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Issue #76/77 - May/ June, 1991

Editors: Lyle Marschand & James Notini

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Continuing with our study of Romans chapter 8...

<sup>12</sup> Again Jesus spoke to them, saying, "I am the light of the world; he who follows me will not walk in darkness, but will have the light of life." <sup>13</sup> The Pharisees then said to him, "You are bearing witness to yourself; your testimony is not true." <sup>14</sup> Jesus answered, "Even if I do bear witness to myself, my testimony is true, for I know whence I have come and whither I am going, but you do not know whence I come or whither I am going. <sup>15</sup> You judge according to the flesh, I judge no one. <sup>16</sup> Yet even if I do judge, my judgment is true, for it is not I alone that judge, but I and he who sent me. <sup>17</sup> In your law it is written that the testimony of two men is true; <sup>18</sup> I bear witness to myself, and the Father who sent me bears witness to me." <sup>19</sup> They said to him therefore, "Where is your Father?" Jesus answered, "You know neither me nor my Father; if you knew me, you would know my Father also." <sup>20</sup> These words he spoke in the treasury, as he taught in the temple; but no one arrested him, because his hour had not yet come.

<sup>21</sup> Again he said to them, "I go away, and you will seek me and die in your sin; where I am going, you cannot come." <sup>22</sup> Then said the Jews, "Will he kill himself, since he says, 'Where I am going, you cannot come?'" <sup>23</sup> He said to them, "You are from below, I am from above; you are of this world, I am not of this world. <sup>24</sup> I told you that you would die in your sins, for you will die in your sins unless you believe that I am he." <sup>25</sup> They said to him, "Who are you?" Jesus said to them, "Even what I have told you from the beginning. <sup>26</sup> I have much to say about you and much to judge; but he who sent me is true, and I declare to the world what I have heard from him."

<sup>27</sup> They did not understand that he spoke to them of the Father.

<sup>28</sup> So Jesus said, "When you have lifted up the Son of man, then you will know that I am he, and that I do nothing on my own authority but speak thus as the Father taught me. <sup>29</sup> And he who sent me is with me; he has not left me alone, for I always do what is pleasing to him." <sup>30</sup> As he spoke thus, many believed in him.

<sup>31</sup> Jesus then said to the Jews who had believed in him, "If you continue in my word, you are truly my disciples, <sup>32</sup> and you will know the truth, and the truth will make you free." <sup>33</sup> They answered him, "We are descendants of Abraham, and have never been in bondage to any one. How is it that you say, 'You will be made free?'"

<sup>34</sup> Jesus answered them, "Truly, truly, I say to you, every one who commits sin is a slave to sin. <sup>35</sup> The slave does not continue in the house for ever; the son continues for ever. <sup>36</sup> So if the Son makes you free, you will be free indeed. <sup>37</sup> I know that you are descendants of Abraham; yet you seek to kill me, because my work finds no place in you. <sup>38</sup> I speak of what I have seen with my Father, and you do what you have heard from your father."

<sup>39</sup> They answered him, "Abraham is our father." Jesus said to them, "If you were Abraham's children, you would do what Abraham did,

<sup>40</sup> but now you seek to kill me, a man who has told you the truth which I hear from God; this is not what Abraham did. <sup>41</sup> You do what your father did." They said to him, "We were not born of fornication; we have one Father, even God," <sup>42</sup> Jesus said to them, "If God were your Father, you would love me, for I proceeded and came forth from God; I came not of my own accord, but he sent me. <sup>43</sup> Why do you not understand what I say? It is because you cannot bear to hear my word. <sup>44</sup> You are of your father the devil, and your will is to do your father's desires. He was a murderer from the beginning, and has nothing to do with the truth, because there is no truth in him. When he lies, he speaks according to his own nature, for he is a liar and the father of lies. <sup>45</sup> But, because I tell the truth, you do not believe me. <sup>46</sup> Which of you convicts me of sin? If I tell the truth, why do you not believe me? <sup>47</sup> He who is of God hears the words of God; the reason why you do not hear them is that you are not of God."

<sup>48</sup> The Jews answered him, "Are we not right in saying that you are a Samaritan and have a demon?" <sup>49</sup> Jesus answered, "I have not a demon; but I honor my Father, and you dishonor me. <sup>50</sup> Yet I do not seek my own glory; there is One who seeks it and he will be the judge. <sup>51</sup> Truly, truly, I say to you, if any one keeps my word, he will never see death." <sup>52</sup> The Jews said to him, "Now we know that you have a demon. Abraham died, as did the prophets; and you say, 'if any one keeps my word, he will never taste death.' <sup>53</sup> Are you greater than our father Abraham, who died? And the prophets died! **Who do you claim to be?**" <sup>54</sup> Jesus answered, "If I glorify myself, my glory is nothing; it is my Father who glorifies me, of whom you say that he is your God. <sup>55</sup> But you have not known him; I know him. If I said, I do not know him, I should be a liar like you; but I do know him and I keep his word. <sup>56</sup> Your father Abraham rejoiced that he was to see my day; he saw it and was glad." <sup>57</sup> The Jews then said to him, "You are not yet fifty years old, and have you seen Abraham?" <sup>58</sup> Jesus said to them, "Truly, truly, I say to you, before Abraham was, I am." <sup>59</sup> So they took up stones to throw at him; but Jesus hid himself, and went out of the temple.

Jesus begins this teaching by calling himself the "LIGHT OF THE WORLD". This is one of the analogies that Jesus used in an attempt to explain who he was and why he came. Light reveals things that are otherwise hidden and this is one of the main purposes of Jesus' coming. **Jesus revealed God's true plan for mankind**, as compared to what the religious leaders of the time were teaching.

Jesus contrasted his origin as being from "above", versus the "fleshly" nature of the religious teachers (Pharisees). He established his identity by referencing God the Father as his source of all information and teaching, Jesus said he was speaking what the Father directed him to speak, and not just what he felt like saying.

(Continued on page 2...)

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**ADVERTISERS INDEX:**

**ADAM'S HOUSE**  
 RT. 2 Box 2756  
 PEARLAND, TX 77581  
 (713) 482-5040

**S.M. VIDEO**  
 P.O. BOX 3189  
 OAKTON, VA 22124  
 (703) 620-4485



## N.I.A.D. PROCEDURES



⇒ N.I.A.D. is published monthly except for the months of May / June 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 May / June issue of N.I.A.D. is the 76/77th issue published by N.I.A.D., there are 75 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 **0591** or **0691** 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.

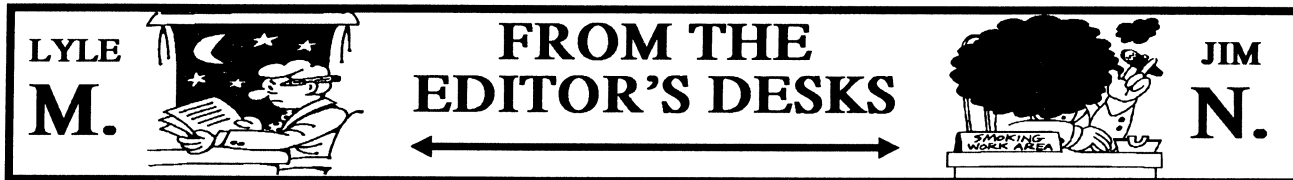
⇒ N.I.A.D. welcomes software developers to submit their programs for us to evaluate for possible commercial sale. Send in your products for us to test and to review in the newsletter. N.I.A.D. offers a 50 / 50 split of the sale price on all items that we handle distribution of for all developers. You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

- September 12, 1991**
- October 10, 1991**
- November 14, 1991**
- December 12, 1991**
- January 9, 1992**

**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.**



Jesus referenced the fact that who he was would become clearer after his death (which of course has been exactly the case, Christianity began with Jesus' death and subsequent resurrection).

The key here is that Jesus confronted the people and the religious leaders by challenging them with the "truths" from God. Many people rejected these teachings because they did not want to believe. We have all that choice, **God does not force us in any direction.**

God did not make us robots, rather he gave us a free will so that we could choose to believe and follow his teachings or reject them - we all have that choice.

Jesus said there are 2 paths, one is the path of believing in God (truth) and following his teachings and the other is not believing in God which is the path of sin. Due to the fact of original sin (Adam's sin of disobedience to God, which resulted in all of mankind having a sinful nature), we all are following a path of sin and its consequences unless we breakaway and follow the path of God's teachings. In other words, we need to take a positive action to move away from the darkness of sin to the light and truth of God. **Jesus came to show us this path and give us this opportunity for freedom from sin for eternity.**

However, we need to start by opening our ears to God's message, if we don't first listen with an open mind we don't even have a chance. This is what Jesus was trying to teach these people. He established his origin and challenged them to open their hearts and really listen to what he had to say. We all need to do this in order to grow, if we shut out everything except what we feel comfortable with we will never know if we have made a serious error in judgement. This is a serious problem, too often our pride gets in the way of good judgement. We like to think we are the right course, without checking the map to find our where we are. Jesus is challenging us to rethink whether our current course is correct - don't let your pride get in the way of opening yourself up to new ideas. **Read and study the Bible and let God have a chance to teach you !**

In the case of God, an error could cost us dearly and for eternity. Won't you please open up your hearts and try to listen to the words of Jesus, they can give you life and salvation.

God bless you all.

I hope you are all having a great summer ! I love the hot summer months, but it sure gets to be a very busy time of year. I started what turned out to be a big project in my yard this year that I am still working on. I thought I could get it done over a 4 day weekend, but I way underestimated how much time it takes to dig up sod, haul dirt, edge flower gardens and plant ! Oh well, it should look nice when it is done (it better) !

I know that summer isn't a great time for spending on your computers but there are still plenty of things to learn. Doug Roseninge's article on CP/M for the novice is a great way to get started with this interesting operating system that will open up new types of software for your ADAM. TDOS will help make CP/M much easier to use than before.

My hats off to Dean Roades and his great job at organizing a super ADAMcon 03 in South Bend, In. He has lined up a great program with something for everyone. Make your plans now - hope to see you there.

Hello once again ADAMites! It's been a long time in coming, but this newsletter has finally made it's way to your doorstep for your reading enjoyment. It always seems to be tough to keep publishing the newsletter on time during the spring and summer months due to the nice weather, which is impossible for a Northerner not to take advantage of. Not only that but Chicago has once again fielded a championship team in DA BULLS. Oh, it feels so good after all those years of suffering through losing seasons and coming so close the last couple years. But back to ADAM news...

Due to the dreaded Summer Lull during the spring and summer months for the computer industry and especially the ADAM, we here at N.I.A.D. have decided to change over the format of the newsletter a bit. Instead of publishing a combined December / January issue, we will now be publishing a combined May / June issue with December and January issue being separate. Of course the July / August issue will still be combined but going with the combined May / June issue will allow us to deliver more information during the winter holiday season.

Two of the most talked about ADAM products over the last year or so have been the ADAM Image Maker video upgrade and the Linked Stack Development Kit (a.k.a. Hypercard), and they haven't even been released for commercial distribution to the ADAM community. This is a major disappointment to many, but can also serve as a good sign for when the products are finally released. How you may say? Well, what will end up being released when these products are completed are very well tested and designed products that will not have to be frequently upgraded or revised. I know it's tough to wait month after month for something that could improve your computing ability, but that's the way the cookie crumbles when dealing with computer products, especially for an orphaned computer which does not have the masses of owners which an IBM or IBM compatible system has. There are many instances of long delays on products for all computers (look how long it took MicroSoft to upgrade MS-DOS to version 5.0 and once it was developed, it took another year before release for beta-testing purposes), so just sit tight, but don't hold your breath.

For those of you who have purchased a Panasonic KX-P1123 or KX-P1124 to be used on the ADAM in conjunction with the E & T Parallel Printer Interface please note that you will experience some compatibility problems. We have had reports of the printers sometimes working beautifully, but others times doing nothing at all when a print function was chosen through a program as well as improper letters being printed. Thanks to Terry Fowler, we now know that the problem is caused by the way that the E & T Parallel Interface sends the data to the Panasonic 24-pin printer. The E & T board is the only one of the many which have been produced for the ADAM which you will experience incompatibilities with (the EVE and Orphanware boards do not cause any conflicts). However, there is an easy remedy to this problem and that is the purchase of a Parallel Printer Buffer which would hook up between the E & T parallel cable and the Panasonic dot matrix printer. Printer buffers are universal items and can be bought at any computer store. It means spending a little more, but the advantages of the 24-pin printers over 9-pin printers like the KX-P1180 are enormous. Also, if you are having difficulties in getting any other dot matrix printers working on your ADAM, a print buffer may be the item which for one reason or another will remedy any incompatibilities.

Well, til the combined July / August issues which will be mailed in late August, here's hoping you have a great summer and that we have a chance to meet at ADAMCON 03 in August.



# N.I.A.D. NEWS & UPDATES

⇒ N.I.A.D. continues on this month with some tremendous specials on ADAM products (especially software programs). This is the perfect opportunity to pick-up some truly fantastic programs at unbelievable prices. Also, we have included an array of Sega 8-Bit Master System games again this month which are available at unbelievably low prices and if you buy any two titles, you get a third of your choice absolutely free! The last item on special is the Amstrad PC-1640 IBM compatible system which is bundled with some outstanding programs to get you started into word processing, database management, spreadsheet usage, etc. right off the bat. If you are interested in the IBM system, give us a call and we can discuss the ins and outs to give you an idea of what it can do for you.

⇒ The N.I.A.D. Public Domain Library, as was mentioned last month, has undergone some major growth with the addition of some 13 volumes of ADAMCALC files contributed by Nick Lukach. For all the in-depth news, check-out the Public Domain Workshop. N.I.A.D. now offers 17 different volumes of ADAMCALC programs which we will continue to list in the newsletter until we are caught up.

⇒ Micro Innovations has raised the price of the ADAMnet Floppy Disk Drives as was mentioned last month. The new retail price for the drives are as follows: 5 1/4" 320K is now \$219.95 and the 3 1/2" 720K is now \$269.95 (a \$20.00 increase on both units). Included in this newsletter is a video catalog of currently available M.I. products. If you have been wondering what these hardware products look like, here is your chance to get an eye-full!

⇒ Oasive Pensive Abdacutors has released no further news on their much anticipated A.I.M. video enhancement. Word out of one retailer who has pre-ordered the A.I.M. is not very promising for an immediate release. Hopefully a clearer picture will be formulated during ADAMCON 03. We will keep you posted of any other news is received in the interim.

⇒ The Linked Stack Development Kit (aka HYPERCARD) software which was thought to be available already in Canada has been delayed. Apparently the programming has slowed with the addition of more advanced applications which are planned to be included. Another reason for the slow progression of this program may also be a lack of response by the community, so if you are interested in this product write or call the developer to let him know.

⇒ ADAMCON 03 is right around the corner, so if you haven't registered already now is the time. In this newsletter are the final updates to the progress of ADAMCON 03 which have been supplied by Dean Roades, the Convention Chairman. We hope to see you there come August 1st.

⇒ Hexace Software has completed updates on their COPX and SmartWRITER's HELPER programs. COPX now includes a disk formatting option and members who have ordered COPX may return their original program media along with \$2.00 to receive the update. SmartWRITER'S HELPER has been updated to include the ability to imbed special printer commands for the Panasonic KX-P1080, 1080i or 1180 (the 1090 and 1190 series are compatible with this version, but all of the capabilities of these models will not be accessible). If you have a printer other than the one listed above, you will have to order directly through Hexace Software and supply them with your printer's owner manual in order for them to customize SmartWRITER'S HELPER for your printer. When ordering through Hexace Software, it is advised to contact them first prior to sending in an order concerning S.W.'S

HELPER at: RD. 2, BOX 51 - FRANKLIN, PA 16323 - (814) 432-3563.

⇒ ADAMOUSE II by Thomas Electronics has been removed from our line of products due to the inability of Thomas Electronics to supply orders within a reasonable frame on time. Other planned products seem to also be unavailable at this time. If you are interested in the mouse or other products developed by Thomas Electronics, you will have to contact them directly and order through them.

⇒ TRISYD VIDEO LABS; creators of the Dynamite Sound Digitizer, SmartCLOCK Chip and MegaCOPY among other hardware items and upgrades, has announced that the production of all their products have been ceased until current stock is sold off and a future direction for the company has been decided upon by it's owner/operator Syd Carter. N.I.A.D. no longer has any stock on any of the Trisyd products, so if you are interested in any of their products, contact them immediately at: 26 Florence Crescent - Toronto, ONT., CAN. M6N-4E4 - (416) 769-6446.

⇒ ADAMzap Software has announced that all software development and sales have been suspended until the fall due to new employment out of state. Currently, N.I.A.D. only carries Zoran III and our stock is very low and will not be replenished until sometime in the Fall. We have been informed by ADAMzap that S.A.S.E. may still be sent to them for the ADAMzone Newsletter, which will begin publication once again in the Fall. Send to: 17 Capstan Rd. - W. Milford, NJ 07480-4816.

⇒ APPOINTMENT BOOK by Bob Sebelist has been improved with the addition of a built-in calendar and Invoicing program. The program is available for those with Clock/Calendar cards or chips and a non-clock (you enter the date at the program's beginning) versions. Now you can keep track of invoices, daily appointments, future appointments, special notes to yourself, reminders, memo writer for correspondence, and an instant phone book all in one place. The program is accessed through one master program and with a hard drive, file access is instantaneous. Retail price is \$24.95 through ADAM'S House and the specific version must be specified (either the clock version or no clock version). As soon as we receive a new demo copy, we will publish a review.

⇒ E & T SOFTWARE has informed us that a bad batch of capacitors created problems for recently purchased MegaRAM CARDS. The memory just faded away after ten minutes or so. The cards have been corrected and are once again readily available. Those who returned their MegaRAM Cards should have received replacements by the time you read this directly from E & T Software. If you have not, please contact us immediately.

⇒ Here are some hardware products that very possibly will become a reality in the not so distant future (provided by ADAM'S House): MEMORY CARDS: 64K expandable to 256K Card (around \$50 with 64K and \$100 with 256K); 256K expandable to 1 MEG Card with Battery Backup (around \$150 with 256K and \$250 with a full Megabyte); UNINTERRUPTABLE POWER SUPPLY - a complete power supply with battery backup in case of power failure, making sure you don't lose your work (around \$125); SERIAL CARD - A dual serial port card compatible with the EVE and OBS standard (around \$50).

⇒ The next N.I.A.D. Newsletter which will be published will be the July / August combined newsletter that will be sent out in the middle to end of August. Also note that we have changed from combining the December / January issue to combining the May / June issue since spring and summer always seem to be the slowest time of the year for computers.

**N.I.A.D. SUMMER SPECIALS**

Effective thru August 20, 1991

**COMMERCIAL SOFTWARE**

	<b>WAS</b>	<b>NOW</b>
○ ADAMTUTOR (DP) by TUTORWARE.....	\$9.95	\$5.00
○ AMERICA AT WAR (DP) by A-WARE .....	\$9.95	\$5.00
○ AUTOBACKUP by WALTERS SOFTWARE .....	\$17.95	\$11.95
○ BACKUP 3.0 (DISK) by M.M.S.G. ....	\$10.95	\$6.95
○ BASIC BONANZA (DP) by MARTIN CONSULTING.....	\$14.95	\$6.95
○ BLOCKADE RUNNER (DISK) by INTERPHASE.....	\$15.95	\$7.95
○ CHESS TUTOR I (DP) by TUTORWARE.....	\$9.95	\$5.00
○ CHESS TUTOR II (DP) by TUTORWARE.....	\$9.95	\$5.00
○ EASY COME, EASY GO (DP) by M.M.S.G. ....	\$19.95	\$10.95
○ FLASH FACTS: FLASHBACKS (DP) by COLECO.....	\$6.95	\$5.00
○ FORMATTER II (DISK) by WALTERS SOFTWARE .....	\$12.95	\$6.95
○ JEOPARDY WRITER by WALTERS SOFTWARE .....	\$19.95	\$14.95
○ MisPELLER by WALTERS SOFTWARE.....	\$18.95	\$7.95
○ MOONSWEEPER by IMAGIC.....	\$15.95	\$7.95
○ NOVABLAST (DISK) by IMAGIC .....	\$18.95	\$7.95
○ PHRASE PAK I by REEDY SOFTWARE.....	\$9.95	\$6.95
○ PHRASE PAK II by REEDY SOFTWARE .....	\$9.95	\$6.95
○ PHRASE PAK CON. SET by REEDY SOFTWARE .....	\$9.95	\$6.95
○ RamBOOT by WALTERS SOFTWARE CO.....	\$19.95	\$9.95
○ RECIPE FILER (DP) by COLECO .....	\$9.95	\$6.95
○ REEDY ENTERTAIN. PACK by REEDY SOFTWARE .....	\$13.95	\$7.95
○ REEDY SOFTWARE LIBRARY by REEDY SOFTWARE .....	\$17.95	\$7.95
○ ROCK'N BOLT (DP) by ACTIVISION .....	\$18.95	\$7.95
○ SmartDSK I by WALTERS SOFTWARE .....	\$18.95	\$9.95
○ SmartDSK II by WALTERS SOFTWARE .....	\$16.95	\$8.95
○ SmartTERM V1.02 by KEHOE SOFTWARE .....	\$15.95	\$8.95
○ SnapSHOTS VOL. I & II by WIZARD'S LAIR.....	\$10.95	\$6.95
○ SQUISH'EM SAM (DISK) by INTERPHASE.....	\$18.95	\$7.95
○ STAGE FRIGHT by REEDY SOFTWARE .....	\$13.95	\$8.95
○ STOCK MARKET GAME by IMAGE MICROCORP .....	\$15.95	\$8.95
○ STRATOZAP by ALLIED CREATIVE ENGINEERS.....	\$16.95	\$7.95
○ SUPER ZAXXON (DP) by COLECO .....	\$9.95	\$5.95
○ TOURNAMENT TENNIS (DISK) by IMAGIC .....	\$18.95	\$7.95
○ U-MATCH-EM by PHOENIX 2000.....	\$12.95	\$6.95
○ WORLD CAPITALS (DP) by PARALLEL SYSTEMS.....	\$9.95	\$5.00

**HARDWARE, SUPPLIES & BOOKS**

○ FROM BASICS TO BASIC .....	\$14.95	\$11.95
○ HACKER'S GUIDE TO ADAM VOL. I.....	\$11.95	\$8.95
○ HACKER'S GUIDE TO ADAM VOL. II.....	\$11.95	\$8.95
○ BASIC BASIC PROGRAMS FOR THE ADAM.....	\$8.25	\$4.95
○ N.I.A.D. PRODUCT REVIEW BOOK.....	\$14.95	\$9.95
○ ROLLER CONTROLLER with SLITHER CART.....	\$44.95	\$29.95
○ ADAM PRINTER POWER SUPPLY .....	\$59.95	\$39.95
○ ADAMnet CABLE (7ft.) by COLECO .....	\$2.95	\$1.00
○ TAN HAND CONTROLLER by COLECO .....	\$5.95	\$2.95
○ 256K RIGHT DIRECTORY DATA PACK.....	\$1.00	\$.75

**N.I.A.D. NEWSLETTER BACKISSUES**

○ NEWSLETTER BACKISSUES ..... \$1.00 \$ .50  
 Choose from any of the published backissues of the N.I.A.D. Newsletter EXCEPT FOR ISSUES #2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 19, 20, 23, 42, 55, 66/67, 74 and 75. Remember that starting with the July / August 1986 Issue #19/20, all issues for July and August as well as December and January are combined issues.

**SEGA 8-BIT PRODUCTS**

Buy any two SEGA 8-BIT game products and receive a third SEGA 8-BIT product of your choice absolutely FREE. The third, free choice must be of equal value or lesser in price than each of the first two products. Please select an additional item in the event that one of your selections is out of stock.

○ SEGA 8-BIT BASE SYSTEM.....	\$49.95
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# CP/M 2.2 & TDOS for the Novice

## Part 1: Introductory

by Doug Rosenvinge



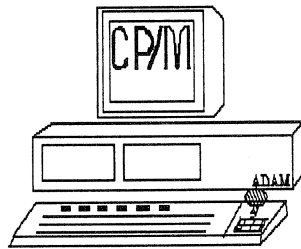
Welcome to the first in a series of CP/M and TDOS articles designed to help the casual user who doesn't have the CP/M or TDOS manuals or who doesn't understand them. I'll be as simple as I can, but ask you to bear with all the information you're going to see. CP/M is a very powerful operating system but it is spartan in its use of messages. Depending on the version of CP/M or TDOS you are using you will boot the system and see an opening screen that ends with this line, called the "prompt":

A>

No one can be expected to know what that means without some experience, book or friend to say it means "the computer is ready and waiting and is using drive A." That is what I mean by spartan. If you have a more advanced CP/M system or TDOS you will see one of the following prompts:

A0> or for TDOS A0:

This simply means that "the computer is ready and waiting and is using drive A, user number 0." User numbers are like sub-directories. They allow you to keep files grouped together so that you don't have to have large directory listings. Before we get too far afield, lets discuss what CP/M is, what it does, and how we can use it.



## What is CP/M?

CP/M is an operating system. It is nothing more than a program that runs on your ADAM. It controls all the activities and parts of your ADAM. CP/M enables programs to make use of memory, disk drives, tape drives, keyboard, memory expander, printer(s), serial ports, parallel ports, video display, modems, and everything else that you can possibly hook up to your computer. Your program asks CP/M to do the things like read a disk file. The programmer doesn't need to know how to make the disk drive work, he only has to ask CP/M to read the disk file. The advantage of this system is that a program can be written for CP/M and run on almost any computer that runs CP/M without worrying about how the disk drive works! This simplifies programming and increases the power of programs.

For those of you who are familiar with MS-DOS for IBM compatibles, CP/M was its parent. MS-DOS was basically a modified form of CP/M that allowed it to be run on 16-bit microprocessors. CP/M was designed for 8-bit microprocessors like the 8080 and the Z-80, which is the processor in our ADAM computers. A 16-bit version of CP/M was developed and marketed for IBM PCs. It never became popular due to its price and IBM's decision to make MS-DOS its major operating system. CP/M stands for Control Program Monitor. (A monitor is an operating system.) Dr. Gary Kildahl is its author. CP/M exists in several versions. CP/M 2.2 is the "standard" ADAM CP/M. CP/M 3.0 was developed for some other computers such as the Commodore C-128. A multi-tasking version is MP/M.

Since CP/M's release there have been many improvements made to it by its users. Because of these modifications some features mentioned in this article will not work on all CP/Ms in use on ADAMs today. One of the major improvements, as far as ADAM owners are concerned, is

Tony Morehen's TDOS, a replacement for CP/M. For those who don't have CP/M or would like to get a CP/M replacement that is better than the original, order a copy of TDOS from N.I.A.D. today. For the sake of discussion, unless otherwise stated, anything said about CP/M will probably apply to TDOS as well.

## CP/M vs. EOS

**Standardization:** CP/M programs tend to use less color and sound than EOS programs. When CP/M was written computers did not normally come equipped with specialized sound chips and color video. Some CP/M machines were designed with these capabilities, but the manufacturer of the computer had to extend CP/M to use these features. Most programs written for CP/M machines are generic. They were written to be run on all machines running CP/M. To do this they could not be written to use special keys, sounds, or video that would not be common to other computers. At first glance this might seem to be a disadvantage, but its not. Any program you learned to run on one computer works and looks the same, with minor differences, on another computer. A couple of years ago a friend of mine was taking notes at a convention using his Osborne computer. He was called out of the convention for a few minutes. Seeing me he asked if I would take notes for him while he was gone. I was able to sit down at his Osborne and take notes just as if it was my ADAM at home because he was using WordStar and I use Word Star and it ran and looked the same on both machines. I didn't have to learn any function keys, SmartKEYs or anything else. Standardization of keys and displays makes it easier to transfer knowledge and experience.

**Speed:** A second CP/M advantage over EOS is speed. EOS programs like SmartWriter, AdamCALC and SmartFILER make heavy use of graphics and colors compared with CP/M. It takes time to process these enhancements. Think of scrolling through a SmartWriter file. As you move through the file a pointer shows you the approximate vertical position on a page, a ruler line shows you your cursor position. Providing these displays takes screen space and processing time. CP/M's simpler screen display and sound functions require far less processing, making CP/M programs blaze along compared to their EOS counterparts. As a simple test, load a two or three page document into SmartWriter and time how long it takes for you to move to the end. Then load a CP/M memory resident wordprocessor like Video Display Editor and do the same. Try other functions such as searching or deleting text and compare the times. I'm sure you'll agree that CP/M is far faster.

**Memory:** This is an often overlooked part in comparisons of operating systems. The more memory you have available the larger and more complex programs can be run and the more information can be processed. SmartWriter can only process files of about 10 pages or so, unless you have a memory expander. SmartWriter consumes most of the memory on itself, and still manages to run fairly slowly. By not being tied down with complex graphics and sounds, CP/M has more memory available for programs and processing.

64K

## CP/M Command Structure

**Internal Commands:** CP/M 2.2 has six internal commands. They are always accessible from the prompt (A>) and reside inside CP/M itself. These commands are: DIR, USER, REN, ERA, SAVE, and TYPE. If you

type any command, CP/M will check to see if it is an internal command. Only if it is not an internal command it will check the logged disk drive for a file of that name to run. The following is a description of how they are used.

**DIR:** This command produces a directory, or listing, of files on a disk or tape. DIR can be used in a number of ways:

- DIR <R> - lists the files on the logged (selected) drive.
- DIR B: <R> - lists the files on drive B:
- DIR \*.COM <R> - lists all files on logged drive with 'COM' file type.
- DIR WS.\* <R> - lists all files whose primary name is WS.

(Note: An asterisk \* is a wild card character that stands for any group of characters. A question mark ? is a wild card character that stands for individual characters. A <R> represents pressing the ENTER key.)

**ERA or DEL:** ERA is a CP/M command for "erase." DEL is the equivalent command for TDOS and stands for "delete." These commands are extremely powerful and should only be used with care! They may be used in the following ways:

- ERA REDEYE.TXT <R> - erases a file on the logged drive called "REDEYE.TXT."
- ERA \*.COM <R> - erases all files on the logged drive ending with "COM."
- ERA \*.\* <R> - will erase all files on the logged drive.
- ERA b:READ.ME <R> - will erase a file named "READ.ME" on drive B

(Note: TDOS does not use ERA, it uses DEL to erase files. DEL is the same as ERA, only the name has been changed. CP/M and TDOS do not care if commands or file names are typed in UPPER CASE or lower case. It will convert them to upper case before processing. The "logged" drive is the drive in use as shown by the prompt.)

**REN:** is used to rename files. Its usage is very simple:

- REN NEWNAME.TXT=OLDNAME.TXT <R> - for standard CP/M 2.2.
- REN OLDNAME.TXT NEWNAME.TXT <R> - for modified CP/Ms and TDOS.

The old name is replaced by the new name. The file itself is not copied or changed.

**SAVE:** Is used to save a machine language image in memory to disk or tape. This is useful after using DDT to change a program. The results of the change are stored with SAVE. It's syntax is complicated by some math. SAVE needs to know how long a segment of memory is that you want to save. Saving too much is seldom a disaster, but your file will be longer than needed and consume more space. Saving too small of a segment will result in a program missing some of its code- that is a disaster. There are a couple ways to calculate how much to save:

**Method 1:** the recommended way. When you load a program into DDT it will display two numbers, both in hexadecimal (base 16) notation. The first will tell you what the next available memory location is. If you don't add additional code to the program you can use that number. If you do than use the number of the last byte that you added. Convert the high order byte to a decimal number and use that number in the SAVE command. For example, if DDT gave you 12AD as your last memory location used you would take the high order byte, 12, and convert that to decimal, which is 18. You would use 18 in the save command.

**Method 2:** If you don't change the length of the program file you can simply take its length listed in the directory, multiply that number by 4, and use the result with save. This works because SAVE saves pages of memory, each page being 1/4 (256 bytes) of a block. This will work on the ADAM system because the size of blocks is 1 kilobyte, some CP/M systems use different size blocks and this method of calculation would not work. The most accurate method is the first one. The syntax for SAVE is:

SAVE n NEWFILE.COM <R>

The n stands for the decimal number of pages in memory you wish to save as the file NEWFILE.COM. If you put a disk drive designator before the name (like B:) SAVE will save the file on that drive.

**TYPE:** Is used to display files on the screen (console). Files can be printed if Control-P (^P) is pressed before the return key is pressed. A file being typed can be paused by pressing Control-S (^S). It may be restarted by pressing any other key. Type can be interrupted at any time by pressing Control-C (^C). If you have chosen to print a file you should press Control-P when you are finished to turn off the printing function, else everything you type will be sent to the printer. TYPE is designed to print character files only. Printing program files or overlay files may result in strange behavior. TYPE is used in this way:

TYPE FILENAME.TXT [ ^P ] <R>

(Note: Items inside square brackets are optional, the brackets are not typed as part of the command. The caret "^" is used to represent the control key. Control characters are typed by holding down the control key (like a shift key) and then typing the character, in this case P.)

**USER:** Is used to change user numbers. This command is used only on older CP/M systems. Newer or modified CP/Ms and TDOS change users the same way logged disks are changed. User numbers allow you to group files together and to keep directory listings more manageable. CP/M and TDOS both allow 16 user numbers (0-15)

To change from user area 0 (the normal user number) to user area 1 on drive A we type A1: <R>. The prompt will change from A0> to A1> to show the change. If you are using an original version of CP/M 2.2 from Coleco on your ADAM you would type:

USER 1 <R>

**Non-Standard Internal Commands:**

Some modified CP/Ms and TDOS provide other internal commands than the standard set. These may include: GO, COPY and LIST. Sometimes they have been installed into CP/M over another command that is no longer needed, such as USER. The following is a description of these commands and how they work.

**GO:** is a simple command for starting a file that is already in memory. Suppose you were running a program that ended by exiting to the prompt A0> and you wanted to run it again. On CP/M 2.2 you would have to type its name and wait for it to load. On other modified CP/Ms, GO executes a jump to 100h in memory, the starting address of all CP/M programs. If one is there it will run. Some resident COPY commands load the file being copied as if it would be run and then copy that image to the target disk. When the copying process is finished the program remains in memory and a simple GO command can then execute the program. The syntax for using GO is simply:

GO <R>

(Note: Not every program can be restarted with GO. Some programs modify memory locations in such a way that the code used for starting the program is over written or the program itself is moved in memory. Most often these programs protect against being restarted and you will get the prompt A0> in response to your GO command. At the worst the computer will do strange things or lock up and you will have to reboot your system.)

You can duplicate GO on an unmodified CP/M by using the SAVE command. Type the following:

SAVE 0 GO.COM <R>

This will create a file called GO.COM that will take up no space on your disk / tape. CP/M will load nothing into memory but will jump to 100h and restart anything that is there.

**LIST:** Sends a text file to the printer and to the screen. In TDOS both the TYPE and the LIST command also have an option. You can turn off paging and form feeds by typing an "n" after the command. To List a file called CPM.DOC you would type:

LIST CPM.DOC [N] <R>

**COPY:** Makes a copy of a file on another drive or user number or under another name on the same drive. To copy a file called DDT.COM you could do any of the following:

COPY DDT.COM = D: <R> - copies DDT.COM to drive d:  
 COPY DDT.COM = DDT2.COM <R> - copies DDT.COM to a new file called DDT2.COM  
 COPY DDT.\* = D: <R> - copies all files with a primary name of DDT to drive d:  
 COPY \*.COM = D: <R> - copies files ending with "COM" to drive D:  
 COPY \*.\* = D: <R> - copies all files to drive D:

You can use any of the wild card characters (\* or ?) with copy to copy more than one file at a time.

## CP/M Filenames

CP/M, TDOS, and MS-DOS filenames follow the same rules. Filenames have two parts, the primary file name and a file name extension (file type) separated by a period. The primary file name must not be longer than 8 characters. You may use Alphabetic (A-Z), numeric (0-9) and some special characters (-). You should not attempt to use any other character with CP/M as some programs will create the file with the special character but CP/M may refuse to recognize it and the file will be worthless. You may not use spaces in filenames, but you may use the underscore or hyphen to make the names more legible.

File name extensions (file types) describe what is in a file. Files ending with ".COM" are machine language program files. They are started by typing the name of the program without the extension and pressing <R>. For example you can run STAT.COM by typing:

STAT <R>

File name extensions have customary meanings and usage. Only the "COM" and the "\$\$\$" extensions have any meaning to CP/M. The "\$\$\$" extension normally signals a temporary file created by a program. Under normal conditions these temporary files are erased. Below is a list of common file types and their meanings.

<u>Extension</u>	<u>Type of file</u>
ASM	8080 assembly source code
BAK	backup file
BAS	BASIC source code file
COM	command file
DAT	data file
DBF	database file
DOC	documentation (information) file
HEX	intermediate assembler code file
LST	assembler listing
OVR	overlay file
PRN	assembler listing
REL	intermediate assembler code, relocatable
SUB	submit or batch file
TXT	text file
Z80	Z-80 assembly source code
\$\$\$	temporary file

You can invent your own file types or extensions to suit your own needs. In writing this article I chose to name the file for the first chapter CPMART.001. The second will be called CPMART.002, and so on. I can easily copy all of them to my work drive by typing: COPY CPMART.\*=d: One difficulty with this approach is that I can have only one file named CPMART.BAK. Whatever file I worked on would create a

new backup overwriting the old (my wordprocessor makes automatic backup files).

One last important point about filenames. In most cases CP/M will overwrite a file without letting you know. Always be sure you know what file name you want to use. Make use of DIR to check what files exist before you do anything that might erase, overwrite, or copy files you might want left alone.

## CP/M Transient (external) Commands

These commands are actually programs that reside on disk or tape. When you use them CP/M will look for them on the currently logged drive (TDOS will search the logged drive and the path). If the command file is found it will be loaded into memory and run. You must make sure that a copy of the command you want is on a disk or tape that is accessible to CP/M.

CP/M 2.2 comes with the following utilities or transient commands: PIP, STAT, LOAD, ASM, ED, DUMP, and DDT. These commands are standard among CP/M systems. Other utilities and commands are supplied as well but they have been specially written for the ADAM computer and can not run on another CP/M computer or under TDOS. These ADAM CP/M 2.2 specific utilities and commands will be covered in the next section.

**PIP:** is the Peripheral Interchange Program. PIP is much more than a copy program. It is capable of filtering a file, sending a file from one peripheral to another, and even adding one file to another (appending). To describe what PIP can do could take an article in itself. In a future installment we will discuss its various features and uses.

**STAT:** is a program for reporting and changing the current status of drives or files. The following are some of the uses for STAT:

Displaying status:

STAT <R> - displays free space on the current drive and if it is R/O (Read Only) or R/W (Read/Write).  
 STAT D: <R> - does the same for drive d:.  
 STAT FILENAME.EXT <R> - displays size of the file and its attributes (system, R/O, R/W or DIR (no attribute set).  
 STAT D:DSK: <R> - will display the drive characteristics of drive d:.  
 STAT DEV:[VAL:]USR: <R> - will display current logical device assignments, possible STAT commands and devices, and the user numbers that have files.

Changing status:

STAT a:=R/O <R> - set drive a: to Read Only.  
 STAT FILENAME.TXT \$R/O <R> - Set FILENAME.TXT to Read Only.  
 The R/O part of the command can be any of the attributes:DIR, R/O, R/W or SYS.

**ASM:** is an 8080 assembler. Its use is beyond the scope of this article. I recommend that you get a book on assembly language programming or try out the ADAMFILTER program in the back of your CP/M 2.2 manual. ASM requires that you prepare a text file with the source code to be assembled. It will generate a HEX and assembly listing files.

**LOAD:** is used to load the HEX file produced by ASM into a COM file. To use LOAD type:  
 LOAD HEXFILE <R>

LOAD will produce the file: HEXFILE.COM.

**DDT:** is the Dynamic Debugging Tool. DDT allows you to load machine language programs, modify them and test them. Modified programs can be saved and run. DDT allows you to set breakpoints, enter code, examine memory and registers in the CPU, do limited disassembly and



more. DDT is beyond the scope of the current article and requires one of its own in the future.

**ED:** Is a line editor useful for preparing programs. It is clumsy to work with. I recommend that you replace it with VDE (Video Display Editor), a public domain editor. For those who insist on using ED, you start the program this way:

```
ED TEST.ASM <R>
```

ED will open a file called TEST.ASM on the current logged drive. If the file does not exist, ED will create it. Any previously existing file by the same name is renamed with the BAK file type. You should be aware that ED can't edit a file over 13k running under the CP/M 2.2 system.

Each line is numbered in a range from 1 to 65535. You can go to or operate on any specific line by using its line number, then the command. Example: 100:T means go to line 100 and type it.

ED commands can also use ranges. In this example :100T means type from the current line to line 100, A specified range is done in this way: 50::100T This command tells ED to go to line 50 and type each line till it reaches line 100.

ED is a bit strange in that you must be concerned about memory buffers. To work on a file that exists you must bring it into the memory buffer with the A (Append) command. Insertion of text is done with the I (Insert) command. To end insert mode type ^Z (control Z). To end the ED session and save your work type E. To quit without saving changes type Q. To read in a file type R and the file name. ED has commands for Finding strings, Killing strings, Substituting strings and other functions.

**DUMP:** is a utility for dumping the contents of a file in hexadecimal to the screen. This is useful for examining the contents of a file. To use type:

```
DUMP FILENAME.EXT <R>
```

## ADAM Specific Utilities

These utilities will not run on TDOS or on any other CP/M system other than an ADAM computer. Some things can only be done by machine language commands that are specific for a particular computer. Don't attempt to run these on another CP/M computer or under TDOS, they will function unpredictably.

The ADAM specific transient commands provided with CP/M 2.2 are: FORMAT, ADAM, CPMADAM, BACKUP, COPY, CONFIG and SYSGEN.

**FORMAT:** Prepares a disk or tape to store information. FORMAT will not prepare a blank diskette nor will it turn an audio cassette into a digital cassette. Most CP/M format programs will record the format information onto a blank diskette. Your ADAM system expects to reformat an EOS disk or DDP with the information CP/M needs. FORMAT is simple to use, just type:

```
FORMAT <R>
```

FORMAT will load and ask what drive you wish to format with. You type in the drive letter (A-D) and return. When it is done, FORMAT will ask if you want to verify the media. If you type Y the newly formatted media will be read block by block. If a bad block is encountered you should try to reformat as the block may be a source of future problems.

**ADAM:** is a utility for copying an EOS file (normal ADAM word processing file or BASIC file) as a CP/M file. Remember that ADAM EOS file names can have lower case letters, unlike CP/M that only uses upper case. File names must be typed exactly. To use ADAM just type:

```
ADAM <R> and follow the directions on your computer screen.
```

(Note: Some files may have characters that are not ASCII. These files should be filtered with the ADAMFILTER program that is listed in the back of the ADAM CP/M 2.2 manual.)

**CPMADAM:** is the exact opposite of ADAM. This utility takes a CP/M file and copies it to an EOS file. The normal file type is A for ASCII. If you want the file as a word processing file you can type [H] immediately after the ADAM EOS file name. (The square brackets must also be typed.) To use CPMADAM type:

```
CPMADAM <R> and follow the directions on your computer screen.
```

**BACKUP:** Does what its name says, it makes a "backup" or an exact copy of a disk or tape. As a general rule you can't backup a tape to a disk as the disk has less storage capacity than the tape. BACKUP works by reading and writing to memory 48 blocks at a time. The blocks are then written to the target (backup) disk or tape. If you have only one drive you will switch the source disk/tape with the target disk/tape after each 48k read and write cycle until the whole disk or tape has been copied. To use BACKUP type:

```
BACKUP <R> and follow the instructions on the screen.
```

**COPY:** is a program for copying selected files from one disk/tape to another, or to the same disk/tape with another name. The following are examples of copying with COPY:

```
COPY FIRST.TXT b: <R> copies FIRST.TXT to drive b:
```

```
COPY FIRST.TXT SECOND.TXT <R> copies FIRST.TXT and gives it the name SECOND.TXT.
```

```
COPY *.* b: <R> copies all files to drive b:
```

**CONFIG:** is used to configure the various options in the CP/M 2.2 system. These options include: Cursor colors and shape, Smart Key return strings and colors, Character and background colors for regular and highlighted (high bit set), serial port settings, keyboard translations, I/O Byte settings and the initial Smart Key state. To use CONFIG type:

```
CONFIG <R>
```

The first thing you must do is load the tables from either a tape/disk or memory. Load from tape/disk to modify a special tape or disk. Load tables from memory to configure the CP/M system you are using. Remember to save the tables back to tape/disk when finished. Changes in the tables will take affect only after a cold boot.

**SYSGEN:** is used to copy the CP/M 2.2 system to the system tracks of a tape/disk so that the tape/disk can be used to boot the system. Before a tape/disk can be sysgened it must have been formatted using the CP/M FORMAT command. Sysgen will copy the system from a specified tape/disk and then copy it to one or more other tape/disks. To use SYSGEN type:

```
SYSGEN <R> and follow the instructions.
```

## CONSOLE CONTROLS

Certain key combinations have important functions in CP/M. The following is a listing of those contained in the CP/M documentation for ADAM CP/M 2.2. Some of these console controls are ADAM specific and will not work on other CP/M machines.

### ADAM and TDOS Specific Console Controls

<SHIFT> + <UNDO> pressed at the same time will toggle on/off the Smart Key display at the bottom of your screen.

^ <UP ARROW> will toggle on/off Alpha Lock. When on all alphabetic keys will give the uppercase of the key being pressed and shift will give the lower case. To return the keyboard to normal press ^ <UP ARROW> again.

^ <LEFT ARROW> will shift the screen "window" to the left.

^ <RIGHT ARROW> will shift the screen "window" to the right. Sometimes the display will freeze after this or the ^ <LEFT ARROW> command is given. Usually it will be restored after you touch any key. This can be a problem if the program you are running expects some form of information from the keyboard at the time you are scrolling the window.

### CP/M 2.2 Console Controls

^C has two functions within CP/M. The first and most important function is to reboot CP/M and reset the disk system. CP/M does not allow you to change disks without telling it that you have. ^C tells CP/M to reread the directories of the disks and to allow for a disk change. If you don't do this CP/M will most likely set your drive to Read Only in order to protect your disk. This does not always work and CP/M has written over files and directories when I changed disks without using ^C. Although annoying, this is a safety feature of CP/M.

The second function of ^C is to abort a program and reboot CP/M. This function does not always work as ^C can be used by the program for another function. Your last resort is to pull the reset switch on your ADAM. This can be destructive, especially if files are open on the disk. Pulling reset will prevent CP/M from closing the files and your disk directory may become corrupted as well.

^E forces a carriage return but does not send a command to CP/M.

^H will backspace the cursor. On ADAM computers the backspace is often configured to do the same function.

^J sends a line feed and ends input at the console.

^L <R> Clears the screen.

^M sends a carriage return.

^P will turn on an echo to the printer. What is typed on the console and what is displayed on the screen will be printed. Example: ^P DIR<R>. This will print a copy of the current drives directory. Turn off the print function by pressing ^P again. On some ADAM systems the PRINT key is configured to provide the same function.

^R Repeats current command line.

^S pauses a display on the screen. The screen can be restarted by pressing ^S again.

^U cancels the current line, cursor moves down to the next line for a new command.

^X deletes all characters in the command line.

^Z string or field separator.

### TDOS Console Controls:

Generally, TDOS console controls are the same as the ADAM CP/M controls with the following changes.

<SHIFT> + <TAB> functions as an Alpha lock key. All characters a-z will be changed to upper case and the shift key will have no further effect until <SHIFT> + <TAB> is retyped, restoring the normal keyboard functions.

<SHIFT> + <WILD CARD> will park the heads of any hard drive without the need of a parking program.

### TDOS Key Translations

In both CP/M and TDOS keyboard keys can be redefined. A number of the keys have been in TDOS to make the keyboard more friendly and easier to enter commands. The following are some examples:

<UP ARROW> when you are at the command prompt will retype the last command. You can keep pressing the up arrow to get the previous command until the command buffer is empty.

Most of the keys have been given WordStar like returns. In other words, the values they return would have meaning to WordStar and programs like it, such as Video Display Editor. These keys are:

<WILD CARD>	^ ^
<UNDO>	^ U
<MOVE/COPY>	^ B
<STORE/GET>	^ L
<HOME> + <UP ARROW>	^ R
<HOME> + <DOWN ARROW>	^ C
<HOME> + <LEFT ARROW>	^ A
<HOME> + <RIGHT ARROW>	^ F
<HOME>	^ Q
<CLEAR>	^ Y
<INSERT>	^ V
<PRINT>	^ P
<DELETE>	^ G

If you compare some of the return values to the list of CP/M controls above you will see what specialized keys in TDOS will produce control codes useful to you. For example, it is probably easier to remember the <PRINT> key than to remember to type ^P for printing.

### Backing Up Your Disks

By now you probably have run several CP/M programs. Don't forget to make a backup copy of all your program or data disks / tapes. To do this do the following:

**METHOD 1:** Use a block copy program to copy and verify each block to the new tape or disk. ADAM CP/M 2.2 users also have BACKUP.COM that will copy to the same or another drive. Disks and tapes used in BACKUP.COM must be formatted for CP/M first. (see step 4 under METHOD2).

**METHOD 2:** Use this if you are going from tape to disk or disk to tape, or different sized disk.

1. If you are using disks, format them with the Disk Manager in EOS (Regular ADAM mode).
2. Start your CP/M or TDOS system by inserting disk/tape and pulling reset on your ADAM.
3. Place your disk/tape containing your format program in your A drive, if it was not on your boot disk, then press ^C to reset the disk system.
4. Start the format program, FORMAT<R> in CP/M 2.2. Follow the directions on your screen to format disks and tapes for use with CP/M or TDOS. (REMEMBER to use TDOS's format program with TDOS.)
5. When finished formatting the disks, run SYSGEN in CP/M 2.2 to put the system on the newly formatted disks. If you are using TDOS you will have to use the TDOS installation program to accomplish this.
6. Use the COPY command to transfer files:  
COPY \*.\*=B: <R>

We have now covered most of the major parts of the CP/M and TDOS systems that you need to know in order to use the systems effectively. There is much more information that can be useful to you as your skill with CP/M increases. Next time we will discuss the internal structure of CP/M, its parts and how it uses memory.



# MICRO INNOVATIONS

12503 King's Lake Drive.  
 Reston, VA 22091  
 Voice/Fax: (703) 620-1372  
 BBS: (703) 264-3908

PRODUCT CATALOG: 6/1/91

The Micro innovations product line is continuously evolving. This year in January, they began shipping the ADAMnet-compatible floppy disk drives. Today their product line includes the Powermate Hard Disk Subsystems, the ADAMnet Floppy Disk Drives, and the M.I.B. 2 Serial / Parallel Interface. Products now in development include a new low cost, ADAMnet-compatible Powermate Hard Disk Drive, a new Eve-compatible dual RS-232 board, and a 1.44MB ADAMnet Floppy Disk Drive. Also, due to lack of interest, they have dropped the IBM-compatible Powermate XT and Powermate AT units from their product line.

## POWERMATE FLOPPY / HARD DISK SUBSYSTEMS

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, and a memory expander board port for the Coleco ADAM Computer.



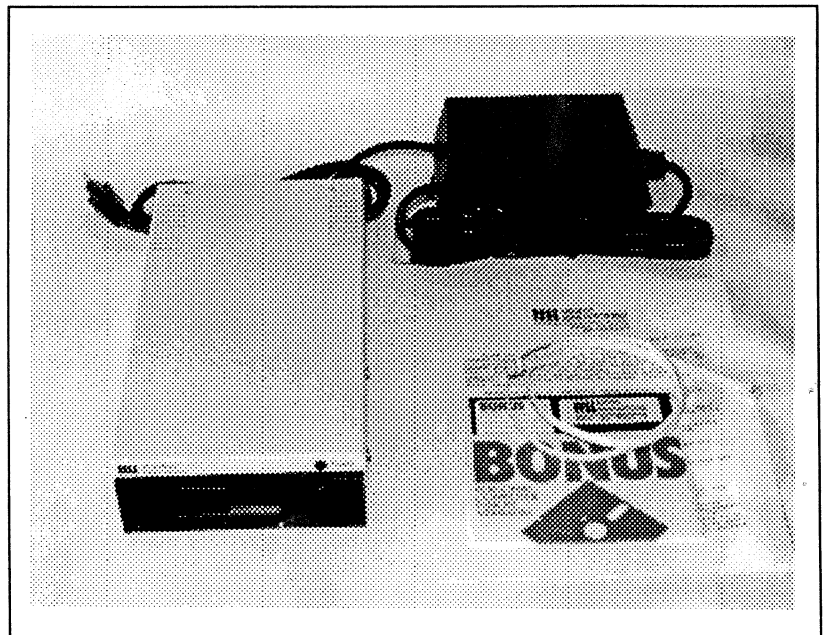
<b>BASE UNITS:</b>	<b>PRICE</b>
Powermate 10	\$399.00
Powermate 20	\$499.00
Powermate 40	\$599.00
<b>OPTIONS:</b>	
360K Floppy Disk Drive	\$100.00
720K Floppy Disk Drive	\$100.00
Second 10 MB Hard Drive	\$150.00
Second 20 MB Hard Drive	\$225.00
Second 40 MB Hard Drive	\$300.00
Peripheral cable (Serial or Parallel)	\$14.95

## ADAMnet FLOPPY DISK DRIVES

Stand-alone floppy disk drive 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. Other formats available are: 160K Single-Sided and 360K IBM format for the 5 1/4" drives and 720K Orphanware format for the 3 1/2" drives.

<b>PRODUCT</b>	<b>PRICE</b>
320 KB 5 1/4" Disk Drive Ubit	\$225.00
720 KB 3 1/2" Disk Drive Ubit	\$275.00
Extra EPROM (specify format)	\$10.00

**NOTE:** The custom EPROM chip setups are only available directly through Micro Innovations and not through N.I.A.D. If you want a special drive setup, please order directly through Micro Innovations.

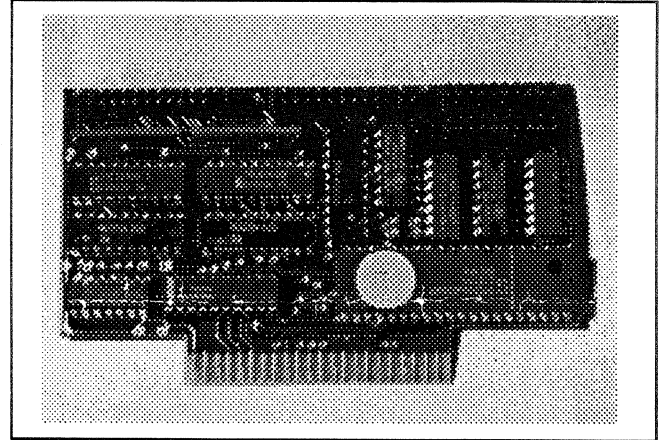


## MULTI-PURPOSE INTERFACE BOARD 2

Plug-in board that adds two RS-232 serial ports, a parallel printer port and a memory expander board bank switching port to the Coleco ADAM Computer. M.I.B. 2 I/O ports are compatible with Powermate I/O ports only.

<u>PRODUCT</u>	<u>PRICE</u>
M.I.B. 2 Interface Board	\$74.95
Peripheral Cable (Serial or Parallel)	\$14.95

**NOTES:** Peripheral cables for the Powermate and M.I.B. 2 serial and parallel ports are not included with those units. The disk cable is included with Powermate units. ADAMnet cables are supplied with the ADAMnet Floppy Disk Drives.



### OTHER INFORMATION

**Orders** - Orders may be placed through Micro innovations directly during normal business hours by talking directly with the proprietor, by leaving a message on the answering machine after hours, by leaving a message on the BBS, or by sending a fax. Micro Innovations accepts personal and company checks (please allow 10 working days to clear), money orders, and CODs. Micro Innovations products can also be purchased from one of several ADAM dealers, some of which also take credit cards.

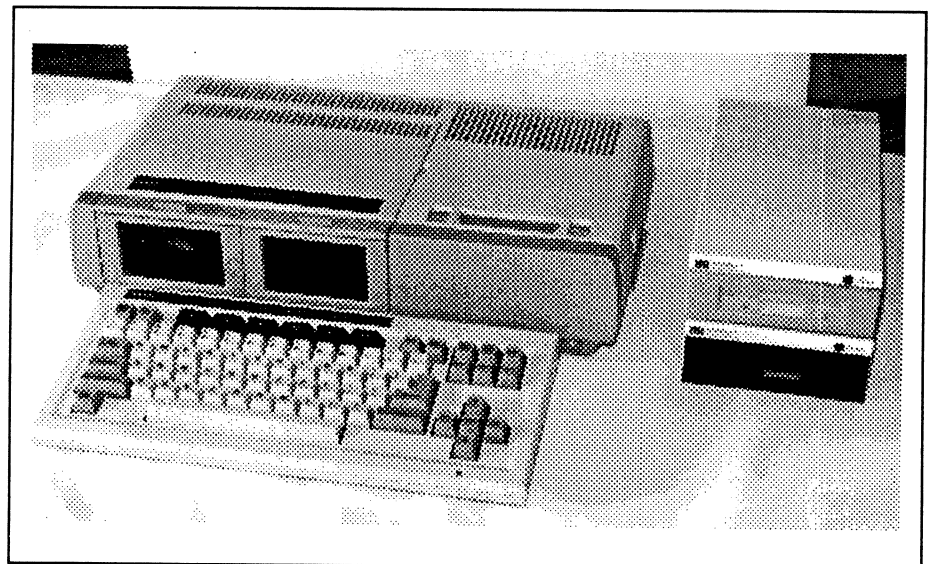
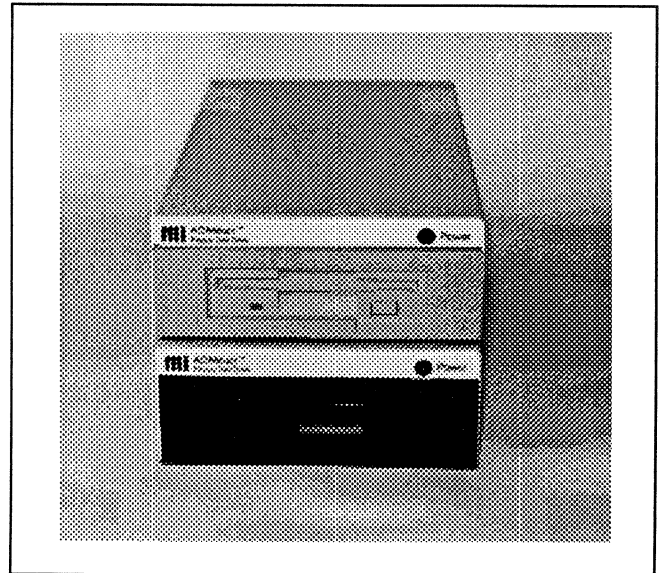
**Office Hours** - Normal office hours are 6:30 to 9:30 PM, Monday through Friday. A telephone answering machine will take messages at all other times.

**BBS** - Micro Innovations maintains a bulletin board system (BBS) to provide additional customer support. All current distribution software and documentation is available, as well as many public domain programs. The BBS is on line 6:30 PM to 6:30 AM, Monday through Friday during the week and 24 hours a day on weekends and on holidays. Please do not call the BBS telephone number during the week (Monday through Friday) between the hours of 8:00 AM and 5:00 PM. The BBS will not be up and the telephone line will be used for other purposes during that time.

**Fax machine** - Micro Innovations has installed a fax machine on the voice telephone line. It is available 24 hours a day, every day of the week. The fax is connected to a fax / telephone switch. The switch answers the voice line and waits several seconds for the sending party to put out a fax tone. If no fax tone is detected within the time limit, the switch rings the telephone. On the third ring, if no one has answered the telephone, the answering machine will come on to take a message. After the answering machine has finished (regardless of whether a message was left or not), the switch will reconnect the fax machine and have the fax machine send a tone to attempt to connect with another fax machine. This time, after an unsuccessful attempt to connect with another fax machine, the switch will hang up the line.

**Dealers** - Micro Innovations sells products directly and through dealers. The following currently carry Micro Innovations products: ADAM'S HOUSE, N.I.A.D., ADAMlink of UTAH, The ADAM CONNECTION and OSCAR'S COMPUTERS. Some of these dealers take credit cards in addition to checks, money orders and CODs.

**Pricing Notice** - The prices listed on these pages are suggested retail prices and may differ from vendor to vendor.





## ADAMCON 03 UPDATE

Final Updates from 3/23/91 & 4/20/91  
by Dean Roades - Convention Chairman



ADAMCON 03 is continuing to shape up. More ADAMites are sending in registrations and verbally committing to be there. I would like to recap the ADAM suppliers who are planning to attend.

Please bear in mind the date this was written. With distribution on the ADAM News Network, and the fact that many newsletters are published every other month, it could be some time before you read this. More suppliers and individuals are sure to have been added to the list.

Suppliers who have committed to attending:

- KOSOWSKY'S ADAM REPAIR - Phil Kosowsky
- S.M. VIDEO - Shon McCallum
- HEXACE SOFTWARE - Bruce & Lynda Walters
- ADAMZap SOFTWARE - Eric Danz
- N.I.A.D. - Lyle Marschand
- N.I.A.D. / ADAM SOFTWARE SUPPORT - Jim Notini
- ROADRUNNER PUBLICATIONS - Mel Ostler
- OSCAR'S COMPUTERS - Howard Pines
- O.A.U.C. - Norman Castro
- BONAFIDE SYSTEMS - Chris Braymen
- VULCAN'S COMPUTER MONTHLY - Faye Deere
- ADAM-LINK OF UTAH - Alan Neeley

Most of these suppliers will be displaying their wares in the ADAM STORE. Richard Clee of MTAG may also have a booth and represent some of the Canadian suppliers who are unable to attend. There is sure to be more by the time you read this.

## DOOR PRIZES

There will be fabulous Door Prizes given away at the Banquet. Suppliers, User Groups, and even some individuals are making generous donations.

Vulcan's Computer Monthly will supply enough copies of their magazine so that every delegate will get one, and they are donating a door prize.

St. Louis AUG is donating a 1 year membership and two Data Drives. Oscar's Computer is donating 2 free repairs.

Emerald Coast AUG, ADAM News Network, and 463 ADAM User Group are donating a 1 year membership or subscription. Others donating are:

Elliam Associates, HEXACE Software, ADAMZap Software, N.I.A.D., Practical Programs, R & R Software, ADAM Software Support, OAU, Roadrunner Publications, and Bonafide Systems. There will be more than can be imagined.

## PEOPLE

Pat Herrington said it best at AC02 in Toronto. ADAM is more than just a computer, it's PEOPLE. We could all replace our ADAM with a newer, more 'state of the art' computer, but we stay with ADAM because of the people. ADAMites are always ready and willing to talk about their latest challenges and triumphs. When someone finds something they can't do on their ADAM, someone else discovers a way to do it. The only reason ADAM is alive and well some 5 years after it was orphaned is people.

In addition to the suppliers listed above, many individuals have made plans to be in South Bend in August. Some have officially registered, some have even made plane reservations already, but all are looking forward to the convention. Here are some of these people:

Barry Wilson - Founder of the ADAM News Network. Pat Herrington - Graphics expert. Faye Deere - covering the convention for Vulcan's. CP/M will be well represented with Ron Collins, John Villio, James Poulin and Tom Keene of IEAUG. Telecommunications experts Bart Lynch, Herman Mason, George Koczwarra will be on hand and Alan Neeley will be there if possible. Dale and Neal Wick plan to bring their graphics design program (Dale says there are many improvements). Richard Clee, one of the organizers of AC02, plans to camp near the convention with Bob Slopsema, Mel Ostler, and perhaps others. St. Louis AUG expects to have 4 or more members attend. David Cogley of VISA in Vancouver will be there. From the other end of the continent, Herman Cherney of AAAUG (Albany, NY) has registered. Jock Gairdner from California has made his plans.

There are many more, but you get the idea. People from all over are getting ready. From Vancouver and California to New York, Florida to Toronto, no distance is too great for some. I did receive a note from one group who said they could not attend. Keith Marner of U.K.A.S. sent his regrets (he lives in Croydon, England, so it's understandable, I guess.)

## NOVICE ADAMITES

There are many ADAMites who are working with their ADAM the way it came out of the box. ADAMCON 03 is making a special effort to present information that will help EVERYONE get more use out of ADAM. There will be experts in every field of ADAM in attendance. There is no better place to get the answers you need.

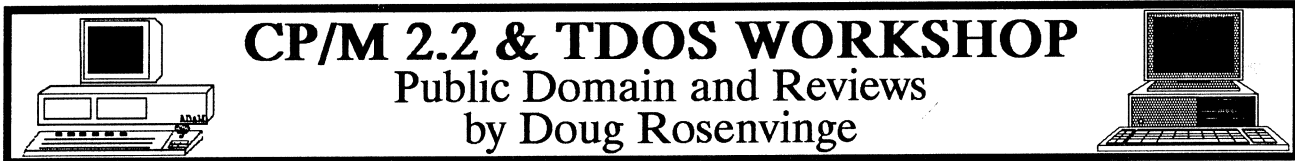
When I attended ADAMCON 01 in Orlando, Florida, I was a bit tentative. I knew very few people, I was not an 'expert' in any field (I am still no expert), but I wanted to learn more about ADAM. Alan Neeley sort of took me under his wing and introduced me to many people. ADAMites are all wonderful. After talking with them for 5 minutes, you feel like you've known them all your life. I made some very close friendships at AC01, and more at AC02. The PEOPLE are the reason I am active in the ADAM community today.

## WRAP-UP

If you are interested in getting more out of your ADAM, attend ADAMCON 03. There will be something for everyone. BASIC, Utilities, Computer Graphics, Telecommunications (BBS), Word Processing, Repair, Maintenance, Starting User Groups, Software demonstrations, Product demo's. If you are interested in a field not listed here, write and tell me what you want to see. Several people have said they are working on projects to unveil at the convention. One such project, ADAM Survival Guide, from Barry Wilson and the ADAM News Network, will be released in South Bend.

South Bend is centrally located and is easy to get to by plane, rail, or car. If you cannot make it to the entire convention, come for the weekend. There will be a lot going on all day Saturday and Sunday.

I hope to see you at ADAMCON 03. Dean Roades - Convention Chairman, 8522 Hohman Ave., Munster, IN 46321, (219) 836-8646.



### In this issue:

- MISC. UTILITIES, N.I.A.D. CP/M P.D. Disk CNDV-58
- THE HANDY SYSTEM, N.I.A.D. CP/M P.D. Disk CNDV-59
- Coming series of articles on CP/M and TDOS

## N.I.A.D. P.D. CNDV VOL. 58

This is a "mixed bag" of games and utilities. I like to put similar types of utilities and programs together, but have not found enough of them to warrant individual disks. This disk contains two programmer's utilities, two games, a WordStar utility, a multi-key sort utility and a list / small database manager. (I have also included NULU and UNCR to remove files from libraries and to uncrunch them.)



**AN12.LBR:** Is a WordStar utility designed to make sure that the ^PA (Alternate pitch or printer setting) and ^PN (Normal printer pitch or printer setting) commands are paired.

**FORM7.LBR:** Is a programmer's tool for formatting source files. It was written by Irv Hoff to place colons after labels in source code files. It can also: remove colons from all labels, change all source code to lower case, remove tabs, move comments to column 32 or 40 or reformat source code for 32 or 40 columns. Two other options allow code to be formatted for M80 assemblers or for 8086 assemblers. There is a good documentation file as well.

**KLIST16.LBR:** Is "KWIKLIST", a list small / database manager. This is version 1.6 by Sam Bellotto, Jr. This is a demonstration package for a "Shareware" program. Registered copies (fully functional) and documentation cost \$25 from the author. Kwiklist is a menu driven program that is designed to manage listings. It will output data to disk, screen or printer; sorting that ignores "A", "The" and "An"; sorts on any field; record editing, deleting and undeleting; multiple and individual searches, and compatibility with most word processors. Since this is a demonstration package some of the most powerful commands have been disabled as an inducement for you to register with the author. Records are limited to 79 characters total length. The included documentation is good enough to get you started.

**PACMAN95.\*:** Yes its true, pacman for your ADAM. This version has been modified to run on your ADAM using TDOS. A basic problem exists with this program. The playing field is wider than your screen so you will have to use ^ left and right arrows to shift the screen window. This makes it very difficult to play. Maybe those of you who have 80 column screens will enjoy it.

**Q.LBR:** Q is a strange little program to show you how CP/M processes command tails and arguments. You type Q followed by a phony command tail (Q PHONY <R>) and Q will dump the page of memory where the tail was processed/parsed by CP/M.

**QUATRIS2.LBR:** Is TETRIS for your ADAM. Yes, you too can have funny shaped blocks fall from the sky that you have to fit into lines so they will collapse. Fail to collapse them all and your playing area fills up till there is no more room and the game ends. Addictive fun.

**SORTMK22.LBR:** Is a multi-key sort utility. It is a "shareware" product from Skunk Creek Computing Services. It must run on a Z-80 computer

like the ADAM. It will sort ASCII files up to about 20k in length. You can have up to nine sort keys with each key being specified as ascending or descending. It is restartable with the GO command and can have parameters (commands) placed in a file for easy use. Cost for registration is \$24.95 + \$3 shipping and handling.

## N.I.A.D. P.D. CNDV VOL. 59

If you are looking for a personal time / office management software then this disk might just be what you are looking for. This whole disk is devoted to HANDY version 2.01. HANDY is public domain and exists in a source version for CBASIC and in a ready to run version. This volume contains the ready to run version.



**HANDY features** nine menu driven modules. Each module displays a command line at the bottom of the screen. Handy requires only one disk and assumes that all files are on the program disk. Handy will purge old data from the files automatically. The main functions include:

- ☛ **Personal appointment calendar.** The calendar displays days in one half hour increments of appointments for normal office hours. Unfortunately for those who have later or earlier appointments this feature of Handy can't be changed.
- ☛ **Personal TO DO LIST** for displaying non-scheduled tasks and activities.
- ☛ **Reminder List** for important days and events to remember on a monthly basis.
- ☛ **Planning Calendar** for displaying and scheduling large blocks of time.
- ☛ **Quarterly Calendar** for displaying monthly calendars for a specified quarter of a year.
- ☛ **Action Planning Notebook** for displaying and maintaining future activity records by categories.
- ☛ **Notebook/Logbook** for maintaining and displaying miscellaneous notes, or records by category.
- ☛ **Phone book** for special phone numbers.
- ☛ **Decision maker** to help make logical decisions.

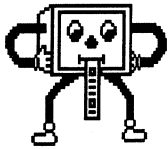
What is really neat about the HANDY system is that it fits on one regular ADAM disk, along with all of its data files. The obvious limitation is that you *could* run out of disk space, but I think that is unlikely to happen for most users.

### Running HANDY:

1. Backup your disk from NIAD before doing anything else!
2. Boot CP/M or TDOS, insert the HANDY disk/tape and log onto that drive.
3. Type HANDYSYS <R>

4. HANDY will load and ask you to enter the date. After you do it will display a message that will verify the date and the day of the week. If you answer Yes HANDY will then do several things before you are given the main menu. It will test the logged disk for two files, APPOINTS.DAT and DOTHINGS.DAT. If they are not there HANDY will create them. If they exist, HANDY will purge the outdated information, but, it will give you an opportunity to print it first. After this housekeeping is complete HANDY will display the main menu.

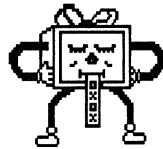
5. Pick the function you want to use, type the number followed by a <RETURN> and follow the prompts.



**Documentation** is very good. Examples are given for using the modules HANDY provides. There is also discussion concerning Terminal controls (Screen commands), data file structures and error handling. HANDY is set up for the ADAM computer so terminal installation will not be required.

**Limitations:** HANDY is designed for the single individual, not team management. Entries have to be short in order to fit on ADAM's screen. Some applications can't send information to the printer. (However, HANDY data files are standard data files that can be read by BASIC, WordStar and other editors that have a Non-document (pure ASCII) mode.) The appointment calendar times are set up for a regular work day and can't be changed. (This is HANDY's greatest weakness, some professionals have night-time appointments and meetings.)

**The Bottom Line:** This is a fantastic program. I have used it for a short time now and have not found any bugs or flaws and it works beautifully. If you have need of any of these functions, this disk is for you. I would rate this an A+.



## New series of articles

A number of readers have written asking for information on CP/M and TDOS. In an effort to meet this need I am writing a series of articles that will give the new user background information on both of these operating systems, including their commands, file usage, program structure, and descriptions of many of the differences between TDOS, CP/M 2.2 and modified versions of CP/M.



## From the Mailbag

Some of you have written / called to ask questions or just to introduce yourself. I have enjoyed meeting you, reading your letters and helping where I could. This is part of the fun of being a part of the ADAM community. If you send any questions that require a return reply, please don't forget to enclose a Self Addressed Stamped Envelope. My address is:



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

## Last Minute Notice

Volume 57 (A & B) in the CNDV Library contains not only a database program (FILEBASE), but it also contains the start of a massive listing of all the CNDV Public Domain volumes which are supplied by N.I.A.D. Since we don't have a current printed listing, this is recommended.

## **ADAMCON 03 UPDATE** (continued from page 12)

Things are really rolling. I look forward to going to the mailbox each day because there are usually new registrations. ADAM suppliers are working feverishly on new software and hardware to unveil. Plans are falling into place and people are preparing information for the workshops at AC03.

This month, I want to address the people I refer to as "BASE ADAMites". They are known by many names, NewBees, novices, beginners, but they all have one thing in common - ADAM. They use their ADAM the way it came out of the box, maybe adding a second tape drive or a disk drive. They enjoy ADAM for all the things it can do for them.

## Dear BASE ADAMites,

If there is any way you can get to South Bend in August for the convention, GO! ADAMCON 03 is geared for the novice ADAM user. It will be the BEST place to get answers to your questions, solutions to your problems, and give you a unique opportunity - buy ADAM software, hardware and supplies off the shelf!

We have assembled an excellent cross section of ADAM vendors who will display their wares. Ribbons, data packs, printer wheels. All the basic supplies you need will be right in front of you.

We are also fortunate to have the best minds in the ADAM world making plans to be there. I honestly don't think there is any question about ADAM that can't be answered by these people. They are the people whose articles you have been reading in your favorite newsletter.

The best part of the first two conventions was the people. When I attended ADAMCON 01 I was a little apprehensive. After all, I was basically a novice with no special skills in any particular area of ADAM. When I arrived, I immediately felt comfortable. I met people for the first time and soon felt like I had known them all my life. Everyone was eager to help and willing to spend the time to answer my many questions. ADAMites are more eager to talk about ADAM than a grandparent about their grandchildren.

The point I am trying to make is that we would like to see you at the convention. You may not know anyone when you arrive, but you will when you leave. Set the time aside now and make plans to attend. We are looking forward to meeting you.

## PUBLICITY

On the next page is a poster (not included in this newsletter) the 463 ADAM group has been putting up in stores, libraries, and just about anywhere we think a lonely ADAMite may see it. Make a few copies and put them up in your area. Add your name and address if you want. It will show those lonely ADAMites that there are others in their area.

Another thing you can do to help ADAMCON 03 and ADAM in general. Place an ad in the classified section of your local newspaper. I just talked to Ron Leibert of Elkhart, IN. He called to get more information on the convention. He said he placed an ad and brought 4 new people into the world of ADAM. As Jerry Vrancks said "if everyone brought one more person into the ADAM community, we would double our size." There must be thousands of people out there who still have their ADAM, but don't know about the extensive support available. If you enjoy using your ADAM, take a few minutes and do something that will help keep ADAM thriving for many more years, place an ad, put up a poster, find someone new. The larger our group, the more hardware and software that will be developed.




# PUBLIC DOMAIN WORKSHOP

## Updates & Reviews by Jim Notini

### ADAMCALC ANDV VOL. #8

- WORKSHEET - A tutorial with a ready to use spreadsheet formula.
- WORKSHEETa - A tutorial with a ready to use spreadsheet formula.
- HELPSCREEN - Lists contents of HELP screens exactly as they appear if "?" is pressed.
- BLANKSHEET - A blank spreadsheet for Worksheet.
- CARCATCH - ADAMCALC can be adapted to solve problems of velocity, time and distance. This includes cars, trains, planes and ships. This spreadsheet is all ready to perform these tasks and more.
- GENLEDGER - A general ledger spreadsheet formula that is all ready to be used for data input.
- BLANKLEDGR - A blank ledger spreadsheet for General Ledger.
- GOLDALLOY - Determine how much of gold alloy of 6% to mix with gold alloy of 3% to get a 5% mixture.
- AREASVOL - Input the figures you want to be calculated for about 25 formulas including areas of pyramids, cones, spheres and polygons.
- FAHRCENT - Convert between Fahrenheit and Celcius and visa versa.
- INDEXa - Brief descriptions and instructions on how to use some of the files contained on this volume in ADAMCALC.
- AREASVOLa - About 20 more interesting and odd formulas which are used to calculate seconds in a free fall, your weight 100 miles off the Earth, distance to the horizon before the curvature of the Earth intervenes, etc.
- FORNEXTb - A revised version of For-Next A from an earlier ADAMCALC volume.
- NiadANDV-8 - Brief descriptions and instructions on the usage of the files contained on this volume.

### ADAMCALC ANDV VOL. #9 & VOL. #10

I, Nick Lukach, found the ADAMCALC manual quite difficult to follow. The main reason was that information about a subject was scattered all over the ADAMCALC manual. The result of this scattering was that there were things that I missed about a subject, no matter how I studied. So I decided to try to organize subjects in a way that all the references were in one chapter. I found that having all the information about one element, say PRINT, together in one place made it easier for me.



The subjects are in alphabetical order. I did not include all the segments. The ones that I included were those that had 2 or more pages to refer to in the ADAMCALC manual. What I covered for my own use was:

Blank, Cell reference, copy, delete, edit cell, format, hold/release, mistakes, move about, names, print, recal, search, sort, store/get,

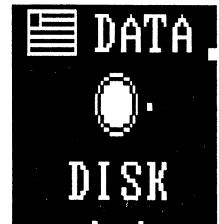
width/columns and windows.

I put the page numbers for each item so that I could go back to the ADAMCALC manual for complete details and to see the programs illustrations and examples. I added a program shortcut for printing out these tutorials at 54 rows per page with 2 columns of text, each 35 spaces wide.

I could have included a short chapter on the MODEL SPREADSHEET. However, except for a few reference in the first 4 lessons the MODEL

SPREADSHEETS are all in one area of the ADAMCALC manual; so I find they are not difficult to access and study. I made this consolidation of the ADAMCALC manual for my own use and or study purposes. But maybe some other members may find it handy in their attempt to learn ADAMCALC more easily and to use it more efficiently. And it may encourage them just to use ADAMCALC more and more.

In some cases, I used almost all the 255 rows for a program. It came to 4 pages of print. To understand ADAMCALC better, I have put INDEXED dividers in the ADAMCALC manual. There are 10 of them with the names printed down the tabs. Lesson 1... and ending with INDEX. I set up index tabs in the loose leaf binder that I set up for the manual consolidation. The tabs there are headed BLANK... CELL REFERENCES... COPY and so on up to WINDOWS.



I find that put in INDEXED DIVIDERS makes the ADAMCALC manual manner more user friendly.

### ADAMCALC ANDV VOL. #11

This course is set up in such a way that you can follow the design of the spreadsheet step by step, entry by entry, key by key. I have tried to include every detail so that you can follow exactly along the step by step set up or you can do it yourself and then compare your spreadsheet with mine.

There are 6 lessons and 6 spreadsheets:

- BUDGETa - Developed using NUMERICAL CELL reference.
- LESSONa - Gives the step by step preparation of BUDGETa.
- BUDGETb - Developed using ALPHABETICAL and NUMERICAL cell references.
- LESSONb - Gives the step by step preparation of BUDGETb.
- BUDGETc - A blank budget using ALPHABETICAL and NUMERICAL cell references.
- LESSONc - Gives the step by step preparation of BUDGETc.
- BUDGETd - A budget using ALPHABETICAL and NUMERICAL cell reference and ENTER DOWN.
- LESSOND - Gives the step by step preparation of BUDGETd.
- BUDGETe - A budget using NAMES as cell references.
- LESSONE - Gives the step by step preparation of BUDGETe.
- BUDGETf - Prepared using AUTOMATIC RELATIVE CELL REFERENCES.
- LESSONf - Gives the step by step preparation of BUDGETf.

The lessons have many references to the page in the ADAMCALC manual where a particular command or other ADAMCALC routine is explained. Hope you enjoy this volume and it makes using ADAMCALC a whole lot simpler.





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## ADAM INTERNATIONAL MEDIA

The ADAM INTERNATIONAL MEDIA is published ten times each year. The newsletter content is devoted to articles on the ADAM Computer and Colecovision Game Systems, reviews of new games, software, hardware for those systems, and a variety of columns. We began publishing newsletters in 1984 as a club known as gHAAUG in Houston. Each year a book of these newsletters is compiled for purchase at the same rate as our yearly subscription fee. Previous year books or extended year subscriptions earn bonus volumes from our ADAM PROGRAM LIBRARY when ordered at our special rates:

- 1 Year - \$20 (USA), \$22 (Canada), \$32 (Foreign)
- 2 Year - \$36 (USA), \$40 (Canada)
- 3 Year - \$50 (USA), \$56 (Canada)
- Sample Newsletter - \$3.00

A two year subscription earns you 1 bonus datapack or 2 disks from our program library. A three year term earns you 3 datapacks or 5 disks. Your subscription begins in the current quarter unless you specify different. Texans pay 6.75% State Tax. Also, Now buy SAMMY LIGHTFOOT CARTRIDGE for only \$5 when you subscribe to AIM.

# N.I.A.D. PRODUCT LIST

PRODUCTS & PRICING SUBJECT TO CHANGE WITHOUT NOTICE

## ADAM HARDWARE

- **160K 5 1/4" DISK DRIVE EPROM** ..... \$17.95  
Greatly reduces disk formatting time along with fixing some bugs in the original disk drive eprom for Single-Sided drives. User must install.
- **320K 5 1/4" DISK DRIVE EPROM** ..... \$17.95  
For use with older Double-Sided drive conversions by Eve Electronics. Reduces read / write time of most operations. User must install.
- **ADAM COMPUTER SYSTEM** ..... \$239.95  
Complete reconditioned or new ADAM Computer System with Printer, includes all components, accessories and software which was originally sold by Coleco (1 piece Memory Console). 90 day warranty. Price includes Shipping & Handling!!
- **ADAM COMPUTER SYSTEM EXP. MOD. #3** ..... \$209.95  
ADAM and Colecovision Game System attaches together to make a complete ADAM Computer System (2 piece Memory Console). Includes all components, accessories and software which was originally sold by Coleco. 90 day warranty. Price includes Shipping & Handling!!
- **ADAM DIGITAL DATA DRIVE** ..... \$59.95  
Replacement or second digital data drive for the ADAM Computer. Great to own to speed up the backup process and also as a convenience to eliminate the need for swapping data packs constantly.
- **ADAM DISK DRIVE POWER SUPPLY** ..... \$14.95  
New, more reliable power supply transformer for ADAM Disk Drive (5 1/4" or 3 1/2").
- **ADAM KEYBOARD** ..... \$24.95  
New keyboard for the ADAM, great to have as a spare or for replacement of defective keyboard. Comes with a 2 foot coiled cable.
- **ADAM MONITOR CABLE** ..... \$9.95  
Allows attachment of a Composite Monitor, Monitor ready T.V., or RGB (with composite jacks) to the ADAM Memory Console providing both audio and video. Monitor must have separate RCA Audio and RCA Video input jacks. **NOTE:** Note available for the ADAM Expansion Module #3 Unit that attaches to the Colecovision.
- **ADAM PRINTER POWER SUPPLY** ..... \$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 and stored for future use.
- **ADAM PRINTER POWER SUPPLY COVER with LIGHT** ..... \$14.95  
Protect your ADAM Printer Power Supply from dust, dirt and accidents with this cover and power on / off light. Instructions for hookup included.
- **ADAM TAN HAND CONTROLLER** ..... \$5.95  
New Coleco Hand Controller with 12-button numeric keypad and two fire-buttons.
- **ADAMNET CABLE** ..... \$2.95  
Flat, 7 foot cable for use with either the ADAM Keyboard or ADAM Disk Drive.
- **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 built-in to software. Can be supplied with SmartCLOCK Chip attached inside (see listing below). Call for the latest product availability and pricing on this item before ordering.
- **DYNAMITE SOUND DIGIT. 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. Two week shipping delay when ordering this product. Call for the latest product availability and pricing on this item before ordering.
- **MEGACOPY TAPE MAKER TYPE III (Disk or DDP)** ..... CALL  
Hardware device with software which allows for the creation of ADAM compatible data packs using the ADAM itself and two Digital Data Drives. Capable of producing over 12 different formats. Comes with Data Drive speed testing software built-in.
- **MIDI-MITE INTERFACE (Disk or DDP)** ..... \$74.95  
Allows your ADAM to communicate with MIDI compatible synthesizers. It has one MIDI-IN, one MIDI THRU and two MIDI OUT jacks. Included are two MIDI cables for connection to your synthesizers and a ribbon cable for connection to the ADAM side port. Advanced software included. VideoTunes by FutureVision is recommended.
- **SmartCLOCK CHIP (Disk or DDP)** ..... \$44.95  
Plugs into U8 socket on ADAM Logic Board in Memory Console. Tracks hundreds of seconds, minutes, hours, days, day of the week, month, year, 12 / 24 hour modes, leap year correction. Call for the latest product availability and pricing on this item before ordering.

## MEMORY EXPANDERS

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

- **256K MEGARAM MEMORY EXPANDER** ..... \$114.95  
Expandable memory board which will hold up to 1 MEGabyte of memory (1,024K)! Comes with 256K of memory installed and 3 open rows of sockets for upgrade with the 256K SIPs. Requires a Parallel Printer Interface or Addressor Card listed below to operate fully, without one, the MegaRAM will operate as a 64K Memory Expander.
- **256K MegaRAM SIP MODULE** ..... \$44.95  
256K Memory Modules used to expand the MegaRAM Memory Expander. Add 3 256K SIPs to obtain a full 1 MEG (1,024K) of memory, just add 1 to boost the MegaRAM to 512K or 2 to boost the MegaRAM to 768K!
- **ADDRESSOR CARD** ..... \$19.95  
Installs in Slot #2 and required for full use of MegaRAM Memory Expander if you don't have or purchase a Parallel Printer Interface to address MegaRAM too.

## PRINTERS & INTERFACES

- **PANASONIC KX-P1180i DOT MATRIX PRINTER** ..... \$199.95  
(with ADAM Printer Interface & Cable (Disk or DDP)) ..... \$239.95  
9 pin dot matrix printer with 2K buffer and parallel connector. Draft speed 192 CPS, Near Letter Quality speed 38 CPS. Many built-in print styles: compressed, elite, pica and size adjustable. Bottom / Rear paper feed. One ribbon enclosed. Two year limited warranty. Provides best compatibility with ADAM programs.
- **PANASONIC KX-P1123i DOT MATRIX PRINTER** ..... \$269.95  
(with ADAM Printer Interface & Cable (Disk or DDP)) ..... \$309.95  
Identical to KX-P1180i but 24-pin with faster draft speed 240 CPS and Near Letter Quality 63 CPS. Includes a Front paper feed. One ribbon. Two year limited warranty.
- **PANASONIC KX-P1124i DOT MATRIX PRINTER** ..... \$309.95  
(with ADAM Printer Interface & Cable (Disk or DDP)) ..... \$349.95  
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 as well as Addressor connection for 256K or larger Memory Expanders. Requires Parallel Printer Cable or Shielded Parallel Printer Cable.
- **MULTI-PURPOSE INTERFACE BOARD 2 (Disk or DDP)** ..... \$74.95  
Provides two RS-232 Serial Ports and 1 Parallel Port along with Addressor Connection for 256K or larger Memory Expanders. Includes patch software for dot matrix printer and specially configured telecommunications software for non-standard serial ports along with the most current version of TDOS. Serial & Parallel cables sold separately.
- **PARALLEL PRINTER CABLE** ..... \$14.95  
Cable which attaches between Parallel Interface and Dot Matrix Printer for either the M.I.B. 2 (6 foot) or E&T Parallel Interface (3 foot).
- **SHIELDED PARALLEL PRINTER CABLE** ..... \$19.95  
6 foot shielded cable which provides for extra shielding from interference.
- **RS-232 SERIAL CABLE** ..... \$14.95  
6 foot cable which attaches between M.I.B.2 and Serial hardware device.

## MONITORS & MODEMS

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

## M.I. ADAMnet DISK DRIVES

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

- 5 1/4" 320K M.I. ADAMnet FLOPPY DISK DRIVE ..... \$219.95
- 3 1/2" 720K M.I. ADAMnet FLOPPY DISK DRIVE ..... \$269.95

## PowerMATE HARD DRIVES

### POWERMATE HARD DRIVE SYSTEMS & ACCESSORIES:

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

#### BASE UNITS:

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

#### OPTIONS:

- 5 1/4" 320K 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

## N.I.A.D. SERVICES

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

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

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

### DATA PACK CONVERSION TO DISK FORMAT ..... \$4.00

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

### SmartFILER UPGRADE TO VERSION 27D ..... \$4.00

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

### INFOCOM CONVERSION TO ADAM CP/M FORMAT ..... \$4.00

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

## EXPANSION MODULES

### EXPANSION MODULE #1 ATARI 2600 ADAPTER ..... \$44.95

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

### EXPANSION MODULE #2 DRIVING CONTROLLER ..... \$44.95

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

### ROLLER CONTROLLER ..... \$44.95

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

### SUPER ACTION CONTROLLERS ..... \$49.95

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

## MANUALS & BOOKS

### ACCESSING VRAM ..... \$12.95

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

### BASIC BASIC PROGRAMS FOR THE ADAM ..... \$8.25

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

### FROM BASICS TO BASIC ..... \$14.95

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

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

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

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

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

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

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

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

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

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

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

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

### MacADAM MANUAL ..... \$19.95

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

### MacADAM DEMO FILES (Disk or DDP) ..... \$5.00

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

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

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

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

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

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

## MISC. PRODUCTS

### ADAMCON 01 VIDEO HIGHLIGHTS (VHS Tape) ..... \$14.95

### ADAM PRINTER RIBBON (DIABLO HYTYPE I FILM) ..... \$5.95

### ADAM PRINT WHEEL ..... \$6.55

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

### ADAM PRINTER DUST COVER ..... \$8.95

### ADAM KEYBOARD DUST COVER ..... \$8.95

### ADAM COMPLETE MEMORY CONSOLE DUST COVER ..... \$8.95

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

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

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

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

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

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

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

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

## DISKS & DATA PACKS

### 256K NIAD ECONOMY ADAM DIGITAL DATA PACK ..... \$2.00

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

### 256K RIGHT DIRECTORY ADAM DIGITAL DATA PACK ..... \$1.00

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

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

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

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

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

## N.I.A.D. BACKISSUES

### N.I.A.D. NEWSLETTER BACKISSUES ..... \$5.00

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### 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.

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ADAMWARS II	\$13.95
ADDICTUS	\$17.95
AFL FOOTBALL	\$14.95
BEYOND TREK (64K)	\$15.95
BIBLE JEOPARDY	\$14.95
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BLOCKADE RUNNER	\$15.95
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DIABLO	\$15.95
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ELECTRONIC GAME PACK II	\$17.95
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MR. T SEARCH	\$12.95
MR. T SEARCH: GAMEPAK I	\$9.95
MR. T SEARCH: TRIVIAPAK I	\$7.95
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PHRASE PAK I for Phrase Craze	\$9.95
PHRASE PAK II for Phrase Craze	\$9.95
PITY	\$18.95
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PRO GOLF CHAMP	\$14.95
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REEDY ENTERTAINMENT PACK	\$13.95
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SMARTBASIC BONANZA	\$14.95
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STAGE FRIGHT	\$13.95
STATES RACE	\$15.95
STOCK MARKET GAME	\$15.95
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SUPER PARROT	\$12.95
SUPER ZAXXON (DDP)	\$9.95
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**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 (DDP)	\$9.95
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EASY AS A,B,C, & 1,2,3	\$11.95
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EXPERTYPE (DDP)	\$9.95
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SCHOOL DAZE	\$16.95
WORLD CAPITAL (DDP)	\$9.95

**MEDIA UTILITIES**

ADAM CONNECTION (IBM DISK)	\$24.95
ADAM'S DESK TOP (CART)	\$39.95
ADAM'S DESK TOP (D/DP)	\$29.95
ADAMCALC PATCH	\$9.95
ADAMLINK II PATCH	\$9.95
AUTOBACKUP (64K)	\$17.95
BACKUP 3.0 (DISK)	\$10.95
COPYCART+ V2.0 (DISK)	\$19.95
COPX	\$10.00
DISK DOCTOR	\$9.95
FILE MANAGER V2.0	\$17.95
FORMATTER II (DISK)	\$12.95
INTEL-LOAD V1.0	\$12.95
LIBRARIAN	\$19.95
MEGADISK 1.0 (64K)	\$19.95
N.I.A.D. GOLD: UTILITIES	\$9.95
OPENFILER V3.0 with OPENRECIPE	\$14.95
RAMBOOT (64K)	\$19.95
SMARTDSK I for SmartWRITER (64K)	\$18.95
SMARTDSK II for DEVICE #2 (64K)	\$16.95
SMARTDSK III for SmartBASIC (64K)	\$24.95
SMARTMATE CART (PowerMATE)	\$39.95
SMARTWRITER'S HELPER	\$10.00
SWIFTDISK (64K)	\$12.95
TURBODISK 1.0 (64K)	\$18.95
XRAMPAK I (64K)	\$14.95

**HOME / BUSINESS**

ADAMCALC (DDP)	\$29.95
BUSINESS PACK I V2.0	\$18.95
EASY COME, EASY GO (DDP)	\$19.95
INVOICER III (64K)	\$19.95
MISSPELLER for SpellingAIDE	\$18.95

N.I.A.D. GOLD: HOME & BUSINESS	\$9.95
SHOWOFF II: WRITERMATE (64K)	\$14.95
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
AUTOAID	\$24.95
AUTOWRITER	\$14.95
BASICAID V2.0	\$9.95
BORDERSPLUS for PrintWORKS	\$12.95
CLIP-ART VIEWER	\$24.95
E.O.S. FILE INDEXER	\$9.95
ELECTR. FLASHCARD MAKER (DDP)	\$9.95
FLASH FACTS: HISTORY (DDP)	\$6.95
FLASH FACTS: VOCABULATOR (DDP)	\$6.95
FONTPOWER	\$14.95
INTEL-BEST 3.3	\$18.95
LABEL MAKER DELUXE (DISK)	\$9.95
LABELWORKS, THE	\$24.95
MASTERING MUSIC	\$9.95
MR. T LIBRARY	\$10.95
MUSICPRO	\$15.95
PERSONAL CALENDAR UTILITY (64K)	\$19.95
PRINTWORKS, THE	\$27.95
RECIPER FILER (DDP)	\$9.95
SMARTBASIC CART (V1.0 versions)	\$39.95
SMARTLETTERS & FORMS (DDP)	\$9.95
SMARTLOGO (DDP)	\$15.95
SMARTTERM V1.02	\$15.95
SPRITEMASTER	\$18.95
SPRITEPOWER	\$15.95
SUPERBASIC PLUS	\$9.95
SWIFT'S LABEL PRINTSHOP (64K)	\$19.95
VIDEOTUNES	\$21.95
VISI-SPRITE V6.5	\$22.95

**GRAPHIC DESIGN**

CLIP-ART VOL. I & II	\$12.95
CLIPPER	\$15.95
COLECO GRAPHICS PROC. (CART)	\$39.95
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
POWERPAINT (64K)	\$29.95
POWERPRINTS VOL. I	\$11.95
POWERTOOLS	\$15.95
SHOWOFF I	\$18.95
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 - 36: 36 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 the 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 ANDV # 1 - 17: 17 different volumes containing ADAMCALC spreadsheet formulas, tutorials and demonstrations. All volumes require the user to boot ADAMCALC first and contain SmartWRITER or ADAMCALC documentation file(s). CPM/M 2.2 GNDV # 1 - 58: 58 different volumes containing CPM 2.2 utilities, games, interpreters, patches, compilers, word processors and other misc. programs. Volumes require the user boot CPM 2.2 first, most programs contain documentation. CPD SIGNS SNVD # 1 - 2: 2 different volumes containing Signs/POP/NewsMAKER graphic files for use with these programs by Strategic Software. Volumes require the user boot Signs/POP/NewsMAKER first and contain SmartWRITER documentation. PINBALL GAMES PNDV # 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. VIDEOGAMES SONGS VNDV # 1 - 3: 3 different volumes containing many assorted song files each that are for use with VideoTunes by FutureVision. Each volume requires the user to boot VideoTunes, then load the song file. MIDMI SONGS MNDV # 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 Coleco-creation cartridge Front Line. Program is auto-booting and runs through two very detailed demo screens of the supergame with sound. CMD BACKSSUE INDEX: SmartFILER database detailing the contents of past NAD Newsletters through 1987. Requires that the user boot SmartFILER first and then follow the SmartFILER instruction manual in order to load the database. DUJAYS MINI-REVIEWS VOL #1-2: 2 different SmartFILER databases with multi-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. 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

FILE PICS VOL # 1 - 4: 4 different volumes of FILE picture files which can be viewed in SmartBASIC V1.0 with the included CBJCFAST program or in PowerPAINT. Also contains SmartWRITER documentation. BREWERY 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. CN & B PIX VOL # 1 - 29: 29 different volumes of 13 SmartPAINT format files to be viewed / edited in PowerPAINT, ShowOff, etc. PAINTMASTERS VOL # 1 - 13: 13 different volumes of 13 SmartPAINT format picture files for use with PowerPAINT, SpritePOWER and CLIPPER by Digital Express. The Print Works or The Label Works by Mathers Software Co., and other assorted programs. PAINTFORMS VOL # 1 - 4: 4 different volumes of assorted letterheads, labels form files 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 carts through the use of the cartridge version of The Coleco Graphics Processor.

ENTERTAINMENT VOLUMES

SUPER 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 pack contains two great games in one package. New bug free version w/ 2 demo pinball games and an instruction sheet. Add \$2.00 for 40 page manual. SUPER SUB-HOC: Coleco supergame pack version of the Sub-Hoc cartridge. This is a tremendous 3-D arcade action game with great graphics and a Hall of Fame option as well as an instruction sheet. TROLL'S TALE: Coleco supergame pack originally developed by Silus Software. This is a children's adventure game with good graphics and offers a strong challenge as well as an instruction sheet. JEPARDY: Coleco supergame pack of the popular television game show. Fabulous game with great graphics, multi-player ability, load / save games and a Hall of Fame option as well as an instruction sheet. CABPAGE PATCH KIDS: ADV. IN THE PARK: Enhanced version of the popular ColecoVision cartridge of the same name, but with better graphics and added obstacles to be avoided by the game(s). TEMPLE OF AFSHAI Revision 2: Epyr supergame pack which was never released. This is a role playing adventure with graphics and some arcade sequences. DYKES ON YOU / MATH WIZ: Carts 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. CA-CHESS (SARGON): Great graphic chess game which was developed in CPM and modified by Chris Beyrman. Comes on an auto-booting media and includes documentation on how to use. DS SCHEEN 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. CHESS 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, KNIGHTS TAOR, and documentation in program. COLOSSAL CAVE: Enormous text adventure program. TO THE TIME OF INCOGNITO text adventures known as ZORK. Includes TDOS V4.58. SUPER 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 NAZ forces? THE BEST OF B.C.: A two supergame pack with B.C.'S QUEST FOR TREES and B.C. II: GROGS REVENGE developed by Coleco of Canada. Help Thor past obstacles to find Cure Chick and to find the Meaning of Life. DMOJANG PHRASE PAK: An additional 300 phrases for use with Phrase Craze by Reedy Software. Compiled by George Drank. Contains SmartWRITER documentation. THE ABOMINABLE SNOWMAN: Search the Great White North for the illusive Abominable Snowman. Be careful in your quest, there are many pitfalls that you will face. Contains SmartWRITER documentation. CLASSIC UNRELEASED CARTS: A collection of 8 cartridges: Fall Guy, Video Hustler, M.A.S.H., Super Cobra, Memory Manor, Word Feud, Artillery Duel and Tomcat the Barbarian. Contains SmartWRITER documentation.

UTILITY VOLUMES

EOS DISK MANAGER: Coleco utility program which was supplied with the 5 1/4" 180K Disk Drive. Also, contains the most current Coleco EOS Revision, Rev. 7. DSEPED 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 contained on an auto-booting media. Memory expander program for some of the system testers. Also, includes Adam Diagnostic and an instruction sheet. MACADAM: Z80 / EOS Assembler, written in machine code for the intermediate to advanced machine code programmer. Contains manual in SmartWRITER format. STRATEGIC SOFTWARE PATCHES: SmartBASIC V1.0 programs for patching Strategic Software's Signs/OP, NewsMAKER, MultiWRITE, MicroWORKS, etc. programs for use with dot matrix printers as well as major enhancements made to the MultiWrite Word Processor. Contains SmartWRITER documentation. COLECO GAME COPP: Coleco In-house cartridge copy utility as well as a media backup utility rolled into one program. Will copy most of the available cartridges. SHAPPEAKER: 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 MATR: 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/Trois, ADAM and Music demos. MIDMI 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 fine. Contains SmartWRITER documentation. CR.LD. TEST: Coleco's own In-house utility designed specifically for testing the operation of the 5 1/4" 180K Coleco made disk drive. No technical knowledge required, just boot-up and wait for the results. 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. TAX PLANNER: Coleco of Canada, business software which will create a clearer and more complete picture of your tax situation. Contains SmartWRITER docs. CIVIS-SPRITE V6.0: Advanced sprite development package with many powerful built-in features. This is the crippled version of the copyrighted version 6.5 and is made available for demo purposes and a chance to test out before buying V6.5. DAVINCI: 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 Graphics/PAINTER files. Contains SmartWRITER documentation. DISK ONLY. CX-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. TDOS V4.58: Super enhanced version of CPM 2.2 which operates much like MS-DOS. Adds many new features. On 1 - Data Pack \$6.00 and \$2.00 for 30 page manual OR on 2 - 5 1/4" Disks \$8.00 with manual in Doc file. SMARTBASIC V1.0: Coleco's original SmartBASIC which came with the ADAM. This is available for replacement on DDP / DISK and has been enhanced for disk owners. SMARTBASIC V2.0: Coleco's extended / enhanced version of SmartBASIC V1.0 (48K 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 STDWEM or EXTWEM 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 a MARKETEY 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 CPM: Coleco's In-house version which evolved into CPM 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. DSF-1 CUSTOM PRINTER SOFTWARE: Specialized software patches for use in SmartWRITER. Used to imbed software commands. Available for the following printers: Panasonic 1080 / 81 / 92 / 93, Star G10 / G20, Epson FX / RX, Blue Chip, Olympia R80, Brother 2024, Smith Corona Faxtext 80 / D2000, OK 182 / 182. DBASE8B STATISTICS: Comprehensive stat compiler for pinching, bathing and team statistics with full line of edit features, save option, print features for ADAM Printer or dot matrix by Wizard's Lab. Comprehensive instructions in SmartWRITER. PAINT PALETTE: For use with PowerPAINT. Will provide you with over 200 different shades of color, where normally the total number of colors accessible is 18. Contains SmartWRITER documentation. SMARTBASIC CONSTRUCTION KIT: Designed to aid the novice programmer better understand the many commands resident in SmartBASIC V1.0. Fully menu driven and auto-booting. Contains SmartWRITER documentation. DAWGONE DAMGS: This program will, on a consistent basis, select the dog most likely to win at the local dog track through data that is inputted by the user. However, this is not a get-rich-quick scheme. Contains SmartWRITER documentation.

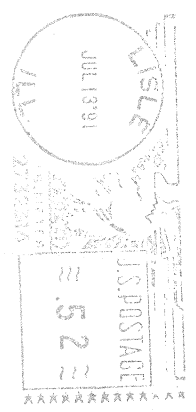


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" For GOD so loved the World that he gave his one and only SON, that whoever believes in him shall not perish, but have eternal life. For GOD did not send his SON to condemn the World, but to save the World through him. " . . . John 3:16



N.I.A.D. NEWSLETTER FOR —————>

Member # ----X0292sp1t912075  
Steve Pitman  
3705 Church St.  
Cincinnati, OH 45244 \*

ADDRESS CORRECTION REQUESTED

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