

**MULTI-FUNCTION USER GROUP**  
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Hope this finds you all well.

Continuing our study of Romans Chapter 3..

<sup>27</sup>Then what becomes of our boasting ? It is excluded. On what principle ? On the principle of works ? No, but on the principle of faith.

<sup>28</sup>For we hold that a man is justified by faith apart from works of law. <sup>29</sup>Or is God the God of Jews only ? Is he not the God of Gentiles also ? Yes, of Gentiles also, <sup>30</sup>since God is one; and he will justify the circumcised on the ground of their faith and the uncircumcised through their faith. <sup>31</sup>Do we then overthrow the law by this faith ? By no means ! On the contrary, we uphold the law.

Chapter 4 What then shall we say about Abraham, our forefather according to the flesh ? <sup>2</sup>For if Abraham was justified by works, he has something to boast about, but not before God.

<sup>3</sup>For what does the scripture say ? "Abraham believed God, and it was reckoned to him as righteousness."

<sup>4</sup>Now to one who works, his wages are not reckoned as a gift but as his due. <sup>5</sup>And to one who does not work but trusts him who justifies the ungodly, his faith is reckoned as righteousness.

<sup>6</sup>So also David pronounces a blessing upon the man to whom God reckons righteousness apart from the works:

<sup>7</sup>"Blessed are those whose iniquities are forgiven, and whose sins are covered;

<sup>8</sup>blessed is the man against whom the Lord will not reckon his sin."

<sup>9</sup> Is this blessing pronounced only upon the circumcised, or also upon the uncircumcised ? We say that faith was reckoned to Abraham as righteousness. <sup>10</sup>How then was it reckoned to him ? Was it before or after he had been circumcised ? It was not after, but before he was circumcised. <sup>11</sup> He received circumcision as a sign or seal of the righteousness which he had by faith while he was still uncircumcised.

As background to these verses you should know that the Jews were circumcised as children as a sign of their covenant with God. This practice began with

Moses and the Jews considered the "uncircumcised" as heathen, not having a relationship with God. Unfortunately, many of the Jews looked at the circumcision itself as the indicator of a person's relationship to God, when it was only a sign of the fact that the person had committed themselves to God. The "boasting" that is referred to was based on the Jews circumcision. They "boasted" that they were righteous before God, because they were circumcised. People do the same thing today. We "boast" of sorts because we go to church every Sunday, were baptized, had communion, etc. If we stand on these "works" as a basis for our relationship with God, we are doing what the Jews did with circumcision. God looks at our what is in our heart, not what we do. The issue here is what comes first. If we stand on what we "do" first as indicative of our righteousness we are wrong. If we believe in our hearts first, then our works will come out of that belief. God does not say that we should sit around and have faith without doing (faith without works is dead), however the works should come out of our faith, not vice versa. There has been alot of misunderstanding of this principle. It is not a matter of faith OR works, both must be present, it is just that God is stating here that the faith must precede the works. This belief, or faith in what God has said is the basis for our righteousness, not our "works". Chapter 4 explains this, relating the fact that Abraham .."believed God (faith) and it was reckoned to him as righteousness" before he was circumcised. God forgives our sins, which makes us righteous in his eyes, as a gift that we do not have to earn by doing something or acting "right". This gift is based on God's love for us, just as you might give a gift to someone you love, not requiring them to do something to receive it. God hence gives EVERYONE the opportunity to be saved. Accept this gift, by faith. God bless you all.

## INDEX

NEWS/ UPDATES .....	1
CES HIGHLIGHTS .....	4
PUBLIC DOMAIN .....	4
WORKSHOP (BEGINNERS BASIC) .....	5
WORKSHOP (SMARTBASIC).....	6
WORKSHOP (CP/M 2.2) .....	7
REVIEWS .....	8
PROOFREADER, SHOWOFF II, MEDIA-AID PLUS, SMARTTYPE 2, MEGACOPY, BASIC SYSTEM MGR/ FASTRUN 3.0, HERO, DOTS PERFECT	
SEGA UPDATES .....	16
PRODUCT LIST .....	17
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## NIAD NEWS/ UPDATES

There is so much going on, that I don't know where to start !

**DON'T FORGET** this will be the last issue until early AUGUST at which time you will receive a combined July/August issue. We have gone to 10 issues a year (two combined issues - July/August and December/ January, to preclude raising the annual subscription price.

We have reviews of some great new software products in this issue - ADAM now has it's own SPELLING CHECKER for all us bad spellers (or if you like bad typists) ! PROOFREADER has been released and I think you'll like it. It is a high quality product from Startegic Software. You SMARTWriter users will be pleased to know that there is a program now available that fixes some of the bugs and adds some great features, especially if you have a dot matrix printer.

**ADAM DISK DRIVES** are available in quantity !!! Yes, just when we thought they were gone forever they're back. These are new or factory refurbished units and carry the Coleco 90 day warranty. We have filled all the orders for those of you that have been on our waiting list and are now accepting new orders. The many of you that have patiently waited for a disk drive can now have one.

We bought a bunch of ADAMLink Modems at a good price and will run a special until they're gone - \$49.95. A modem will allow you to use your ADAM to connect to other computers and large bulletin board systems such as CompuServe.

### . ANNOUNCEMENTS

- Well, we've stepped out in faith and are opening a retail store here in Lisle. This will be the only Coleco ADAM retail outlet in the country as far as we know ! All of you in the Chicago area are invited to our grand opening, which will be

sometime in mid July (you'll receive a flier on this in early July). We are still finalizing the store layout and what products we will carry other than ADAM and SEGA. We will be carrying software and supplies for other computers and will carry at least one additional computer, probably one of the PC compatibles. We're very excited about this and hope you are too.

You won't notice any difference as far as order processing, etc. The P.O. Box and telephone number will remain the same. You'll start seeing the name CompuKingdom which will be the new retail name. We would appreciate your prayers and support for this new venture.

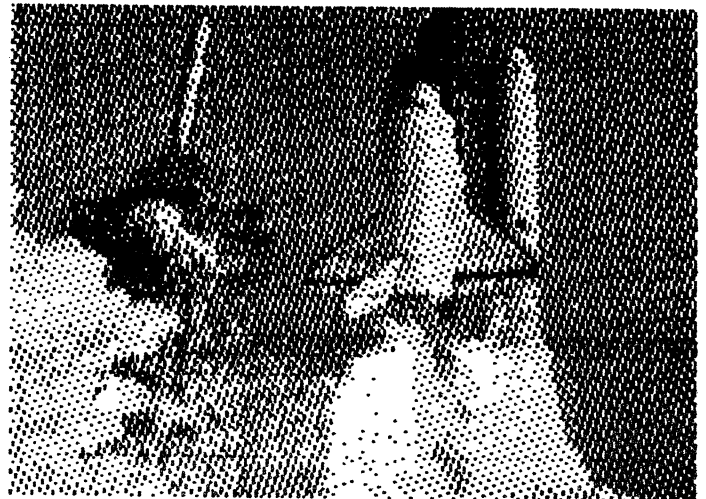
- Chicago local meetings will be discontinued for the months of June and July due to vacations, etc. We'll resume again in August, the second Thursday at the CompuKingdom store. Don't forget to notify us if you want to be on our special mailing list for receiving reminders about the Chicago local meetings.

- We're changing the technical call in times. Saturday AM does not seem to be a good time, especially during the summer. Effective June 16th technical call in will be Tuesday evening from 7:00 PM to 10:00PM central time. Remember technical call in time is reserved for technical questions and problems.

- See last months issue for information on a new Public Domain library that Lee Smith is running for RLE picture files. There are over 50 pictures in these three volumes.

- John Moerch is now our Pinball Games public domain librarian. These games have really caught on (you need to have the Pinball Construction set program to play them). See the Public Domain workshop for details.

- We have updated the PD list with the new volumes. Send in a SASE if you would like the new one.



## . HARDWARE

- As mentioned, we have plenty of Coleco disk drives available. However, we have been told (I think this happened before) that this is the last batch !
- Modems are also in plentiful supply.
- See our review in this issue of MEGACOPY, a hardware/ software device for formatting audio tapes so they can be used on the ADAM.
- Orphanware has reduced the price of their external 1200 baud modem to \$169.95. Software is supplied to run the modem only under the CP/M operating system.
- Orphanware now has available a serial only interface that plugs into the expansion port on the right of the ADAM console. Price is \$75.
- We will have a review in the July/ August issue of Orphanware's new 256k memory expander (usable in CP/M 2.2 only).

## . SOFTWARE

- PROOFREADER is now available. This ADAM SPELL checker is reviewed in this issue.
- SHOWOFF II is a great program from Digital Express that adds many improvements to SMARTWriter, especially if you have a dot matrix printer. See our review in this issue.
- We finally have the review for BASIC SYSTEMS MANAGER/ FASTRUN in this issue (we failed to print it in the last issue). This program is designed to help the novice use SMARTBasic without having to know all the commands, syntax, etc.
- Walter's Software has updated their fine MEDIA - AID program to MA PLUS. We have a review in this issue, covering this comprehensive set of utilities written in SMARTBasic. If you already own MEDIA - AID, you may receive the new version by sending in your original disk/ tape and \$7.50 to Walter's Software. A new manual is supplied as well.
- Walter's has also upgraded their recently released RAMDISK product so that the 64K memory expander is not initialized when you boot RAMDISK. This will allow you to store something in the 64K, leave SMARTBasic, run another program (as long as it doesn't use the 64K expander), return to RAMDISK and load whatever program you originally stored in the 64K. This makes it even more useful for storing utilities in the 64K with RAMDISK. If you have already purchased RAMDISK you may receive the updated version by sending your RAMDISK tape/ disk and \$2.50 to Walter's Software  
RD#4 Box 289-A  
Titusville, PA 16354
- See our review of SMARTTYPE 2 in this issue.
- Mr. T software has released BASICAIDE 2.0, an upgrade to their original BASICAIDE program. This program has even more shortcuts and enhancements for the intermediate/ advanced Basic programmer.

We will be shipping BASICAIDE 2.0 instead of version 1.0 for any future orders (actually as of 6/6). If you purchased version 1.0, send in your original disk/ tape and \$2.50 to NIAD to receive the new version.

- Walter's is near completion of a new program, LIBRARIAN, which will create a SMARTFiler data base by cataloging your tapes/ disks. We will review in the July/August combined issue.
- Digital Express is working on SUPERFONT, a program to create and print custom fonts. We will review in the next issue.
- Dan Pease is working on a Bible JEOPARDY question pack that looks great.
- Tim Nunes informed us that there is a new ADAM CP/M 2.2 program called RIGHT HAND MAN that is fantastic. It is a CP/M version of the popular SIDEKICK program. We will try to do a review on this in the next issue. It is available from Elliam Associates, 6101 Kentland Ave, Woodland Hills, CA 91367 (818) 348-4278. Price is \$49.95.
- Tim also stated that there is a new, improved version of the ADAM CP/M 2.2 command processor on the CompuServe CLUB forum. This program, done by Tony Morhan, adds many significant improvements to the ADAM CCP.

## . ITEMS OF INTEREST

- More new ADAM BBS' are on the air:
  - . FREENET, sponsored by Case Western Reserve Univ in Ohio (216)-368-3888. Get to the ADAM SIG by entering "GO ADAM". The board is a very popular one supporting various computers. It is free and you can get into all areas without an ID, but you must register and get an ID if you want to post messages. Contact the ADAM sysop, Herman Mason or co-syops Nick Poulus and Mark Leair for more information. Up 24 hrs.
  - . The BOARD is up and running better then ever say Tim Rengers & Rob Thomas. Many exciting Basic, CP/M, RLE and text files. (513-489-0018), 24 hrs.
  - . THE BOARD II in Ohio (606)-341-6850. Using RBBS 38A (on an ADAM I assume). Up 24 hrs.
  - . Keith Marner, a NIAD member in England and the head of the UK ADAM Subscribers User Group, called to inform us of an ADAM compatible BBS in the UK. This BBS is up from 12 Midnite UK time (6 PM Chicago time) until 8 AM UK time. The number in the UK for our English members is 482-859169. To dial from the US, get the international line and dial 44 for England and then the number. Keith also reported that he was recently on the Chatanooga BBS and was impressed with it. John Lingrel of Orphanware "stopped by" to see Keith and some of the ADAM group members recently. JOHN demoed his 80 column video unit for them.
- The June issue of Family Computing has a good article comparing the Genie and CompuServe

information systems (accessed via modems).

- There are some individuals out there that are running scams by promising hard to find ADAM hardware and software at cheap prices. They promise and deliver certain items, convincing the buyer they are legitimate and then do not deliver on a large order. Watch out for anything like this. Some are using NIAD as a reference. Contact us if this occurs.

- John Keller reports that he added a printer buffer interface between his ADAM and dot matrix printer. These buffers "hold" the data to be printed until the printer is done, freeing the ADAM up to go on to other tasks while the printer continues. John built a Heathkit model SK-203 and is very satisfied with it.

- Frank P. Rovello writes..."I have found a problem with using Orphanware's FASTPATCH and Walter's RAMDISK. Both programs overlay operating system code and are incompatible."

- Roger Kish has EOS and SMARTWriter ROMS for sale. These are for IC's U20, U21, U22 in the ADAM. Cost is \$8 each plus \$1 shipping. Order from R. Kish, 1175 Whispering Pines Dr, Scotts Valley, CA 95066.

- For sale, AMAZING BUMPMAN and SKIING cartridges, \$29 each - Frank Rovello, 92 Hayestown Rd, Danbury, CT 06811

- W. Craig Westlake writes... "I'm sending in a SMARTfiler tape for correction but wonder why no one ever comments on SMART LETTERS & FORMS. Every time I have used this program it erases what I entered when I try to print or save it !"

"Also, I tried ordering the "C" language from a company and they need to know what CP/M format I wanted it on - Kaypro, Apple, etc."

In answer to your questions, I have not had much experience with LETTERS & FORMS, but I'm sure some NIAD members have used it extensively. Please write to NIAD with any information you have on this program. Your second question about CP/M formats is a good one. Elliam Associates (address above in SOFTWARE section) will convert any CP/M format to an ADAM CP/M disk format for \$5 (I think, check on the price). However, this does not mean that the CP/M program will run on the ADAM if it was written for a specific computer. Most "generic" CP/M programs will run with no problems, however (as evidenced by our library of 32 CP/M volumes).

- For sale, many hard to find Coleco cartridges.

Contact:

John Jurkowski, 34 Parker St, Indian Orchard, MA 01151

Paul Morel, 320 Powerline Rd, New Smyrna Beach, FL 32069

- Jose Dieppa writes.. " I am including a copy of a spanish Alphadet that I made myself for the Eve Speech synthesizer. Note thats how the letters

sound alone. Hope you published for all the Latin Adamites."

A=24,3,24,24

B=28,3,28,7,7

C=55,3,55,55,7,7

D=33,3,33,7,7

E=7,3,7,7,7

F=7,3,7,7,40,40,7,7

G=27,27,27,7,7,7

H=24,3,24,24,50,50,7,7

I=19,19,19

J=57,57,23,23,3,13,24,24

K=8,8,8,24,24

L=7,3,7,7,7,33,45,45,7,7

M=7,3,7,7,7,3,16,16,7,7

N=7,37,7,7,11,11,11,7,7

O=53,53,53

P=9,9,9,7,7

Q=42,42,31

R=7,3,7,7,7,2,14,14,7,7

S=7,3,7,7,7,55,55,7,7

T=17,17,17,7,7

U=22,3,22,22

V=28,3,28,7,7

W=18,33,53,53,2,28,4,5,7,7,4,22,22

X=7,3,7,7,7,42,19,55,55

Y=19,2,19,19,3,1,61,34,36,39,39,19,7,7,3,36,24,2,24

Z=55,3,55,55,7,7,17,17,24,24

EXAMPLE HOLA(means hello)=53,53,1,45,45,24,24

- C. Pickelhaupt writes "I am just writing this quick note to thank you whole-heartedly for what you have done for the ADAM community. Not only have you created this (inter) national support group, but you also have created a sense of comradery between ADAM owners. In fact, there was a time, after Coleco bailed out and before I found you, that I embarassed to own an ADAM. But, you have shown me the light, and now not only am I happy to own my computer, I am proud."

Thanks, Chuck for the nice comments...Lyle

- Stan Wong writes "First of all, let's consider what is happening with ADAM. Hey, I'm really confused! Sure, I knew that we were headed for trouble when Coleco abandoned us, but it seemed that things were looking up with all sorts of peripherals and software springing up. Your newsletter in particular always filled me with a feeling of hope that our little system was actually growing and that big things were on the horizon. But what's happening now? Darrell Sage seems to forecast doom and gloom in ECN even through he is continuing to publish and support ADAM. I keep hearing that software sales are down (but hey, I only have so much money to spend, guy's!). AUG has bit the dust and has vanished from the scene. KAUG has perished, too. So what's the verdict? Is ADAM definitely on the

decline or are we on the verge of a breakthrough? I've spent a great deal of money on peripherals and software...was it all for nothing? Things were really looking good, but now the future seems obscured in a fog of uncertainty."

Stan, I can only provide what I see as the picture. Everyone wrote the ADAM off last year as "dead, but not yet buried". I guess they were wrong since it is stronger then ever at this point. You're correct in that there is some "weeding out" among the user groups, but this is to be expected for any computer that is going on 4 years old. The fact is that there are still plenty of good support groups and outlets for hardware, software and supplies. Look at the number of high quality software products that have been released in the last year, or even just the last 6 months. No, the ADAM is still **ALIVE AND WELL.**

### CONSUMER ELECTRONICS SHOW

Wayne and I spent some time at the Chicago CES which ran from May 30 through June 2. This is traditionally the largest electronics oriented show in the world (the winter show in Las Vegas doesn't draw like the Chicago summer show). This show was not as well attended this year because the Comdex computer show in Atlanta was going on at the same time. This was unfortunate because some of the exhibitors, like Commodore, decided to show at Comdex and not at the CES. In any case, these shows are neat because the exhibitors bring out new products that will be available by Christmas and there are many retail buyers who place high orders at the show.

PC compatibles, oriented to the home/ small business user, were plentiful. Epson, Blue Chip and Amstrad were the feature ones. I liked the Amstrad because it comes packaged with Digital Research's GEM operating system which is much easier to use then the MSDOS operating system that accompanies most PC compatibles. MSDOS is very similar to CP/M as far as user commands and general operation are concerned. Hence, like CP/M it is not user friendly and tough to use for a first time computer user. The Amstrad system has coined the phrase "Family Friendly System" (remember the Coleco phrase "Family Computer System") and comes with the GEM operating system, a high resolution painting program, Basic, a word processing package and a mouse.

Atari was there with all their systems, both game and computer. They're introducing a new game system, which doesn't make much sense with Sega and Nintendo out there.

Both Sega and Nintendo were there in force, with many new games. Nintendo brought all their third

party software developers, so they had tons of games to display (almost too many to choose from, like the old Atari 2600 days). Sega had their new 3D glasses on display with a great Missile Defense game that uses the laser gun. These new games will be the wave of the future if they get the prices to a reasonable level. This adds an additional perspective to these already great games that is impossible to describe.

The new Commodore Amigas were announced at the Comdex. The Amiga 500, priced at about \$650 will bring the fantastic color graphics and stereo sound of this system to the home buyer level. The Amiga 2000 is geared for business since it will allow the running of PC programs as well as Amiga programs.

All in all it was a fun show.

### PUBLIC DOMAIN WORKSHOP

Below is a listing of our Basic PD volume # BNDV20. This volume contains some great programs including a data base, 2 block directory creator, graphics puzzles, music and much more. Read the doc file first and then run the CROLONSREV program - it is absolutely fantastic. Dale Metcalf created this graphics and sound masterpiece. Bob Tarnowski has outdone himself in putting together this volume.

As mentioned last month, we now have a RLE picture file library as well.

John Moerch has volunteered to be the NIAD Pinball Games librarian. Send a Pinball game to him with a return mailer and postage and request one of our two Pinball PD volumes.

J. Moerch, 2616 Hermosa Ave, Montrose, CA 91020

```
***   *** NIAD PUBLIC DOMAIN ***   ***
***   *** BASIC VOLUME #20   ***   ***
***** PROGRAM DESCRIPTIONS *****
***   by Bob Tarnowski   ***
```

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NOTE: Files with CAPITAL letters cannot be RUN directly from Basic. These files, as noted, are documentation files, systems files, or files that were BSAVED in machine code. Doc files are read via SmartWRITER. To run machine coded files in Basic, enter BRUN <filename>. This media also contains a HELLO program that BRUNS the the program menu.

- \* MENU - Displays and runs the programs on this media. Enter RUN HELLO or BRUN MENU.
- \* alphapuzzl - Rearrange the alphabet in this colorful game or let ADAM solve it for you.
- \* hi-q - A "not so easy" graphic game of strategy for one player.

- \* CROLONSREV - Extremely well done hi-res graphic display set to classical music. Listen to the entire song and watch what happens. This program is BRUN - see DOCFILE.
- \* NOTAB - A system file for CROLONSREV.
- \* BRDSng - A system file containing the song data for CROLONSREV.
- \* MLC1 - A machine language file for CROLONSREV.
- \* BI-CON - Same as above.
- \* CROLDATA - Contains the data for the graphic displays in CROLONSREV.
- \* MR.MUMAK - This is the program that was used to create the song in CROLONSREV. Take time to learn how to use it - results are great. This program must be BRUN. See DOCFILE first!
- \* NOTECHART - Use the W/P to print a note table for use with MR.MUMAK.
- \* USARACE - Pick your favorite car and race across the USA. BRUN USARACE. See DOCFILE.
- \* boldface - Demonstrates the routines for reverse printing within your programs.
- \* hex-dec - Nice utility to convert hex values to decimal. Terrific print routine.
- \* initutil - Create multiple block directories when you INIT your tapes and disks. See DOCFILE.
- \* CATERPILLR - Avoid the spiders and walls to gain points. BRUN CATERPILLR. See DOCFILE.
- \* CATER-RVNG - The caterpillar above gets his revenge in this game> BRUN CATER-RVNG. DOCFILE.
- \* COPY - A 20K block copy utility for backups or copying SmartBASIC. BRUN COPY. See DOCFILE.
- \* rnd-sqrs - Graphic design demonstration program.
- \* USA - Great hi-res drawing of the USA.
- \* ADAMBASE - Not quite dBase but a good database for the ADAM. Up to 40 fields. BRUN ADAMBASE but see the DOCFILE before running.
- \* MORSECODE - Practice and create messages in Morse code. BRUN MORSECODE.
- \* HURDLE - Graphic animation game - jump the hurdles for points. BRUN HURDLE.
- \* SNAKER - Challenging graphic game really tests your dexterity and patience. BRUN SNAKER.
- \* fractal - Plots a landscape in hi-res.
- \* birthlist - Handy program to record, save and print birthday lists or important dates.
- \* ssbanner - All stand and sing the Star Spangled Banner to this ADAM tune.
- \* COBRA - Another good game with a challenge has you controlling a growing snake in pursuit of little white mice. BRUN COBRA. See DOCFILE.

## BEGINNER'S BASIC WORKSHOP

### CREATING LARGE TEXT By B. Lennes

ADAM has a built-in font used by many of its software programs. The following Basic program uses the font in VRAM to create giant sized letters on the HGR screen. It would be very easy

to use GR mode too, but I'll leave that up to you. A more challenging possibility would be to use machine language to actually write to the VRAM, setting the pixels as necessary.

-Line 1107 sets the variable that decides how many of the eight bits width to plot, for regular characters and numbers you only need to plot 7.

-Lines 1110 to 1130 installs ML to read VRAM.

-Lines 1140 to 1240 installs ML to convert one byte to eight bytes of ones and zeroes -Lines 1300 to 1590 is the main loop that prints the characters on the screen.

-Line 1375 checks if the char. is 32 (blank space). If it is, then it erases all the hplots.

-Lines 1600 to the end is a special subroutine for illegal character numbers. If the character/number is less than one then the program ends. If it is greater than 255, then the hcolor and size can be changed.

```

1100 REM Giant Letters
1105 REM By Bob Lennes
1107 w% = 7: REM Width for letter
1110 REM ML to Read 8 Bytes from VRAM
1120 DATA 1,8,0,17,0,0,33,0,0,205,29,253,201
1130 FOR t = 10 TO 22: READ v%: POKE t, v%: NEXT t
1135 REM Create ML to convert base 10 to base 2
1140 DATA 33,70,0,62,0
1150 FOR t = 180 TO 184: READ v%: POKE t, v%: NEXT t
1160 v% = 127
1170 FOR t = 185 TO 241 STEP 8
1180 POKE t, 203: POKE t+1, v%: v% = v%-8
1190 POKE t+2, 204: POKE t+3, 80: POKE t+4, 0
1200 POKE t+5, 196: POKE t+6, 84: POKE t+7, 0
1210 NEXT t: POKE 249, 201
1220 DATA 6,0,24,2,6,1,112,35,201
1230 FOR t = 80 TO 88: READ v%: POKE t, v%: NEXT t
1240 REM End of Create ML for Convert
1290 HGR: HCOLOR = 7: REM Begin Main Loop
1295 VTAB 22: INPUT "Size?"; s%
1300 VTAB 22: INPUT "CHARACTER NUMBER?"; c%: IF c% >
255 OR c% < 1 THEN 1600
1305 INPUT "ROW,COL? "; r, c
1307 IF s%*8*r > 159 OR s%*w%*c > 255 THEN 1305
1310 a = 8*c%+52*256
1320 POKE 15, a/256: POKE 14, a-PEEK(15)*256
1330 CALL 10
1340 FOR bt = 0 TO 7
1350 POKE 184, PEEK(bt)
1360 CALL 180
1370 FOR t = 70 TO 69+w%
1375 IF c% = 32 THEN 1450
1380 IF PEEK(t) = 0 THEN 1480
1390 FOR x = 1 TO s%: FOR y = 1 TO s%: H PLOT c*w%*s%+
(t-70)*s%+x, r*8*s%+bt*s%+
y: NEXT y, x
1400 GOTO 1480
1450 HCOLOR = 0: FOR x = 1 TO s%: FOR y = 1 TO s%: H
PLOT c*8*s%+(t-70)*s%+x, r
*8*s%+bt*s%+y: NEXT y, x: HCOLOR = 7

```

```

1480 NEXT t
1490 NEXT bt
1590 GOTO 1300
1600 REM Sub for Special Data
1610 IF c% < 1 THEN HOME: PRINT " END": GOTO 9999
1620 VTAB 22: INPUT "Color (1-15)? "; v%: IF v% < 1 T
HEN 1300
1630 IF v% > 15 THEN 1620
1640 IF v% <> 4 THEN HCOLOR = v%
1650 GOTO 1295
9999 END

```

Here is a nice sound program given by Bob Tarnowski. It generates an explosion...

```

10 lmem:29000
20 for x=28000 to 28005
30 read x:poke x,z:next
40 data 58,102,109,211,255,201
50 gosub 9000
9000 rem #explosion#
9010 poke 28006,238:call 28000:poke 28006,240:call
28000
9020 for de=1 to 900:next
9030 for i=240 to 255:poke 28006,i:call 28000
9040 for de=1 to 250:next:next
9050 return

```

## SMARTBASIC WORKSHOP

Here is a great little program by Gregg Noblett (who is a super programmer) that will allow you to create 2 block directories. It also corrects SMARTBasic so the INIT command will correctly set the number of blocks is a disk is used (SMARTBasic isn't so smart, it assumes everything is on tape so if you catalog a disk that was initied with SB is will show 255 blocks instead of 160). Gregg has also included the assembly language for the routine that is patched into the INTI command by his Basic program.

Note the checksum routine Gregg uses to insure that all the data statements have been entered and read correctly. These routines should be included in all programs that have a lot of data statements because they are easy to make errors on.

```

1 GOSUB 1000
10 REM ** NEW 'INIT' ROUTINE **
15 t=0
20 FOR x=25289 TO 25353
25 READ v: POKE x,v
30 t=t+v: NEXT x
35 IF t<> 7253 THEN ?"CHECKSUM ERROR...check
data."
40 IF t=7253 THEN ?"CHECKSUM VERIFIED!": ?"INSTALL
SUCCESSFUL."

```

```

50 END
99 REM there should be 65 pieces of data (lines
100 - 210)
100 DATA 33,157,65,229,205
110 DATA 107,98,6,0,11,11
120 DATA 9,119,225,17,255
130 DATA 0,58,181,65,203,95
140 DATA 32,2,30,160,14,2
150 DATA 245,205,189,252,241
160 DATA 33,21,99,65,205,192
170 DATA 252,32,20,33,18,99
180 DATA 1,3,0,245,205,213
190 DATA 252,32,8,241,205
200 DATA 195,252,32,2,55,200
210 DATA 195,233,94
1000 HOME
1010 ?"This short program installs"
1020 ?"a new version of Smartbasic's"
1030 ?"'INIT' command. Once it is"
1040 ?"installed, 'INIT' will create"
1050 ?"two block directories instead"
1060 ?"of one block directories, and"
1070 ?"will automatically use the "
1080 ?"correct # of blocks for disks."
1090 ?"WARNING: previous pokes into"
1100 ?"the 'INIT' routine are NOT"
1110 ?"ALLOWED!!! It is NOT possible"
1120 ?"to create directories of "
1130 ?"one block, or more than two"
1140 ?"blocks using this new routine!"
1995 INPUT"INSTALL?":a$
2000 IF a$="Y" OR a$="YES" OR a$="y" OR a$="yes"
THEN HOME: RETURN
2001 FLASH: ?" ABORTED ": NORMAL: END

```

Of course, this patch is only temporary. It can be made permanent, by using one of the utilities already available for patching Smartbasic (As I have already done). EDITOR'S NOTE: basicmodif and diskdoctor can be used to make these changes permanent.

## CP/M 2.2 WORKSHOP

As mentioned, we will have a review of Orphanware's new 256K memory expander in the July/August issue. See last months and this months SOFTWARE section for some information on new ADAM CP/M commercial programs.

Sharon McFarlane is doing a super job as our new CP/M 2.2 librarian. She has put many hours into writing high quality doc files for the last 15 PD volumes. She is adding some great new programs to our PD library. Thanks, Sharon, from all of us.

### NIAD CP/M PUBLIC DOMAIN DISK #24 By S. McFarlane

Note that this entire disk has been SMARTKey configured so that the COMPARE/ FINDBAD programs. Although other files have been placed on this disk, these two programs should be transferred to another storage media. Also, in order to properly execute COMPARE/ FINDBAD, two disk drives as well as the 64K memory expander are required.

**COMPARE/ FINDBAD** - These utilities will compare two files (ASCII or binary) to insure they are identical and will also test a disk for bad blocks. The compare utilities are first loaded into the 64K ram disk (M:) by pressing SMARTKeys I/ II. After the files are loaded, and the program disk removed, press SMARTKey V (binary) or SMARTKey VI (ASCII) then <filename1.ext> B: <Filename2.Ext> will then invoke the COMPARE command. Both COMPARE utilities will verify that the files are in fact identical -or- provide a Hex printout of any differences found & location in the file.

The 2 remaining files in this program, FINDBAD (SmartKey IV) & BADLIM (SmartKey III) test a disk in Drive B: for bad blocks & will then check to see if any files on the disk are using any of the bad blocks found. DOC file included.

**CERTIFY.COM/DOC** - A Disk Certification & Utility program, CERTIFY is primarily Menu driven with adequate on-line help. Besides displaying the normal disk parameters, CERTIFY will display a file in Hex/ASCII; Read a disk & report errors; Print the Directory with or without Block Numbers; or Log bad blocks in the Directory. A useful utility for CP/M programmers. DOC file included.

**FIP.COM/DOC** - FIP is a powerful file interchange program that contains many impressive features & to some extent replaces PIP, STAT & DUMP. Once a commercial software package, FIP was released into the public domain as of July 31, 1985. FIP allows file transfers; Provides detailed disk characteristic summaries; Provides a detailed disk file summary of any/all files in any User area & remaining free storage; Allows any 2

files to be compared & optionally displays any differences in Hex/ASCII format with location; Accepts wildcards in all filenames; Allows file attribute changes on a prompted file-by-file basis or any specified set of files automatically; Allows deleted directory entries to be displayed; Allows printer logging of all file operations; Minimizes the available memory space by dividing all of the available memory between directory entries & file buffer areas thereby enabling high speed file transfers/comparisons. An absolute "must have" program for all CP/M Users! A very comprehensive 36 page DOC file is included.

**NULU15.LBR** - This is the latest version of NULU, a complete replacement for the LU & NSWP utilities incorporating all of the features of these programs & then some. Several bugs found in NULU11 have been corrected. NULU features: 2 operation modes with on-line Menus; LU style CRC support & verification; Viewing & printing of all member/disk files, unsqueezing when necessary; Extraction of member files with an option to unsqueeze where appropriate; Automatic member sorting; Faster reorganization; Enhanced error handling; Swapped disk handling; Automatic self-verification; Access to deleted members; Access to read/only libraries; Wildcard library processing; Optional read/only patch; General compatibility with LU & NSWEEP syntax; & numerous user patches. This Library is another "must have" tool for the CP/M Collector. A 23 page DOC file outlining any/all aspects of NULU's operations is included.

### NIAD CP/M PUBLIC DOMAIN DISK #25 By S. McFarlane

**DASM.LBR** - Version 1.5 DASM is a TDL/ZILOG Disassembler derived from Dave Barker's ZZSOURCE & Ward Christensen's RESOURCE by Richard Conn. At this point in time there is no documentation for this program, although a HELP file is planned for in the near future. However, the documentation provided with RESOURCE & the built-in HELP data will provide the User with sufficient information re the command structure used in DASM.

**MAKE.COM/DOC** - An extremely useful utility that will transfer any CP/M file between User areas on the storage medium - without duplicating the file! MAKE simply changes the filename's status in the directory to reflect the new USER number. Large directories can be easily organized by designating specific USER areas for specific applications. As there is no file duplication, several User Group Volumes could be stored on the same medium. MAKE allows segregation of volumes under different USER numbers, providing for the copying of several volumes without the necessity of ERasing unwanted volumes after copying. The syntax is: MAKE <Filename.Ext> 3. The selected



file is then moved to USER area #3. Ambiguous filenames/types are allowed for all operations. MAKE defaults to searching only the current USER area for file matches to move to the newly assigned USER area. A quick & easy way to sort out a cluttered directory! DOC file included.

**SCLIB.COM** - Version 2.1 Edit 65. Small-MAC Library Manager for experienced programmers No documentation.

**BCLNK.COM** - Version 2.1 Edit 65. Small-MAC Linkage Editor for experienced programmers only. No documentation.

**BCMAC.COM** - Version 2.1 Edit 65. Small-MAC Assembler for experienced programmers only. No documentation.

**NIAD CP/M PUBLIC DOMAIN DISK #26**  
By S. McFarlane

**NOTEPAD.LBR** - A program designed to provide an easy way to create, modify, store & print short notes with minimum effort. Notes can be used to create on-line documentation for disk files, or to simply jot down ideas and/or lists. Notes can be up to 20 lines long & a directory listing is kept of all notes saved to disk as well as the date that they were last saved. Editing is very easy, as all 4 Cursor keys & several Control keys are defined. The program is Menu driven with the following command syntax: <F> Find Note; <N> Start New Note; <Z> Discard Note; <D> Display Note; & <R> Rename Note. Use CONFIG to define the ARROW Keys & activate the INSERT/DELETE/STORE-GET & PRINT Keys as outlined in the DOC file. Once configured to ADAM, the program is extremely easy to execute. DOC file included.

**SW80.COM/DOC** - Release 1.2 ScreenWright is a Professional Screenplay Formatter, specifically designed for screenplays & teleplays. Special care has been taken to keep ScreenWright simple to use & a comprehensive Instruction Manual as well as sample programs are included in this library collection. To use ScreenWright, type & format a screenplay using almost any standard CP/M text editor such as WordStar, Perfect Writer etc. Word processing for screenplays is quite different than word processing for many other types of writing, in that an unusual & rather inflexible format is required by the film & television industries. ScreenWright is designed to handle these requirements quickly & easily. A screenplay should be viewed as being made up of only a handful of basic elements: 1> Numbers for new scenes; 2> Directions & other descriptive matter, including settings/lighting/action etc.; 3> Names of characters; 4> Speeches of various characters; 5> Parenthetical or descriptive remarks about a speech; & 6> Camera angle. Mark the beginning of

each of these sections in the text & insert the appropriate command as outlined in the Instruction Manual. The script will then be reformatted in perfect screenplay format. It's that easy! Although this program was written primarily for the pros, many teachers & students have found it to be invaluable with regard to amateur School & Church productions.

## REVIEWS

### PROOFREADER By L. Marschand

Well, us poor spellers (who me) finally have a spell checker for our ADAMs!!!!!!!!!!!!

Yes, Strategic Software has completed PROOFREADER (PR) for the ADAM. This is a full function spelling checker that will check SMARTWriter, MULTIWRITE and any ASCII data file formats against a dictionary file of up to approximately 7000 words.

PR is written entirely in machine language (no SMARTBasic) for speed and performance. The program and a built in 5400 word dictionary (you can add about 1600 additional words to the dictionary that comes with PF) loads from tape in about 1 minute 45 seconds. This program is copy protected to prevent illegal duplication, which will also prevent the owner from making a backup copy or a diskette version. Strategic has added this copy protection feature due to the rampant software pirating that has occurred in the ADAM arena. It is unfortunate, because it will be inconvenient for those who need legitimate backup copies.

The PR product contains a spell checker program, a set of utilities for maintaining the dictionary and a dictionary file of 5400 of the most commonly used words. After PR is loaded the following menu items are available:

1. Load Dictionary - You can load any dictionary previously saved by PR. Hence, you can create multiple dictionaries depending on the types of documents you want to edit. These dictionaries can be saved to other tapes or diskettes for more convenient access. The master PR tape will automatically load the dictionary file that it contains, but when you load another dictionary this one is overlayed with the new dictionary. The PR program and the entire dictionary are retained in memory at all times.
2. Save Dictionary - Takes the current dictionary in memory and writes it to a tape/ disk. The current dictionary in memory will contain the words in the original dictionary you loaded plus whatever words you have added during your session.
3. Spell Check - This is the heart of PR. A catalog of the files on the drive you select is

displayed and you select the document you want to spell check. PR reads in one block of data (about 200 - 300 words) and compares them one at a time to the dictionary in memory. If it finds one that does not match, it is displayed and with up to nine alternative words to choose from. These alternatives are ones that are calculated by a complex algorithm to be the most likely ones to choose from. Obviously proper names, places and things will not get a match in the dictionary supplied with PR. However, any proper words that you commonly use can be added to the dictionary (see below). Although 5400 words seem alot, there are many that are not in the dictionary. Startegic has supplied the most commonly used words in their dictionary to make the best use of the limited number of words possible.

I was amazed at how fast PR checks a file of words and displays those that are not in the dictionary. Once a word is displayed and the nine alternatives given, you have the choice of continuing to scan the document, adding the word to the dictionary in memory, selecting one of the alternative words displayed (by just entering the number of the word), entering a word to substitute or aborting the spell check. I found that if the document I was checking contains some proper names or special words, I could add them at the first occurence, resulting in them matching on each subsequent occurence. You are given the option to save the dictionary in memory after the spell check process is over (with the words you added during the process). Most of the words displayed you will bypass because they are not in the dictionary. This is not really a problem because PR checks and displays the words so quickly.

When PR is done checking the document a complete new version of the entire document containing any changed words is written to disk/ tape.

4. Add Words can be done in two ways. The easiest is by using an existing file (SMARTWriter document or any ASCII data file) that contains words you want to add. PR will check each word and add any that are not already in the dictionary. The second method is to add individual words manually, one by one.

There is a file on the PR program tape that should be used to create a dictionary from scratch. This file contains only one word, but is formatted to be a dictionary that PR can use. You would load in this file and add words to it, then save it under whatever name you want.

5. Change/ Delete Words is used to alter words in the dictionary that is currently in memory. You enter the word or first few letters of the word and PR will display a word for you to change or delete.

6. Exit - Options are to go to SMARTWriter or return to PR.

PR is a great addition to your ADAM software library if you do any amount of correspondence and you're bless then perfect at spelling/ typing. It is fast and although a 7000 word dictionary will not contain all the words needed to check any document, it will be more fullproof then proofing it yourself !

RATING - A+

### SHOWOFF II By W. Motel

Showoff II is the latest software package from Digital Express. It is a machine language Word Processor Enhancement to Smartwriter that allows you to use a dot matrix printer. It DOES NOT require BASIC, it DOES NOT require a seperate print driver, I.E., Fastpatch. IT DOES REQUIRE:

- An EPSON FX compatible printer with built in software for line justification (I.E. like the Panasonic KX series). This is due to the printer commands generated. - A standard Parallel cable for connection
- Centronics parallel interface
- 64K Memory Expander

The EPSON FX compatability is due the printer commands it generates. We talked last month about line justification commands and their use thru WAM0drive. Showoff II generates these and other printer commands that the printer must recognize. If you do not have a compatible printer, you cannot use this package, since your printer may not recognize all the commands.

Secondly, you need the 64K memory expander. Showoff II takes SMARTWriter and actually "Modifies" the code. Since SMARTWriter is in Read Only Memory, Showoff II writes the modified code, along with other code into standard memory. The 64K expansion memory is used for the storing of the actual word processing document text.

Upon load of the software, you are presented with a title screen, with 5 options.

1. Change Drives
2. Exit to WPR
3. Rename file
4. Rename volume
5. Delete file

All options, except 2 (exit to word processor) are your normal file/media utility options. Option 4 (Rename Volume) lets you change the volume name or initialize the directory. If you select INIT, you can initialize with 1, 2, or 3 directory blocks, which allow you room for 35, 74, or 113 file names. If you init a disk, you can do single or double sided drives. These are great utilities for SMARTWriter files that make this a more comprehensive and useful product.

Option 2, Exit to WPR exits you to the

This is a sample document done using SHOWOFF II. You can Underline, do *It alics*, **SUPERSCRIPT**, or **subscripts**.

You can easily

CENTER

or RightJustify.

Left

You can even do autojustification, which tries to even the lines out between your margins.

Pica pitch, Elitepitch, Compressed pitch, Semi compressed, and **WIDE PRINT** is available as well as **PROPORTIONAL** print.

We can switch to letter quality

Enhanced Smartwriter called WriterMate.

Besides the dot-matrix printer access, WriteMate enhances Smartwriter as follows:

- Correct text screen left offset problem.
- Eliminates Smartwriter CLEAR WORKSPACE sporadic lockup problem.

- Changes the Screen Option color scheme
- Message window is now light red. The SmartKey Roman numerals are black on white.

- Selectively Lock only the Alpha keys (boy is this a great addition and time saver)

- Added commands to allow you to scroll up or down 5 screens at a time (in addition to normal scrolling).

- Allow you to use special characters (I.E. \$, %, \*) in filenames.

In themselves, these are great additions to SMARTWRITER, that make this fine wordprocessor that much better.

What does WriteMater give you for printer access? You have 32 commands that you can embed in your text document. When created/printed thru WriteMate, these are converted into the appropriate EPSON FX type commands. This is basically comparable to how you would normally do a word-processor document. The reason they probably limited the program to EPSON FX compatability is that most printers have followed the Epson standard control codes to some degree and SHOWOFF only supports these control codes. Most of the embedded commands start with the backslash (\) followed by the appropriate command symbol.

Available pitch commands:

Pica 10 Char/Inch

Elite 12 CPI

Compressed 17 CPI

Semi-Compressed 15 CPI

Double Wide (any of the above pitches)

Proportional (only with pica, letters do not all take up same space I less than S)

Character intensity:

Letter quality, Boldface or Emphasized.

Line Justification (left assumed):

Left, Right, Center, or Auto

Misc. features and functions:

Underline, Italic, Subscript, or Superscript

Forced form feed

Forced carriage return

Printer reset (quick reset to printer default)

Left and Right margin setting (within your document. Change as much as you want.)

Line spacing. As with the margins, change in your document, in values of n/72.)

The manual that comes with the software covers all of the commands, give you tips and restrictions and even a start up procedure. They are quite honest in discussing the limitations and restrictions when using Showoff II. In all fairness, you will need to get a little used to using it, as it is a little different than what you are used to with normal smartwriter, BUT most of this is in the use of the new commands and use or non-use of normal Smartwriter carriage returns. However, it is well worth the time and effort when you see the documents that you can produce. This is well worth the relative low cost. WELL RECOMMENDED A+

NOTE: There are now three versions of SHOWOFF - SHOWOFF II supports Epson compatible printers that have built in software for line justification (like the Panasonic KX series - 1080I, 1091I). SHOWOFF IIA supports Epson compatible printers that DO NOT have built in software for line justification. All features described above except line justification will work. SHOWOFF IIB does not support any dot martix printer, only the ADAM printer. All the SMARTWRITER enhancements are included in this version for those that do not have a dot matrix printer.

See the sample document I did. This will point out many of the nice things you can do with it.

## MEDIA-AID PLUS By L. Marschand

Walter's Software has developed a new, improved version of their MEDIA AID utility package.

MEDIA-AID PLUS contains all the same utilities as MEDIA-AID, with many additional features added.

### GENERAL

This program contains SMARTBasic and is self booting or you can run the HELLO program directly from Basic.

All the programs are Fastrun versions and hence load very fast. A menu is presented which allows you to select which of the MEDIA-AID PLUS programs you want to run.

A well written 12 page manual provides a description of each program and a list of the error messages generated by MEDIA-AID PLUS (many error checking routines have been added to protect the user). MEDIA-AID correctly supports both center and right directory tapes and the use of the 64K memory expander as a ram disk if you also have Walter's RAM DISK program. A nice feature is the ability to go back to the title screen by hitting "CONTROL-C" while in any program.

### PROGRAMS INCLUDED

MENU - A general purpose menu program for displaying any type A Basic program with options to either Load or Run the program from any drive.

MODIFIER - Allows the modifying of individual file attributes - lock, unlock, delete, change file date, change file type, undelete, rename.

COPY - A tape/ disk copy program for backing up your programs. Supports all devices as well as the 64K ram disk. Options include copying only the blocks used or all blocks on the source tape and the ability to correctly copy from/ to right directory Supergame tapes. Automatically corrects the total number of blocks left when copying between tape and disk.

MANAGER - Allows the copying of selective, individual files from one drive to another, including the 64K ram disk. This is a nice program for moving Basic or SMARTWriter files around your tapes/ disks and it also supports both center and right directory tapes.

TOOLKIT - This is a full fledged editing program. From 1-16 blocks of data can be loaded into memory for editing and subsequent writing back to tape/disk. Options for searching for a specific value of up to 4 bytes and filling the buffer with a value are also provided. Good facilities for moving forward and backwards in your buffer are provided. This program can also be used to copy individual blocks or ranges of blocks from one media to another.

PURGE - Used to get rid of deleted files, move active files to the "front" of the disk/ tape to make more room for additional files. This program

cleans both the catalog and the tape/ disk itself of previous deleted files and wasted space so you can get more on your media.

FORMAT - Used to format diskettes.

VERIFIER - This is neat little program that checks for any bad blocks on your tapes or disks. You can check all or a range of blocks. This is especially useful for checking tapes since a bad block on a tape can not be corrected and will prevent its use.

HMODIFY - Creates a type A file from machine code in memory. Used for sending data via modems.

HRECOVER - Used with HMODIFY to recreate the machine language file from the A file.

Walter's Software has designed MEDIA-AID PLUS to include all the utilities that the SMARTBasic hacker would need so they would never have to leave Basic to perform any of them. With the added advantage of using the 64K memory expander with the RAM DISK product to quickly store and retrieve files, this is a full function set of utilities including tape as well as file copying. By using the RAM DISK product you can copy all of the MEDIA-AID PLUS utilities into the 64K expander and load/run them from there when needed, making them "permanently" resident.

RATING - A+

## SMARTTYPE 2 By L. Marschand

Reedy Software has developed a new version of their SMARTTYPE program. Version 2 has some improvements that make it a product worth considering if you have some special printing format needs.

SMARTTYPE 2 is actually a word processing program, with limited functions as compared to SMARTWriter but containing some special printing enhancements that SMARTWriter does not provide. SMARTTYPE provides the following that is NOT supported by SMARTWriter:

- . Left/ right or full line justification (full line justification means that spaces are added in a line to make every line the same length as done in newspapers and magazines)
- . Automatic centering of a line
- . Two column printing
- . Support of printing on dot matrix printers
- . 40 column screen for text entry
- . On screen underlining

These features are primarily for specialized print formats. SMARTTYPE is not a full fledged word processor and is not designed to be a replacement for SMARTWriter, rather it provides specialized printing if you need it for certain documents. SMARTTYPE is written in SMARTBasic 1.0 and is

autoloading. The first option displayed is for the specification of line width, maximum is 79. You can select 38 which will optionally provide 2 column printing at print time. Only one line width per document is allowed.

SMARTTYPE displays 4 lines of text at a time on the screen. Functions are provided to quickly move to the start, end or a specified line in the file. You type in each line and must hit "return" to advance to the next line; there is no word wrap feature built in, if you are in the middle of a word you determine where to end the line. After entering a line you use the SMARTKeys to format the line - center, right or left justification, full justification. SMARTTYPE then redraws the line based on the format you selected.

The entry is easy, but slow since Basic must redraw the entire screen after you enter each line.

Once you have entered your document, you can save it as a file for later editing, etc. (NOTE: SMARTTYPE uses it's own files, it can NOT use or read SMARTWriter or any other file types). Printing is very easy. You can select which row to start and end with; what left margin to use (not used for 2 column printing) and what line spacing to use.

I liked the product but want to stress it is not a full function word processor, but rather a print formatter. The 2 column printing is very nice as is the full line justification. Personally, I would only use it for short documents because of the limited entry functions provided.

RATING - B

### MEGACOPY By L. Marschand

This is a device for formatting ADAM tapes directly on your ADAM using two tape drives. As most of you know, although the ADAM tapes look like regular audio cassette tapes they are special in two ways:

1. They have holes drilled in the two top corners on the back of the tape
2. They contain a special magnetic format which is required for ADAM to read them

MEGACOPY will place this special magnetic format on an audio tape (you need to drill the holes in the back of course). The only other method of making your own ADAM tapes is by using a dual head cassette stereo deck to copy an ADAM formatted tape to an audio tape.

MEGACOPY is both a hardware and software product. A "box" with 4 cables is connected between the ADAM and your second tape drive. This device has a push/pull switch that is left on "normal" when

not in use and on "format" when used to create an ADAM tape. You need to follow the instructions carefully to make sure you hook up the connectors correctly.

The software is provided on tape and is copy protected so you won't be able to make a backup. When you run the self booting program you are first given the option to test/set the speed on your data drives. It is absolutely **CRITICAL** that you set the speed using a NEW LORAN ADAM tape on both of the drives. If the speed of each drive is unequal your copies will have errors in them. As noted in the MEGACOPY instructions, some drives have the (very) small adjusting screw on the top and some on the bottom. Once you have the speeds adjusted (Jim Walters gave me the tip to set them a little faster than 0 - I used about "+3" which seemed to work fine), you go on to select what type of formatting you want. MEGACOPY supports 10 different formatting option for both center and right directory tapes. I only used the center directory option for C60 tapes. The overall process after this takes about 7 minutes, including the time it takes you to switch between the "format and normal" modes on the hardware device.

RESULTS - I made about 5 bad tapes before I got the process down pat. I found that my second tape drive was running at variable speeds which didn't help so I replaced it with another and it worked fine. I also found that using some of the old SMARTBasic tapes as masters caused problems so I switched to the new LORANS which corrected that problem. It is important that you use quality audio tapes that run smoothly with no drag. I understand that the BASF C60s are about the best. If you check newly formatted tapes with any kind of block verify program (see review of MEDIA-AID PLUS in this issue) you will find that blocks 63,63,128,255 may be bad; however, as pointed out by Jim Walters once you write to these blocks they can be read with no problem.

Overall I would recommend this device for those of you that like (and have the aptitude) to fiddle around with such gadgets. I would not recommend it for those who like to "turn it on and go" since it does require some patience and skill to get the most out of it.

Price is \$45.00 plus 10% shipping (US funds); you may order 5 or more for \$37.50 each.

TRISYD Video

26 Florence Cres

Toronto, Ontario Canada M6N 4E4

RATING - B

**BASIC SYSTEM MANAGER/FASTRUN V 3.0**  
By W. Motel/ L. Marschand

This is a much improved version of a program we reviewed over a year ago.

In this fine package by Practical Programs, I think we have found a must program for the novice/light user of ADAM SMARTBasic. Practical has aptly named this program BASIC SYSTEM MANAGER because it establishes an environment around SMARTBasic that will greatly aid anyone in its use. Many of you computer novices have had a hard time with SMARTBasic and given up on it out of frustration. This is not a problem unique to the ADAM or SMARTBasic, but to all computers. Most people think they can buy a computer, unpack it, plug it in and with only a cursory glance at the manuals, begin using it effectively. After a few hours of frustration, comments similar to "This darn computer isn't working right..." or "Stupid computers are always screwed up..." are heard. Am I close? Yes, I think so.

We have been re-reviewing the various SMARTBasic enhancement/utility programs with the goal of finding two different sets - one for the novice and one for the more advanced. We feel that this BASIC MANAGER program is the one for the novice computer and SMARTBasic user.

BASIC SYSTEMS MANAGER (BSM) has four main functions -

1. Provides an enhanced version of SMARTBasic as follows:
  - a. Sets screen color to blue
  - b. Corrects the "data/ rem" statement bug
  - c. Loads HELLO program from any tape or disk drive (not just first tape drive)
  - d. INIT command corrected for use on disks to set the blocks left
  - e. Line length set to 239
  - f. Poke limit set to 65535
  - g. The PR#2 command will route printing to a dot matrix printer
  - h. Allows recovery of "h" type files
  - i. The "FastRun" program is included in this version of Basic (if purchased as a package)
  - j. Maximum line length is set 239 (was 128)
  - k. Compatible with all SMARTBasic V1.0 programs

2. BSM's main program which will automatically be loaded by inserting the BSM tape/disk and pulling the reset. Here is a summary of the functions Basic Systems Manager -  
The program is a "Fastrun" binary load file so it runs quickly.

- Internal Help screens
- Screen color change ability
- Media file display with Load/Run point to option (Similar to Catmenu - Menu select)

- Ability to load in the System date, which will be put onto any newly created files entries
- Rename volumes
- File handling to
  - . Lock/Unlock Delete/Undelete
  - . Password Protect files
  - . Rename files
  - . Date stamp (put date onto) current files
- Enhanced Catalog listing to show
  - . Total file size
  - . Start and/or End block
  - . File Status
  - . Unused blocks
  - . Print of any of these catalog list options
- Initialize media, even those containing SmartBasic, Disk Manager, AdamCalc, or Adalink
- Deinitialize (restore old directory)

As a bonus a new program has been added - called MULTILoader, replaces the "boot" program that usually loads SMARTBasic by first loading in the revised operating system (EOS) and then SMARTBasic v1.0b. This EOS contains many improvements over the operating system that is built into the ADAM. MULTILoader gives you the option to load the new EOS and go to SMARTBasic or SMARTWriter.

When you first load BSM a MAIN screen is displayed that gives you access to all BSM functions against your Basic program tapes/disks (after loading BSM you would insert your tape/disk containing the programs you want to use). The BSM MAIN screen displays SMARTKeys which provide all the functions below. No additional programs need to be run. This is the strong point of BSM, it manages all these functions for you and doesn't require you to understand how to accomplish them through SMARTBasic commands.

I - CAT: Selecting this will display another set of SK's that give you various options for displaying and printing a catalog of the files on any tape/disk. Complete instructions are provided.

II - UTL:1 Provides capability to rename a volume or an individual file, lock/ unlock a file, read protect/ enable by adding password protection to a file, data a file, delete a file

III - UTL:2 Provides ability to change screen and border colors, recover deleted files, jump to SMARTBasic or SMARTWriter.

IV - RS Reselect the drive to view

V - RUN Select and run any Basic program (regular or bsaved). If you try to run a SMARTWriter file, an error message will be displayed.

V - LOAD Loads selected file

You can also print the current catalog to either the ADAM printer or a parallel printer.

? will display a HELP screen specific to the

various selections available. This is an excellent feature which makes the program even more user friendly, especially for the novice.

3. **FASTRUN** feature. This is a separate program that gives the ability to "bsave" a SMARTBasic program providing super fast subsequent loading, especially from tape. The BSM will automatically load FASTRUN (if you purchased them both) and place it in a little used area of memory where it can be accessed directly by entering "fr" while in SMARTBasic v1.0b. This is a nice facility for saving any program that you might be working with. See previous NIAD issues for information on the advantages of "fastrun" Basic programs.

4. **PROLOAD** is a small general purpose menu program that can be used on any tape/disk containing SMARTBasic programs. The list of programs is displayed, you select one with the arrow keys and then can load or run the program.

The BSM display is very well done, the functions useful, and the program is very user-friendly, especially with the built-in Help screens that give explanations of the commands available on each of the main screens. The written documentation provided is also very well done and thorough, again a plus for the novice. This is a must program for the novice or beginner. It takes much of the hassle out of loading, running and managing your SMARTBasic tapes/ disks and programs.

Rating - A

### H.E.R.O By W. Motel

This is a new (older) Activision cartridge that Lyle just got in. You are a little "miner like" fellow who travels in a maze-like mine rescuing trapped miners. You travel around via a jet-pack and are equipped with a MicroLaser Beam atop your helmet. This can be used to blast creatures and cut thru small walls. You also start with 6 sticks of dynamite to use for blasting thru bigger walls. The mine area is lit up with lanterns, but you must be careful not to shoot them or run into them, as the mine will go dark, making your travels even more difficult. The object is to reach the trapped miner in time to rescue him, avoiding the creatures and blockages along the way. You have 5 game levels, which correspond to what mine area you start with. For example, Game level 1 start with mine 1, Level starts with mine 5, up to Level 5 switch starts at mine 17 and picks random mines from there. Of course, the higher the mine number, the harder it

is. This can be due to more creatures, harder maze to figure out, more blockades, less time, etc.

The graphics are quite good and the game is fun. It is a combination of both a maze pattern and shooting skill type game. This is one of the better game carts available for the Colecovision or Adam.

RATING - A

### DOTS-PERFECT By B. Crocker

We bought our first computer in 1979 and about 2 years later we bought a printer to go with it. In those days(good, old), getting a printer to run with a computer was not necessarily easy. Both the computer (an OSI Challenger 1P) and the printer (an EPSON MX-80) were about the lowest priced (cheapest) available and that made interfacing them tougher. I had to solder transistors into the main circuit board of the computer to get things to work. But they did work and for years my wife typed her newspaper column into the computer using a word processor written in MICROSOFT basic, and printed it on the EPSON printer.

Eventually we bought an ADAM and later the EVE SP-1 to run our printer. It's been several years and that printer still keeps on dot-matrixing characters. I began to feel that perhaps it was time for a change when I began to see neat pictures printed in the NIAD newsletter. There were graphs and Marilyn Monroe and Captain Kirk. That EPSON was a bare bones printer (cheap, remember) with only one font set and a graphics set limited to the one in the Radio Shack TRS-80 (later the model one) No italics, no dot-addressable graphics, just the minimal set.

I had seen advertisements in BYTE and FAMILY COMPUTING for the Dresselhaus company's upgrade kit, Dots-Perfect, for EPSON printers. The claim was that with this kit we could have a near letter quality (NLQ) font, an IBM character set, italics and lots of other neat stuff for \$80. A letter to the company assured me that the kit was a plug in circuit board and would run the original MX-80 graphics commands (GRAFTRAX-plus), and hence all the neat graphics now available for ADAM.

Well the advertisement was true, this upgrade does all that neat printing.

The kit for the MX-80 consisted of three integrated circuits on a little circuit board with a jumper wire attached. The instructions were very clear with lots of pictures. I carefully took the printer apart (four screws, the paper advance knob, and one connector) and pried out my one integrated circuit (printers with more capabilities have three chips) and inserted the

new circuit board in one of the integrated circuit sockets. I hooked up the jumper to one end of a resistor with a little clip that was on the end of the jumper. The next step in the installation was to cut one jumper wire on the main circuit board if it were present. It was, and I cut it. The final step was to reset two banks of DIP switches in the printer. The only deviation I made from the suggested settings was to make a zero with a slash the standard character. I then reassembled the printer and ran the self test. It worked.

Next I hooked up ADAM through the SP-1 and tried printing. Everything worked fine. The upgrade has all the features of the EPSON GRAFTRAX-Plus graphics printing chip set plus some others, such as the near letter quality and IBM character sets, and a buffer dump command. Most of the new features are available from the three original pushbuttons on the control panel and through commands to the printer in software. However some are accessible only from one or the other. For instance, the fine print option can only be used from the front panel and the IBM character set can be accessed from software or the internal DIP switches.

Illustration 1 shows some of the print styles that I have tried and like. Dresselhaus claims that over 160 different font printing combinations are available from the control panel. With eight different options on the panel I have no reason to doubt that number. NLQ, double-wide, emphasized, italics are directly available. The dot addressable graphics mode also works with no problem. Illustration 2 was designed on PaintMASTER and printed with GRAPHIXPAINTER with no problems (ignore the artist errors.)

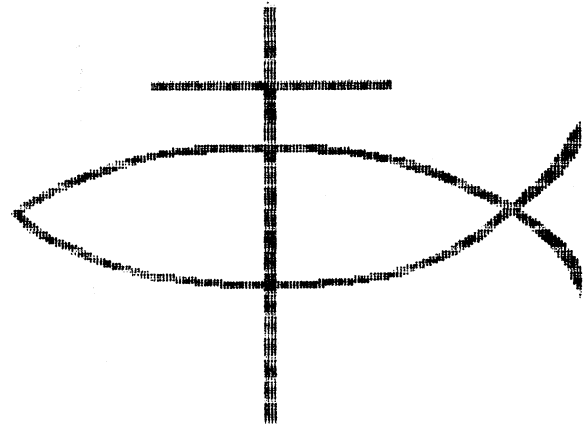
Overall Dots-Perfect is a great solution for those of us with older Epson printers (FX,JX,RX, and MX models) and who want to, or need to print graphics and Near Letter Quality text without buying a new printer. It is easy to install and worked for me without a problem. I rate this product an A+.

Illustration 1

Draft (EPSON)      John 3:16  
 NLQ                      John 3:16  
**NLQ, Emphasized**    John 3:16  
**NLQ, Emph. Italics** John 3:16

Fine Print                      John 3:16

Illustration 2



Here are renditions of two of the "BAD GUYS" from the great SPYHUNTER game done by our own Alan Neely.....

THE MAD BOMBER



WANTED  
 DEAD  
 OR  
 ALIVE!

THE MAD BOMBER

THE ESCORT

WANTED  
 DEAD  
 OR  
 ALIVE!



THE  
 UZILOROUR



## SEGA UPDATES

### SEGA CONTROL STICK

By W. Motel

This is the new actual-live-real joystick for the SEGA system. It has a real handle with a part on top of it to hold and everything. It's just like the joysticks we used to know in the old days before the super game systems were developed.

Seriously, the joystick sits on the right half of a 3 1/2 by 2 inch base. The stick is about 1 the 2 inches high, with a rectangular grip on top. The 2 fire buttons are at the top of the left half. I didn't seem to have any trouble holding it in my left hand, my left thumb for either of the 2 fire button, and my right hand on the joystick. There was no problem with either gripping the entire top or just the joystick shaft. Control is EXCELLENT. Our previous dust collecting Gran Prix and Hang On carts are now very playable. Previously I had never finished a race in Gran Prix, so I never got to buy car parts and usually only got one extended ride session in Hang On (level 1). Using the new joystick, I actually got to finish 3 races in Gran Prix and buy car parts. I was also able to complete a whole (at least 10 minutes) race in Hang On in LEVEL 3. If you don't buy anything else, get at least one, if not 2 of these. They are great and CHEAP (only about \$16).

RATING - A++

### SPACE HARRIER By W. Motel

This is the first of the 2 Mega carts for the SEGA system. This packs twice as much memory as the normal carts, and you can see it in the graphics. One thing to remember, the game system doesn't load or use all of the cart memory at one time, but loads it in stages, as you get to a particular part of a game. Still the graphics, especially the opening screen, are unbelievable, and this is all on a normal T.V., not a monitor. The game itself, is one-player, and pits you as the space harrier. You move him up/down left/right as he flies (via a jet-pack) over land thru space destroying a multitude of creatures and land objects along the way. The game will remind you of the Adam game Buck Rogers Planet of Zoom, in its perspective of objects coming toward you from all points on the screen, plus having to avoid land objects, some of which you can't shoot down.

The game consists of 18 waves, or stages of various enemy creatures. At the end of each wave is a Super Creature that takes more than one shot to kill and plenty of skillful dodging. Each enemy has their own pattern and this will keep you on your toes. When you lose all the lives, the game

is over, but they do include a CONTINUE feature, which you can use up to 3 times. A ranking screen appears at the end of the game listing the top 7 scores (since the game has been on) and if your score fits in, you can enter 3 initials. A sound feature is also included which lets you sample and hear the 15 or so sounds/songs that are used in the game. Excellent graphics and great game action, this is very close to the arcade version.

RATING - A+

### QUARTET By W. Motel

This is the second new game for the SEGA (not a 2 MEGA, just a normal cart). The big feature in this game is the ability of 2 players at one time. You and the optional 2nd player must defend your space colony from attacking aliens. Besides the 18 or so normal aliens, each of the 6 rounds pit you against the alien leader (the sixth round has 4). These require multiple shots all over their body, on certain parts of their body, only when they are shooting at you, or combinations of all. From round 2 on, there is also a warp door that lets you travel between the surface world and the Under world. Each round contains one of the 6 star-powers you need to collect to finish the game. Things to help along the way are a jet engine which lets you quickly fly (hover) around, a clock which lets you stop the enemy action, and a destroy all and render the aliens harmless bomb and missile.

The aliens each have they're own unique flying and shooting pattern and some need multiple shots to stop. The 3rd round consists of bricked in areas that you must shoot thru to get to the other side. Oh yes, you also have a time limit.

The game is a combination of Alex Kidd in Miracle World, Fantasy Zone, and Transbot. The graphics are good and there is plenty of action. With Space Harrier out at the same time, I know this one is going to take a back seat to it, but I (and I.m probably the only one, because my kids don't agree) think this has as much, if not more, playability then Space Harrier. The graphics aren't as slick (only because Space Harrier's are so fantastic), but there is a great variety of action that had me trying one more time.

RATING - A

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Provides expanded capability for faster storage and retrieval and increased reliability. Requires standard diskettes.
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ADAM phone modem which provides capability, with included software, to interface with other AMM computers or large bulletin board systems such as Compuserve.  
NOTE: Order ADAMLink II software from Public Domain list which will allow upload/download of programs.
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NEW (but not boxed) digital data drive which can be used as a replacement or as a second drive.
- 64K MEMORY EXPANDER ME-64 \$ 49.95  
Provides additional 64K of memory for SMARTwriter, CP/M programs. Provides print buffer spooling for AMNCalc.
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Cable required to attach SP-1 or PIA2 interface to other printers.
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EVE MULTI-UNIT ADAPTER MA-3 \$ 44.95  
Special adapter cable required to attach both the SP-1 and SS-CC to the AMM. NOTE: Not required for 80-column video board.
- CARD EDGE ADAPTER CEA-1 \$ 24.95  
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Hooks onto the AMM printer as originally designed to provide for feeding of pin-fed continuous form paper. Provides consistent alignment and advancing of paper. All metal design - guaranteed.

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Provides raised plastic legs for the AMM printer and relocates the on/off switch to the front of the printer for easier access when loading paper.
- MONITOR CABLE 7830 \$ 9.95  
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- EXPANSION MOD MONITOR KIT \$ 29.95  
Kit to modify colcovision unit to allow it to be connected to a monitor via 7830 cable above. Requires soldering skill - see review in 2/85 issue.

\* SPECIFY DDP OR DISK FOR SOFTWARE PROVIDED

PRINTERS

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TYPE: 9x9 DOT MATRIX  
SPEED: DRAFT MODE - 120 CPS  
NEAR LTR QUALITY - 24 CPS  
COMPATIBLE W/ EPSON RX80,  
IBM, FULL GRAPHICS  
PRINT CHR: IBM, FULL GRAPHICS  
MEDIA HNDL: ADJ TRACTOR FEED  
INTERFACE: CENTRONICS PARALLEL  
FEATURES: 2 YEAR LIMITED WARRANTY
- PANASONIC 10901 \$339.95  
TYPE: 9x9 DOT MATRIX  
SPEED: DRAFT MODE - 160 CPS  
NEAR LTR QUALITY - 32 CPS  
COMPATIBLE W/ EPSON RX80,  
IBM, FULL GRAPHICS  
PRINT CHR: IBM, FULL GRAPHICS  
MEDIA HNDL: ADJ TRACTOR FEED  
INTERFACE: CENTRONICS PARALLEL  
FEATURES: 2 YEAR LIMITED WARRANTY

- OKIMATE 20 COLOR PRINTER \$199.95  
TYPE: 24 PIN THERMAL  
SPEED: DRAFT MODE - 80 CPS  
NEAR LTR QUALITY - 40CPS  
LIMITED ADJ TRACTOR FEED  
MEDIA HNDL: LIMITED ADJ TRACTOR FEED  
INTERFACE: NONE STD - PARALLEL PLUG N  
PRINT MODULE SUPPLIED THAT ATTACHES TO EVE OR ORPHANWARE PARALLEL INTERFACE  
FEATURES: BLACK & WHITE OR COLOR PRINTING; 8K BUFFER; SPECIAL PAPER REQ'D

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OKIMATE 20 RIBBONS - \$4.95 BLACK  
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- FIRST BOOK OF ADAM, THE COMPUTER TAB BOOKS \$ 8.95
- BASIC BASIC PROGRAMS FOR THE ADAM \$ 8.25
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SEGA GAME SYSTEM  
\*\*NOT COMPATIBLE WITH ADAM\*\*

- BASE GAME SYSTEM \$99.95
- 2 HAND CONTROLLERS
- COMBO MEGA CARTRIDGE
- HANG ON GAME
- ASTRO WARRIORS
- MASTER GAME SYSTEM \$129.95
- 2 HAND CONTROLLERS
- LIGHT PHASER GUN
- COMBO MEGA CARTRIDGE
- HANG ON GAME
- SAFARI HUNT GAME
- SEGA SPORTS PAD CONTROLLER \$49.95
- SEGA CONTROL STICK \$14.95 NEW
- SEGA CARD SOFTWARE (256K) \$24.95
- F-16 FIGHTING FALCON
- MY HERO
- TEDDY BOY
- TRANSBOT
- SUPER TENNIS (sports pad not req'd)
- SEGA MEGA CARTRIDGES (1048K) \$29.95
- CHOPFLIFTER
- ACTION FIGHTER
- BLACK BELT
- FANTASY ZONE
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- PRO WRESTLING
- MARKSMAN/ TRAP SHOOTING
- GREAT HOCKEY (SPORTS PAD REQ'D)
- RAMBO
- BASEBALL (SPORTS PAD NOT REQ'D)
- QUARTET
- SHOOTING GALLERY ( FOR USE WITH GUN)

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- PROGRAMS FOR BOTH VOL I & II OF HACKER'S GUIDE ON 1 TAPE OR DISK \$ 3.00 DISK \$ 5.00 DDP
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