TI-D-BITS

PHILADELPHIA AREA USERS GROUP NEWSLETTER
COVERING THE TI99/4A
AND MYARC 9640 COMPUTERS

FEBRUARY 1991

Volume 11 Number 2

THE "4A" STILL LIVES ALONG WITH ITS COPARTNER "CENEVE"

COME JOIN US AND TAKE PART IN AN INTERESTING AND EVENTFULL YEAR A RENEWAL FORM IS ENCLOSED



EVENTS:

INSTRUCTION
BEING CONDUCTED
ON:

MULTIPLAN AND
TI BASE (A POWERFUL DATA BASE)
LARCE LIBRARY
AVAILABLE.
HANDS ON USE OF
GROUPS GENEVE
SYSTEM WITH HARD
DRIVE AND TWO
FLOPPIES.



наррч

O A L E D T I D E ' A



The Philadelphia Area TI-99/4A Users' Group meets twice a month. On the first Saturday of any given month, we meet at the Bucks County Youth Development Center, (YDC, which is next to Meshaminy Mall), Administration Building, beginning at 10:00 am. On the third Saturday of each month, we meet at Drexel University, in Matheson Hall at 34th and Marker St. Phila. Pa in 'Room M-412. Hembership to The Philadelphia Area TI-99/4A Users' Group is available to all. We invite anyone that is interested in the TI-99/4A to visit us. Stop in and see what is available to you for your TI and how membership can benefit you!

Current executive board consists of:

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REMEMBER to be considerate when calling any of the above people. Limit your calls to the early evening hours. $\{6pm\ to\ 9pm\}$

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The Philadelphia Area TI-99/4A Users' Group's program library is available to all active members at NO CHARGE for copying to your disk. A charge of \$2.00 per disk is made for club supplied disks for members. Non members may obtain copies of the library for a fee of \$5.00 per disk. A catalog of the library's contents is given to all new members upon request and updates will appear in this publication from time to time. To obtain material from the library, contact the librarian for the best procedure to obtain your requests.

**** NOTICE ****

THE MARCH COPY OF TI-D-BITS WILL BE THE LAST ISSUE YOU WILL RECEIVE UNLESS YOU HAVE RENEWED YOUR MEMBERSHIP []]

CHEZ GENEVE By Chip Chapin Taken from West Penn 99'ers Newsletter

1,015,808 bytes...like 1 Meg. RAM, Man... Just like it said in the ad. The MEMEX 504K Card from Bud Mills Services (designed by Ron Walters) is just about the easiest add-on you can get. The card is a smooth production model, very clean, very neat. It looks and feels very sturdy, although it does not come in a clamshell, which makes it the only card in my PEB which does not have Up to this point, I had a card in every other slot but that obviously had to change. I chose to put it next to the GENEVE card, although I am sure it could have been put most anywhere in the box.

The card is a snug fit, a little more so than any of the other cards I have. But once you install it, that's all there is to it - no cables to attach, no pinouts to worry about. There is a set of DIP switches on it, are factory set in 'conservative' position. Only two of the switches do anything in the 504K configuration, and one of them is concerned with the LED. The other will provide you with / more pages of RAM, if you change the settings. But, according to the documentation, you should do this only if you know all of the cards you have in the PEB decode the two 'expansion' lines on the PEB Some information is provided on cards which are known not to do this. but you will obviously have to make some inquires if you are not sure.

So aside from another red LED my PEB, what did I gain? Naturally, what I was interested in was the amount of RAM left after booting up. I was getting tired of having to run special Autoexec files to load TGA, Hyper-Copy, Fortran, etc., and with the extra RAM I had hopes of being able to run them in my normal configuration - that is, with the TIMODE statement and with a decent size RAM drive. As you might guess, I have made use of the batch file Menu capabilities, and one quickly gets spoiled with the one-keystroke aspects of it. So I set my RAM drive setting back up to DSSD size (RAMDISK 180) and tried it out. By the way, I am using

MDOS 1.14. The first program I tried it on was QDE V1.9. It worked like a charm! Then I tried TCA. No good. figured out why, but the Haven't documentation does say that it needs all the memory it can get, so perhaps the checks it performes on loading, do not tell it that sufficent memory is available. As if 458,752 bytes would not be enought got it! Hyper-copy ran with no problems. I then tried it on FORTRAN 9640'S QDE -- no good. I did not check the actual Fortran compiler, so I can not report on that. MYART ran fine, but I only occasionally had memory problems when running it in the TIMODE statement, so it hasn't had a fair test yet.

I have to say that I am certainly satisfied with my purchase. It has performed flawlessly, hour after hour, and has given me the convenience I wanted in most cases. The other cases are due to software which was written before this memory become available. In those other cases, perhaps the program authors will be willing to some changes now that the memory is available. In any event, I now have the capacity to run all those huge commercial-grade programs which MYARC is sure to be putting. our any day now...or was that last year's April Fool joke? What ever. The point is, I do have the capacity and when its useful, its automatically being used. And we all know that old saying "Programs automatically expand to fill the available memory", which in this case wouldn't be bad. now would it?

FROM THE TI ORPHAN NEWS (BUG NEWS 12-90)

by Frank W. Alystock Taken from the WEST PENN 99 ers News

I have just received a new catalog from KB COMPUTER CONCEPTS and anyone interested in new games or if you liked the format of WHEEL OF FORTUNE you should see the version that is offered by them. The program SPINNER can be played by 1 to 3 people. The game comes with 120 phrases on disk. Enought for 40 games. The program allows you to make up your own

phrases. They will also accept your disks and will reimburse you at \$1.75 per disk. The game sells for only \$6.00. You might write to: KB COMPUTER CONCEPTS, % BERGMAN, 634 Parks Tower, 3001 West Bancroft St., Toledo, OH 43606.

From the CEDAR VALLEY 99'ER NEWSLETTER (12-90) by Bob Wahlstrom . HAM RADIO AND THE TI-CW PROGRAM.....

This is an answer to the questions Gary Bishop had in the November Newsletter about the program that I purchased from AC5D COMPUTER PROGRAMS. Moore Sr., P.O. Sam H. Stigler OK. 74462. The version that ordered was for use with the Mini-Memory. Another version available for use with the memory expansion, disk drive and editor/assembler. At the same time I ordered it, The Mini-Memory and cassette version was the only one available.

The way the program gets your transmitter keys for CW is to use the earphone output jack on the T.V., or connect across the speaker. This signal then switches a relay which then keys the ham rig. This lets you see your transmission on the screen as well as hear the code transmission. I added a one transistor amplifer circuit before the relays and this seemed to make things work better.

At the time I purchased this program I got in on a half price offer which got the price down to \$10.50 plus postages and handling. The program will work Ok but you will need to be receiving a fairly strong signal with a minimum of interference.

RAVE 99 Co. after many delays expectes to begin shipping their new PE/2 Professional Expansion system. The unit has a system expansion bus for 32-bit cards. The TI-99/4A and Geneve can use the "B" version of the PE/2, and the GENEVE alone occupies "A" version. The "A" version (Geneve only) supports up to 3-5 1/4 Half-height hard/floppy drives plus 2-3 1/2 hard/floppy drives at a cost of \$309.00. The "B" unit is \$369.00 plus S/H. Both CPU's can be running at the same time with the only limitation being that the peripheral cards can be used by only one CPU at a time. Where no disk access or printing is required

(as in playing a memory resident game) you can have one system printing out reports from disk files while you are playing with the other system.

The TI and GENEVE on the PE/2 togther require a composite monitor unless the TI is equiped with an RGB adapter such as the AVPC card or Mechatronics 80-col. card.

If you don't currently have a GENEVE the PE/2 requires the purchase of a PC-Keyboard at additional cost.

Delivery time for the PE/2 1s 6-8 wks. and for more information contact RAVE at 203 871-7843, 112 Rambling Road, Vernon, CT 06066

MIDI MASTER Interface......

The MIDI interface designed by Mike Maksimik of the Chicago TI U.G. made it's debut. It supports 16 channels at the same time! The MIDI MASTER Interface consists of a special cable, MIDI MASTER software and your RS/232 card and an electronic keyboard or other device with a MIDI port. The music can be written using a word processor of the keyboard can generate the score real-time. Even PC music files can be imported for use with the MIDI MASTER Interface and saved to disk.

MIDI MASTER is available on cartridge for the TI or disk for the GENEVE. Both require a disk system and an RS232 port. The price is \$44.95 and Asgard says that a cassette version will be available in the future.

For more information contact: ASGARD SOFTWARE....703 255-3085 P.O. Box 10306. Rockville. MD. 20849

Some Addresses and Phone Numbers for you who can never seem to find them when you need them:

BUD MILLS SERVICES 166 Dartmouth Dr Toledo, OH 43614 419 385-5946 TI-COMM BBS 300/7/E .. 419 385-7484

HARRY T. BRASHER, 2753 Main Street, Newfane, NY 14108

FEB. '91

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PATIUG

JP SOFTWARE, 1014 Pine Street, Menlo Park, CA 94025 415 328-0885

T&J SOFTWARE, 515 Alma Real Dr., Pacific Palisades, CA 90272

NOTUNG SOFTWARE, 7647 McGroarty St. Tujunga, CA 91042 ... 816 951-2718

TEXAMENTS, 53 Center Street, Patchogue, NY 11772 516 475-3480 or BBS 516 475-6463

COMPRODINE SOFTWARE, 1949 Evergreen Ave., Fullerton, CA 92635 714 990-4577

L.L.CONNER ENTERPRISES, 1521 Ferry Street, Lafayette, IN 47904 317 742-8146 (Voice) 317 423-4879 (FAX)

9640 NEWS, P.O. Box 75-2465 Memphis, TN 38115

CREAT LAKES SOFTWARE, 804 E. Grand River Av., Howell, MI 48843

BILL G. CHAVANNE (TI TAX) 4549 English Ave. Ft. Meade. MD 20755...301 672-1980

COMPUTER BUYERS GUIDE % Douglas Kilarski P.O. Box 55886 Birmingham, AL 35255..800 366-0676

MICROpendium (\$25.00-12 Issues) P.O. Box 1343, Round Rock, TX 78680

DataBioTics (Order Directly)
P.O. Box 1194 (For TI)
Palos Verdes Estates, CA 90274

IDT (CorComp), 2211 E. Winston Rd. Suite G, Anaheim, CA 92806 714 635-1815 (be sure to call first to get RMA for repair or availability of Product)

TIGERCUB SOFTWARE, 156 Collingwood Ave. Columbus, OH 43213

ESD (Electronic Systems Development) P.O. Box 23805, Washington D.C. 20026-380.....301 322-6150 (New HFDC Card)

MS EXPRESS SOFTWARE, P.O. Box 498, Richmond, OH 43944

* NEW RELEASE *

The TI-99/4A now has GEN/DIR the GENeric disk DIRectory By Norm Sellers

A long needed MUST for anyone using disk files and programs.

GEN/DIR provides all generic information possible about files in disk directory. The Disk Directory part of GEN/DIR provides the following:

GEN/DIR will date/time stamp files that have no date/time already. This is compatible with GENEVE date/time stamps.

GEN/DIR allows you to key and save file descriptions for each file, and even for each entry in object files.

GEN/DIR provides directories in 3 forms: it writes a DV80 disk file, and a printer listing of the directory, and it gives a screen display of the directory.

GEN/DIR's generic information answers the following questions about disk files in the directory listing/file/display:

- * Are PROGRAM files BASIC or ASSEMBLY or DATA?
- * Are BASIC programs EXTENDED BASIC or TI BASIC and do they contain imbedded assembly code?
- * What memory locations are used in an assembly program file?
- * Are DV80 documentation files to be printed with the FORMATTER?
- * For object files, what are the entry names needed to execute the files; are they compressed or not; are they absolute or relocatable loaded; what memory is used; are there AUTOSTARTS; are there REFERENCES (these cannot be used under XB)?

Also GEN/DIR indicates what sectors are used for each file and shows how fragmented files are.

The Disk Cleanup part of GEN/DIR provides the following:

GEN/DIR indicates how many sectors are LOST (not used by and files, but marked in use), and quickly frees up all LOST sectors.

GEN/DIR indicates what sectors are BAD by making a "file of bad sectors" and marks these bad sectors in use.

GEN/DIR deletes files with bad sectors without freeing the bad sectors so the file may be re-saved to the same disk easily.

SYSTEM REQUIREMENTS:

A TI-99/4A system with 32K, at least one floppy disk drive, and A/E or TI WRITER Cartridge are required to run GEN/DIR. It is also compatible with GENEVE in GPL mode.

See Page 6 for a sample Printout of a data filled directory.

The complete program may be obtained for a \$30.00 donation.

To obtain the program/s please indicate:

Part 1, Directory\$20.00 Part 2, Disk Cleanup..\$15.00 or FULL Program\$30.00

If interested send request to:
 Norm Sellers
 15 Dorset Drive
 Broomall, Pa. 19008

GAME CARTRIDGE TRICKS

By Dom Sedita
Taken from GTBTIUG Newsletter

Over the years some interesting ideas have been uncovered regarding undocumented information on the original TI cartridges. Specifically, there are some interesting screens and/or applications never published by TI, that users have discovered by

poking around on the keyboards.

Here are two of these special Cartridge applications. The first deals with the MUNCHMAN cartridge. After insertion of the cartridge you receive the "PRESS ANY KEY" message. Press 2 to go to MUNCHMAN and as soon as the first screen appears, hold the shift key down and press keys 8,4 and 8 rapidly. You will access screens not found in the TI manuals.

These new screens will allow you to go to any of three rounds, choose any of 20 screens, and start the game with as many as 10 men. Be advised that in computereze Round 0 is realy Round 1, therefore if you ask for 9 men you will realy get 10.

The second cartridge of interest is TUNNELS OF DOOM. Have you ever encountered trouble trying to get a Cassette program loaded prior to saving it to disk only to have the Tape start then stop with a :READ ERROR" message? What happens is with your disk system turned on, available memory is reduced by a chunk and the lead data information, when the Tape starts playing, tells the computer that there isn't enough memory to load the program so the system shuts down.

This is how to get around that problem using the TUNNELS OF DOOM cartridge. Insert the cartridge and proceed as though you were preparing to play the game. Instead of loading a T of D game, load your Tape program. The memory chips in the T of D cartridge give you the extra room that you need. After the program is loaded, do NOT proceed with the screen instruction to CONTINUE.

At this point, press FCTN BACK and you will be returned to the unpublished screen. The assumption here by TI is that you have loaded the wrong game or that your information didn't get into the computer. What you do get is the load screen that you started with, but also on the same screen is SAVE information.

To save that long tape program that you now have loaded into the T of D cartridge, you just follow the instructions on SAVING and one of your options is, of course, SAVE to disk.

A sample printer listing of a disk directory follows:

SYS1-TST/V File Name	U: Siz	sed=28 Type	34 P	Lost= Entry	O Avail= YY/MM/DD	76 HH	Date=90/11/29 Description	Programmers Info	
BSCSUP	15	DF80	P	NUMASG NUMREP			BSCSUP ERR FUNCTION BSCSUP NUMASG NUM ARGS IN ASM BSCSUP NUMREF NUM ARGS IN ASM BSCSUP STRASG STR ARGS IN ASM BSCSUP STRREF STR ARGS IN ASM		REF
CLCOBJ	25	DF80		G0		01	TO TEST CLC MACRO	ABS FRM @>A000 TO @>A06C F	rf a
DSKFY	34	DF80	C	STAR2			DISK FIXER ON DISK	REL FRM @>0000 TO @>13FF F	REF
DTDIRECTRY	7	DV80					PREV GEN/DIR RUN		
DUMP	28	PROG		(BAS)	90/11/03	01	MEM DUMP IN BASIC	BYTES CODE 3399 LINES	330
EDITA1	33	PROG		(ASM1)	90/11/03	01	EA ASSEMBLER PART 1	LOAD @>2000 LENG >2000	
EDITA2	6	PROG		(ASM)	90/11/03	01	EA ASSEMBLER PART 2	LOAD @>A000 LENG >0410	
LETTER	5	DV80	F		90/11/03	01	FORM LETTER FOR FORMATTER		
MUSICPRE	64	DFBO		EMUSIC	90/11/03	01	MUSIC PREPROCESSOR ASSEMBLY	ABS FRM @>24F4 TO @>34D6	
MUSICPREXN	25	PROG		(AXB)	90/11/03	01	MUSIC PREPROCESSOR LOAD PGM	BYTES CODE 5870 LINES	11
PRNTSCALE	4	PROG		(Y R)	90/11/03	01	BASIC PRINT SCALES	BYTES CODE 486 LINES	31
SKELM1	5	DV80			90/11/03	01	ASSEM COPY BOOK		
cABLE_P	31	PROG	F	(DAT)	90/11/03	01	TI ARTIST PICTURE	-	

The disk file containing the disk directory is a DVGO file named DTDIRECTRY. A sample file is listed below:

SYS1 TST/V	Used-284	Lost=	O Avail=	76 Date=90/11/29
File Name	Siz Type F	Entry	YY/MM/DD	HHDescription
e > .				*********
BSCSUP	15 DF80 F	ERR	90/11/03	Olbscsup err function
220201		NUMASG	, ,	BSCSUP NUMASG NUM ARGS IN ASM
		NUMREF		BSCSUP NUMREF NUM ARGS IN ASM
		STRASG		BSCSUP STRASG STR ARGS IN ASM
		STRREF		BSCSUP STRREF STR ARGS IN ASM
CLCOBJ	25 DF80	GO		01TO TEST CLC MACRO
DSKFX	34 DF80C	STAR2	90/11/03	O1DISK FIXER ON DISK
DTDIRECTRY				19PREV GEN/DIR RUN
DUMP	28 PROG	(BAS)	90/11/03	OlMEM DUMP IN BASIC
EDITA1	33 PROG	(ASM1)	90/11/03	01EA ASSEMBLER PART 1
EDITA2	6 PROG	(ASM)		01EA ASSEMBLER PART 2
LETTER	5 DV80F		90/11/03	O1FORM LETTER FOR FORMATTER
MUSICPRE	64 DF80	EMUSIC	90/11/03	01MUSIC PREPROCESSOR ASSEMBLY
MUSICPREXN	25 PROG	(AXB)	90/11/03	OIMUSIC PREPROCESSOR LOAD PGM
PRNTSCALE	4 PROG	(X B)		O1BASIC PRINT SCALES
SKELM1	5 DV80			01ASSEM COPY BOOK
cable P	31 PROG E	(DAT)		01TI ARTIST PICTURE
	EOF Require	ed Recor	d if TI W	riter Save is used.

TIPS FROM THE TIGERCUB

#37

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Over 130 original programs in Basic and Extended Basic, available on casette or disk, only \$3.00 each plus \$1.50 per order for PPM. Entertainment. education, programmer's utilities.

Descriptive catalog \$1.00, deductable from your first order.

Tips from The Tigercub, a full disk containing the complete contents of this newsletter Nos. 1 through 14, 50 original programs and files, just \$15 postpaid.

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* Tips from the Tigercub * Vol. 3 is now ready. * Another 62 programs,

* routines, tips, tricks. *

from Nos. 25 thru 32. *

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Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 catalog programs, and the remaining disk space been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

TIGERCUB'S BEST. PROGRAM-TUTOR. PROGRAMMER'S UTILI-TIES. BRAIN GAMES. BRAIN TEASERS, BUSTERS!, BRAIN MANEUVERING GAMES. ACTION REPLEX AND CONCENTRATION. TWO-PLAYER GAMES, KID'S MORE GAMES, GAMES, WORD GAMES. ELEMENTARY MATH. MID-DLE/HIGH SCHOOL MATH, VOCAB-ULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

For descriptions of these send a dollar for my catalog!

I'm going to mail out the July and August Tips at the end of June, and go fishing. Imagine, a TI publication AHEAD of schedule! However, in the unlikely event that anyone should send me an order, it will receive my usual one-day service.

Here's another tune for the dulcimer player in the last Tips. Change the TO value to 94 -350 DATA 9,11,13,13,13,13,13 ,16,16,13,13,11,11,11,11,11, 360 DATA 16,18,14,21,18,18,1 6.13.9.11.9.9.9.9.9 370 DATA 21,20,18,18,16,13,1 6.16.9.11.13.11.13.14.13.13 380 DATA 21,20,18,18,16,13,1 6,16,9,13,11,9,8,6,4,4 390 DATA 9.11,13,13,13,13,13 ,16,16,13,13,11,11,11,11,11 400 DATA 16,18,14,21,18,18,1 6,13,9,11,9,9,9,9,9

Here's one for those who like graphics, and those who make a living designing floor tiles. It borrows a bit from a Renko & Edwards program - 100 CALL CLEAR :: F=2 :: BC= 16 :: RANDOMIZE :: DISPLAY A T(2,10): "ESCHER ART": :TAB(1 4); "by": :TAB(9); "Jim Peters on"

180 DATA 8040201008040201010 2040810204080804020100804020 10102040810204080

190 DATA 101020C0000000000808 04030000000000000000003040808 in TI-Writer - just remember that each 90-character line is a separate record, and keep the Alpha Lock down!

However. this is the program that I plan to use to set up a keyfile index of all the newsletters you have sent me, if I ever find the time -

100 DISPLAY AT(3,10) ERASE AL L:"TIGERCUB": :" KEYWORD I NDEX WRITER" !by Jim Peterso n

110 DISPLAY AT(8,1):"Filenam e? DSK" :: ACCEPT AT(8,14):F \$:: OFEN #1:"DSK"&F\$,APPEND :: CALL KEY(3,K,S)

120 P\$="****" :: Y=00 :: M\$
="**" :: P=00

130 DISPLAY AT(12,1): "NEWSLE TTER? ":P\$:: ACCEPT AT(13,1)SIZE(-28):P\$:: IF SEG\$(P\$, 1,3)="END" THEN CLOSE #1 :: STOP

140 DISPLAY AT(14,1):"YEAR?"
;Y :: ACCEPT AT(14,7)VALIDAT
E(DIGIT)SIZE(-4):Y

150 DISPLAY AT(14,13):"MONTH
? "&M\$:: ACCEPT AT(14,20)SI
ZE(-9):M\$

160 DISPLAY AT(16,1):"PAGE?";P:: ACCEPT AT(16,7)VALIDAT E(DIGIT)SIZE(-3):P

170 DISPLAY AT(18,1): "ARTICL E? " :: ACCEPT AT(19,1): A\$
180 DISPLAY AT(20,1): "AUTHOR?" :: ACCEPT AT(21,1): AU\$
190 DISPLAY AT(22,1): "KEYWOR DS?" :: ACCEPT AT(23,1): K\$
200 PRINT #1: P\$&" "&STR\$(Y)&" "&M\$&" "&STR\$(P)&" "&A\$&"

"&AU\$&" "&K\$ 210 GOTO 130

Here's one to have fun with, from an ingenious German programmer. I just couldn't resist adding a tuba to his band.

100 'BY TORSTEN NIEMIETZ, MA RBACHER WEG 3,D-2800 BREMEN 1,WEST GERMANY

110 FOR J=1 TO 10 :: READ T(J)

120 NEXT J :: E=330 :: A=440 :: H=494 :: C=554 :: K=659

:: F=740 :: G=831

130 DISPLAY AT(3,8)ERASE ALL
:"S - O - L - O": :TAB
(10);"MIT COMPAH": :RPT\$("="
,28): :: "BY":" TORSTEN NIEM
IETZ": :"mit Compah by Tiger
cub"

140 DISPLAY AT(18,1):"MAKE UP YOUR SOLO WITH":"KEYS 1 TO 9 ... COME ON !!!"

150 FOR S=1 TO 2 :: CALL SOUND (200,E,3,H,3):: CALL SOUND (200,E,3,H,3)

160 CALL SOUND(200,E,3,C,3):
: CALL SOUND(200,E,3,H,3)::
NEXT S

170 M=E :: N=H :: O=C :: D=8 :: GOSUB 210 :: M=A :: N=K :: O=F :: D=4 :: GOSUB 210 : : M=E :: N=H :: O=C :: GOSUB 210 :: M=H :: N=F :: O=G :: D=2

180 GOSUB 210 :: M=A :: N=K :: O=F :: GOSUB 210 :: M=E : : N=H :: O=C :: GOSUB 210 :: M=H :: N=F :: O=G :: GOSUB 210

190 FOR X=10 TO 3 STEP -1 :: CALL SOUND(200,E,3,H,3,T(X)

200 NEXT X :: CALL SOUND(800 ,E,3,H,3,K,0):: GOTO 150 210 POR X=1 TO D :: FOR Y=1

210 FOR X=1 TO D :: FOR Y=1 TO 2 :: GOSUB 280

220 CALL SOUND(200,M,3,N,3,T (R-48-(R=48))*.9375,30,-4,0) 230 NEXT Y :: GOSUB 280

240 CALL SOUND(200,M,3,0,3,T (R-48-(R=48))*.9375,30,-4,0) :: GOSUB 280

250 CALL SOUND(200,M.3,N.3,T (R-48-(R-48))*.9375,30,-4,0) 260 NEXT X :: RETURN

270 DATA 587,659,784,880,988 ,1175,1319,1568,1760,44733

280 CALL KEY(0,R,S):: IF S<>
0 AND R>48 AND R<58 THEN RET
URN ELSE R=57 :: RETURN

1 !ONE-LINER universal calen dar for day of week of any d ate since 1905 - by Dennis H odgson in Sydney News Digest 2 !input day, month, year as for instance 30,4,1986 100 A=1 :: INPUT D,M,Y :: FO R T=A TO M-A :: H=H+29+VAL(S EG\$("20212122121",T,A)):: NE
XT T :: J=H+(Y/4<>INT(Y/4)AN
D M>2)+INT((Y-A)*365.25)+D :
: PRINT SEG\$("SASUMOTUWETHFR
",(J-INT(J/7)*7)*2+A,2):: RU

Yes, there are legitimate uses for GRAM copiers and track copiers and such - but there is no way to get these utilities into the hands of the few who will only use them honestly, without also getting them into the hands of the many who will use them as burglar tools. And so, a few more nails are driven into the coffin...

MEMORY FULL

Jim Peterson

* * * * * * * * * * * *

00000000000201010 200 DATA FFFEFCF8F0E0C080FF7 F3F1F0F0703010103070F1F3F7FF P80C0E0F0F8FCFEFF 210 DATA FOFOFOFOOOOOOOOOFO F0F0F00000000000000000F0F0F0 F000000000P0F0F0F0 220 DATA 80C0A090888482FFFF8 2848890A0C080FF4121110905030 101030509112141FF 230 DATA 8142241818244281814 2241818244281814224181824428 18142241818244281 240 DATA 08080808FF080808101 01010FF101010101010FF1010101 0080808FF08080808 250 DATA AA55AA55AA55AA555A **A55AA55AA55AAA55AA55AA5** AACCAACCAACCAACC 260 DATA FOFOFOFOFOFOFOFO POPOPFOPOPOPOPOPOPOPOPO POPOPOPOPOPOPOPO 270 CALL CHAR(84, RPT\$("0", 64)):: FOR CH=88 TO 140 STEP 4 :: READ CHS :: CALL CHAR(CH ,CH\$):: NEXT CH :: CALL SCRE EN(5) 280 A=INT(6*RND+3):: H=INT(2 4/A):: HC=INT(28/A):: W=ABS(HC/2=INT(HC/2)):: DIM M(8.8):: FOR P=1 TO A 290 D(P)=INT(15*RND+21)*4 300 NEXT P :: GOSUB 370 310 CALL KEY(3,K,ST):: IF K< >81 THEN 330 320 CALL SOUND(50,500,5):: P OR J=1 TO 4 :: FOR JJ=1 TO A :: M\$(J,JJ)="" :: NEXT JJ : : NEXT J :: GOTO 280 330 IF K<>67 THEN 360 :: F=I NT(15*RND+2) 340 BC=INT(15*RND+2):: IF BC =P THEN 340 350 FOR S=7 TO 14 :: CALL CO LOR(S,F,BC):: NEXT S :: GOTO 310 360 IF K<>ASC("R")THEN 310 : : T=F :: F=BC :: BC=T :: GOT 0 350 370 ON A-2 GOSUB 380,390,400 .410.420.430 :: GOTO 520 380 RESTORE 440 :: RETURN 390 RESTORE 450 :: RETURN 400 RESTORE 460 :: RETURN 410 RESTORE 4/U :: RETURN 420 RESTORE 480 :: RETURN 430 RESTORE 500 :: RETURN

440 DATA 1,2,1,2,3,2,3,1,3 450 DATA 1.2.2.1.2.3.3.2.3.4 ,4,3,4,1,1,4 460 DATA 1,2,3,1,2,2,3,4,3,2 ,3,4,5,4,3,4,5,1,5,4,5,1,2,1 470 DATA 1,2,3,3,2,1,2,3,4,4 ,3,2,3,4,5,5,4,3,4,5,6,6,5,4 ,5,6,1,1,6,5,6,1,2,2,1,6 480 DATA 1,2,3,4,3,2,1,2,3,4 ,5,4,3,2,3,4,5,6,5,4,3,4,5,6 ,7,6,5,4 490 DATA 5,6,7,1,7,6,5,6,7,1 ,2,1,7,6,7,1,2,3,2,1,7 500 DATA 1,2,3,4,4,3,2,1,2,3 ,4,5,5,4,3,2,3,4,5,6,6,5,4,3 ,4,5,6,7,7,6,5,4 510 DATA 5,6,7,8,8,7,6,5,6,7 ,8,1,1,8,7,6,7,8,1,2,2,1,8,7 ,8,1,2,3,3,2,1,8 520 POR J=1 TO A :: POR JJ=1 TO A :: READ M(J,JJ):: NEXT JJ :: NEXT J 530 X=A+1 :: FOR J=1 TO A :: FOR JJ=1 TO A :: M\$(1,J)=M\$ (1,J)&CHR\$(D(M(J,JJ))) 540 M\$(2,J)=M\$(2,J)&CHR\$(D(M ~(JJ,X-J)+1)550 Ms(3,J)=Ms(3,J)&CHRs(D(M))(X-J.X-JJ))+2)560 M\$(4,J)=M\$(4,J)&CHR\$(D(M(E+((t,tt-X) 570 NEXT JJ :: NEXT J 580 CALL CLEAR :: FOR R=1 TO A*H STEP A :: FOR C=1 TO A* HC STEP A 590 CALL KEY(0,K,ST):: IF K= 81 THEN 320 600 V=V+1+(V=4)*4 :: FOR T=1 TO A :: DISPLAY AT(R-1+T,C) :M\$(V,T):: NEXT T :: NEXT C :: V=V+W+(V=4)*4 :: NEXT R 610 RETURN

This routine will search a disk file for up to 10 keywords in one pass - more if you DIM K\$() - and you may elect to find all records which contain the keyword or only those which contain it in combination with one of 1 or more secondary keywords.

100 CALL CLEAR

110 Y=0 :: DISPLAY AT(3,5):"
TIGERCUB KEYSEARCH" :: DISPL AY AT(6,1):"Filename? DSK" :

: ACCEPT AT(6,14)BEEP:F\$:: OPEN #1:"DSK"&Fs.INPUT 120 DISPLAY AT(8,1):"Output to":" (1)Screen":" (2)Printe r":" (3)Both" :: ACCEPT AT(8 ,11)VALIDATE("123")SIZE(1)HE EP:Q 130 IF Q>1 THEN DISPLAY AT(1 3,1):"Printer name?" :: ACCE PT AT(13,15):P\$:: OPEN #2:P 140 DISPLAY AT(15,1):"Search for":" (1)First match":" (2)All matches" :: ACCEPT AT(1 5,13) VALIDATE("12") SIZE(1) BE 150 DISPLAY AT(12,1)ERASE AL L: "Press ENTER when all key-":"words have been entered." 160 DISPLAY AT(17,1):"Press ENTER if none -" 170 Y=Y+1 :: DISPLAY AT(15,1): "Keyword? "; CHR\$(127):: AC CEPT AT(15,10)SIZE(-28)BEEP: K\$(Y):: IF K\$(Y)=CHR\$(127)TH EN 190 180 W=W+1 :: DISPLAY AT(19,1):"With? ";CHR\$(127):: ACCEP T AT(19,7)SIZE(-21)BEEP:W\$(Y .W):: IF Ws(Y.W)=CHRs(127)TH EN W=0 :: GOTO 170 ELSE GOTO 180 190 Y=Y-1 200 LINPUT #1:Ms 210 FOR J=1 TO Y :: IF POS(M \$,K\$(J),1)=0 THEN 290 220 IF W\$(J,1)=CHR\$(127)THEN. 250 230 W=W+1 :: IF W\$(J,W)=CHR\$ (127) THEN W=0 :: GOTO 290 240 IF POS(M\$,W\$(J,W),1)=0 T HEN 230 250 IF Q>1 THEN PRINT #2:M\$ 260 IF Q<>2 THEN PRINT MS 270 IF S-1 THEN 310 280 IF W\$(J,W)<>CHR\$(127)THE N 230 290 NEXT J 300 IF EOF(1)<>1 THEN 200

You can set up a keyfile

310 CLOSE #1 :: DISPLAY AT(2

4.1):"FINISHED - PRESS ANY K

EY" :: CALL SOUND(200,500,5)

320 CALL KEY(0,K,ST):: IF ST

=0 THEN 320 ELSE CALL CLEAR

:: GUIU 110