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Autumn is a beautiful time of year. Continuing our study of Romans chapter 5..

12Therefore as sin came into the world through one man and death through sin, and so death spread to all men because all men sinned - 13sin indeed was in the world before the law was given, but sin is not counted where there is no law.

14Yet death reigned from Adam to Moses, even over those whose sins were not like the transgressions of Adam, who was a type of the one who was to come.

15But the free gift is not like the trespass. For if many died through one man's trespass, much more have the grace of God and the free gift in the grace of that one man Jesus Christ abounded for many. 16And the free gift is not like the effect of that one man's sin. For the judgment following one trespass brought condemnation. but the free gift following many trespasses brings justification. 17If, because of one man's trespass, death reigned through that one man, much more will those who receive the abundance of grace and the free gift of righteousness reign in life through the one man Jesus Christ. 19Then as one man's trespass led to condemnation for all men, so one man's act of righteousness leads to acquittal and life for all men. 19For as by one man's disobedience many were made sinners, so by one man's obedience many will be made righteous. 20Law came in, to increase the trespass; but where sin increased, grace abounded all the more, 21so that, as sin reigned in death, grace also might reign through righteousness to eternal life through Jesus Christ our Lord.

In these verses, Paul is contrasting the effect of Adam's disobedience and Jesus' obedience. Adam and Eve's disobedience led to their spiritual death and banishment from their perfect life in the Garden of Eden. They had sinned by not obeying God's instructions and the result of this sin was the introduction of a sinful nature in mankind, instead of the Godlike nature that was originally given to man. This sinful nature eventually resluted in physical death for man. You

see, God had given Adam and Eve perfect physical bodies that would have never died had they not sinned. Remember from Genesis, that God gave Adam and Eve the right to eat from the Tree of Life. but instead they chose to eat from the one tree God told them not to. In fact, God sent angels to quard the entrance to the Garden of Eden so Adam and Eve could not return and eat of the Tree of Life. There is much debate about God's reaction to Adam and Eve's sin. Some say that if God is so loving, why didn't he forgive their sin right on the spot. The counter is that Adam and Eve did not seek forgiveness, but instead tried to cover up their sin - Adam blamed Eve and Eve blamed the serpent. Neither would admit their sin and ask for God's forgiveness. This is pride at work, which has led to many a mans downfall. Paul goes on to explain that once God gave the Ten Commandments to man through Moses. man's individual sins were held against him. God established the Ten Commandments to give a basis for judging man's action i.e. if we don't know the rules, how can we be held accountable for our actions. Once this occured, man had no excuse for not knowing when he sinned. The next step in God's plan was to send his Son to give us the example of how man could be in complete obedience to God (in contrast to Adam's example of disobedience). Furthurmore, through Jesus' act of obedience, even to the point of death on the cross for crimes he did not commit, our sins were forgiven by God's grace. What a wonderful gift and expression of how much God loves us. There are many places in the Bible in which God reveals his love for his sinful children by stating that all of heaven rejoices when just one repents and asks his forgiveness. Hard to believe, but it is true. God is anxiously waiting for all his "lost sheep" to come home, and just like the parable of the prodigal son (Luke 15:11), he will throw a party when they do. God bless you all.

NIAD NEWS/ UPDATES

I don't know about your area, but around here the leaves are turning and falling fast. For the extremely hot summer we had, Fall has come on quick and cool. We were down in the 30's last night!

Well, Christmas time is approaching quickly and we need to plan ahead to be ready for it. Make sure you don't wait until the last minute to place your orders! There are a number of new programs coming out for the ADAM and alot is going on in general.

This month we have some interesting articles that you will hopefully find educational, another "back to school" program, reviews of FILEWRITER, BUSINESS PACK/ SOFTPACK V 2, RAM DISK 256K, NIAD GOLD HOME & BUSINESS, an ADAM Z80 instructional book and a hardware device called the "gender changer". Also we have a patch for the Okimate 20 printer to print SIGNSHOP pictures/ files and thanks to J. Lingrel a patch that allows ADAMCALC spreadsheets to be printed on a dot matrix printer.

EXCITING NEWS is that a number of Activision titles are being released in ADAM ddp/disk formats! Yes, included are some never released titles including BOULDERDASH, ALCAZAR, and ROCK 'N BOLT. We will have complete reviews on these new games in our next issue. I have seen BOULDERDASH already and it rivals SPYHUNTER as the best game done for the ADAM. The color graphics are dazzling. Wayne and I can not figure how they achieved the multitude of simultaneous color activities on the same screen ! This game was named "arcade game of the year" when it was first released for other systems. Additionally, a number of other Activision cartridge titles are being re-released in ADAM tape/disk format -PITFALL and PITFALL II, RIVER RAID, BEAMRIDER, KEYSTONE KAPERS, HERO, DECATHALON, ZENJI and SKIING. This is great news for all of us

ADAM IS ALIVE AND WELL

. ANNOUNCEMENTS

- Several of you called or wrote regarding problems with the program "Fractal Landscape" published in our July/ August 87 issue. The program is error free as printed, but due to its size many of you have made entry errors. The most common errors are in the DATA statements - all these numbers must be double checked. Additionally, the lower case letter "1" looks alike like the number one (1) - see what I mean. Lines 180, 250 and 330 have both "1's" and "1's" which many have interpreted as all "1's". Here is

line 180 using upper case "L's" to indicate which is which. This same expression in lines 250 and 330 should be "L's" not ones "1's": 180 d= (d1+d2)/2+RND(1)*L/2-L/4: ax=xe: ay=ye: GOSUB 420

- Please note that now that our store is open you may call in to place orders or for general information (technical call ins are still taken on Tuesday evenings between 7-10 PM Chicago time). The store is closed on Sundays and Mondays, open Tuesday Wednesday 11AM 6PM, Thursday Friday 11AM 7PM and Saturday 9AM 5PM.
- We continue to expand our Public Domain library. Beginning with SMARTBasic volume #BNDV21, all our Basic volumes are self-booting and contain a menu program for running each program. This approach will make the Basic PD much easier to use for novice ADAMites.
- There have been some additions and changes to our Public Domain librarians. We offer a PD exchange program. The procedure is that you submit a PD program to the specified libarian on a tape or disk along with a self addressed and STAMPED mailer. In return for the program you submit (assuming it is not a duplicate of one we already have and that it works) the librarian will copy all the programs from a volume of your choice onto your tape or disk. Rules are that you must exchange like programs e.g. send a Basic program to get a Basic PD volume, CP/M for CP/M, etc.. Additionally, the program you submit should have a documentation file on the tape or disk providing instructions if the program warrants it. Our PD volumes contain over 2000 of the best non-commercial programs available for the ADAM. If you don't have a program to exchange, you may purchase a specific PD volume for \$5.00 on disk/ \$7.00 on disk.

Here is the current list of PD librarians by type of program:

SMARTBASIC >>>>>>>>> L. Marschand
UTILITIES 6460 College Rd
CP/M 2.2 Lisle, Il 60532

PINBALL GAMES

ADAMCALC >>>>>>> Greg Van Valkenburg

701 Pond View Rd Audubon. PA 19403

SMARTLOGO >>>>>>>> Andrew Heckert

60 W. Wyneva St Phila, PA 19144

SIGNS >>>>>>>> Mike Decker

(Use w/ SIGNSHOP pgm) United Methodist Church

P.O. Box 368

Fredericktown, MO 63645

RLE Graphics Pics >>>>>> Lee Smith

Box 159

Terre Hill, PA 17581

VIDEOTUNES Songs >>>>>> John Silva (Use w/ VIDEOTUNES pgm 69 Sycamore St

ALL LIBRARIES FOR CANADIAN MEMBERS

New Bedford, MA 02740 Sharon McFarlane P.O. Box 186, Etobicoke Post Office, Etobicoke Ontario, CAN M9C 4V3

- We are planning to offer ADAM educational courses here at the store. There will be three courses offered: Introduction to the ADAM; ADAM SMARTWriter and ADAM SMARTBasic. Each course will be two hours in length, include lecture, demonstration, questions/ answers and a book you can keep for a cost of \$25. Please send in your course payment, indicate which class(es) you want to attend and your first/ second choice for what evening of the week you can attend so we can begin scheduling the dates.
- Chicago local chapter meetings are held the second Thursday of each month, here at the new store. The next meeting will be November 12th at 7:30. The September meeting was well attended and we all had alot of fun and learned something as well. If you need directions please call. If you want a reminder sent the week of the meeting please write and ask to be put on our special local meeting mailing list.
- I'd like to publish a complete list of all ADAM User Groups in the US, Canada and other countries. I want to include ALL groups, large and small because these groups are so vital to us ADAM owners for support and service. A newsletter can help a user to a degree, but not as well as someone explaining a problem face to face and showing the solution. So, please send in the names and addresses of ALL User Groups.
- BBS's are also vital as a support for the ADAM. We published a list in our 9/86 issue that is out of date. We have published new ADAM BBS' as we have heard of them, but would like to publish a complete list. Please send in the name, phone number, hours and any other pertinent info such as parameters, etc. for all the ADAM BBS' you know of.

. HARDWARE

- Disk drives are still going strong and we have plenty available. Note that all of our drives have undergone extensive pre-testing by us and are guaranteed for 90 days. New drives are \$225 each or two for \$399.95.
- ADAMLink modems are also readily available and are on sale for \$49.95. The ADAMLink modem is an inexpensive way to communicate to other computers and expand the usefulness of your ADAM see this months and previous TELECOMMUNICATIONS workshops for details.
- Many of you have asked about purchasing USED ADAM components. We have a small supply of the following for sale with a 30 day guarantee:
- . STANDALONE ADAM MEMORY CONSOLE (NO TAPE DRIVE)

- \$79.95
- . ADAM PRINTER \$79.95
- . ADAM DISK DRIVE \$179.95
- . KEYBOARD \$9.95
- . HAND CONTROLLERS \$5.00
- We're running a special on the 64K memory expander and Walter's Basic Ram Disk software: both for only \$59.95. With these two products you will have a 64K internal memory RAM disk accessible from either SMARTBasic v 1.0 or 2.0 (specify which one). This is an inexpensive way to add a speedy way to store and retrieve Basic programs AND reduce wear and tear on your tape and disk drives. See our software review in the Dec 86 issue.
- Prices have dropped on our dot matrix printers. Cost of a Panasonic 1080i printer, ADAM interface and cable is now only \$249.95!! If you want high speed printing and graphics from your ADAM, now is the time!
- We're now carrying Magnavox color monitors that are compatible with the ADAM as well as all other computers. You will need to also purchase an ADAM monitor cable to attach the monitor to your standalone ADAM memory console using the "Aux Video" jack on the back of the unit. (NOTE: If you have the ADAM Expansion Module #3 that attaches to the Colecovision unit there is no jack to attach a monitor you will need to purchase the Expansion Mod Monitor kit and have it installed in the Colecovision unit.

. SOFTWARE

- See our reviews in this issue of new products.
- As mentioned above, several Activision game titles are being released in tape/disk form for the ADAM. We will have reviews of the new titles next month.
- We have added some new cartridges to our Product List - GORF and NOVA BLAST. These are older titles, but good arcade games like these have staying power.
- We will run a special through Christmas:
 PAINTMASTER and either PAINTINGS Volume 1, 2, or 3
 for only \$27.95. PAINTMASTER is a long standing
 product for the ADAM, offering high resolution
 color graphics drawing and design. PAINTINGS is a
 series of 3 different volumes containing original
 designs done in PAINTMASTER that you can modify or
 use as quidelines to make your own. See our review
 of PAINTMASTER in the 2/86 NIAD issue. This is a
 great value and shows off the ADAM's great high
 resolution color graphics.
- Most of the third party software developers for the ADAM are feverishly working to get some new products out by Christmas - more next month.
- Dale Metcalf, a very talented programmer and author of some of our most sophisticated Public Domain software (Crolons Adventure, Football, Mr.

Mumak) is busy developing several products. VRAMER is a very comprehensive color graphics program providing drawing, saving/ retrieving pictures, etc. VRAMER supports all Basic graphic modes - GR, HGR, HGR2. Dale is working on a technique to bring in graphics screens from the 64K to create animation! Dale also has completed a fast copy utility program and a comprehensive ram memory test program.

- Alan Neely is a long time ADAMite and head of ADAM-LINK of Utah, a User Group which publishes a fine newsletter every 2 months (write to 2337 South 600 East, Salt Lake City, UT 84106; cost is \$15 per year). Alan also has a 24 hour ADAM BBS online at (801) 484-5114. Alan has just completed a significant modification to a BBS system called C-NET V 3.1. This BBS is tailored for the ADAM. written in SMARTBasic and requires 2 disk drives and 1 tape drive. This BBS was originally written by D. Threat, but has undergone extensive modification by Alan. We will be working with it over the next month and may finally get our NIAD BBS before Christmas! Alan is selling the BBS system as Freeware for \$20. You may also purchase an autoanswer hardware device (allows one to leave the BBS unattended at night) from Alan for \$15.

. ITEMS OF INTEREST

- The Chatanooga BBS system is now using the OPUS BBS software and linking up with other BBS', like Tony's Corner. This BBS program allows you to send a message to a person on a totally different BBS. Call them up to try it. The BBS us up 24 Hrs. Use default parameters for ADAMLink and use "N-8-1" for MADAM7 (CP/M).
- Congratulations to Patricia Herrington on her Metro Orlando ADAM UG newsletter. I received the September issue and even though I had to pay .17 postage due, I was impressed! The group also has monthly meetings at the Orlando Public Library. Contact Patricia at 1003 Oak Lane, Apoka, FL 32703.
- I've been a member of NIAD for awhile and have found it to be the best accessory investment to my ADAM. I'm looking forward to future issues and hope to visit CompuKingdom soon.

Something that I would like to see in future issues is an interview with the wizards at Strategic Software. How about it? These guys are truly the saviors of our orphaned computer. Not only do we have a professional paint and sign printing program, but now an excellent spell checker! How many owners do you think would have given up ADAM for dead if not for these and other programs?

Also, I would like to share the following experience dealing with my year-old Atari 520ST computer.

Recently I blew a power supply powering my CPU. This was a big problem because I had written a first draft of a novel on it and wished to continue working on it, time being very important. Well I did what all computer users would do. I called my dealer who did not have any power supplies in stock. Then I called Atari Customer Service based in California, was I in for a shock! Gone are the coleco days of 800 numbers, I was put on hold for 20 minutes long distance! When I finally got through, I was told that the only way to buy a new power supply was through Atari, and that it would take 5 weeks! For a company that has survived the computer wars of the early eighties, this is customer service?

When I had problems with my two ADAMS it never took more than 5 days to get an item fixed or replaced through area Honeywells. Coleco bent over backwards in helping the majority of its customers, I remember speaking to ADAM personnel for hours on the phone about software and hardware. I can't think of any other company, besides big blue, that has a better service system then Coleco.

I guess I'm spoiled, and I wish Coleco would have stuck with ADAM for at least another year. They had laid out all the perfect ground work for a user friendly computer. All ADAM owners thinking about buying another computer better be prepared. It ain't like it used to be.

Now that I've had my say about ADAM and NIAD, keep up the great work! Also, I love the new picture files now available. I hope you add more.

I also enclosed a S.A.S.E. for the solution to 2010: text adventure, mentioned awhile back. I've given up tring to solve this game, and hope to save what's left of my hair with your solution.

To the future of personal computing! >John Bonavita

>>EDITOR: Thanks for the letter John. I'm sure that many computer owners share your views. Coleco had a great opportunity that they blew. The fact that the ADAM is still alive and well at this point is evidence of its staying power! We'll see if we can get an interview with one of the developers at Startegic.

- Brigadoon, a small Scottish town appears for one day each 100 years and then disappears for another 100 years. This town was first revealed in a Rogers and Hammerstein muscial by the same name. The day started in June 1985 and Brigadoon was run in the same tradition that was presented in the musical, up today, gone tomorrow.

More and more requests came to put it up for it's first all night session. Since that time we have

first all night session. Since that time we have changed software that allows for the growth we're in the middle of. With 3284 ADAM blocks of transfer space, Brigadoon surpasses. Anything ever presented to the ADAM users, at cost that puts

Brigadoon in direct competition with CompuServe. We're a free system, run on voluntary contributions to the system. We're an open acess system, which runs at night, after dinner and about the time you're ready to sit down and log onto casual conservation, with just enough 'tech talk' to keep things comfortable. Call the Brigadoon BBS at (206) 723-5631, 8PM to 8AM Pacific time, 3/1200 baud. (Provided by Bart Lynch).

- Don Zimmerman provides the following:

Formatting ADAM disks. As a person who NEVER formats a disk without verifying the format I find this most useful. If you are fortunate enough to have access to an IBM clone you can format an ADAM disk on the clone and use it on ADAM. You will need the clone program MEDIA MASTER. This is a program that allows the clone to read and write to different disk formats. Boot MEDIA MASTER and select the TRS-80 IV (SSDD) format. Place the unformatted disk in drive B: and hit return. It will format and VERIFY the disk in 28 seconds. EDITOR's NOTE: You can also use an IBM compatible to quickly copy an ADAM formatted disk on to a blank, unformatted disk. The DOS "diskcopy" command will read and ADAM formatted disk and write it to a blank disk. The clone's drives can be purchased for around \$80 so why worry about the wear and tear on them. Save your ADAM drive for reading and writing. It will last much longer.

Turn the main power switch off and back on if you are having strange problems that pulling the reset switch will not cure. More than once I have seen where pulling the reset switch would not re-load the system correctly. This would generally happen after a program really "bombs" out. I suspect that some part of ADAMs EOS RAM memory section was accidentally overwritten so badly that only a complete cold boot will properly reset ADAM. Pulling the reset button will properly reboot the system in 99% of the cases but I have had times when it would not. It has happened in SMARTBASIC, machine language auto-boot programs, rarely in SMARTWRITER, and most often in CP/M. This suggestion holds true for all computers and not just for ADAM.

As a person who had one ADAM unit burned out by a lighting strike I can attest to the importance of shutting down your unit when lighting is near. I lost the main CPU, one modem, and one 64K memory expansion unit. It also blew out a 100 watt light bulb in the room. My wife ran into the room and saw a bright glow coming from ADAM's printer. Honeywell and OrphanWare repaired the modem and 64K card. The printer? I am still

using it as I have been doing for about four trouble free years now with no problems. The inexpensive Radio Shack surge suppresser I had installed did not save the unit probably because of the nearness of the strike to my house. One protection device that I did not have was a modem line surge/spike protector. One of these may have saved my modem. Do not forget that lighting can travel into your home via the phone lines just as easy as it can travel down the power lines.

SMARTWRITER TIPS By D. Zimmerman

ADAMs extra 1/2 line feed on a blank line. We all know by now that ADAM will add an extra 1/2 line feed on the printer when it encounters a line with nothing but a carriage return. This will cause the printer to print closer to the bottom of the page or spill over to the next page. If there is any thing besides the carriage return on the line the printer will advance only one line as it should. I solved this a long time ago by cutting of the "~" (tilde) from the plastic printwheel with a scissors. I press this key before I enter a carriage return on a line with no text. The small sideways "s" appears on the screen but will not print because it was cut off the printwheel. The hammer that strikes the printwheel does not come out far enough to make even the slightest impression. If the tilde is ever needed to be printed I simply change the printwheel to an unmodified one. I did not think it was possible but I see where Irwin Singer came up with a better way. He uses the CONTROL 6 key followed by a single space. When the CONTROL 6 key is pressed an odd character that looks like an upside down L appears on the screen. This character will not print out on the paper and will bomb the printer if it is NOT followed by a SPACE so be sure to add one space.

Use the old trick of using two rubber bands to stop the paper from sliding in the printer. Remove the printer's cover and place one 3 three inch (unstretched) rubber band on both the left and right hand side of the cover. Replace the cover. It only takes a second to lift each rubber band and stretch it over the tabs that stick up on the paper hold down bar. Lift them off when the bar must be raised for paper adjustment.

Forcing SMARTWRITER to REFORMAT text to within changed margins. When the user changes the setting of the margins ADAM will normally change the text appearing on the screen to conform to the new

settings. The user can tell if ADAM is reformatting the text by watching the left hand white vertical marker that appears on the left hand ruler line. When ADAM reformts on-screen text the left hand marker will scroll from the top to the end of the text when the DONE smart key is pressed. If the marker fails to scroll the text will not be re-formatted to within the new settings. ADAM can be forced to re-format text to the present settings instantly at any time. Hit SmartKey I (MARGIN/TAB/ETC), Hit SK II (HORZ MARGIN), Hit SK V (TO: VERT MARGIN), Hit SK VI (DONE). The left hand marker WILL scroll and all text will be re-formatted. This is even faster than entering Q1 that the old WordStar users must. Besides ADAM will re-format the entire document regardless of where the cursor is in the text.

GRAPHICS WORKSHOP

SIGNSHOP Print Patch By W. Motel

This is mainly for those of our readers who have SignShop and the OKIMATE 20 Printer. If you've tried to print on the OKI from SignShop, you know it doesn't work very well. The H. I. and X's that are used for the overprinting don't overprint. The reason is because the OKIMATE doesn't recognize the character 8 in the print buffer as a backspace. When the OKI see's this, it basically ignores it. I don't believe this is an omission on the OKI, but necessary due to the ribbon method used. If you watch the OKI print, you'll notice the ribbon is laid down over the entire print line, then the print mechanism goes across, left to right. The ribbon is a 'wax' type ribbon, therefore once the spot on the ribbon is struck, the 'wax ink' is gone from that spot. How do you backspace to reuse that spot of ribbon?

So this means we have one of two solutions. Either we print the entire row of H's, carriage return (without line feed) and print the entire row of I's, carriage return without line feed, then print the X's (if High Quality print requested). Once this is for a print line. THEN we line feed and do the next line. This is, in essence, what the program does, but on a character position basis. The first print position is printed, as blank or H/I/X. The H prints, backspace, the I, backspace, X, backspace; then the next print position is done. This is why the printer seems to be doing a Rumba when printing from SignShop. Solution 2 is to simply print a "graphics type character or block" in the non-blank positions. One pass per line, no overprinting is needed.

In looking thru the program logic and seeing whats available on the OKI font set, solution 2 is the best approach. Listed below are the changes to make in the program SS.OBJ. This also assumes you are running thru WAMOprint and have corrected the machine language routine at line 12 DATA statement (I've reprinted that change).

To correct

- 1. Under BASIC, LOAD SS.OBJ
- 2. Make the changes listed below
 - A. Delete lines 500 870
 - B. Replace with lines 500 thru 810 below
 - C. Add Line 1, 1105, Change Line 12
- 3. SAVE SS.OBJ (this replaces the original, which is still useful if you want to also run a version on the ADAM printer.)

or

SAVE SS.OBJOKI (this creates a new version. Since the program "signshop" does a RUN SS.OBJ, this will mean you either have to create a new version of signshop, with a different name and a RUN SS.OBJOKI in it, OR you can also just RUN SS.OBJOKI instead of RUN signshop. Either will work.

Line 12 corrects the machine language call so that the dot-matrix, WAMOdrive works.

Line 1105 simply prints the message on the Main Signshop screen, so you know what version you are using (OKI 20 versus original)

Lines 500 thru 810 replace the original print code. Briefly, the trick is the value that gets printed. This is set at line 515. I have the value of 178 for normal print and 219 for high quality. If you look in your OKI IBM PC version handbook, appendix B, you'll see the character set. These are the characters that print for each value. At 625, when a = 72 (the character H), it is replaced with the value bp, which was set at 515. Under value 178, you'll see a checkboard type character. The 219 value is a solid black block. You might want to experiment, as value 176 is a little lighter pattern, perhaps 176 and 178 might be more pleasing to use as light/dark. Just set line 515 with the values you want to use.

This won't work for other dot-matrix printer unless you have equivalent 'graphics type' characters available in the normal font set. The Panasonic KX-P1080, for example doesn't, since it instead uses these values for italic characters. This will work, IF YOU FIRST DOWNLOAD SPECIAL CHARACTERS into the font set. This procedure, if available, should be listed in your printer manual. If you want to try it, these changes must still be made, IN ADDITION TO YOUR DOWNLOAD FONT procedures. Line 88 in SS.OBJ does a GOTO 1000. This is after initialization is done. If you want to try the DOWNLOAD FONT, change the GOTO 1000 at line 88, to GOTO 12000. At 12000 (after exisiting

code), put in your initial download font routine. The last instruction within it, should be GOTO 1000. This will allow you to add your code in and then branch back to 1000. Whatever character values you use to store your custom font in should be the 2 values you set at line 515 of my patch.



1REM NIAD 1987 W. MOTEL OKIMATE 20 VERSION 12DATA 33, 17, 0, 205, 99, 252, 201 500REM Main called routine to print line 510 1\$=p1\$ 514REM OKIMATE 20 178 is light, 219 is pattern for high quality 515 bp=178: IF sh\$<>"L" THEN bp=219 520GOSUB 600 590RETURN 600REM Called to create the print line (using B P pattern) 602REM and call Print Routine M.L. at address 3 610FOR p=1 TO LEN(1\$) 620 a=ASC(MID\$(1\$, p, 1)) 625IF a=72 THEN a=bp 630POKE 17+(p-1), a 640NEXT p 650POKE 17+(p-1), 3:CALL 3 **660RETURN** 800REM Simply do the line feed after all the overprint lines are done 810POKE 17, 10:POKE 18, 13:POKE 19, 3:CALL 3: RETURN 1105? " 1987 NIAD OKIMATE 20 Vers."



THIS WAS DONE ON THE ADAM USING GRAPHIXPAINTER

Here are three really nice graphics display programs.
They're short but good.
The first is called STAPPHEST, the second is a very

The first is called STARBURST, the second is a very interesting one called GALAXY MAKER. Follow the instructions and you can generate some nice pictures. Try different values at the input time to generate all different types.

The third is TAMMYART, which generates some real nice designs in color.

```
180 IF LEFT$(a$, 1) = "n" THEN 140
   0 & NIAD PUBLIC DOMAIN
                                          Volume # BND
                                                                 190 HGR2
V 18
                                                                200 FOR i = 1 TO 6: d(i) = 2^{n(i)+1}: NEXT i
   1 ONERR GOTO 1000
                                                                210 FOR i = 1 TO 3: READ x(i), y(i): NEXT i
   2 ve = 12: HOME: m$ = "STARBURST"
                                                                220 DATA 127,95,122,90,117,85
   3 HOME: FOR x = 1 TO LEN(m$)
                                                                230 ON PDL(7) GOTO 410
   4 FOR ch = 32 TO ASC(MID*(m*, x, 1))
                                                                235 ON PDL(9) GOTO 60
   5 VTAB ve: HTAB x+(31-LEN(m$))/2
                                                                240 IF x(1) < 0 OR x(1) > 255 OR y(1) < 0 OR y(1) >
   6 PRINT CHR$(ch): NEXT ch, x
                                                               191 THEN 270
   7 \text{ FOR } k = 1 \text{ TO } 2000
                                                                250 HCOLOR = c1: HPLOT INT(x(1)), INT(y(1))
   8 NEXT k
                                                                270 IF x(2) < 0 OR x(2) > 255 OR y(2) < 0 OR y(2) >
  10 y = 60
                                                               191 THEN 300
  20 IF y = 0 THEN 10
                                                                280 HCOLOR = c2: HPLOT INT(x(2)), INT(y(2))
  30 HGR
                                                                300 IF x(3) < 0 OR x(3) > 255 OR y(3) < 0 OR y(3) >
  35 PRINT " HIT CONTROL-C TO STOP PROGRAM"
                                                               191 THEN 330
  40 FOR t = 1 TO y
                                                                310 HCOLOR = c3: HPLOT INT(x(3)), INT(y(3))
  50 c = INT(RND(1)*15)
                                                                330 y(1) = y(1) - (x(2) - x(1)) / d(1)
  60 \text{ HCOLOR} = c
                                                                340 x(1) = x(1)+(y(2)-y(1))/d(2)
  70 u = INT(RND(1)*255)
                                                                350 y(2) = y(2)-(x(3)-x(2))/d(3)
  80 \text{ w} = INT(RND(1)*159)
                                                                360 \times (2) = x(2)+(y(3)-y(2))/d(4)
  90 HPLOT 139, 95 TO u, w
                                                                370 y(3) = y(3) - (x(1) - x(3)) / d(5)
  100 r = PEEK(-16326)
                                                                380 \times (3) = x(3)+(y(1)-y(3))/d(6)
 110 NEXT t
                                                                390 GOTO 230
 120 y = y-6
                                                                410 TEXT: END
 130 GOTO 20
 140 END
1000 TEXT: END
   0 & NIAD PUBLIC DOMAIN
                                                                  0 & NIAD PUBLIC DOMAIN
                                         Volume # BND
                                                                                                        Volume # BND
V 18
                                                              V 18
  60 TEXT: ONERR GOTO 90
                                                                  5 ONERR GOTO 200
   70 PRINT "L TRIGGER=END": PRINT "R TRIGGER=RERUN "
                                                                  6 HOME: PRINT: PRINT " TammyART By Fisher 1986"
                                                              : PRINT: PRINT " PRESS ESC
  80 G0T0 100
   90 PRINT "ENTER NUMBERS ONLY": GOTO 100
                                                              APE TO END"
 100 PRINT "ENTER 3 COLOR NUMBERS BETWEEN": INPUT "0
                                                                   7 PRINT: PRINT: PRINT: PRINT " PRESS ANY KEY TO
                                                              BEGIN ": GET k$
& 15 WITH A COMMA AFTER EA
                                                                  10 HGR2
CH"; c1, c2, c3
  120 CLRERR
                                                                  15 k = INT(RND(1)*16)
  130 TEXT: ONERR GOTO 410
                                                                 16 IF k = 0 THEN k = 13
  140 PRINT "TYPE 6 DIGETSK EACH FOLLOWED": PRINT "BY
                                                                  17 IF k = 4 THEN k = 7
'RETURN' (E.G.,1 1 1 5 5 5
                                                                 18 IF k = 16 THEN k = 1
                                                                 20 a = 1: x = 1: b = 191: y = 255
 150 FOR i = 1 TO 6: INPUT ""; n(i): NEXT i
                                                                 25 FOR i = 1 TO 255 STEP 3
 160 PRINT: PRINT "YOUR NUMBERS WERE":
                                                                  30 HCOLOR = k: k = k+1
                                                                 35 IF PEEK(64885) = 27 THEN 200
 170 FOR i = 1 TO 6: PRINT n(i); : NEXT i: PRINT "
_ OK (Y/N)"; : INPUT a$
                                                                  40 IF k = 4 THEN k = 5
                                                     PAGE 7
```

```
45 IF k = 16 THEN k = 1
 50 HPLOT a, x TO y, b
 60 a = a+3: y = y-3
 70 NEXT i
100 a = 255: x = 1: y = 1: b = 191
101 k = INT(RND(1)*16)
102 IF k = 0 THEN k = 13
103 IF k = 4 THEN k = 9
104 IF k = 16 THEN k = 1
110 HCOLOR = k: k = k+1
115 IF PEEK(64885) = 27 THEN 200
117 IF k = 16 THEN k = 1
120 HPLOT a, x TO y, b
130 x = x+3: b = b-3
135 IF x = 193 GOTO 150
140 GOTO 110
150 GOTO 15
200 TEXT: END
```

BEGINNER'S BASIC WORKSHOP

HOMEWORK HELPER which is an easy to use, menu driven program for making question/ answer drills on any subject. You can create multiple q/a files and store them for later use. The program prompts you for the question and answer and builds the file automatically. Once a q/a file is created the program will "test" you by presenting the uestion and asking for the answer.

```
1 & NIAD PUBLIC DOMAIN
                                      VOLUME #
BNDV 21
  31 = 0: 12 = 0
  5 x = 0: w = 0: a = 0
 10 POKE 17115, 20: TEXT
 13 PRINT CHR$(7)
 15 PRINT "Homework Helper"
 17 PRINT "Main Menu"
 23 INVERSE
 25 HTAB 17: VTAB 3: PRINT " I
 30 HTAB 17: VTAB 6: PRINT " II "
 35 HTAB 17: VTAB 9: PRINT " III "
 40 HTAB 17: VTAB 12: PRINT " IV "
 45 HTAB 17: VTAB 15: PRINT " V "
 50 NORMAL
 55 HTAB 17: VTAB 4: PRINT "make questions"
 60 HTAB 17: VTAB 7: PRINT "load questions"
 65 HTAB 17: VTAB 10: PRINT "print questions"
 70 HTAB 17: VTAB 13: PRINT "take test"
 75 HTAB 17: VTAB 16: PRINT "Exit program"
 85 GET e$
 90 x = ASC(e\$)
 93 IF x < 129 OR x > 133 THEN GOTO 85
 95 IF x = 129 THEN x = 1
100 IF x = 130 THEN x = 2
```

```
110 IF x = 132 THEN x = 4
115 IF x = 133 THEN x = 5
120 ON x GOTO 130, 500, 800, 1000, 1500
130 HOME: INVERSE: PRINT "Question Maker"
132 NORMAL
135 PRINT: PRINT " [M]ake questions"
140 PRINT " [E]xit to menu"
143 PRINT: PRINT "Enter choice"
145 GET a$
150 IF a$ = "m" OR a$ = "M" THEN 160
155 IF a$ = "E" OR a$ = "e" THEN 10
157 GOTO 145
160 DIM q$(10): DIM a1$(10)
162 FOR w = 3 TO 24: VTAB w: PRINT: NEXT w
165 FOR t = 1 TO 10
167 VTAB 3
170 PRINT "Enter question #"; t
175 INPUT q$(t)
180 PRINT: PRINT
185 PRINT "Enter answer #"; t
190 INPUT a1$(t)
195 FOR c = 3 TO 20
200 VTAB c: PRINT
205 NEXT c
300 NEXT t
305 VTAB 3: PRINT "You have entered all 10
310 PRINT "questions and answers."
315 PRINT "Would you like to save this
320 PRINT "file to tape? [Y]or[N]"
330 GET a$
335 IF a$ = "Y" OR a$ = "y" THEN 350
340 IF a$ = "N" OR a$ = "n" THEN 10
345 GOTO 330
350 PRINT: INPUT "Enter file name "; n$
355 d\$ = CHR\$(4)
357 PRINT d$; "OPEN "; n$
360 PRINT d$; "WRITE "; n$
365 \text{ FOR } \mathbf{t} = 1 \text{ TO } 10
370 PRINT a$(t)
375 PRINT a1$(t)
380 NEXT t
385 HTAB 1: PRINT d$: "CLOSE ": n$
387 PRINT: PRINT "File has been saved to tape.
390 FOR p = 1 TO 3000: NEXT p
400 GOTO 130
500 HOME: INVERSE: PRINT "Load Questions"
503 NORMAL
505 PRINT: PRINT " [L]oad Questions"
510 PRINT "
             [V]iew question files"
515 PRINT "
              [E]xit to main menu"
520 PRINT: PRINT "Enter selection."
525 GET a$
530 IF a$ = "L" OR a$ = "1" THEN 570
535 IF a$ = "V" OR a$ = "v" THEN 550
540 IF a$ = "E" OR a$ = "e" THEN 10
545 REM
```

105 IF x = 131 THEN x = 3

```
550 d\$ = CHR\$(4)
                                                                960 PRINT q$(t)
 553 VTAB 3
                                                                965 PRINT: PRINT a1$(t)
                                                                970 PRINT
  555 PRINT d$; "CATALOG"
                                                                975 NEXT t
 560 PRINT
 565 d1\$ = CHR\$(13) + CHR\$(4)
                                                                980 PR #0: GOTO 800
                                                               1000 HOME: INVERSE: PRINT "Take Test"
 570 INPUT "Enter file name "; n$
 575 PRINT: PRINT "One moment ...Loading file"
                                                               1004 NORMAL
 580 PRINT d$; "OPEN "; n$
                                                               1005 PRINT: PRINT " [T]ake test"
 585 PRINT d$; "READ "; n$
                                                               1010 PRINT " [L]ook at score"
1015 PRINT " [E]xit to main menu"
 600 \text{ FOR } t = 1 \text{ TO } 10
                                                               1025 PRINT: PRINT "Enter selection."
 605 INPUT q$(t): PRINT CHR$(8)
 610 INPUT a1$(t): PRINT CHR$(8)
                                                               1035 IF a$ = "T" OR a$ = "t" THEN 1060
 615 NEXT t
                                                               1040 IF a$ = "L" OR a$ = "1" THEN 1110
 620 HTAB 1: PRINT d$; "CLOSE "; n$
                                                               1045 IF a$ = "E" OR a$ = "e" THEN 10
 625 PRINT: PRINT "File is loaded into memory f
                                                               1050 GOTO 1000
                                                               1060 \text{ FOR } t = 1 \text{ TO } 10
 630 PRINT "use with the rest of the
                                                               1063 GOSUB 3000
 635 PRINT "system."
                                                               1065 VTAB 3: PRINT t: PRINT " "; : PRINT q$(t)
 640 FOR p = 1 TO 3000
                                                               1070 PRINT: INPUT "Enter answer-": e$
 645 GOTO 10
                                                               1075 IF e$ = a1$(t) THEN 1 = 1+1: GOTO 1090
 800 HOME: INVERSE: PRINT "Print questions / an
                                                               1080 IF e$ <> a1$(t) THEN PRINT: PRINT "Sorry,
swers"
                                                               incorrect. The answer is"
 803 NORMAL
                                                               1085 PRINT a1$(t)
 805 PRINT: PRINT " Print -"
 810 PRINT " [Q]uestions only"
                                                               1090 PRINT: PRINT "Press any key to conitnue":
 815 PRINT " [A]nswers only"
                                                              GET a$
 820 PRINT " [B]oth questions & answers"
                                                               1097 NEXT t
 825 PRINT " [Elxit to Main Menu"
                                                               1100 GOTO 1000
                                                               1110 VTAB 3: PRINT: PRINT: PRINT: PRINT: PRINT
 830 PRINT: PRINT "Put paper in printer and -"
 832 PRINT "Enter selection."
                                                               1115 VTAB 3: PRINT "Your Score -"
                                                               1120 PRINT: PRINT " # correct - ": 1
 835 GET a$
                                                               1125 PRINT " # possible- 10"
 840 IF a$ = "Q" OR a$ = "q" THEN 865
                                                               1130 12 = 1/10*10
 845 IF a$ = "A" OR a$ = "a" THEN 905
                                                               1135 PRINT " percentage- "; 12
 850 IF a$ = "B" OR a$ = "b" THEN 940
                                                               1140 PRINT: PRINT "Press any key to continue.":
 855 IF a$ = "E" OR a$ = "e" THEN 10
 860 GOTO 835
                                                               GET a$
                                                               1145 GOTO 1000
 865 PR #1
                                                               1500 POKE 17059, 0: POKE 17115, 240: POKE 17126
 870 PRINT "Questions -"
                                                              , 15: TEXT: PRINT: PRINT
 872 PRINT: PRINT
                                                               1502 INVERSE: PRINT "Homework Helper"
 875 FOR t = 1 TO 10
                                                               1505 NORMAL: PRINT: PRINT "By:Joe Reardon"
 880 PRINT t; : PRINT " ";
                                                               1510 PRINT "November 26, 1985"
 885 PRINT a$(t)
                                                               2999 END
 890 PRINT
                                                               3000 FOR a = 3 TO 24
 895 NEXT t
 900 PR #0: GOTO 800
                                                               3010 VTAB a: PRINT
                                                               3015 NEXT a
 905 PR #1
                                                               3020 RETURN
 910 PRINT "Answers -"
 913 PRINT: PRINT
 915 FOR t = 1 TO 10
                                                                 SMARTBASIC WORKSHOP
 920 PRINT t; : PRINT " ";
 925 PRINT a1$(t)
 930 PRINT
                                                                 This is in response to questions we've
                                                           received from a couple of members recently. The
 935 NEXT t
 940 REM
```

This is in response to questions we've received from a couple of members recently. The question is HOW DO YOU FORMAT MONEY or DECIMAL VALUES FOR PRINTING? First, we want to make sure the number always will print with, say 2 decimal places for money and will align themselves properly.

945 PR #1: PRINT " Test -":

955 PRINT t; : PRINT " "

947 PRINT: PRINT 950 FOR t = 1 TO 10

AMOUNT		AMOUNT		
12.5	or	12.50		

1.07

The following routine will accomplish this. This example formats to print with 2 decimal places and align within 10 print positions (XXXXXXXXX), but can be adjusted easily. 1000 REM Print 9 digits, 2 decimal place number 1001 REM GDSUB 1000 1002 REM Pass numeric value in V 1003 REM Returned is printable version in V\$ 1010 v=INT(v/.01)+.5)*.011015 v\$=STR\$(v): IF v=0 THEN V\$="" 1020 IF INT(v+1E-05)=0 THEN v\$="0"+v\$ 1025 IF ABS(v-INT(v+1E-05))<1E-05 THEN v\$=v\$+".00":GOTO 1035 1030 IF ASC(RIGHT\$(v\$, 3))<>46 THEN v\$=v\$+"0" "+v\$,10) 1035 v\$=RIGHT\$(" 1040 RETURN

1.07

An example of its use:

Assume A1 contains the value you want to print: V=A1: GOSUB 1000: Print " Answer = ":V\$ Brief explanation:

1010 This rounds value off to 2 decimal places and eliminates decimal places over 2.

1015 Converts numeric value in V to string equivalent. This is placed in V\$.

If original value of v = 0, V\$ set to space. 1020 If V has decimal places only (integer portion is 0), Concatenate a "0" to front.

The 1E-05 is .00001. Due to the way ADAM and other computers handle numbers, this "small" value forces values to be "true". For example, the value 10, might be stored as 9.99999. It will print as 10, but the INT will say its 9.

1025 This checks to see if the original value is a whole number only. If it is, we need to append .00 to the end of our printable answer AND bypass the next check.

1030 We have a number that has decimal places, but how many, one or two. This tests the 3rd position from the right for a deciaml place. If it isn't, then we have only 1 place, so append a 0 to the right end. 2.5 becomes 2.50

1035 Finally, Concatenate 10 spaces " " and what is in V\$ for 10 spaces from the right. This forces the number to be right justified within 10 positions. If you wanted 15, change the value to

15 and use 15 spaces, instead of 10.

Hopefully you'll find this useful in you're own programs to make you're reports or screen output a little neater.

SMARTLOGO WORKSHOP

Here is a SMARTLogo program that I thought you guys might like. To run it type in STARTA (after you have loaded the program, if on tape/disk). The program displays shapes of cars from the game SPYHUNTER. Use the keypad to change the colors (0-9). Type in one of the following letters to see different cars:

A The Enforcer

B Switch Blade

C Road Lord

D Spy Hunter

E My design

From Don Gomez

```
TO STARTA
```

MAKE "A [0 0 0 0 0 189 219 37 249 249 249 249 249 3 7 219 189 0 0 0 0 0 248 248 132 251 252 252 252 251 132 248 248]

MAKE "B [0 0 0 0 0 15 23 16 47 31 31 31 47 16 23 15 0 0 0 0 0 187 237 114 159 159 159 159 159 114 237 1871

MAKE "C [0 0 0 0 0 60 127 60 231 199 199 231 60 1 27 60 0 0 0 0 0 0 60 254 176 31 31 31 31 176 254 60]

MAKE "D [0 0 0 0 0 120 253 192 151 167 135 167 151 192 253 120 0 0 0 0 0 30 175 97 158 159 241 159 158 97 175 30]

MAKE "E [0 0 0 0 0 60 255 57 239 199 199 239 57 2 55 60 0 0 0 0 0 0 60 255 17 142 143 143 142 17

MAKE "F [0 0 0 0 0 0 124 251 4 255 143 143 255 4 25 1 124 0 0 0 0 0 0 60 218 41 23 27 27 23 41 218 601

RESET

END

```
TO CHANGE : DIR
```

IF :DIR = "1 [SETC 3]

IF :DIR = "2 [SETC 4]

IF :DIR = "3 [SETC 5]

IF :DIR = "4 (SETC 6)

IF :DIR = "5 [SETC 9]

IF :DIR = "6 [SETC 10]

IF :DIR = "7 [SETC 11]

IF :DIR = "8 (SETC 12)

IF :DIR = "9 [SETC 15]

IF :DIR = "0 (SETC 8)

IF :DIR = "A [HT TELL 0 SETSH 1 TELL 1 SETSH 0

TELL [0 1] ST]

IF :DIR = "B [HT TELL 2 SETSH 2 ST]

IF :DIR = "C (HT TELL 2 SETSH 3 ST)

IF :DIR = "D [HT TELL 2 SETSH 4 ST]

IF :DIR = "E (HT TELL 2 SETSH 5 ST)

CHANGE RC

END

TO START
TELL ALL CS
HT
PU
SETBG 1
TELL 1 RT 90 FD 8
TELL 0 LT 90 FD 8
CHANGE RC
END

TO RESET
PUTSH 0 :A
PUTSH 1 :B
PUTSH 2 :C
PUTSH 3 :D
PUTSH 4 :E
PUTSH 5 :F
START
END

MAKE "F [0 0 0 0 0 0 124 251 4 255 143 143 255 4 251 124 0 0 0 0 0 0 60 218 41 23 27 27 23 41 218 60]

MAKE "E [0 0 0 0 0 60 255 57 239 199 199 239 57 255 60 0 0 0 0 0 60 255 17 142 143 143 142 17 255 60]

MAKE "D [0 0 0 0 0 120 253 192 151 167 135 167 151 192 253 120 0 0 0 0 0 30 175 97 158 159 241 159 158 97 175 30]

MAKE "C [0 0 0 0 0 60 127 60 231 199 199 231 60 127 60 0 0 0 0 0 60 254 176 31 31 31 31 176 254 60]

MAKE "B [0 0 0 0 0 15 23 16 47 31 31 31 47 16 23 15 0 0 0 0 0 187 237 114 159 159 159 159 159 114 237 187]

MAKE "A [0 0 0 0 189 219 37 249 249 249 249 249 37 219 189 0 0 0 0 0 248 248 132 251 252 252 252 251 132 248 248]

CP/M 2.2 WORKSHOP

CP/M: SPECIAL TRICK From Verna Bishop
If PIP has already been loaded and all you've done
since using it is a warm boot followed by DIR (or
any other built-in command of CP/M), the PIP
program is actually still in the transient program
area. In this case there's a way to restart PIP
without reloading provided one of your disks
contains a file we'll call GO.COM. If it does all
you'll have to do is type:

A>GO (CR) (or A>B:GO.COM is on B)

You will immediately see the asterisk *. The * tells you that PIP is running again and ready to do work. The advantage of GO.COM is that (unlike PIP) it takes zero space on a disk, and almost zero time to execute.

To put the GO.COM file on the A disk, type:

A>SAVE 0 GO.COM (CR)

To put in on the B: drive, type: A>SAVE O B:GO.COM (CR)

This command will save zero pages of data, storing the file name GO.COM in the disk file directory. The file directory will also have the information that the file has a length of zero records recorded in byte 15. When you give the command A>GO, CP/M does three things: (1) It sets up a File Control Block with the name GO.COM and a record count CR (current record) of zero. (2) it reads CR records of htis file into the transient program area, and (3) it starts execution of the file at the standard starting address used by all COM files. For GO.COM step (2) amounts to reading zero records into the TPA, so step (3) will start executing whatever program may have already been in the TPA. It's alright to use any of CP/M's built in commands (DIR or TYPE) before giving the 60 command since these commands do not use the TPA.

NIAD CP/M PUBLIC DOMAIN DISK #31 By S. McFarlane

A collection of 26 games written in E BASIC that I guarantee will provide you with a challenge as well as hours of enjoyment! I have configured the SmartKeys for ease of use & provided on-line instructions. Simply boot the disk & then press SmartKey I for a Games Directory. After selecting a game, press SmartKey II (RUN GAME) & input the filename - without the file extension. That's all there is to it! Most of the files include a help menu.

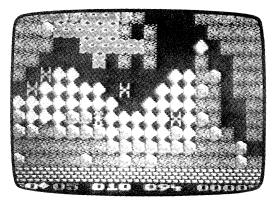
This collection includes the following Games:

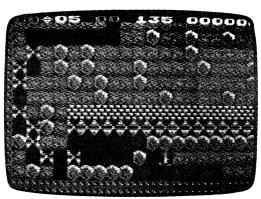
23MATCH **BAGELS** BAGLES2 BULLSEYE **CANNONS** CHECKERS CHIEF CHOMP **CRAPS** DICE HANG JEM KINGDOM LANDER LOVE LUNAR NFL POET ROCKET RUSSIAN STRIKE9 **SWARMS** TRAP TTT WUMPUS WUMPUS2











An addictive mixture of challenge, strategy, reflex and charm. Collect the required number of jewels and the mysterious escape tunnel is awarded. Can you and Rockford™ master the enchanted walls, transform butterflies into jewels and escape the growing amoeba?



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GAMES WORKSHOP

Well, a big HELLO from Jim Goebel! I am starting up a new games column for the user's group, and I would like for all you members of NIAD to write in your tips, tricks, questions or answers about any games for the ADAM/ColecoVISION, Nintendo Entertainment system, or Atari 2600 & 7800 game systems. I would like to say that if anyone out there has a Sega master system to contribute the knowledge about it to us. I will devote virtually all space in the following issues to ADAM/ColecoVISION, but if I find a particular product of interest, I will notify you about it.

Being the first column, I will compare the various game systems that you can currently get software for.

First generation:

ATARI 2600 - The "grandaddy" of the game systems is still around. In its heyday, you could get a selection of over 150 different cartridges in one store! Now a selection of about 15-20 is all you can find. the graphics are strictly the bottom of the spectrum, but if you can get your hands on the Solaris cart (about 12 bucks), you can see some truly outstanding (for the 2600) graphics. RATING C

Second generation:

InTV system 3 - Maybe you better knew this as Intellevision, back when George Plimpton did commercials for it. The graphics are now considered low-res(although I have not seen their latest releases). You can find about 15-20 cartridges for this in one store. RATING C+ ColecoVISION - Although I never liked it at first, I learned to love it, so to speak. Need I say more? RATING A

Third Generation

ATARI 7800 - Although the graphics are not as good as the Sega, they still are FABULOUS! Another nice added feature about it is that it plays the 2600 carts without an adapter! Ther aren't many games made for it, but the games they do have for it are well worth it! Xevious, Dig Dug, Galaga, Robotron, Pole Position 2 (included), plus old favorites like Centipede, and Asteroids (This one has to be seen to be believed) are all available for it right now, with some licensed computer games (such as Summer Games) on their way!

NES (Nintendo Entertainment System) — This game system was the one that came with the robot (useless, in my opinion). The biggest problem with it, is it falls into the trap of having "typical" graphics. The NES has the biggest selection of software currently. The third party carts, are better than the Nintendo made ones. RATING B-Note: At the time that this was originally

written, I was thinking of getting rid of my NES. I have since changed my mind because of the new software coming out for it. NEW RATING A+ Sega Master System - I do not believe that I have enough experience with this one to make any judgements (although what I do know is that the graphics are the best).

ADDENDUM: This column will also keep you posted of the new games for the NES, Sega master system, and the 7800. Future titles to look for are Spyhunter, Punch Out, Karnov, Metroid, And Legend of Zelda (NES). Gato, Summer Games, Winter Games, Desert Falcon (AT 7800). Track & Field, Kung Fu, Stargate (AT 2600 & 7800). Next month, we will discuss the PD DDP'S that Coleco never released, and talk about a truly interesting diversion in Harvey called PHOTON.

SEGA UPDATES

Sega has released their 3D glasses and the first 3D game, MISSLE DEFENSE. The glasses are black plastic with a liquid crystal display behind each lens that provides the 3D effect by alternating your vision through each eye. A thin wire attaches the glasses to an adapter which plugs into the card slot on the Sega base unit. Missle Defense 3D is a game that requires the Sega phaser and puts you in command of defending US cities against missle attacks. Each round has three scenes where you can shoot down the missles. The last scene (and your last chance) is when the missles are heading into a major city. The 3D effect is excellent, showing true depth of view. The effect is so true to life that it feels like you could reach out and touch the missles as they come at you!!

I predict this will usher in a whole new wave of such 3D games, that offer this great added "depth" to home video arcade games.

REVIEWS

NIAD GOLD - HOME & BUSINESS

This is collection of the best home and business programs for the ADAM. Bob Tarnowski has taken the cream of the public domain to create this NIAD GOLD volume. Descriptions of each of the fine programs are recorded below.

ADAMBASE - A comprehensive data base system. You define the number of fields per record and the length of each field, then the program calculates the number of records the file can contain. Once a database is created, you can add records,

search, sort and print out the records. A real nice program for a small database application.

ADDRESSER - Will address (both return and addressee) regular and business size envelopes.

ANNOUNCE - A text editor that can be used to format a one page announcement. Text can be centered, left or right justified. The entire page can also be vertically centered on the page.

BANNER - Prints out a banner on fanfold paper using huge letters. You can choose the height, width of the letters, center, left/ right justified and what character to be used.

BTRBARGRAPH - Displays an excellent color graphics bar graph based on data values you input.

CALENDAR - Will print out a nice full page calendar for any month/ year.

CASSLABEL - Real nice little program that prints labels for cassette tapes. You can enter a title, 13 lines for the front and 4 for the back. Cut lines are printed to get a perfect fit inside a plastic cassette case.

DRIVERNUMB - This interesting program will "calculate" a drivers license number (for most states) based on name and other information !

INVENTORY - Simple inventory system. Allows item name, dollar amount and description to be entered and later recalled.

LABELMAKER - Good program for creating 5 line labels using standard 15/16 inch labels. Lines can be left, center or right justified. Prints one label at a time and allows you to store labels for later printing.

LOANANALYSIS - Figures monthly payments based on loan amount, interest rate and term. Will also print the monthly payments and interest.

MAILLIST - Good program for creating, maintaining and printing a mailing list of names and addresses. Also allows searching for a specific name. Mailing list files can be saved for later retrieval and use.

MORTGAGE - A very comprehensive program for calculating mortgage payments. Five different reports are available based on your input of principal, term and per centage rate. PERSBALSHT - An excellent program for determining your personal worth (or indebtedness). The program walks you through about 20 questions about PAGE 14

your assets and liabilities and then prints out a balance sheet summarizing all pertinent data. This program can be used for business as well as personal.

PHONEBOOK - This program will allow you to record name, address and phone number to create a personnel phonebook which can be printed on the ADAM printer.

PHONECOST - A neat little program that you run WHEN you get on the phone. It will either display the number of minutes and cost based on your input of per minute cost, tell you when you have reached a specific cost or when you have been on the phone for a pre-specified period of time. Someone obviously wrote this program for a non-phone conscious mate/ child.

SHOPPER - This program will prompt you for all possible grocery items. You can enter a quanitiy or a phrase for each item or just hit enter to skip the item if you don't need it. A nice shopping list is then printed out for you.

SORT - An alphabetical sorting program that will accept the inputting of a variable number of items, sort them and output them to a disk/tape file, the printer or the screen. Excellent utility for handling this task.

VCR - This program will create a graphics screen for each of your VCR tapes listing the names of the movies and what counter number they begin at. Once you create the screen based on the questions asked, you would take the cable that goes into your tv or monitor and hook it to your VCR and set it to record (make sure the tape is rewound to the beginning). Let it record for a few seconds and then stop the VCR. This will record the screen you created on the tape containing the movies and counter numbers you entered into the program. Then, everytime you play the tape (from the beginning of course) the movie titles will be displayed for you.

To my knowledge, this is the first collection of high quality programs of this type. The tape/disk is self booting and contains an automatically loaded menu from which you can run all the programs.

RATING - A+

SOFTPACK 2.0/ BUSINESS PACK 2.0

E & T Software has been a solid, long time supporter of the ADAM. Ed Jenkins is a great programmer and a devoted ADAMite. Ed has rewritten his two great programs, SOFTPACK and BUSINESS PACK, adding many features and enhancements. He is now using SMARTBasic v 2.0 in order to utilize its random access file capabilities (SMARTBasic v 1.0 does not support random access files). The advantage of random files is access speed and the ability to store more records per file. Sequential files, which is what Basic v 1.0 provides, can only hold 150 records per file. This limits many programs and requires multiple files to be created and used. SOFTPACK contains two main programs -SOFTCHECK is a comprehensive checkbook management program handling checks, deposits, ATM transactions, interest, check fees and account charges. Up to 650 entries per file can be accomodated. An "autocheck" feature has been added that supports up to five different checks that are the same each month (car, mortgage payment, etc.). Once all transactions are entered they may be listed to either the screen or printer or editted if an error was made. Full search capabilites are provided by check #, deposit, atm, charge, or date. All canceled entries can also be retrieved.

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

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

SOFTMAILER provides for the entry and maintenance of a list of names and addresses (up to 248 per file). Three lines of address are provided for as well as three categories that can be used to group names/ addresses for later retrieval and printing (e.g. bills, Christmas list, etc.). A full editor is provided for maintenance. Printing is fully supported, with search by last name, record #, zip code or category. Large and small envelopes, paper and mailing label printing are supported.

BUSINESS PACK contains an improved version of the SOFTMAILER program with additional features and a program called SOFTFILER, that allows the establishment of a database of names, addresses, etc.. Up to 248 records can be stored in each file and multiple files can be set up. Sophisticated search facilities are provided in addition to editting and sorting capabilities. SOFTSTOCK and STOCKPRINT are used to create and maintain an inventory system for small businesses with up to 400 stock items. Stock #. vendor. product name.

quantity on hand, reorder point, quantity on order, total sold, company and retail cost data are provided. Various reports can be printed off based on this data.

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

These new versions are being made available to owners of the current version for \$7.50 including shipping. Also, you may send in a data tape/disk containing files created using the original version of SOFTPACK/ BUSINESS PACK for conversion to be compatible with the new version for only \$3.00. Just send in your original tape/ disk and the fee to E&T Software, 1010 Westminster, Garland, TX 75040.

RATING - A

FILE PRINTER By L. Marschand

This fine program, written by Terry Fowler of the the Greater Houston ADAM User's Group, is a set of dot matrix printer programs for formatting and printing documents prepared by the SMARTWriter word processing program on Panasonic KX or compatible printers. It is NOT a word processor or text editor (like the recently reviewed SMARTTYPE 2 program).

The programs are written in Basic and run from a self loading disk/tape. The main menu screen provides three alternative programs:

- NEWSLETTER COLUMN PRINTER Will print a SMARTWRiter document in two column newsletter style using 3 inch margins, 15 CPI. Options for single or double spacing and NLQ print are provided.
- 2. SMARTWRITER FILE PRINTER Will print documents in normal format. Options for margins, spacing, NLQ and autojustification are provided so unaltered SW documents can be printed.
 Additionally, FILE PRINTER will recognize an extensive set of control codes that you can embed in the SW document. Terry has provided a comprehensive set of codes covering most of the features of the Panasonic KX (and compatibles) printer.
- 2. DOT MATRIX FUNCTION PRESET This program allows you to preset your printer by entering commands directly. This is a nice feature because your alternative is to enter those long Basic command strings per the manual. I use this approach to set up the printer prior to printing my documents with the default parameters I want. There are two additional programs that are needed by FILE PRINTER, but can be used on their own as well. TOTEXT will change a SW file to a SMARTBasic

compatible file (no line numbers of course) and TOWP does the opposite.

The only limitations are that when you embed the control codes in your document, they will affect an entire line or paragraph and can't be used for just one or a few words. This is due the fact that SMARTBasic treats each line as data. The Eve Custom Printer software program allows printer features to be turned on/off by word or even

letter. Since Basic is doing the printing it will not be as fast as direct SW printing. FILE PRINTER does allow one to simply print professional looking documents originally prepared by the SW word processor. If you are a user of SMARTWriter and have a Panasonic KX or compatible dot matrix printer, this program will help in preparing really nicely formatted documents with features like full autojustification, centering, etc.

FILE PRINTER is only \$9.95 and should be ordered directly from Terry Fowler, Rt 2 Box 2756, Pearland, TX 77581

RATING - A

BASIC RAM DISK - 256K

This program by Walter's Software is a revised version of their 64K RAM Disk program, designed to work with Orphanware's 256K memory expander board. It provides the same functions under SMARTBasic as the 64K version, but obviously gives you a much larger RAM disk. You can copy a whole data pack full of files into the RAM disk if you wan't to and then run your programs from that. This would be great for SMARTBasic children's games - no more messing with tapes, etc. once you load and copy the program into the 256K card. As with the 64K version, once you load a program/ file into the 64K, you can load and run other programs, even reset the computer to run CP/M, ADAMCALC, etc. and not erase the programs you originally loaded in. Walter's has also found and corrected the bug in the operating system that occasionally "hangs" up the system when using the 256K expander. Is the 256K memory board for you ? Only you can answer that. It's major advantage is for ADAM hackers and programmers and we know there are a lot of them! For the normal user, the 64K memory expander would meet most needs, but some people want more and more. Note that the 256K expander will NOT provide any additional functions in any programs other then SMARTBasic and CP/M. Walter's is offering an upgrade option for those people who have already purchased the 64K RAM DISK software program from them. Send your disk/ddp containing the 64K program and only \$7.50 to

receive the 256K version if you decide to buy Orphanware's 256K memory board.

RATING - A

ADAMCALC DOT MATRIX PRINTER PATCH

Orphanware has released a program that patches the popular ADAMCALC spreadsheet program to direct all print output to a dot matrix printer. The ADAM community has been long awaiting this program to provide faster printing for what is an excellent program. ADAMCALC contains its own printer drivers so many of the other printer patch programs would not work. There is not much more to say, the program works! All that is required is to run the CALCPATCH program which will permenently alter your ADAMCALC disk/tape so make sure you only do this on a copy. All ADAMCALC printing will be done

PRINTER GENDER CHANGER

printer of your choice.

exactly the same, except it will go the dot matrix

Sounds strange you say! Well yes, but it serves a purpose. This little piece of hardware that bares Coleco's name is to be attached between the power cord that comes from the printer and the ADAM memory console. After this brief installation procedure, the only thing you will notice is that when you reset the computer the printer is silent! Yes, the "gender changer" eliminates the sometimes annoying reseting of the printer and automatic line feed. Advantages are no noise and less wear and tear on your printer. Order for \$8.00 US plus \$1.50 shipping from: Trisyd Video, 26 Florence Cres., Toronto, Ontario Canada M6N 4E4 (416) 769-6446

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