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THE

AWAUG

NEWSLETTER

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ADAM Washington Area User's Group

Vol. 7, No. 5   October 1991

The Editor's Corner

Congratulations to the 10 very deserving initial inductees into the Adam Gallery of Honour. They have made major contributions to the Adam community. WELL DONE!

Lot's of stuff from Adamcon 03 appear. Jerry Vrancks has a report on page 7, Barry Wilson's report starts on page 18 and the complete text of Guy Cousineau's address on the future of the Adam starts on page 14. Turn this page over and get the info on how to order the **Adam Survival Guide**, a wonderful compendium of info about our Adams. MOAUG's James Poulin lists a bunch of Adam system calls staring on page 2. Guy Cousineau's article on SmartBASIC MATH functions starts on page 5. And, speaking of BASIC, check out Rich Drushel's exciting new SmartBASIC 1.x on page 9! Two long time supporters of Adam have their advertisements on pages 8 & 13. Support them and tell 'em you saw their info here! ANN Contest Editor Lani Brito has info on the latest contest on page 21. Rob Friedman tells us about CIS on page 10. As always, the articles came to us thru the courtesy of ANN and other Adam User groups. The original publication has been credited where applicable. Have a Happy Thanksgiving, and keep Adaming. JM

GALLERY OF HONOUR

The first 10 inductees into the ADAM Gallery of Honour were presented at ADAMCON 03 in South Bend. They are:

> **Tony Morhen**
> **Soloman Swift**
> **Guy Cousineau**
> **Patricia Herrington**
> **Lyle Marschand**
> **'Big' John Lingrel**
> **Syd Carter**
> **Norman Castro**
> **Rob Freidman**
> **Alan Neeley**

It is unlikely ADAM would exist today if not for these people. All ADAMites owe them a great deal of thanks.

The committee for 1992 inductees is being formed. There are many more people who belong in the Gallery. If you want to make sure they are included next year, volunteer. Give a little back to ADAM. Contact Jerry Vrancks if you are interested in helping.

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*                                                          *
*              HOW TO BUY THE ADAM SURVIVAL GUIDE          *
*                                                          *
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ADAMCON 03 IS OVER AND AFTER EXCELLENT SALES AT ADAMCON 03 THERE ARE
STILL A FEW COPIES OF THE ADAM SURVIVAL GUIDE FIRST PRINTING AVAIL-
ABLE.

AFTER THESE ARE SOLD, IT WILL BE NECESSARY TO ACCEPT ORDERS TO BE
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The following article by MOAUG TDOS Librarian James Poulin
appeared in the January, 1991 issue of the MOAUG newsletter
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ADAM SYSTEM CALLS
By James Poulin

The following POKES are from a list I compiled over the years and used in SmartBASIC
I programs.

CHANGING SCREEN COLORS

Normal Color Sequence:

0 = transparent	6 = dark red	11 = light yellow
1 = black	7 = aqua/cyan	12 = dark green
2 = medium green	8 = medium red	13 = magenta
3 = light green	9 = light red	14 = gray
4 = dark blue	10 = dark yellow	15 = white
5 = medium blue		

Memory Default

Location	Function	Value
17059	TEXT background	0
17115	TEXT NORMAL	240
17126	TEXT INVERSE	15
18607	GR background	1
18633	GR window	17
18711	GR TEXT	240
25431	HGR background	1
25471	HGR window	17
25568	HGR TEXT	240

EXAMPLE: Set TEXT background to be RED: POKE 17059,6:TEXT

Define the following variables:
```
nl = normal letters
ns = normal screen
il = inverse letters
is = inverse screen
gw = graphics window
```

Substitute color code preference for the variable name in the following equations.

```
TEXT NORMAL: POKE 17115,(nl * 16) + ns
TEXT INVERSE: POKE 17126,(il * 16) + is
GR WINDOW: POKE 18633,(gw * 16) + gw
GR TEXT: POKE 18711,(nl * 16) + ns
HGR WINDOW: POKE 25471,(gw * 16) + gw
HGR TEXT: POKE 25568,(nl * 16) + ns
```

EXAMPLE: Set WHITE screen with BLUE letters:
POKE 17115,(15 * 16) + 4 = POKE 17115,244

To correct the screen color table, use the following routine at the beginning of a program:
```
10 for x = 0 to 15
20 POKE 18765 + x,x
30 POKE 18781 + x,x
40 next x
```

The Prompt:

Address 1146 contains the ASCII value of the prompt. Its default value is 93 (the right bracket).

MERGING BASIC PROGRAMS:

The BASIC LOAD command does four tasks. It executes NEW, CLEAR, searches for the file name, and then LOADs it. To merge programs in BASIC, all you have to do is disable the NEW function. The machine language routine for NEW begins at address 6356. The default value at that address is 205 (Z80 machine code for CALL). To disable NEW, just POKE a 201 into 6356. This value is Z80 machine code for RETURN. As soon as ADAM tries to execute the NEW function, it thinks its finished, .pa without doing anything at all. Now you can use the LOAD command to merge subprograms and routines directly from SmartBASIC. Be sure to POKE 205 back into 6356

3

when you're done.

The Cursor:

Address 16953 contains the ASCII value of the cursor. Its default value is 95, (an underscore). Eliminate the cursor from the screen with a "0" or a "32".

Address 17001 contains the current vertical position of the cursor.

Address 17002 contains the current horizontal position of the cursor. You can stop the cursor from blinking by POKEing a "1" into 17000. A zero or TEXT will restart the blinking.

Address 17291 controls the speed of the cursor blinking. The default value is 4. 1 is the fastest and 255 is the slowest.

The Built-in Bell:

Print CHR$(7) will sound Basic's built-in bell. You can change its parameters. The duration is at address 17963. The volume is at address 17958. And you can change the tone with address 17950 and 17954.

The Graphics Window:

The text window in the graphics mode is set for four lines (default). You can increase it to 8 lines with the following POKEs. Note that changing modes will reset these addresses to their default values, HGR (or GR):
POKE 16958,16:POKE 16993,8:POKE 16995,16

Storage Devices:

You can reset the current storage/retrieval device by POKEing the
new value into address 16821.
```
  DATA DRIVE #1 = 8    DISK DRIVE #1 = 4
  DATA DRIVE #2 = 24   DISK DRIVE #2 = 5
```

DATA and REM Space Bump Fix:

The following pokes eliminate this problem:
```
  POKE 15824,216:POKE 15830,8:POKE 15831,55:POKE 15832,19
```

Parallel Printer Drivers:

If you have a dot matrix printer and the ADAM printer connected to your system, you can input the following and select either printer whenever you want: (Use PR#2 for the Parallel Printer)

```
6 DATA 245,245,219,64,230,1,40,250,241,211,64,241,254,13,
192,62,10,24,237,219,71,62
7 DATA 0,211,71,62,78,211,70,62,62,211,70,62,39,211,71,219,
68,219,68,201
8 FOR ml=1056 TO 1097: READ am:POKE ml,am:NEXT ml
```

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EXPLORING SMARTBASIC:
MATHEMATICS FUNCTIONS

By GUY COUSINEAU

(The following article is another in the series Exploring SmartBASIC, by Guy Cousineau and was provided by Ron Mitchell, president of AUFG, via ANN. It originally appeared in the Jul/Aug '91 ADVISA.)

In several of the previous articles on SMARTBASIC, I have mentioned variable commands. Although most of them are mathematical functions, a few are not; notably FRE and USR. Variable commands are those commands which pass a parameter within brackets: eg INT(123.45). The parameter is evaluated by the function in order to determine the result.

Presumably to save on interpretation and parsing code, the designers of SMARTBASIC adopted a·complicated technique, which dynamically relocates these variable commands based on the LOMEM setting. Each of the variables is defined as an array and the array simply points back to the execution routine for each function.

When you are playing around with memory and accidently write where you should not, the variable commands are invariably the first ones to suffer. When they start misbehaving, the best thing to do is reboot.

In this article, we will briefly cover the use of arithmetic and algebraic functions. I will not attempt to describe the calculation method, for even if I understood it completely, it would take several pages to explain. The purpose of this article is to remind you that these functions are there and clarify their use as required.

INT does just what you might expect; it extracts the integer value of a real variable. Since it truncates rather than round off, statistical calculations will be more precise if you use INT(x+.5). You will also find that certain numbers truncate in a strange fashion. I have never noted the exact numbers, but the

floating point has difficulty handling numbers like .001. For this reason, I often use INT(x+.50001). This helps to avoid those nasty INTEGER values which wind up being 37.9999997.

ABS takes the absolute value of a number by removing its sign thus ABS(-12) will yield 12. You can use ABS to make a number negative with something like -1*ABS(x).

SGN will report on the sign of a variable. SGN will return 0 if the variable is 0, -1 for negative values, and +1 for positive values. SGN can be used in conjunction with ON GOTO in the following fashion:

```
999  REM make decision on sign of x
1000 sx=SGN(x)+2: REM make result 1,2,3
1010 ON sx GOTO 2000,3000,4000
2000 REM handle negative
3000 REM handle zero
4000 REM handle positive
```

LOG takes the natural LOG (base e) of a number. If you are curious, the value of e is 2.718281828....You can come close to this value by asking SMARTBASIC for the LOG(10). If you want to take use 10 LOGS, just divide the LOG value by LOG(10):

```
999  REM subroutine to take base 10 log
of x
1000 y=LOG(x)/LOG(10)
1010 RETURN
```

EXP is the complementary function which raises e to the power of the argument. Thus EXP(2) is the same as e^2. This function is redundant for powers of 10 since you can use 10^2 or 1.0E+2. It would be tedious, however to write 2.718281828^2.

SQR extracts the square root. Thus the Pythagorean theorem would be calculated by hyp = SQR(s1^2 + s2^2). The square root can also be expressed with hyp = (s1^2 + s2^2) ^ (1/2), but SQR is more convenient.

Before discussing the TRIG functions, a bit about RADIANS. Computers insist on working with radians rather than de-

grees. If you remember your high school trigonometry, there are 'pi' radians in 180 degrees or about 57.3 degrees per radian. 'pi' (despite what textbooks might say) has the value 3.141592657 and you can define RAD=180/3.141592657 to use as a conversion from degrees to radians. This will become clearer in a moment.

SIN takes the sine of the specified radian. If you would rather work in degrees, use something like SIN(45/RAD) to evaluate the sine of 45 degrees.

COS takes the cosine of the specified radian. Again, if you remember your high school math, COS(x)=SIN(90-x). Thus COS(45) should be the same as SIN(45). Define RAD as outlined above and print SIN(45/RAD) and COS(45/RAD).

If you change the value of 'pi' in the equation to a different value like 3.141592655, you will see that the values are not the same. Thus the value given above is the CORRECT one for working with ADAM's floating point accumulator.

TAN takes the tangent and ATN takes the arc-tangent; the latter function is difficult to calculate manually.

All other TRIG functions can be evaluated using the 4 functions above; you just have to remember how it's done. I must admit I have forgotten.

ROUTINE ADDRESSES

INT executes at 10672(29B0).
It verifies that the number is in floating point format. It then checks if the number is less than 1 in which case 0 is returned. It then juggles the number around to drop the decimal portion.

ABS executes at 2276(08E4).
It simply resets the sign bit in the floating point accumulator. This is why ABS cannot be used with INTEGER variables.

SGN executes at 2285(08ED). It starts by checking the value of the exponent in the FPA. If zero it simply returns which

yields a zero value. It then sets the value in the FPA to +1 or -1 depending on the original sign of the number.

LOG executes at 3604(0E14).
It checks for zero and negative values and then calls a power series calculator to do a recursive calculation.

EXP executes at 3816(0EE8).
It uses a power series calculator to approximate the required value.

SQR executes at 3678(0E5E).
It does the calculation the way we learned it when we learned about logs. It takes the LOG of the value, divides it by 2 and recalculates the exponent. This is like doing e^(log(x)/2).

SIN executes at 3954(0F72).
This is the workhorse which uses a power series calculator to approximate the required value.

COS executes at 3946(0F6A).
It calculates the value from the formula COS(x)=SIN(x+pi/2), in radians, of course.

TAN executes at 3912(0F48).
It calculates the value from the formula TAN=SIN/COS.

ATN executes at 4180(1054).
It also uses a power series calculator.

Following is a list of routines used by the MATH functions. They are very complex and should likely not be fiddled with. The addresses are included for information purposes only.

4156-4179   POWER SERIES CALCULATOR
It takes a value from a table pointed to by HL. Copies FPA1 to FPA2, multiplies the first value at (HL) by FPA1 and multiplies the original result by the next table value. It is called by the controlling routine as long as there are values in the table.

4255-4269   ADD PI FRACTIONS
Depending on the entry point, these routines add or subtract pi/2 or pi/4 to the current value in the floating point accumulator.

4270-4355 POWER SERIES CALCULATOR
This one basically multiplies the 2 numbers in the FPA's, then multiplies each component by values from the power table and finally adds the 2 halves together.

4497-4695 CONSTANTS
This is a set of values used by the various math routines when calling the power series calculators. Some are in floating point and others in integer format. You will find values corresponding to LOG(2) 1/LOG(2) pi/2 2/pi pi/4 1/11 1/9 1/7 1/5 1/3 but NOT pi or e.

That is the extent of my coverage of MATH functions.

Next time, random numbers.

Guy Cousineau
1059 Hindley Street
OTTAWA, ON.,
Canada

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From the 463 ADAM Newsletter - September 1991 - Dean Roades, Editor.

    From: **Jerry Vrancks**

    To: All ADAMites

    Subject: **ADAMCON 03**

I know there will be many articles written about ADAMCON 03 in the next few months, but I'm going to throw in my two cents anyway.

I enjoyed the convention immensely. Meeting some of the well known names in the ADAM community was alone well worth the price of admission. I could only absorb a small portion of what they were showing us, but this was enough to nearly double my knowledge about the ADAM. Although I must say my biggest enjoyment was meeting people like Patricia Williams, Robert Jones, Sandra Schwering, Ena and Neil Greenshields.

WHAT! Never heard of these ADAMites? Well, neither had I until ADAMCON 03.

Most are novices like you and me. Just talking with some of them, sharing our experiences, our shortcomings, and what we use our ADAMs for made the price of admission a Blue Light Special for me. These are the people who must continue to use their ADAM if it is to survive. Fifty well known ADAMites can't do it alone. The novice ADAMite must be a large part of the game plan. And we, the novices, must let the software and hardware developers know what we want. They are not mind readers.

Here I go getting off track, as usual. Back to the convention.

It was an experience I will not soon forget. I was never made to feel out of place by any of the experts, even when I would ask what I'm sure they considered a dumb question.

I'm looking forward to ADAMCON 04 so I can continue my education on how to use my ADAM.

I have refrained from mentioning any of the well known 'expert' delegates because they were all helpful. I wouldn't want to slight any of them. They made me feel like I was a part of the ADAM family.

Again, I want to say I enjoyed myself, and so did my wife. And she doesn't even know how to turn on the computer! She enjoyed just meeting the people. So if God be willing and the creek don't rise, I hope to see you at ADAMCON 04 in Cleveland next year.

A fellow ADAMite,

Jerry Vrancks

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Well, folks, the Redskins fans are deliriously happy (as they should be) with that fantastic 7-0 start. Hamlet was wrong....the question is can they go 8-0? Is it time for reality?

GO GIANTS!

NIAD Northern /Iliana **ADAM** User's Group

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N.IA.D. is one of the largest suppliers of ADAM Computer products and services in the United States and Canada. We have been supporting the ADAM through our services since January 1, 1985 and we continue to expand our support and services available to the ADAM Community. We are fellow ADAM owners like yourself and feel that we bought the best home computer on the market at the time for the money. Coleco's decision to stop production of the ADAM as of December 1985 does not change that fact. It has been confirmed that there were roughly 1 million ADAM's manufactured by Coleco when they finally shut down the production line. This is no small number and we will continue to draw software, hardware and support services for quite some time. In fact, there have been 100's of times more ADAM software and hardware products released since Coleco dropped the ADAM then before (as can be seen by our 20 page product catalog!). There are between 30-50 software programmers developing programs such as games, tutors, graphics design, business, utilities, etc. Basically, any type of program available on the IBM, Apple, Atari and Commodore computers has been developed by an ADAM programmer for use on the ADAM. On the hardware side, we now have new ADAM compatible Disk Drives, Hard Drives, Parallel Interfaces, Serial Interfaces, Memory Expanders, Modems, Clock Cards and Chips, Sound Digitizers, 80 Column Display Units, etc. with many new products in the works! Also, the ADAM is able to run CP/M 2.2 which means that 1,000s of programs developed for other CP/M machines like Kaypro, Commodore, etc. will run with little or no modification at all on the ADAM. There is just so much happening that it would take a book to list everything out. So you see the ADAM is far from dead and that is where N.I.A.D. comes in. We supply all this very important information to our members each month in our ADAM ONLY newsletter. The people who have joined N.I.A.D. (all told some 5,000 ADAM owners have been a member of N.I.A.D. at one time or another) now have this source of information and access to hard to find ADAM products - they are now EFFECTIVELY using their systems. Please take the time to read this information, I think you will see why N.I.A.D. is the ADAM USERS GROUP for you as we move further into the 90's!

N.I.A.D.'s NEWSLETTER

The premiere issue of the N.I.A.D. Newsletter dates back to January of 1985 and since then we have published 80 newsletters jam-packed with solely ADAM news, product reviews, workshops, public domain programs and listings, and all types of other assorted articles on the ADAM.

We have published hundreds of reviews of ADAM products and spend time researching new products so our members can keep informed as to what is available and what new products are under development. We keep our members up to date on other subjects such as what other groups are doing, new groups that startup, where to get the answer you need if we can't provide it, information about ADAM Conventions (of which there have been three and the fourth is being planned) and also repair centers for the ADAM. Each newsletter contains various workshops with tips and general education in areas such as SmartBASIC, SmartLOGO, CP/M 2.2, TDOS, ADAMCALC, SmartFILER, and just about any other imaginable usage of the ADAM. Best of all, we detail Public Domain programs in each issue which are available for free, that's what Public Domain means, the program is free!

Also listed in each newsletter is a product roundup of all products we have available for the ADAM (which numbers in the hundreds) as well as a listing of our Public Domain programs that has to be seen to be believed. There are over 250 different volumes available and all told, there are some 3,000 different programs and files available on these volumes which cover the whole spectrum of types of programs.

We even have articles from many other ADAM Newsletters appear in our Newsletter at times thanks to the willingness of other newsletter editors to share their information with us and us likewise with them.

If you are still not interested, mail a letter or call in requesting a copy of our most recent newsletter and you will see first hand what goes on in each and every issue.

The newsletter is published 10 times a year, the May and June issues are combined into one issue as well as the July and August.

CURRENT MEMBERSHIP RATES ARE:

U.S. CITIZENS 3rd CLASS - $22.00
CANADIAN or U.S. CITIZENS 1st CLASS - $29.00

MAIL ORDER SERVICE

N.I.A.D. has been supplying ADAM Hardware, Software and Supplies for as long as we have been producing the newsletter. We carry all the most popular software titles from companies such as: Walter's Software Co., Pitman Software, Digital Express Inc., Phoenix 2000, Reedy Software, White Co., ADAM's House, Acofyte Software, Image MicroCorp, Hexace Software, AJM Software, Coleco Electronic c. We also carry a wide selection of hardware from Micro Innovation & T Software, ADAM's House, Bonafide Systems, Panasonic, Goldstar, Magnavox, Coleco Electronics, etc. And of course we have a wide variety of supplies available such as Ribbons, Digital Data Packs, Print Wheels, Disks, etc. Let's not forget our huge Public Domain selection also, volumes cost $4.00 on Disk or $6.00 on Digital Data Pack.

We are also continually expanding our line of products and services as new software and hardware items are developed. But in the mean-time, below is an example list of some of the products which we presently have available and their prices (don't forget to contact us for a complete catalog listing of every product and service we have available for the ADAM):

SOFTWARE
- ➪ ADAM's DESK TOP by Walters Software (Disk, DDP or Cart)... $39.95
- ➪ ADAM BOMB by Pitman Software (Disk or DDP) $19.95
- ➪ PowerPAINT by Digital Express (Disk or DDP).......................... $29.95
- ➪ SpeedyWRITE V2.0 by White Co. (Disk or DDP) $39.95
- ➪ SpeedyWRITE SPELL by White Co. (Disk or DDP) $24.95
- ➪ THE ADAM CONNECTION by White Co. (Disk) $24.95
- ➪ THE PRINT WORKS (Disk or DDP) $27.95
- ➪ THE LABEL WORKS (Disk or DDP) $24.95

HARDWARE
- ➪ 5 1/4" 320K ADAMnet DISK DRIVE by Micro Innovations........ $219.95
- ➪ 3 1/2" 720K ADAMnet DISK DRIVE by Micro Innovations........ $269.95
- ➪ 64K MEMORY EXPANDER by E & T Software........................... $34.95
- ➪ 256K MegaRAM MEMORY EXPANDER by E & T Software $99.95
- ➪ PARALLEL PRINTER INTERFACE by E & T Software................ $ 5
- ➪ MIDI-MITE by Bonafide Systems... $ 5

SUPPLIES
- ➪ ADAM PRINTER RIBBON... $5.95
- ➪ ADAM DIGITAL DATA PACK.. $2.00
- ➪ ADAM PRINT WHEEL (6 styles to choose from) $6.55

WHAT IS SmartBASIC 1.x?

by Rich Drushel

SmartBASIC 1.x is a major rewrite of the SmartBASIC 1.0 interpreter for the Coleco ADAM computer.

SmartBASIC 1.x provides the programmer with 40 new commands and 37 functions, and enhances the operation of 7 existing commands and 7 functions.

SmartBASIC 1.x allows the programmer *COMPLETE* access to the hardware and software capabilities of the ADAM, using simple, high-level commands--without arbitrary PEEKs, POKEs, or CALLs, and without the programmer needing to understand Z80 machine language.

SmartBASIC 1.x makes it easy to:

* read and write absolute disk/tape blocks
* change screen colors
* select 31, 40, or 80-column TEXT, complete with FLASH and INVERSE
* define a scrolling TEXT window smaller than the physical screen
* manage interpreter memory independent of absolute addresses
* print to a parallel printer
* initialize and communicate through serial ports
* access all system RAM, ROM, and expansion RAM
* invoke EOS operating system functions without machine language subroutines
* use larger disk drives, including hard drives
* format floppy disks for any size drive
* keep time and date with hardware and software clocks
* communicate directly with Z80 I/O ports

Additionally, SmartBASIC 1.x fixes some annoying bugs and oversights in SmartBASIC 1.0:

* parameters are range-checked for all commands and functions
* repeated error trapping does not crash the system
* ERRNUM returns rational error codes

* the keyboard line buffer is 254 characters long instead of 128
* control characters echo on the screen when typed
* INSERT and DELETE keys replace ^N and ^O
* the cursor is hidden unless waiting for typed input
* LIST does not pad everything with extra spaces
* LIST starts printing in column 2, so you can edit line numbers above 9999
* the parser error reprint of a bad line starts in column 2
* SmartBASIC 2.0-type parser errors- beep/sadface replacement of bad line
* POS and VPOS are 1-based instead of 0-based, and return absolute positions
* dummy arguments are not required for ERRNUM, POS, VPOS, FRE, and RND
* color commands and functions use TI color codes instead of AppleSoft
* RANDOMIZE command gives true random numbers (seeds optional)
* RESTORE, RESUME, and RETURN to any line number
* values set by SPEED, ROT, etc. can be found without PEEKs
* multiple programs can be MERGEd in memory

SmartBASIC 1.x provides shorthand synonyms for a few common commands:

* LOCATE line, column instead of VTAB line: HTAB column
* BEEP instead of PRINT CHR$(7);
* PUT x instead of PRINT CHR$(x);
* CLS instead of HOME

Lastly, SmartBASIC 1.x implements directly a few "miscellaneous" command and functions which previously could be achieved only by multi-statement, multi-line subroutines:

* WHILE...WEND loops
* HEX$(x) to return INT(x) as a hexadecimal string
* Z80-type bit test/set/clear functions
* Z80-type logical AND/OR/XOR/CPL functions
* MOD function to return remainder after integer division
* SPC$(x) function to return a string of x spaces

* STRING$(count,value) to make a string of count CHR$(value)'s.
* LINPUT command to get a whole line of text up to the CR, ignoring commas

All the enhancements of SmartBASIC 1.x take a little more than 8K of extra RAM, leaving approximately 17K of programming workspace. While this is, of course, less than SmartBASIC 1.0, the compactness of SmartBASIC 1.x commands and functions means that whole subroutines in older programs can be replaced by a statement or two.

The following hardware is supported directly by SmartBASIC 1.x:

* Coleco ADAMlink modem (initialization only)
* Coleco 64K memory expander (and clones by Orphanware and OPA)
* Orphanware 256K and 512K memory expanders
* Micro Innovations 1024K memory expander
* Orphanware PIA2 parallel board (and all clones, including PowerMate)
* Eve/Orphanware RS-232C serial board (all 4 possible ports)
* Micro Innovations MIB2 serial board (both ports)
* Eve SS/SC board (clock only)
* Orphanware clock board
* Trisyd SmartClocks ("no-slot" and Dyno-Mite digitizer versions)
* Eve/Orphanware 80-column video unit
* 320K, 360K, and 720K double-sided disk drives
* Non-256K tapes created by the MegaCopy tape formatter
* Mini Wini hard drive (BJ's original)
* PowerMate hard drive

The following hardware is not supported directly by SmartBASIC 1.x, but may be accessed using the appropriate IN variable,port and OUT port,value commands:

* Coleco ADAMlink modem (dialing and data transfer)
* Coleco Autodialer
* Eve SS/SC board (speech synthesizer)
* MIDI interface board
* Dyno-Mite sound digitizer

SmartBASIC 1.x is available on either disk or digital data pack, at a cost of $30.00 U.S. It includes a comprehensive, 70-plus page, laser-printed manual. More than a simple programming reference for SmartBASIC 1.x commands and functions, it includes 6 technical appendices for advanced programmers. These include: how to write relocatable, position-independent Z80 machine code routines; a complete summary of EOS function calls 0-100, with full descriptions and required register setups; the detailed structure of EOS processor control blocks (PCBs), device control blocks (DCBs), file control blocks (FCBs), directories, and the first published listing of EOS's own internal error codes 1-24; how to create external terminal emulations for use in TEXT80; and complete memory maps of the SmartBASIC 1.x interpreter and VRAM in all screen modes (TEXT31, TEXT40, TEXT80, GR, HGR, and HGR2).

I am not exaggerating when I say that SmartBASIC 1.x is the most powerful EOS-based programming language ever developed for the Coleco ADAM!

Ed note: Sounds like a powerful upgrade for those who work with SmartBASIC. SmartBASIC 1.x may be ordered directly from Rich by sending a check or money order (US funds only) to:

> Richard F. Drushel
> 3353 Mayfield Road
> Cleveland Heights, OH 44118

Be sure to specify disk or data pack!

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THE FOLLOWING WAS PROVIDED TO ANN BY OUR TELECOMMUNICATIONS EDITOR WHO INDICATED THAT ROB FREIDMAN SYSOP AND CIS MADE THIS AVAILABLE.

CIS AND ROB FREIDMAN PROVIDE VALUABLE SERVICES TO THE ADAM COMMUNITY AND ARE TO BE COMMENDED.

CompuServe is a national telecommunications network for any and all computer users. For Adam users, it's a national meeting place and a central source of

public domain software, both basic and CP/M. We are located in the Computer Club forum, one of the oldest forums on CompuServe. The Adam is in sections 9 and 10, and have Data Libraries 9 & 10. Section 9 is Adamania, for basic and Logo files, and anything that can be downloaded via AdamLink2. (More on that in a bit) Section 10 is the Adam CP/M section.. usually requiring a CP/M modem program such as Madam7, MEX114, IMP, ZMP15, or QTERM42G. (Also.. more on that in a bit). As a meeting place, there are ongoing discussions in the message bases, and in the weekly Sunday nite <10:00 ET> COnference where we exchange ideas, tell about new items for Adam users, and just make friends. Both Tim Nunes and I are there almost every night, and are available Sunday night in the CO (after the GIANTS game, no doubt..Ed). Also, in our Data Libraries, we have a wealth of PD software, including the latest PD CP/M files <also available in the CPM Forum>. We have ammased an impressive amount of csoftware including no less than six CP/M programming languages <Ebasic, Eprolog, TinyPascal, Forth, Pilot, and Cobol> and we have the only place on CompuServe that the CP/M user <not just Adamites> can download the Original Adventure Game known as the Colassel Cave. We also are a distribution point for TDOS, Tony Morehen's superb CP/M Workalike (actually, Works-much-better..Ed). Our Basic section combined with our CP/M section constitute the largest Data Libraries in the Forum for any one computer. The Computer Club forum can be reached on CompuServe at any "!" prompt by typing "GO CLUB". We look forward to seeing you there.

But, CompuServe isn't just a single Club for Adam users. If you have other interests <which I hope we all do>, you can find it on CompuServe. As I mentioned, Adam users can also access the CP/M Forum (GO CP/M) and use almost any program on there. <If your friends with their C-128s tell you that "They have a section there too.." well.. they are right.. BUT Adam runs CP/M much better than the C-128. If you have an interest in other things.. like science fiction, Midi software, religion, health, home

business, and countless others.. you will probably find a section for you on CompuServe. There are also the online multi- player games like Mega Wars, YGI (You Guessed It), and Island of Kesmai. You can also talk to people all over the US and Canada, <and lately> around the world, on the CompuServe CB <where I'm a frequent visitor>. Or.. as in the film WarGames.. you can book flights or check on flights with the OAG (Official Airline Guide-Electronic Edition). If you're doing research and you need information.. there is also IQuest, an immense database that can send a printed copy to you or send a file via modem for numerous topics and previously published sources <Who knows?? Maybe the paper you write will also end up in IQuest.> Also.. there is the Electronic Mall, where you can purchase almost anything from your home. Your home banking and financial needs can also be helped on CompuServe. (Just wait until April 13th and see how crowded the tax help services become). CompuServe is the largest online information service in the world with over 500,000 members.

To join CompuServe, you need a) a modem, b) a terminal program, and c) a CompuServe starter kit (from most computer stores and major bookstores). The hourly charge is $6.00 per 300 baud and $12.50 per 1200 or 2400 baud. There is no longer any prime time and non-prime time. I hope to see you there.

Rob Friedman (Sysop Adam CP/M)

As a service, I have been distributing the PD Modem programs, AdamLink2, Madam7, and MEX, for the internal modem. My procedure has been a very reasonable one. I ask you to send a formatted CP/M disk <or DDP> or 2 or 3.. depending on what you want (AdamLink2 doesnt require a CP/M format>, and also to send return postage, no fee other than that. and I'll send you a copy of the program so you can access the entire Data Libraries. I call the package MODEM.GIV and it needs 2 160K disks. I also have 2 other GIVaways. One I call EXTRA.GIV, which is simply more stuff. The other is a generic TDOS called TDOS.GIV. It will run on ANY Adam and can be rein-

stalled for any ADAM not running Micro Innovation attachments. Those come with TDOS. On CIS and on several BBS's as well as printed in MOAUG is an article called TDOS.GIV. Please let me know if you have any questions. You can find Tim and I online with these User I.D's.

    Rob Friedman ---User I.D> 76702,417
    Tim Nunes ------User I.D> 73307,215

Also, Ron Collins is technical assistance person online. Along with Ron, some of our figures are Tony Morehan of T-Dos fame, John Moore of Madam7 fame, Pat Herrington who runs the MOAUG, Rick Lefko of numerous articles, Alan Neely of the A-Net BBS's and the SLC Adam User Group and numerous others. So, come join the crowd.

    Rob Friedman
    3814 Ocean Ave. T-2
    East Rockaway, NY 11518
    516-593-8798
    Updated 4/13/91

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AWAUG MEMBERSHIP INFORMATION

AWAUG is an organization dedicated to the support of the ADAM computer system and the furthering of computer literacy. Membership in AWAUG costs $15 per year. Members receive a bi-monthly newsletter and are entitled to purchase items offered by the club such as public domain software, WordStar 3.0, formatted tapes, and some hardware. Our volunteers can help to answer your questions.

Meetings are held on the third Saturday of each month at the Tyson's Pimmit Regional Library at 11 AM. The address is 7584 Leesburg Pike, Falls Church, VA (1/2 mile inside the beltway on Route 7).

Meeting are free. For more information about the meetings or the club, contact Jim Howard at (703) 960-5315 or check in on the AWAUG BBS at (202) 561-2475 (2400/1200/300 8-N-1).

Your club officers are:

Jim Howard	President & Librarian
Scott Gordon	Vice President
Ralph Mason	Treasurer
Jeff Jodoin	BBS SYSOP
Tom Barrett	Membership
Jack MacKenn	Editor
Mark Gordon	Meeting Dir
Cliff Sinopoli	Procurements

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ADVERTISE IN THE AWAUG NEWSLETTER!

The AWAUG newsletter accepts advertising for publication. We believe that advertisements help ADAM owners to know what is available and, therefore, that they are a good service. In keeping with this notion, our rates are very competitive. Because it is to everyone's advantage to encourage enrollment in our club, we offer a discount to members who wish to advertise.

At present, our membership stands at just under 100 ADAM owners, so your advertising will reach a significant number of very interested people. Rates are as follows:

SIZE	Non-member	Member
Full page	$9.50	$6.35
Half page	$6.00	$4.00
Quarter page	$3.00	$2.00
Column inch	$1.00	$ .65

A column inch is 38 characters wide and 5 lines high. For each consecutive column inch, add one line.

Advertising may be for any legal goods or services. Material may be submitted in any intelligible form, from camera ready artwork to telephone orders voice, or by data transmission via the club's BBS, telephone (202) 561-2475.

To make inquiries or place an ad, call or write:

        Jack MacKenn (703) 371-7548
            415 Camden Drive
            Falmouth, VA 22405

ADAM'S HOUSE

HARDWARE

Item	#	Price
64K MEMORY EXPANDER CARD	117	$29.95
256K CARD TO 1 MEG REQ. PRINT CARD	149	$39.95
256K MEMORY MODULES FOR ABOVE CARD	290	$39.95
64K TO 256K EXPANDER CARD W/64K	543	$39.95
256K MEMORY CARD - REQ. PRINT CARD	544	$69.95
DOT MATRIX PRINTER CARD (NO CABLE)	119	$34.95
PANASONIC KXP1180 PRINTER *	166	$179.95
PANASONIC KXP1180 W/CARD/CABLE/ETC	545	$219.95
PANASONIC KXP1123 PRINTER *	298	$249.95
*FREE $33 Patch package : Easy printer patch, Fastpatch, Adamcalc patch, FilePrinter		
PANASONIC PRINT RIBBON - BLACK	195	$5.95
PANASONIC COLOR RIBBON - 6 colors	478	$9.95
Choose Red, Green, Blue, Brown, Purple, or Yellow.		
PANASONIC RIBBON RELOAD-3 ea Black	196	$10.95
MI 82 SERIAL/PARALLEL CARD	466	$69.95
ADAMLINK MODEM - NEW IN BOX	161	$49.95
1200 BAUD EXTERNAL MODEM	516	$49.95
9" GRN SCRN MONITOR & CABLE	464	$99.95
13" COLOR MONITOR (RGB/Comp2) cable	473	$299.95
POWER SUPPLY W/COVER & LIGHT KIT	121	$49.95
ADAM PRINTER (NEW)	259	$99.95
ADAM PRINT RIBBON - BLACK	156	$5.95
ADAM RIBBON PANCAKE - 3 BLACK	493	$9.95
ADAM PRINTER PRINTWHEEL - PICA 10	239	$4.95
ADAM KEYBOARD W/CABLE (NEW)	240	$14.95
ADAM CONSOLE, KEYBOARD, POWER UNIT	221	$129.95
ADAM CONSOLE WITH KEYBOARD	182	$69.95
DIGITAL DATADRIVE (NEW LATEST)	115	$34.95
DIGITAL DATAPACKS - 10 LORAN TAPES	263	$15.00
DIGITAL DATAPACK - GENERIC EACH	124	$2.00
SMARTBASIC OR BUCK ROGERS TAPE	144	$2.95
SWITCH BOX AND RF CABLE	227	$7.95
HAND CONTROLLER (BLK) 2 EA	207	$6.95
ADAM COMPUTER SYSTEM MANUALS	238	$24.95
ADAM SYSTEM WITH PROGRAM PACKAGE*	266	$199.95
*Smartlogo, TDOS, RecipeFiler, SmartLetters & Forms, Flashcard, Flashfacts, Zaxxon		
ADAM MODULE #3 SYSTEM (NEW)	459	$149.95
COLECOVISION GAME SYSTEM (NEW)	344	$49.95
COLECOVISION POWER TRANSFORMER	339	$19.95
160K COLECO DISK DRIVE *Free SW	171	$165.00
320K MI DISK DRIVE (NEW) *Free SW	172	$199.95
720K MI DISK DRIVE (NEW) *Free SW	198	$249.95
1.44 MEG 3.5" DISK DRIVE (IN '91)	539	$349.95
* $43 software package: RecipeFiler, SmartLetters, FlashCard, FlashFacts, Zaxxon		
DK DR CONVERSION KIT - 320K	341	$89.95
DK DR CONVERSION KIT - 720K	347	$109.95
ADAM IMAGE MAKER CARD 80 Col	530	$169.95
Check with us for premodified game (Video) boards on which the AIM is installed.		
MIDI-MITE DIGITAL INTERFACE	463	$69.95
Includes Cables, Mini-Recorder and Video Tunes Playersoftware.		
SEQuel - software adds editing	541	$24.95
40 MB SINGLE ADAMNET HARD DR	524	$379.95
Or choice of non-Adamnet version with clock from MI available late 1991.		

CABLES - AH stocks cables for every need.

Item	#	Price
RF CABLE - 10 FT - RCA PLUGS	342	$3.95
MONITOR CABLE WITH AUDIO	177	$7.95
KEYBOARD COILED CABLE	176	$3.95
DISK DRIVE FLAT CABLE	283	$3.95
ADAMLINK MODEM CABLE	453	$9.95
12' HAND CONTROLLER EXTENSION	454	$7.95
PRINTER INTERFACE FLAT CABLE	125	$12.50
PRINTER INTERFACE SHIELDED CABLE	181	$24.95
SERIAL CABLE (MI82) MODEM/TERMINAL	469	$12.50
CENTRONIC 10' MALE/MALE CABLE	503	$14.95

GAME HARDWARE

Item	#	Price
SUPER ACTION CONTROLLER SET	320	$49.95
ROLLER CONTROLLER SET W/SLITHER	321	$44.95
DRIVING MODULE #2 Turbo Cart	332	$39.95
ATARI ADAPTER MODULE #1	331	$44.95
GEMINI GAME SYSTEM - Atari	335	$39.95

CARTRIDGES

We stock a variety of Coleco Game Cartridges priced from $8 to $19.95. We also have Atari 2600 Cartridges and Intellivision Cartridges available in limited supply. Send for our latest catalog for the current listing.
Current $8 Colecovision Cartridges include: Donkey Kong, Smurf Rescue, Venture.
$10 Cartridges include: Carnival, Donkey Kong Jr., Mr. Do, Sammy Lightfoot, Slither, Space Panic, Subroc, Turbo, Victory, Zaxxon.
$14.95 Cartridges: Blackjack/Poker, Cabbage Patch, Centipede, Cosmic Avenger, Defender, Fortune Builder, Gorf, Looping, P.Pepper II, Pitall, Space Fury, War Room.
$19.95 Cartridges include: 2010 Graphic, Antarctic Adventure, Buck Rogers, Decathlon, Destructor, Dukes of Hazzard, Frogger, Gateway, HERO, Lady Bug, Montezuma's Revenge, Mountain King, Mouse Trap, Omega Race, Pitfall II, Pitstop, Popeye, Quest, Superaction Carts, Super Cobra, Tutankham, War Games, More coming! Some Rare.
We trade for and purchase Game Cartridges. At this time we are expecting a large number of new Colecovision Cartridges to add to our catalog listing. Send your listing of games you wish to trade or sell (credit may be applied to purchase of hardware/software in this ad or from our current catalog).

SOFTWARE AND GAMES

Item	#	Price
SPEEDYWRITE 2 WORD PROCESSOR	188	$29.95
SPEEDYWRITE SPELL (64K REQ)	265	$19.95
EASY COME EASY GO (FINANCIAL)	525	$15.95
COPYCART+ 2.0 (COPY CARTS)(DISK)	308	$15.95
FILE MANAGER V2 (UTILITIES)	272	$17.95
MEDIA-HELPER (UTILITIES NOT IN FM V2	542	$14.95
RAMBOOT (FOR MEMORY CARD USE)	256	$19.95
PRBOOT (217) + SMARTDSK III	216	$34.95
SMARTDSK II (D2 RAMDISK)	218	$14.95
AUTOBACKUP (LOADS/SAVES RAM)	340	$14.95
POWERPAINT (105) + PAINTAIDE	187	$29.95
POWERTOOLS (USE W/POWERPAINT)	322	$11.95
FONTPOWER (106), SPRITEPOWER (107), AND		
CLIPPER (108) ALL THREE PIECES		$34.95
PRINT WORKS (219) +BORDERSPLUS(261) BOTH		$34.95
PERSONAL CALENDAR UTILITY	481	$14.95
SWIFT LABEL PRINTSHOP	482	$14.95
SMARTLETTERS & FORMS (NEW IN BOX)	192	$5.00
RECIPE FILER (NEW IN THE PKG)	215	$5.00
FLASHCARD MAKER (293) + FACTS	294	$5.00
RICHARD SCARRY'S WORDBOOK	285	$9.95
SMARTLOGO WITH MANUAL (NEW)	163	$9.95
ZAXXON GAME ON DISK ONLY	310	$5.00
GoDOS WITH GoBASIC V1.2	166	$14.95
CLIP ART VIEWER AND CONVERTER	494	$24.95
ADAM'S DESK TOP (DK OR DP) NEW	526	$24.95
ADAM'S DESK TOP ON CARTRIDGE	527	$39.95
ROBOTHIEF GAME NEW	528	$17.95
INVOICER 3 INVOICING AND INVENTORY	242	$19.95

BOOKS, MANUALS, VIDEOS

Item	#	Price
BASIC PROGRAMMING BOOK W/SOFTWARE	536	$14.95
SOFTWARE REVIEW MANUAL - 175 PAGES	529	$19.95
ARTWORK REVIEW MANUAL	533	$9.95
FROM BASICS TO BASIC BOOK	107	$15.00
LEARNING TO READ WITH ADAM	131	$22.95
LEARNING TO WRITE WITH ADAM	601	$22.95
LEARNING TO DRAW WITH ADAM	150	$22.95
SOFTWARE DEMO VIDEO #1 OR #2 EACH	122	$12.50
HACKER'S GUIDE VOLUME 1	132	$12.50
HACKER'S GUIDE VOLUME 2	133	$12.50

NEW PARTS FOR REPAIRS

Item	#	Price
CONSOLE LOGIC BOARD	207	$59.95
CONSOLE GAME BOARD	225	$39.95
MODULE #3 LOGIC BOARD	267A	$39.95
PRINTER LOGIC BOARD	262	$29.95
PRINTER PRINTHEAD (NEW TYPE)	423	$29.95
PRINTER POWER SUPPLY	199	$49.95
COLECOVISION GAME BOARD	531	$39.95
NEW CABLE AND SWITCH BOX	227	$6.95
WE STOCK A COMPLETE LINE OF ADAM AND COLECOVISION REPLACEMENT PARTS FOR EVERY NEED		

REPAIRS Ship to (add this line): 1829-1 County Road 130

24 HOUR TURN-AROUND REPAIRS INCLUDE PARTS & LABOR
$15 REPAIRS 64K MEMORY CARD, PRINTER CARD, ADDRESSER CARD, AUTODIALER, AND KEYBOARD.
$35 REPAIRS ADAMLINK MODEM, DATADRIVE, COLECOVISION, LOGIC BOARD, GAME BOARD.
$50 REPAIRS CONSOLE WITH DATADRIVE, MODULE #3, PRINTER, OR 160K DISK DRIVE (ADD $25 FOR LARGER CAPACITY DISK DRIVES)
WE DO MODIFICATIONS AND REVISION UPDATES ON ADAM
SHIPPING CHARGES VARY BY WEIGHT - $6 TO $10
MULTI-DEFECTS IN COMPONENTS COST ADDITIONAL
CALL FOR SPECIFIC ISOLATION OF PROBLEM PRODUCING COMPONENT BEFORE SHIPPING! 1-800-999-5040, IN MANY CASES WE CAN SAVE YOU A SERVICE FEE!

ADAM INTERNATIONAL MEDIA

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

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

A two year subscription earns you 1 bonus datapack or 2 disks from our program library. A three year term earns you 3 datapacks or 6 disks. Your subscription begins in the current quarter unless you specify different. Texans pay 6.75% State Tax. Also, Now buy SAMMY LIGHTFOOT CARTRIDGE for only $5 when you subscribe to AIM.

THE FUTURE OF ADAM
by Guy Cousineau

Notes for an address to the ADAMCON 03 convention

At the beginning of this convention, Lyle Marshand gave us an overview of ADAM's beginnings and the state of ADAM today. In talking about ADAM's future, I would like to go back to prehistoric time - the time before ADAM! Sometime in the 1970's a new toy came to the market: a machine that plays ping pong, tennis or hockey. This game, like so many others to follow, attached to your TV set and had a glorious black and white display. Well it gained so much popularity that imitations quickly followed in an attempt to get their share of the market.

A little later, ATARI came out with its COLOUR video arcade game that you could play at home. And then .Came INTELLIVISION and COLECOVISION. Those who say the graphics on all these and a few other minor competitors were generally more impressed with the graphics quality of the COLECOVISION.

COLECO had also made a promise: COLECOVISION, the expandable home entertainment system. They fairly quickly delivered expansion module 1 so we could play the competitor's cartridges, and then expansion module 2 so we could drive like the DUKES OF HAZARD. We then saw the super controller and roller controller, which helped create faster and more complex action on the game screen.

While this was happening, COMMODORE was making its entry from a different venue: the VIC 20! This wonderful micro computer came with a built-in BASIC and a whopping 2K of memory, graphics capabilities, and a sequential tape drive that used ordinary audio cassettes for storage. This machine also played arcade games like its competitors and it was expandable: if you got enough boards for it, you could get BASIC to run with about 28K of usable memory.

The VIC 20 flourished...but of course, the competitors were on the way. Timex,

Atari, Tandy, to name only a few. Of course, Commodore was not to be outdone as they were already working on their 64 which could be used as an upgrade to the VIC.

But where was COLECO in all this? They were making promises of the expansion module 3 for the COLECOVISION...the ADAM computer. Yes by then it had a name. Promises, production delays, more promises, and finally it came out...and in very small quantities.

I was probably the first one in Ottawa to buy my expansion module 3 at about $600. What a bargain compared to the computer competitors who could only provide a fraction of what ADAM had for about twice the price. This was indeed the affordable computer.

People started abandoning their VIC 20's to buy a real computer. Wether it was an ADAM or not is unimportant. What matters is that the VIC became obsolete and quickly disappeared from the stores. The VIC did not die! User's groups popped up all over. It seemed the more it became difficult to find hardware and software for the VIC, the stronger the users groups became. COMPUTE magazine was at first entirely devoted to the VIC 20. Gradually, this magazine expanded to provide support for the COMMODORE 64 and later the 128 and AMIGA. By the mid 80's, it became virtually impossible to find anything in print on the VIC 20 or the VIC 20 itself. The VIC eventually died.

Just when COLECO appeared to be topping the market in affordable home computers, their marketing problems began to take their toll. Faulty operating systems (R57 R59), bad SMARTBASIC tapes, bad tape drives, faulty printers, instruction manuals with typos, and perhaps the worst of all, waiting what seemed like forever for the first disk drive. Between these problems and the bad press aimed at COLECO, they finally decided to drop their TOY; after all if it came from a toy company it could only be a toy.

Did the ADAM die? No! We had learned

from the VIC people that users groups were the way to go. FAMILY COMPUTING, to my knowledge, was the only magazine to publish ADAM programs. But eventually they stopped. I belonged to several pioneer user's groups via newsletter subscriptions: Sprite Chaser, AUGment, Garden of Adam, Nibbles and Bits. Where are they today? Why did they disappear?

Another means of support came form third party software development. Most of these are not large companies. AJM Software, for example, is composed of two people who work on developments for the ADAM in their spare time. While their might be little overhead, there is also little profit to be made from the sale of ADAM software....the market is just not that big.

Third party hardware developments gave ADAM a good shot in the arm. We now have high speed modems, 80 column interfaces, external printer capabilities, hard drive capability, alternate sources of disk drives, etc. You have probably seen most of these during the course of this weekend; they help make the ADAM a powerful little computer. There are also some impressive plans for even fancier peripherals: the latest developments in the MIDI interface, sound digitizers, VGA compatibility, formatting on 8 drives simultaneously, and so much more.

Third party repair outlets are an essential part of the support system. After Honeywell (USA) and Dale Integrated (CAN) stopped repairing ADAM's, we had nowhere else to go. Some people gradually picked up the slack. But what will happen if no one wants to repair ADAMs any more? I am aware of 2 major sources of repair at the moment. When I read my SURVIVAL GUIDE I hope to find a few more. Are some of you interested in performing repairs in order to keep ADAM alive?

Local and National users groups are perhaps the most important support networks. Thanks to these, we have been able to help each other out. ANN,(the Adam News Network), a very ambitious undertaking, has proven effective in disseminating information of general interest. You might think I know a lot about ADAM; I don't know everything! ANN has provided me with additional information on my areas of primary interest, and also on other areas about which I often receive questions.

Yesterday, you heard about what ANN is doing and proposing to do. Their new projects include an ombudsman and the management of a national name/address list. Are you willing to support ANN by volunteering a bit...okay a lot of your time to one or the other of their activities?

The **ADAM SURVIVAL GUIDE** is another product that would have been impossible without support networks. Barry Wilson and Mel Ostler gathered information from several sources of expertise to compile the most comprehensive source of information on ADAM. Do you have your copy? Will you encourage other ADAMites in your area to buy one? (See page 2..Ed)

The support systems I have been talking about are all essential components of recipe for the survival of ADAM. Unfortunately, support systems tend to be ephemeral. The users/clients must share the blame for the demise of suppliers and users groups.

Rich Clee told us about MTAG (Metro Toronto Adam Group) and its exploits. While several groups are diminishing in size, MTAG is growing. I am very impressed and we could all learn a thing or two from MTAG's dedication to the ADAM.

Our OTTAWA users group was founded by a zealous youngster who gathered an amazing amount of technical information and software (not all legally). The group almost collapsed when our founder left but it was revived by our current president Ron Mitchell. Existing members were reunited and we made a membership drive which swelled our ranks to about 50. This year, our membership is down to half that number; we may lose another half by next year.......why?

Are people disappointed with the support

they are receiving from the club? Are they leaving the flock to buy a REAL COMPUTER? If so, what is happening to their ADAMs?

I recently picked up a power supply and joysticks for the COLECOVISION at a garage sale. Being a frugal person, I feigned ignorance and asked the seller where these came form. He said COLECO of course and produced from the garbage a non working COLECOVISION unit which he gave me at no cost. When I took it home, it was working fine. So why was it in the garbage and why did I not find out more? Having forgotten at which of hundreds of garage sales I acquired this item, I could not get back to the owner.

On another occasion, I came across a practically new ADAM system. Frugal to the limit, I examined this strange animal, pretending not to know what it was. The seller eventually appeared and asked for $500. As I could not get him to budge at all from that price, I left (this time I took note of the address). I had someone else contact him and tell him about our user's group. He did not seeem interested and repeated his $500 price.

How do you behave at garage sales? How do you behave when you see one in the want ads? Are you an ADAM Ambassador?

We've done our best in our users group to advise our members about new developments and provide technical assistance. We bring an ADAM to our meetings, demo new products, and usually answer member's questions on the spot. We get questions like margins for SMARTWRITER, cell attributes for ADAMCALC, changing colors in SMARTBASIC, etc.

I personally have asked our club on several occasions: WHAT DO YOU WANT TO DO WITH YOUR ADAM? They say LEARN MORE ABOUT IT. That is a hard request to fulfill since there is so much to tell. We have asked them for specifics like I WOULD LIKE TO BUILD A TAXATION PROGRAM or another request which defines the scope of learning. This has usually been to no avail. We have sponsored 2 contests -- nobody entered. So what do

they want? It is your job in each of your users groups to determine the specific requests and needs. If you have any magical ways of determining that, by all means let us know!

I used to subscribe to several national newsletters. For reasons which I will not disclose at the moment, I dropped out for a while. Now the time is right to renew my memberships. Continued subscriptions to these sources of information will ensure their survival. You might think that you are spending a lot of money to find perhaps one or two minor items of interest in each newsletter. But look at it this way: if the newsletter was not there, you would get NO items of interest.

Now for the biggest problem....hardware and software development. As I mentioned earlier, there are very few big developers out there; they are ill equipped to handle low distribution or piracy. A hardware developer may think that a mouse or a scanner is a good idea and spend hundreds of hours and dollars developing something for which there may be no market. Are you telling the developers what you want?

I had a lot of pirated software in my earlier days. I have since cleaned up my act either by deleting the pirated stuff I was not using or by sending a contribution for those that I am using. Prior to this weekend, I had sold about 15 copies each of DISK DOCTOR and INDEX-ER. Over the last couple of days I sold 7 of the 8 copies I had brought with me. Obviously I underestimated the demand for these programs.

A few suppliers carry my products but I have received very little in the way of royalties in the last year. That says a lot about ADAMCON. It gets us fired up and people buy. For that I wish to express my thanks to those of you who will help encourage suppliers this afternoon at the store.

I figure that I get a net profit of about $1 for each $10 item I sell. If I don't get that $1 once in a while I will go out of business. Although pirated

copies don't create a loss of inventory like shoplifting, I need a lot of $1 sales to subsidize long distance charges, stationery costs, the mailing of public domain volumes, etc. IS it worth it to you to save $10 or $20 on software acquisition if you run the risk of depleting your sources of supply? How many developers have disappeared in the last decade? Why do you think they have disappeared?

I use my ADAM for enjoyment. Occasionally, I come across an idea for a program that may be useful to others. If others wish to buy it then all the better for me. Although sales are not that important to me, remember that other people depend on sales for their survival.

So how do we stop piracy? Keep reading about piracy and talking to others about it. Another solution lies in the software developers. An item at $30 or $50 is more likely to be pirated than one at $10 or $20. If we keep our prices low we may reduce piracy and enjoy a greater legal circulation of our products. Register your software! Most items come with some sort of registration sheet. After you have experimented with your acquisition a bit, send it the registration along with your comments about the program. This accomplishes several things:

        confirms that you have a LEGAL copy or
        alerts the developer of a questionable
           source of supply
        tells developer what you like and
           don't like
        gives developer food for thought for
           revisions/upgrades
        gives you first shot at revisions
           since developer has your address

Another touchy subject is BETA TEST versions. Developers will usually send a pre-release version of new software for testing. These are usually marked BETA - DO NOT COPY or have a version number like 0.9 -- don't copy and distribute these, even if public domain, without the consent of the developer.

SO WHERE IS ADAM GOING? That's what I

was supposed to talk about in the first place. If the current trends continue, I can only predict that the bubble will eventually burst and that the ADAM will disappear in just a few years. It will become a relic like the VIC 20 -- If on the other hand, we revise our way of thinking, we can survive a lot longer. Rich Clee perhaps said it best when he talked about an esprit de corps in his users group. We are a team and everyone should be an ambassador.

When I spoke of the public disappearance of ADAM, I mostly meant the disappearance of support networks, borderline users, and general visibility. I forsee a retired Guy Cousineau still plugging away at his ADAM, still learning more things about it and writing new programs.

When I think of the uses that I have for a computer, there is nothing that I do regularly that I cannot accomplish on the ADAM. Speed? How much speed do you really need at home? Graphics? You might have a point there but look at the pretty pictures that COLECO had in their games. Are those not good enough? Even from SMARTBASIC, it's possible to create such intricate designs. All we have to do is learn how. If you want more, what about VGA on the ADAM? Why not!

What else do we need for ADAM's survival? From a hardware point of view, I think we have just about everything we need. What will real time clocks, scanners, mouses or is it meeces, sound digitizers, etc., do YOU need anything new in hardware? Have you told anybody about it?

What do we need in the way of software? Often, developers guess at what might sell. During one of my numerous exchanges with Barry Wilson about the Adam Survival Guide, he asked me about sorting EOS directories. He had a program that worked some of the time. I asked him to send it to me and I'd have a look at it. After a cursory examination of the program, I decided to write one in FILEMANAGER style -- the birth of EOS DIRECTORY SORTER. I sent Barry a BETA test version, he thought it was ok or

perhaps better than ok and now it is on the market. That's how it should be done!

So make up your wish list; not a frivolous one. What would you buy if it was out there? Do you want or need:

 More documentation? On what topic?
 SMARTBASIC enhancements: PRINTUSING?
 80 column compatibility?
 easier sprite animation?
 better use of expansion RAM?
 a BASIC compiler?
 Something like SMARTFILER that works?
 More sound oriented software?
 An ADAMCALC that handles bigger sheets
 that prints in landscape format?
 More graphics software?
 More graphics games?

Once you have made your wish list, ask yourself if you would be interested in participating in the development of such software. Please indicate your interests and abilities on your list. You may think that you don't have a lot to offer -- think again! In 1985, I knew nothing at all about machine language programming. Just a couple of years later, I was writing complex machine language routines for SMARTBASIC, developing self booting software, and writing parts of the TDOS operating system.

ADAM's survival depends on supplying the support and development for those items of interest which will keep ADAMites USING their computer. Once the user loses interest the game is lost. Go back over your wish list and try to include the wishes of others, particularly those marginal users who are about to fall off the fence (on the wrong side). Think of the gripes and complaints you have heard and translate them into a positive and meaningful request.

Once we have our wish list, what do we do with it? If you belong to a user's group, pass it to them. If you don't, you can send your list to the ADAM NEWS NETWORK or to me directly. Once way or another, I hope my mailbox gets filled with hundreds of requests for new/improved software for the ADAM. I will

compile the requests and try to put them in some semblance of order and priority based on the popularity of a request. In cases where the requested software already exists -- you might get a few surprises there -- we will pass that information along to the requestor. Where the rest of the wish list goes from there depends on the level of support we can get for the development of the software in question. I am confident that the developers will be happy to go out of their way to please you.

In conclusion, think of what you have invested in your ADAM. My hardware investment runs at about $2000; software...who knows? If ADAM dies, so does your investment. How much more will you need to pay to get another computer? Don't think just of the computer, think also of the hundreds of dollars you'll need to get a word processor, printer, spreadsheet, games, etc. Think also of the hours you will require to LEARN how to use all that new software. Is it worth your while to spend a bit more time and/or money to protect your investment? ADAM's future is in all your hands!

> Guy Cousineau
> 1059 Hindley Street
> OTTAWA Canada K2B 5L9
> OTTAWA RCPM (613) 952-2289

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A.N.N. (ADAM NEWS NETWORK) CONVENTION REPORT

BARRY A. WILSON, EDITOR & FOUNDER

The Adamcon was kind enough to allow A.N.N. to make a report on its activities at the convention.

While A.N.N. did provide start-up money for Adamcon 03 (along with Alan Neeley of Adam Link), and while the convention Chairman was Dean Roades, the A.N.N. Co-Editor, its was 463 AUG that planned and put on the very wonderful Adamcon 03. Any and all credit for 03 goes to DEAN ROADES and 463 AUG.

I gave a brief over-view of A.N.N. indicating that our biggest asset was the members of A.N.N. speaking next and that they really made A.N.N. successful, not myself.

RICH CLEE gave a report on the GALLERY OF HONOUR and its purpose to give those who give to Adam the recognition and honor they so richly deserve. That is is better to let them know now how much we appreciate them rather than to mourn their passing later. Rich indicated that all members of this years committee were turning this function over to a new committee to be headed by JERRY VRANCKS.

{This should make the former committee members eligible for the Gallery of Honour for 1992}.

At the final banquet, the Gallery of Honour awards consisting of a Certificate designed by Patricia Herrington which was placed in a frame for those receiving this Honor.

Lyle Marschand, Patricia Herrington, Guy Cousineau, Norman Castro, Alan Neeley were present to accept their awards. Ron Collins accepted for Big John Lingrel, Pat Herrington accepted for Sol Swift, Gary Bowser accepted for Syd Carter, Dean Roades & Barry Wilson accepted for Rob Friedman, and Guy Cousineau accepted for Tony Morehen.

DAVID COBLEY spoke on his duties as AUG COORDINATOR. He gives assistance to new and old AUGS in keeping them alive and well. He helps with addresses of possible members, newsletters, PD library, etc. Whatever can be done to keep our AUGS doing well. BUT they must ask for help and let us know when they need help.

RON MITCHELL spoke on the EXPERT PANEL and Ron had prepared a very nice handout on it. We NEED MORE VOLUNTEER EXPERTS for the panel but are functioning well with what we presently have.

Please contact Ron to volunteer to participate on this panel.

RON also gave a report on the Master

Address list. Ron needs help on this and Herman Mason has now volunteered to help. Jean Stone had some good suggestions. It IS IMPORTANT to let the Adam AUGS, BBSs and dealers know that you would appreciate their participating in and cooperating with our Master Adamite Address list. (Basically we want the mail lists so we can use them to help Adam and Adamites).

DEAN ROADES, Co-Editor of A.N.N. monthly disks, spoke briefly on the continued growth of the monthly news and information service.

BART (ZONKER) LYNCH, Telecommunications Editor spoke briefly about the translation services he along with Bob Blair are offering. The A.N.N. disk can be received in EOS, CPM ASCII, or CPM Wordstar. We now can receive contributions to A.N.N. in any of the above three formats. With the cooperation of Jim Duffy & Al Fitzgerald of St.Louis AUG we are able to handle some IBM translations also.

MEL OSTLER spoke on the ADAM SURVIVAL GUIDE. It was out and sold at Adamcon 03. Sales were good. I think it is a nice looking book and certainly crammed full of helpful information at 248 pages. The cost now that convention is over is $16.95. In the USA add $3.05 for postage, etc. (See page 2 for details .. Ed) In Canada there are various amounts to be added for postage & taxes depending on distance involved.

A.S.G. was Co-edited by Mel Ostler and Barry Wilson. Funds from A.S.G. sales will go to support other A.N.N. projects such as paying for the awards for the Gallery of Honour, start-up costs for Adamcon, etc.

MEL OSTLER also spoke on another A.N.N. project he is heading. This is to keep an index of hardware, including parts so that adamites having hardware to sell or exchange and those needing hardware or parts can find out about each other.

HERMAN CHERNEY a new member of A.N.N. spoke briefly on his project, ADAMITE ADVOCATE. This is to be an informal

private means of settling disputes between adamites and dealers, etc. It is meant to resolve this matters amicably and before they become public fights. It is meant also to help dealers, especially where they have a customer that nothing will satisfy. The Advocate can verify that significant good faith efforts were made to satisfy the customer and that the customer is being unreasonable. Of course, the usual functions of interceding for customers with dealers will also be included. We appreciate Herman Cherney's volunteering to help A.N.N. and Adam.

(NOT PART OF THE A.N.N. CONVENTION REPORT BUT TO BE PART OF A.N.N. IS THE FOLLOWING:)

GUY COUSINEAU is establishing an Adam "Wish List" function. Guy indicates that many hardware & software producers and programmers do not know what the adam community wants developed and the adam community often does without software or hardware because the producers/programmers do not know what is wanted. An example was an EOS Directory Sorter program I wanted but did not exist. I mentioned it to Guy, he created the program, made me very happy. Guy sold approx. 10 copies of this at Adamcon and that made Guy happy. In any case I have asked Guy to move this project under A.N.N. and to head it.

The Wish list idea originated with a column written by Dean Roades for A.N.N. and his 463-AUG Newsletter.

LANI BRITO. A.N.N. CONTEST EDITOR. Contests are progressing well, certainly better than when I was running them. We still need dealers to volunteer prizes and a greater participation.

Part of the purpose of the contests are to give all adamites a sense of belonging, something they can participate in. Many Adamites do not have the skills to ask complex questions or to use complex information made available on A.N.N., BBSs or their Newsletters. But we need them and want them to be a more active part of the Adam community. The

contests are such that anyone can enter and win. We hope this helps bring more Adamites into the Adam family with a sense of belonging.

PROPOSED PROJECT. STANDARDIZATION OF HARDWARE & SOFTWARE.

This project may be activated as time and interest permit. There eventually must be some standardization within the Adam community, so Adamites can buy things and use them without going through all types of manipulations to make incompatible Adam items finally work together. A volunteer could help get this activated.

VOLUNTEERS: A.N.N. is of course a non-paid, non-profit service organization for Adam and we work through volunteers.

Unfortunately there are too few volunteers and we have to keep asking the same people to make the same sacrifices of time and money again and again. We will burn out people eventually and lose them for the Adam world.

We need more volunteers, even if it is nothing more than typing hard copy to disk or mailing out form letters, or typing information into a data base.

There is something for all.

In this respect I also need someone to keep track of the volunteers, their interests and abilities and to match this with the needs of the various A.N.N. people.

This is basically the A.N.N. report given at Adamcon 03, with slight additions by myself.

BARRY WILSON, Founder & Co-Editor of A.N.N. and A.S.G.

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Speaking of ANN contests, check out the next page for Lani Brito's latest. I'm pleased that I actually got one of these at the right time to include it in the newsletter. So all you clever ones, **HAVE AT IT!**

A.N.N.

PRESENTS

"DON'T WORRY, BE HAPPY !!! CONTEST

****

We all know this very uplifting song by Bobby McFerrin! Now here is YOUR chance to write your own words to the tune! The ANN Contest Editor wants to hear what makes you worry...and what makes you be happy!

Pat Herrington has provided us with her lyrics as examples:

You lost your job, you've got no pay
The bills are still due anyway...
Don't worry, be happy.

You pound the pavement everyday
Nobody wants your resume...
Don't worry, be happy.

The kids brought home a Pekingese
Now the carpet's full of fleas
Don't worry, be happy.

Nothing seems to fit you right
The seat's too loose
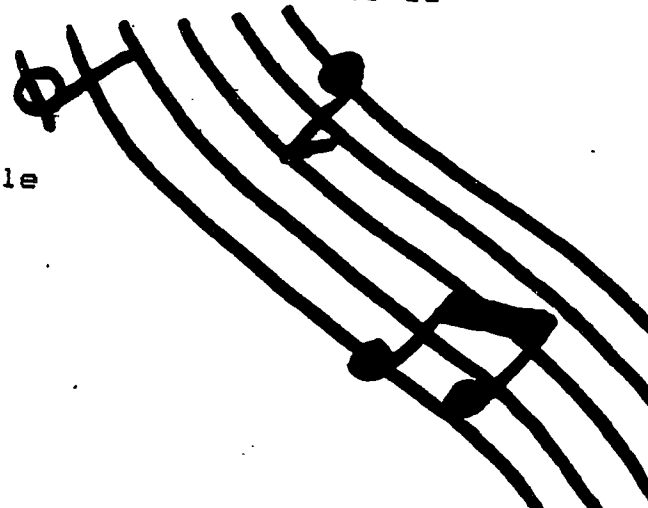The belt's too tight...
Don't worry, be happy.

You finally got an interview
Your suit no longer fits on you
Don't worry, be happy.

You just can't find your other
shoe
Guess it's now a doggy chew
Don't worry, be happy.

****

Send as many choruses as you like, but please keep the lyrics computer-related. Contest ends December 1, 1991. Entries will be judged on originality and humor.

Send your entries to: LANI BRITO
                          ANN Contest Editor
                          6132 Sandcrest Circle
                          Orlando, FL 32819

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