Currently Star Micronics will either "re-burn" your current ROM for 7-bit compatibility at no charge or else you can purchase a new chip from them. If you want to have the option of using your printer on both IBM type computers and your ADAM you would need to change the chip each time you changed computers. If you have a solution other than this, I would appreciate hearing about it.

## TDOS V4.58 UPDATE

TDOS is now up to Version 4.58. I have just installed it and have seen no obvious differences from version 4.56. If any become apparent, or if there are significant changes to TDOS utility programs, I will include reviews in a later column.

If you have suggestions for this column, questions, or information on CP/M that you would like to share, drop me a note and don't forget that if you would like a personal reply please include a Self Addressed Stamped Envelope. Thank you.



**N.I.A.D. CP/M & TDOS LIBRARIAN**  
 c/o Doug Rosenvinge  
 30 Arborway Dr.  
 Scituate, MA 02066

## WORK STARTS ON A CP/M DIRECTORY!

Doug Rosenvinge, the N.I.A.D. CP/M & TDOS Librarian, has started work on a SmartFILER database which will cover all of the CP/M 2.2 CNDV Public Domain volumes in the N.I.A.D. Library. The SmartFILER database will be broken up in a way that finding the program that you need will be a simple matter of searching under a specific name. The volume number, filename, type of program and a description will be provided for all files contained on the CNDV volumes. It has been quite a while since N.I.A.D. had available detailed information on the CNDV volumes, but thanks to Doug's hardwork and commitment, we will soon be able to supply you with descriptions of the volumes.

Also, in the near future, the Public Domain Review Book will be updated to include all of the CP/M CNDV volumes as well. We hope to have this ready come April or May. It is a big undertaking and may even get pushed back further, but we are shooting for no later than May.

ramdisks. For instance, with SmartDSK CART, I took a SB backup media that contained SmartBASIC V1.0, V2.0, ADAMLink, Disk Manager, File Manager and Disk Doctor and copied them to my 256K memory expander. From the cartridge I could boot the ramdisk which contained the SB menu and all the programs I mentioned above and then choose to load one of the programs (instantaneously) from the ramdisk. If I wanted to switch to another program, I would pull the cartridge reset to get back to the SmartDSK Cart main menu and then boot the ramdisk again to choose another program from the SB menu. The only program which would not work from the ramdisk was Disk Manager due to the fact that a new version of EOS is loaded in with this program which overlays the SmartDSK OS.

The updated version of SmartBASIC V2.0 which is contained on the SB media contains probably the best SmartBASIC V2.0 patch available today for dot matrix printers. When used, PR#1 is set to output to a DMP while PR#2 is set to output to the ADAM Printer (PR#1 is set for DMPs so that programs do not have to be modified as they would have to be if PR#2 was used for the DMP). Also, by pressing < CONTROL + P > or the PRINT key, you will cause a screen dump to the dot matrix printer. Something that didn't work with other patches.

A new command has also been created < PRCODE n >, that allows for the sending of control codes to the dot matrix printer without having to perform any of those lengthy < PRINT CHR\$(27) + CHR\$... > command lines. The " n " is either a number from 0 to 255 or a numerical variable which can assume an integer value from 0 to 255. This command will operate in immediate mode or from with a program. You can use it to select the character table, double wide mode, NLQ, draft, condensed, full justification, etc. Basically all that is needed to be done is to find what the value is that represents a certain function of your DMP in the owner's manual. For instance, on an EPSON LX-810, to initialize the printer and send a carriage return the command line that follows would be used:

## PRCODE 27: PRCODE 64: PRCODE 13

The printer patch and the new command will function properly in either STDMEM or EXTMEN and all other features of SmartBASIC V2.0 have been left in take. So nothing lost, but a heckuva lot gained.

My hats off to Guy La Forest, SOFTWARE BACKUP V1.0 has tremendous value and could have been a hot selling commercially copyrighted program, but he has decided to contribute this to the public domain for all to share and experience. It is one of the best public domain programs ever released. Get it!

## BASEBALL STATISTICIAN

The Baseball Stat. is a program which was developed in 1988 by your's truly and distributed under the Wizard's Lair Software label and now has been released into the public domain for all to share. It is a comprehensive stat compiler that can be used to keep track of your favorite major, minor, little or softball league team stats. You can keep track of 13 offensive categories for up to 15 players as well as 15 pitching categories for up to 10 pitchers. Sorting features include: pitchers and batters alphabetically, batters by batting average highest to lowest and pitchers by earned run average lowest to highest. You also have the ability to edit the team roster so as the season progresses on, you will always have an up to date team file with the most current statistics. Accumulation of batters and pitchers stats is possible in order to see how the team is doing as a collective unit. Printing features include support of the ADAM Printer as well as a Dot Matrix Printer attached to the ADAM via a parallel interface, listings of all batters and pitchers as well as accumulated batting and pitching stats and even the ability to print individuals and their stats. Auto-booting, menu driven and comes with two extensive SmartWRITER documentation files.

**TYPE**  
TUTOR  
**RELEASED**  
1989

# STATES RACE

By HAL WEBER SOFTWARE

Reviewed by Jim Notini

**PRICE**  
\$15.95  
**MEDIA**  
DISK / DATA PACK

States Race is a graphically-oriented learning / tutorial game in which two candidates vie for electoral votes via learning the state capitals and also the locations of capitals in the states by marking the campaign tours on a map. The tutor game evolves around the concept of not only teaching the capitals of the states and their locations, but it also goes into simplified detail on how the president and vice-president are elected via electoral votes since the tutor game requires that the child understands about the importance of winning electoral votes in relevance to winning the election, as well as the game.

Upon boot-up, the user is presented with the main menu of five options to choose from: The States Race, How to Merge, The Cabinet Makers, Commercial and Quit. HOW TO MERGE is a detailed instructional on how SmartBASIC programmers can and must go about merging two or more basic programs together in order for them to work properly. Since Coleco didn't include any specific commands or detailed instructions on how to merge programs together or even explain the pitfalls that one has to be careful of, numerous ADAM programmers had to find out the hard way. What is provided in "How to Merge" are all those special little situations that one has to be careful of in order to correctly merge programs together without the loss of valuable information. Two demo programs are even included for hands on usage and also a final test, if you have merged the two programs correctly, the end result will be the U.S. flag displayed while a medley of patriotic songs plays. COMMERCIAL is a collection of advertisements for other Hal Weber Software tutorgames which is presented in text with sprites and accompanying music.

THE STATES RACE is the main tutorgame in this package which deals with the capitals and locations of the United States of America, not the world. Upon choosing this option from the main menu, a graphic depiction is displayed of the U.S. followed by a list of all the states, capitals and number of electoral votes for each state. Then the main menu is displayed that allows one to review the states list. The list can be viewed on screen or can be sent to a printer. For younger children, a printed list would be advisable to have on hand since it will serve as a hardcopy source of study as well as having the on-screen listing.

The tutorgame starts with a short list of instructions on how to use work the game and then asks for two candidates, one republican and one democratic, to enter their name (this is a two player game). Two skill levels are offered. When all questions are answered, a map of the U.S. is displayed with a ten second time bar at the top of the screen. All questions which ask that the name of the capital be entered are displayed at the bottom of the screen. If the capital of the given state is known, then the joystick firebutton is used in order to buzz-in for a shot at the guessing the capital, which is typed in via the keyboard. If the answer is correct, then the gamer is awarded the number of electoral votes for that particular state. The electoral vote tally is displayed on the side of the map as a red elephant (republican) or blue donkey (democratic) line bar that grows with each correct answer. If the answer is incorrect, than your opponent is awarded with the electoral votes for that particular state. If neither player buzzes in, than the answer is given

and the question is re-asked. The goal of States Race is not only to give the correct capitals name, but also to gain the majority of the electoral votes before your opponent does in order to win the race for presidency. Once a player has won enough electoral votes, the game ends and a summary board is provided which details the number of electoral votes won, questions attempted, number of questions answered correctly and also an accuracy rating for each player. This summary board is followed by a list of all the states that backed the winning candidate.

THE CABINET MAKER is another tutorgame, but this time the presidential candidate has already been decided and a cabinet has been chosen, it is the job of the gamers to confirm or reject the nominees. The Cabinet Maker calls for the gamers to once again buzz-in in order to attempt to answer the questions correctly to place the nominees in office, but sufficient instructions are not included to fully explain all the elements of this tutorgame which seems to be included as a bonus. The goal is to answer enough questions correctly about who is the secretary of each respective field (ie: health, state, treasury) in order to become the Senate Leader. Once again, when the game is won, a summary board is displayed.

THE STATES RACE package, as a whole, is a very worthwhile addition that provides for an enjoyable atmosphere of graphics, sound, music and competition in learning the capitals of the states. There are a number of things that I question about the design of the game, such as in The States Race game when an answer is not given within the ten second time limit, the answer is given to the opponents and then the question is re-asked. I think it is good that the question is asked again, but the electoral votes should not be added to the gamer's tally who answers correctly after being given the answer. I think it would be better if a third party (perhaps Independents) were given the electoral votes, especially since this would bring in another group that has to be dealt with and could possibly win the election due to the opponents not knowing the correct answers. Also, the on-screen map is used to depict the location of the capitals, but a line is continuously drawn from one capital to the next. As I am sure you can imagine, the map can become quite messy. What would be better is if the capitals were marked in red or blue to signify which candidate won that particular state. The Cabinet Maker also needs a much better set of instructions in order to be playable and it is my true feeling that children will be put off by this tutorgame even with sufficient instructions.

Overall, however, THE STATES RACE is an exciting program to see released. Other games of this nature have always been bland; no graphics, color, music, sound effects, etc., all the items that need to be implemented into a game of this nature in order to hold a child's interest on this very BORING, but very necessary for school subject! I know I was the type who hated having to study the capitals of the U.S. and could only wish I has this program and an ADAM at that time in my life. I have to congratulate Hal Weber Software on this program and also note that an updated version will be made available soon with better documentation and a number of other enhancements.

### SYSTEM REQUIREMENTS

- MEMORY: BASE ADAM SYSTEM
- PRINTER: ADAM PRINTER or DOT MATRIX PRINTER
- DRIVES: 1 DISK DRIVE or 1 DATA DRIVE
- OTHERS: NO OTHER REQUIREMENTS

### SOFTWARE RATINGS

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

### OVERALL

**B+**

# N.I.A.D. PRODUCT LIST

EFFECTIVE 02/25/91 & PRODUCTS / PRICING SUBJECT TO CHANGE WITHOUT NOTICE

## ADAM HARDWARE

- **COMPLETE ADAM COMPUTER SYSTEM** ..... \$239.95  
Complete reconditioned ADAM System with Printer, includes all components / software. 90 day warranty. Includes Shipping/Handling!!
- **EXPANSION MODULE #3 ADAM SYSTEM** ..... \$209.95  
ADAM and Colecovision Game System attaches together to make a complete ADAM System. 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** ..... \$19.95  
New, more reliable power supply transformer for ADAM Disk Drive.
- **ADAM PRINTER POWER SUPPLY** ..... \$59.95  
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.
- **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 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.
- **TAN HAND CONTROLLER** ..... \$5.95  
New Coleco Hand Controller with 12-button numeric keypad.
- **ADAMNET CABLE** ..... \$2.95  
Flat, 7 foot cable for use with either the Keyboard or Disk Drive.
- **ADAM MONITOR CABLE** ..... \$9.95  
Allows attachment of a Composite Monitor 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.
- **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.
- **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, 320K ALSO.
- **DYNAMITE SOUND DIGITIZER (Disk or DDP)** ..... \$79.95  
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. Can be supplied with SmartCLOCK Chip attached inside.
- **SmartCLOCK CHIP (Disk or DDP)** ..... \$44.95  
Plugs into U8 socket on ADAM Logic Board in Memory Console. Tracks hundreds of seconds, seconds, minutes, hours, days, day of the week, month, year, 12 / 24 hour modes, leap year correction.
- **D.S.D. with SmartCLOCK CHIP (Disk or DDP)** ..... \$109.95  
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. 2 week shipping delay when ordering this product.
- **MIDI-MITE INTERFACE (DDP ONLY)** ..... \$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.

## ADAM HARDWARE, cont.

- **ADAMOUSE II (Internal)** ..... \$74.95  
Mouse controller which attaches internally to the joystick port. Requires minor modifications to be made. Works with numerous ADAM programs. Programs planned to make full use of this and the following mouse.
- **ADAMOUSE II (External)** ..... \$82.95  
Same Mouse as listed above, but plugs directly into the joystick port.

## MEMORY EXPANDERS

- **64K MEMORY EXPANDER** ..... \$34.95  
Provides an additional 64K of memory to certain programs. Many of the newest software packages require at least a 64K M.E. or can access it. Card easily installs into Slot #3 in Memory Console.
- **256K MEGARAM MEMORY EXPANDER** ..... \$109.95  
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.
- **256K SIP** ..... \$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!
- **ADDRESSOR CARD** ..... \$19.95  
Installs in Slot #2 and required for use of MegaRAM Memory Expander if you don't have or purchase a Parallel Printer Interface.

## 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.
- **PANASONIC KX-P1191i DOT MATRIX PRINTER** ..... \$249.95  
(with ADAM Printer Interface & Cable (Disk or DDP)) ..... \$289.95  
Identical to KX-P1180i with faster draft speed 240 CPS and Near Letter Quality speed 48 CPS. Also includes a Front paper feed. One ribbon enclosed. 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-P1191 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. Requires 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 attaches between Parallel Interface and Dot Matrix Printer for either the MIB2 (6 foot) or E&T Parallel Interface (3 foot).
- **SHIELDED PARALLEL PRINTER CABLE** ..... \$19.95  
6 foot shielded cable provides for extra shielding from interference.
- **RS-232 SERIAL CABLE** ..... \$14.95  
6 foot cable attaches between M.I.B.2 and Serial hardware device.

## HARD & FLOPPY 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 360K 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 and miscellaneous other programs pre-installed by manufacturer. SmartMATE CART by Walters Software Co. is highly recommended for EOS and CP/M users.

#### BASE UNITS:

- POWERMATE 10 (10 MB HARD DRIVE) .....\$399.00
- POWERMATE 20 (20 MB HARD DRIVE) .....\$499.00
- POWERMATE 40 (40 MB HARD DRIVE) .....\$599.00

#### OPTIONS:

- 5 1/4" 360K FLOPPY DISK DRIVE.....\$100.00
- 3 1/2" 720K FLOPPY DISK DRIVE.....\$100.00
- SECOND HARD DISK DRIVE: 10 MB.....\$150.00
- SECOND HARD DISK DRIVE: 20 MB.....\$225.00
- SECOND HARD DISK DRIVE: 40 MB.....\$300.00
- PERIPHERAL CABLE: SERIAL (6 feet).....\$14.95
- PERIPHERAL CABLE: PARALLEL (6 feet) .....\$14.95

## 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. Requires Monitor Cable.
- **GOLSTAR 2105G 12" GREEN COMPOSITE MONITOR ...\$109.95**  
12" Green composite / monochrome monitor that offers resolutions up to 640 x 200, up to 80 columns with 25 lines. Requires Monitor Cable.
- **GOLDSTAR 2105A 12" AMBER COMPOSITE MONITOR \$109.95**  
12" Amber composite / monochrome monitor that offers resolutions up to 640 x 200, up to 80 columns with 25 lines. Requires 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.

## 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 Single-Sided Disk Drive to be upgraded. Don't send power supply. Repair charge for defective drives. Send payment to NIAD, drive to: E & T Software - 9588 Forest Ln. #514 - Dallas, TX 75243.
- **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 (320K or 720K disk), The Best of B.C.
- **SmartFILER UPGRADE TO VERSION 27D..... \$4.00**  
Send in your SmartFILER Disk or DDP to be upgraded to Version 27D.
- **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, Planefall, Deadline, Starcross, HitchHiker's Guide to the Galaxy, Leather Goddess' of Phobos, Stationfall, Plundered Hearts, Seastalker and Ballyhoo.

## EXPANSION MODULES

- EXPANSION MODULE #1 ATARI 2600 ADAPTER.....\$44.95
- EXPANSION MODULE #2 DRIVING CONTROLLER ..... \$44.95
- ROLLER CONTROLLER ..... \$44.95
- SUPER ACTION CONTROLLERS.....\$59.95

## MANUALS & BOOKS

- ACCESSING VRAM ..... \$12.95
- BASIC BASIC PROGRAMS FOR THE ADAM ..... \$8.25
- FROM BASICS TO BASIC ..... \$15.00
- HACKER'S GUIDE TO ADAM VOL. I.....\$11.95
- HACKER'S GUIDE TO ADAM VOL. II.....\$11.95
- HACKER'S GUIDE VOL. 1 & 2 PROGRAMS (Disk or DDP)..... \$5.00
- LEARNING TO DRAW WITH ADAM (Z-80) (Disk or DDP)..... \$25.00
- LEARNING TO READ WITH ADAM (Z-80) ..... \$25.00
- LEARNING TO WRITE WITH ADAM (Z-80) (Disk or DDP)..... \$25.00
- MacADAM MANUAL.....\$19.95
- MacADAM DEMO FILES (Disk or DDP) ..... \$5.00
- N.I.A.D. PRODUCT REVIEW BOOK.....\$19.95
- N.I.A.D. PUBLIC DOMAIN REVIEW BOOK..... \$5.00
- THE BASIC ADAM..... \$16.95

## MISCELLANEOUS SUPPLIES

- ADAMCON 01 VIDEO HIGHLIGHTS ..... \$14.95  
Two hours VHS video tape highlighting the first ADAMCON in Florida.
- ADAM DIABLO HYTYPE I FILM PRINTER RIBBON..... \$4.95
- ADAM PRINT WHEEL.....\$6.55  
Specify font style for ADAM Printer: GOTHIC 12, SCRIPT 12/TITLE, 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
- DIGITAL DATA DRIVE HEAD CLEANING PAD..... \$ .50
- ADAMOUSE MOUSE PAD .....\$6.95
- PANASONIC KX-P110i RIBBON for KX-P1080/1091 .....\$9.95
- PANASONIC GENERIC RIBBON for KX-P1080/1091 .....\$5.95
- 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**

ABOMINABLE SNOWMAN, THE	\$13.95
ACTIVISION'S DECATHLON	\$18.95
ADAM BOMB (64K)	\$19.95
ADAMWARS II	\$13.95
ADDICTUS	\$17.95
AFL FOOTBALL	\$14.95
ALCAZAR	\$18.95
AQUATTACK	\$17.95
BEYOND TREK (64K)	\$15.95
BIBLE JEOPARDY	\$14.95
BLACK GOLD	\$15.95
BLOCKADE RUNNER	\$15.95
BOULDER DASH	\$18.95
BRAINSTORM	\$16.95
CHESS CHAMP (64K)	\$15.95
DIABLO	\$15.95
DINOSAUR DIG (64K)	\$16.95
DRAGON: THE CHINESE CHALLENGE	\$17.95
DUNGEONS & DRAGONS I	\$19.95
DUNGEONS & DRAGONS II	\$19.95
ELECTRONIC GAME PACK I	\$17.95
ELECTRONIC GAME PACK II	\$17.95
FAMILY FEUD QUESTION PACK	\$14.95
FATHOM	\$18.95
G.A.M.E. VOL. II	\$12.95
GHOST ZAPPER (64K)	\$11.95
H.E.R.O.	\$16.95
HEIST, THE (CART)	\$18.95
JEOPARDY QUESTION PACK	\$14.95
KEYSTONE KAPERS	\$17.95
KID'S TRIVIAPAK I	\$12.95
L.V.A.C. ARCHIVES I	\$9.95
LAB MOUSE	\$12.95
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	\$9.95
MR. T SEARCH: TRIVIA GAMEPAK	\$7.95
MYSTERY & YACHT	\$14.95
NIAD GOLD: GAMES	\$9.95
NIAD 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
PITFALL II	\$17.95
PITY	\$18.95
PRO FOOTBALL	\$18.95
PRO GOLF CHAMP	\$14.95
REEDY ENTERTAINMENT PACK	\$13.95
REEDY SOFTWARE LIBRARY	\$17.95
RIVER RAID	\$17.95
ROCK'N BOLT	\$18.95
SMARTBASIC BONANZA	\$14.95
SMARTGAMES PACK	\$9.95
SQUISH'EM SAM	\$18.95
STAGE FRIGHT	\$13.95
STATES RACE	\$15.95
STOCK MARKET GAME, THE	\$15.95
STRATOZAP	\$16.95
SUPER PARROT	\$12.95
SUPER ZAXXON (DDP)	\$9.95
TEMPLE OF THE SNOW DRAGON	\$21.95

TOURNAMENT TENNIS	\$18.95
TRIVIAPAK I	\$12.95
U-MATCH-EM	\$12.95
VASE OF TURR, THE	\$29.95
WING WAR	\$18.95
WIZARD'S PINBALL ARCADE	\$14.95
ZORAN III	\$13.95

**CONSTRUCTION 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

**EDUCATIONAL**

ADAM TUTOR, THE	\$9.95
AMERICA AT WAR (DDP)	\$9.95
CABBAGE PATCH: PIC SHOW (CART)	\$18.95
CHESS TUTOR #1	\$9.95
CHESS TUTOR #2	\$9.95
EASY AS A, B, C & 1, 2, 3	\$11.95
EL ESPANOL	\$15.95
EXPERTYPE (DDP)	\$9.95
FRANCAIS POUR LES CHIC	\$15.95
GREAT INVENTIONS GAME (DDP)	\$9.95
MATH MENTOR	\$15.95
NIAD GOLD: SCIENCE & EDUCATION	\$9.95
RICH SCARRY'S BEST WORD. (DDP)	\$15.95
ROYAL AMBASSADOR EDUC. PACK	\$9.95
SCHOOL DAZE	\$16.95
SMARTBASIC CONSTRUCTION KIT	\$12.95
WORLD CAPITALS (DDP)	\$9.95

**MEDIA UTILITIES**

ADAM CONNECTION, THE (IBM DISK)	\$24.95
ADAMCALC DOT MATRIX PATCH	\$9.95
ADAMLINK II DOT MATRIX PATCH	\$9.95
AUTOBACKUP (64K)	\$17.95
BACKUP 3.0 (DISK)	\$10.95
BASIC SYSTEM MGR 3.0 / FASTRUN	\$18.95
COPYCART+ V2.0 (DISK)	\$19.95
DISK DOCTOR	\$9.95
FILE MANAGER V2.0	\$17.95
FORMATTER II (DISK)	\$12.95
LIBRARIAN	\$19.95
NIAD GOLD: UTILITIES	\$9.95
PRBOOT	\$17.95
OPENFILER V3.0 with OPENRECIPE	\$14.95
RAMBOOT (64K)	\$19.95
SMARTDSK I for SmartWRITER	\$18.95
SMARTDSK II for DEVICE #2 (64K)	\$16.95
SMARTDSK III for SmartBASIC V1 & V2	\$24.95
SMARTDSK CART (64K)	\$29.95
SMARTMATE CART (PowerMATE)	\$39.95

**HOME / BUSINESS**

BUSINESS PACK I V2.0	\$18.95
EASY COME, EASY GO	\$19.95
FILE PRINTER	\$14.95
INVOICER II (64K)	\$19.95
MISSPELLER for SpellingAIDE	\$18.95
NIAD GOLD: HOME & BUSINESS	\$9.95
SMARTFILER (DDP)	\$9.95
SOFTPACK I V2.0	\$18.95
SPEEDYWRITE V2.0	\$39.95
SPEEDYWRITE SPELL (64K)	\$24.95
SPELLINGAIDE	\$26.95
TAX HELPER 1990 (64K)	\$19.95

**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
AUTOWRITER	\$14.95
BASICAID V2.0	\$9.95
BORDERSPLUS for The Print Works	\$12.95
CLIP-ART VIEWER	\$24.95
E.O.S. FILE INDEXER	\$9.95
ELECT. FLASHCARD MAKER (DDP)	\$9.95
FLASH FACTS: HISTORY (DDP)	\$6.95
FLASH FACTS: VOCABULATOR (DDP)	\$6.95
FONTPOWER	\$14.95
LABEL MAKER DELUXE (DISK)	\$9.95
LABEL WORKS, THE	\$24.95
MASTERING MUSIC	\$9.95
MR. T LIBRARY	\$10.95
PERSONAL CALENDAR UTILITY (64K)	\$19.95
PRINT WORKS, THE	\$27.95
RECIPE FILER (DDP)	\$9.95
SMARTBASIC CART (V1.0 VERSIONS)	\$29.95
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SMARTTERM V1.02	\$15.95
SPRITEMASTER	\$18.95
SPRITEPOWER	\$15.95
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SWIFT'S LABEL PRINTSHOP (64K)	\$19.95
VIDEOTUNES	\$21.95
VISI-SPRITE V6.5	\$22.95

**GRAPHIC DESIGN**

CLIP-ART VOLUME I & II	\$12.95
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COLECO GRAPHICS PROCESS. CART	\$29.95
GRAPHIXPAINTER	\$19.95
GRAPHIXPIX I	\$14.95
GROOVY GRAPHICS	\$14.95
HAPPY CLIPS VOL. 1 TO 5 (Each vol.)	\$10.95
M&M GRAPHICS	\$9.95
PAINTAIDE with the SWIFT FONT KIT	\$16.95
PAINT PALETTE	\$9.95
POWERPAINT (64K)	\$29.95
POWERPRINTS VOLUME I	\$11.95
POWERTOOLS	\$15.95
SMILEY FACE: WHAT AN ATTITUDE!	\$9.95
SNAPSHOTS VOL. I & II	\$10.95
SWIFTPRINT (64K)	\$15.95
YULE TOOLS I	\$16.95

\$4.00  
DISK

# N.I.A.D. PUBLIC DOMAIN SOFTWARE

PLEASE NOTE: Specify VOLUME #, TITLE and DISK OR DDP

\$6.00  
DDP

### MISCELLANEOUS VOLUMES

- SMARTBASIC BNDV # 1 - 38:** 38 different volumes containing assorted SmartBASIC entertainment, application, graphics, patch, utilities and other misc. programs. Most volumes are auto-booting and contain SmartWRITER documentation.
- SMARTBASIC UTILITIES UNDV # 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 SmartWRITER documentation.
- SMARTLOGO UNDV # 1 - 5:** 5 different volumes containing SmartLOGO entertainment, application, graphics, utilities, patches and other misc. programs. Volumes require the user boot SmartLOGO first, contain SmartWRITER documentation.
- ADAMCALC UNDV # 1 - 4:** 4 different volumes containing ADAMCALC spreadsheet formulas, tutorials and demonstrations. All volumes require the user to boot ADAMCALC first and contain SmartWRITER documentation.
- CP/M 2.2 UNDV # 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.
- VPD SIGNS UNDV # 1 - 2:** 2 different volumes containing SignShop/NewsMaker graphic files for use with these programs by Strategic Software. Volumes require the user boot SignShop/NewsMaker first and contain SmartWRITER documentation.
- PINBALL GAMES UNDV # 1 - 7:** 7 different volumes containing Pinball Construction Set pinball games which were designed with this public domain program by Coleco. Each volume is auto-booting and contains SmartWRITER documentation.
- VIDEOTUNES SONGS UNDV # 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 UNDV # 1 - 8:** 8 different volumes containing many assorted song files each that are for use with Mini-Recorder by Bonafide Systems for the MIDI-MITE.
- 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 SmartWRITER 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.
- UNADV BACKISSUE INDEX:** SmartFILER database detailing the contents of past N.I.A.D. Newsletters through 1987. Requires that the user boot SmartFILER first and then follow the SmartFILER instruction manual in order to load the database.
- DUKAS MINI-REVIEWS:** SmartFILER database with mini-reviews of hundreds of software and hardware products. Requires that the user boot SmartFILER first and then follow the included instruction sheet on how to access the database's contents.
- ADAM SUPPORT DIRECTORY:** SmartFILER database containing names, addresses, etc. of ADAM support firms and user groups by Hector Sanchez. Requires the user boot SmartFILER and then follow the SmartFILER 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 SmartWRITER 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

- RLE PICS VOL. # 1 - 4:** 4 different volumes of RLE picture files which can be viewed in SmartBASIC V1.0 with the included Cbpic-FST program or in PowerPAINT, also contains SmartWRITER documentation.
- DREARY ART GALLERY VOL. # 1 - 2:** 2 different volumes of 13 SmartPAINT format picture files to be viewed in SmartBASIC V1.0 with the included loader program or in PowerPAINT and other programs which support the SmartPAINT format.
- ON & B PIX VOL. # 1 - 29:** 29 different volumes of 13 SmartPAINT format picture files to be viewed / edited in PowerPAINT, ShowOff!, etc.
- PAINTMASTER VOL. # 1 - 13:** 13 different volumes of clip-art, sprites 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.
- PAINTFORMS VOL. # 1 - 4:** 4 different volumes of assorted letterheads, labels and forms and miscellaneous graphic files for use with PowerPAINT by Digital Express.
- C.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 cars through the use of the cartridge version of The Coleco Graphics Processor.

### ENTERTAINMENT VOLUMES

**CSUPER 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. **PINBALL CON. SET / HARD HAT MACK** (Best of Electronic Arts): Coleco supergame 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.

**CSUPER SUB-ROC:** Coleco supergame pack version of the Sub-Roc 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.

**ITROLL'S TALE:** Coleco supergame pack originally developed by Sirius Software. This is a children's adventure game with good graphics and offers a strong challenge as well as an instruction sheet.

**DIOPARDY:** 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 options as well as an instruction sheet.

**CABBAGE PATCH KIDS: AVE. 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 game(s).

**TEMPLE OF APSHAI 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.

**FALL GUY / VIDEO HUSTLER:** Unreleased cartridges on disk or ddp which were developed by Fox Games. Fall Guy is a combo driving simulation and arcade game. Video Hustler is a video pool game. Contains SmartWRITER documentation.

**DYONES ON YOU / MATH WIZ:** Cars which were developed by Fox Games & Sierra. Play the role of a rooster 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.

**MA.S.H. / SUPER COBRA:** Unreleased cartridge game by Fox Games. Two arcade sequences: pick-up the wounded soldiers in the field and then remove strappail in operating room and a helicopter action game by Parker Bros. In which you must destroy the enemy ground installations. Contains SmartWRITER documentation.

**MEMORY MANOR / WORD FEUD:** Children's game by Fisher. Price tests the memory capacities of your child. Good graphics and sound and unreleased cartridge by Xerox in which you race against an opponent to find words hidden in the game board. Contains SmartWRITER documentation.

**CHESSES 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.

**CARTILLEY DUEL / TOMARC THE BARBARIAN:** Unreleased cartridges by Xerox. Bomb your opponents gunnery position before he bombs yours. Good graphics and sound and save your girlfriend from the cave-man before your strength runs out! Contains SmartWRITER documentation.

**COLOSSAL CAVE:** Enormous text adventure program which was the forerunner to the line of InRoom text adventures known as ZORK.

**CSUPER DAM BUSTER:** Supergame version of the cartridge with added screens and Hall of Fame. The only flight simulator available for ADAM and one of the best 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 TIRES and B.C. II: GROSS RENEGE developed by Coleco of Canada. Help Thor past obstacles to find Cule Chick and to find the meaning of Life.

**DMOANG PHRASE PAK:** An additional 300 phrases for use with Phrase Craze by Reedy Software. Compiled by George Drank. Contains SmartWRITER documentation.

### UTILITY VOLUMES

**EOS DISK MANAGER:** Coleco utility program which was supplied with the 5 1/4" 160K Disk Drive. Also, contains the most current Coleco EOS Revision, Rev. 7.

**DISPEDD 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.

**ADAM UTILITIES:** Coleco In-House utilities, test and demo programs combined on an auto-booting media. Memory expander required for some of the system testers. Also includes Adian Diagnostic and an instruction sheet.

**Macadam:** Z80 / EOS Assembler written in machine code for the Informatists to advanced machine code programmer. Contains manual in SmartWRITER format.

**STRATEGIC SOFTWARE PATCHES:** SmartBASIC V1.0 programs for patching Strategic Software's SignShop, NewsMaker, MultiWhite, Microworks, etc. Programs for use with dot matrix printers as well as major enhancements made to the MultiWhite Word Processor. Contains SmartWRITER 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. Shapes created can be used in PowerPAINT. Contains SmartWRITER documentation.

**MEDIA MATE:** Three tremendous utility programs for editing data packs and disks in SmartBASIC V1.0. Contains Informative SmartWRITER 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 SmartWRITER format.

**COLECO IN-HOUSE PROGRAMS:** Six separate programs: three diagnostic programs along with the Turnell's Trails, ADAM and Music demos.

**MIDI DRIVERS & DEMOS:** A collection of MIDI SmartBASIC V1.0 utilities programs along with technical information of the MIDI file setup. Contains SmartWRITER 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. Contains SmartWRITER documentation.

### PRODUCTIVITY VOLUMES

**ADAMLINK 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 management system program for the personal investor. Not totally bug free. Contains SmartWRITER documentation.

**ITAX PLANNER:** Coleco of Canada business software which will create a clearer and more complete picture of your tax situation. Contains SmartWRITER docs.

**VISI-SPRITE V6.0:** Advanced sprite development package with many powerful built-in features. This is the copyrighted version of the copyrighted version 6.5 and is made available for demo purposes and a chance to test out before buying V6.5.

**ADVANTAGE:** Great graphic design utility from France using a point-and-click method of operation along with a SmartBASIC V1.0 utility to convert dAVINCI files into Graphi-PAINTER files. Contains SmartWRITER documentation. DISK ONLY.

**IX-10 CONTROL SOFTWARE:** Home appliance control / security system software. Requires a Serial Interface, Serial Cable and the X-10 Hardware. Contains SmartWRITER documentation.

**COLECO GRAPHICS PROCESSOR:** Coleco's graphic design utility used to create graphics for cartridges and supergames. Now, on an EOS media. Instructions are provided as well as a picture file conversion program. Requires memory expander.

**DDOS V4.5B:** Super enhanced version of CP/M 2.2 which operates much like MS-DOS. Adds many new features to make it an easier system to work with. All programs ready to run. On 1 - Data Pack \$6.00 or on 2 - 5 1/4" Disks \$8.00.

**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 SmartWRITER 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, formatter and backup programs. Contains SmartWRITER documentation.

**SmartBASIC V2.0 40 COLUMN:** 40 column text version of SmartBASIC V2.0 which works in STWEM or EXTMEM modes. No longer do you have to bother with a non-standard 31 column screen. Contains SmartWRITER documentation.

**AUSTRALIAN SmartBASIC:** Enhanced SmartBASIC V1.0 with SmartKEY display of some of the most often used SmartBASIC commands (ie: RUN, LIST, SAVE, etc).

**ADAM FORTH V1.1:** ADAM compatible version of this popular programming language. Comes with a number of programs on media and instruction sheet.

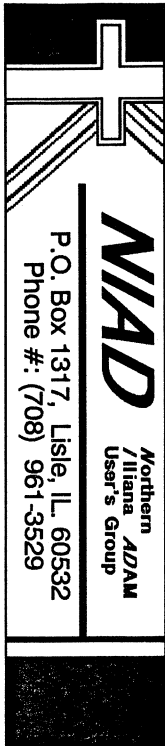
**COLECO PERSONAL CP/M:** Coleco's In-House version which evolved into CP/M 2.2. Made available for collectors and as an easy way to test the ADAM components. Comes with instruction sheet.

**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 SmartWRITER documentation file.

**ISP-1 CUSTOM PRINTER SOFTWARE:** Specialized software patches for use in SmartWRITER. Used to imbed software commands. Available for the following printers: Panasonic 1080 / 91 / 82 / 85, Star G10 / G20, Epson FX / FX, Blue Chip, Olympia R80, Brother 2024L, Smith Corona FastJet 80 / D2000, Okl 182 / 182.

**BASEBALL STATISTICIAN:** Comprehensive stat compiler for pitching, batting and team statistics with full line of edit features, save option, print features for ADAM Printer or dot matrix by Wizard's Lair. Comprehensive instructions in SmartWRITER.



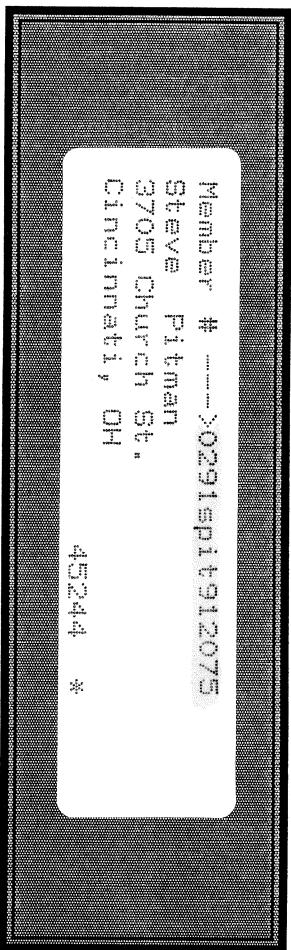


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" For GOD so loved the World that he gave his one and only SON, that whoever believes in him shall not perish, but have eternal life. For GOD did not send his SON to condemn the World, but to save the World through him. " . . . . John 3:16

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