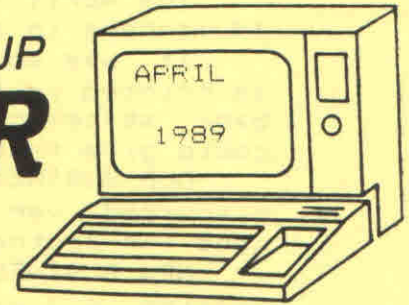


CEDAR VALLEY 99'ER USER GROUP

NEWSLETTER



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****NEWSLETTER TOPICS****

1. Future Meeting Dates
2. Next Meeting Notes
3. Minutes from the April Meeting
4. A Banner Trip to Dubuque
5. The Library Blurb
6. Review of "TI 99/4A INTERN"
7. Tips from the Tigercub #51
8. For Sale/Wanted
9. Officers Elected
10. Mods to the Horizon Ramdisk

****FUTURE MEETING DATES****

Please mark the following dates on your calendar for future meetings:
MAY 8, JUNE 12, JULY 10, AUGUST 14.

*****NEXT MEETING*****

The regular monthly meeting will be Monday, May 8, at West Music, Cedar Rapids. Opening is at 6:30 PM. Jerry Canady will show us the capabilities of MG Explorer. If that all goes according to plan, he may even continue with a new program from Asgard called Save. Don't miss it!

*** MINUTES FROM THE APRIL MEETING ***

The April meeting was called to order by President Jerry Canady with 14 members in attendance.

It was moved, seconded and passed that the March minutes be accepted as printed in the NEWSLETTER. There was no treasurer's report, as the bank statement did not get to Bruce by meeting time. The report that he could give is that we are solid in the black.

OLD BUSINESS: 1. Election of officers - It was moved, seconded, discussed very BRIEFLY, and passed that our present officers hold their jobs for another year.

NEW BUSINESS: 1. Jerry Canady had questions on the use of Funnelweb version 4.3 with DM 1000. 2. Our user group received a letter from the Department of Human Services about caring for foster children - they must have heard that our computer was an orphan. 3. The club's 2nd disk drive is back in working condition thanks to Gary Bishop - he found a bad micro switch. 4. Sister Pat's 2nd drive is also fixed, again thanks to Gary. 5. We had a discussion on the very enjoyable meeting that we had at Sister Pat's on Saturday, April 8. 6. Jim Reiss discussed his plans to work with Mechatronic on a project for the TI. This would be a low-cost 80 column card for the P-box, and it has been discussed on Compuserve.

PROGRAM: Jim Green gave a program on TINYGRAMS written by Ed Machonis from the QB-99ers news letter. We had a second program by Gary Bishop on the hook up and use of a surplus IBM 3 1/2 inch disk drive. He also discussed the use of the disk utility program by John Birdwell, version 4.12 which is now in our library. Gary also demonstrated the upgrade that was made to his Horizon Ramdisk to give it a total of 256K.

Submitted by Bob Wahlstrom, Sec. Pro Tem

*** * A BANNER TRIP TO DUBUQUE * ***

Does any one remember what was discussed at the January business meeting? I thought I knew but had to look it up. Under NEW BUSINESS was "Ed Edwards presented his latest IDEA!" Out of that "IDEA" came a banner trip by about a dozen UG members. Five of us opted for another van ride in the rain. This time we left at a civilized hour (8:30 AM) but had to contend with another rain shower. Jim Green drove while the others relaxed. If I thought it would make any difference in the drought currently plaguing us I would buy a van myself to drive on UG trips.

Marian Hall in Dubuque, run by the Sisters of Charity BVM, was all decked out with banners. Sister Pat Taylor and all her helpers had been very busy. It was not very hard to find our way to the Garden View Activity Center as a new set of poster directions greeted us at every turn. Sr. Pat made the introductions as each member arrived.

Never were there fewer than 15 people present and with all the toing and froing at least 30 must have attended the session. Scattered about the room were many folders made by the sisters from many different graphic programs. I can't begin to name them all but a few I remember were: PICTURES FROM TIERS, FUNNELWEB, HOME PUBLISHING, JIFFEYFLYER, TYPEWRITER, etc. Some were the documents while others were examples.

Sr. Pat started off the demonstrations with GRAPHIC PRINTER. In all these demos, she had the help of one of her pupils. Sr. Beatrice showed

off the modified keyboard from TI to print out a chariot "welcome" sign using this program. She has the use of only one arm but was able to lock down all the necessary function keys to type using just one hand.

Next Sr. Agna Florentina demonstrated HOME PUBLISHING. Her angel was lovely.

Following a small break to find the correct disk Sr. Florentina showed us JIFFY FLYER. Sr. Pat's opinion of this program was that it is "eternally slow". She also cautioned us to "watch the screen" for clues on what to do next.

By request Jerry did a demo of TYPEWRITER. This program was new to them but they were anxious to get started using it.

Sr. Pat at last got to show PICASSO and to preview G.A.P. a not yet released program. Would you believe a rabbit ear that covered three full pages of paper? I wonder what all of "bugs" looked like.

Through out all this time we were kept well supplied with coffee, donuts, milk, sweetrolls, and lemonade.

We finished off the program by all tramping up to Sr. Pat's room to see her system. While there, Gary and Ed completed the final hook up of the power stabilizing transformer we recently acquired for her. She is now ready for the summer power fluctuations.

Ed, thanks for a wonderful IDEA! Thanks also to Gary and Jerry for taking the time to set this outing up. Those of us who rode in the van say thanks a lot to Jim for hauling us. Everybody had a good time and the UG got a new member registered. Shall we do it again? I vote yes.

Submitted by Bill Faeth, secretary

* * The Library Blurb * *

Thanks to Gary Bishop who fixed the second disk drive, the library has settled down to what I will for the present call normal. The Catcom program instructions state that you can save all the printer files to disk, but I have not yet been able to get it to do that. To correct this problem, I will at the next meeting ask permission to send Marty his \$20 and see if he may have some updates to cure these problems. (I also have trouble with a couple other commands.)

The library listing will for the present be on paper and available at the meetings. I also have a backup copy that is available for loaning on a monthly basis. Because our meetings must end promptly at 9:00, I suggest any copies be made before the meetings start rather than after.

There has been no word from the Chicago users group about their library listing exchange program yet. If there is nothing by the next meeting, I will probably call them. The following item from one of the newsletters caught my eye. In addition to this method and the Italian E/A mentioned I think that the DM 1000 also lists an E/A program name.

J Johnson CR

From the Sept. 1988 San Francisco Newsletter. Finding the E/A start word- By Herbert Schlesinger (source unknown)
Load the E/A program into memory. Press QUIT to get the title screen and select E/A basic. Type in and run the following program.

```

10 FOR I=16128 TO 16383
20 CALL PEEK(I,A)
30 PRINT CHR$(A);
40 NEXT I
OPTIONAL:
(FOR PRINTER)
5 OPEN #1:"PIO"
35 PRINT #1:CHR$(A)

```

Among the words, etc. you should find the start word for your program. The Italian E/A on disk will also provide the START name.

* * TI99/4A INTERN * *

A review of TI99/4A INTERN, written by Heiner Martin, translated by Peter Coates, published by Verlag fur Technik und Handwerk, GmbH, Postfach, West Germany.

This is a heavy duty techie book, because it assumes you know quite a bit about 9900 assembly language. The comments are most useful, and most of the numbers used are in hex. There is an extensive section on GPL and its use, and may be the foremost reference on this language.

The 207 page softbound book is broken down into three main areas: listing of the console ROMS, an explanation of GPL along with a disassembly of the console GROMS, and references to Basic and Extended Basic.

The commented disassembly of the console ROMS is 69 pages long. There are some interesting results in there, such as hooks provided for future enhancements, but never used. The token table for Basic is listed.

The heart of the book is a detailed discussion on Graphics Programming Language, or GPL. Each GPL command has its calling syntax listed, along with necessary arguments and flags affected. A complete and commented disassembly of each command is provided.

The console Basic interpreter is listed, along with comments. The GPL and Basic reside in GROM 0 and 1 inside the console. Basic's symbol stack is identified, along with the value stack. References for any hooks into Extended Basic are listed and commented.

All in all, a lot of data if you need it. My opinion is that few TI'ers out there actually will need the information. It is not easy or light reading, but there are introductions to many chapters that can be read without detailed understanding of assembly, and these provide some insight as to how the machine works. Cost is \$6.95+shipping from TAPE, LTD, Ontario, CA. My rating is A for value, but I will not rate it for ease of use or clarity of instructions. All I can say is that if you really need to find out something about the innards of the TI, you should have all the information you need in this book.

Gary D. Bishop

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* files from issues No. 42 *
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programming. No. 4 contains Tips newsletters Nos. 46-52. These were prepared for user group newsletter editors but are available to anyone else for \$5 each postpaid.

I believe this word game is totally different from anything you have ever seen, and very challenging if you don't use the AID key. The first time you run it, pick option 3 to create a file of phrases and give it the file name COMPUTE. This will then become the computer's file, option 1, and you can create as many of your own files as you want. Recommend phrases of several to as many as 20 words - short ones are too difficult.

```
100 DIM W$(20):: DIM D$(20)
110 GOTO 150
120 Q$,K,S,Q,F$,E,FLAG,X,J,X
$,Y$,A,B,M$,DY$,V,A$( ),C$,CH
,CH$,Y,W$( ),L,M,D$( ),F,Z,C,R
,H
130 CALL CHAR :: CALL KEY ::
CALL SOUND :: CALL CLEAR ::
CALL CHARPAT :: CALL COLOR
:: CALL SCREEN :: CALL VCHAR
:: CALL SPRITE :: CALL LOCA
TE :: CALL DELSPRITE
140 !@P-
150 CALL CHAR(94,"3C4299A1A1
99423C"):: DISPLAY AT(2,1)ER
ASE ALL:"TIGERCUB SHUTTLESEA
RCH V.1.1"::"^^ Tigercub So
ftware for free":distributi
on but no price"
160 DISPLAY AT(6,1):"or copy
ing fee to be charged"::"I
f you should feel moved to":
"send me a few bucks for my"
:"work, I won't be offended!"
170 DISPLAY AT(12,1):"Jim Pe
terson":156 Collingwood Ave
.":"Columbus, OH 43213"
180 DISPLAY AT(16,5):"Instru
ctions? (Y/N) N" :: ACCEPT A
T(16,25)SIZE(-1)VALIDATE("YN
"):Q$: IF Q$="N" THEN 260
190 DISPLAY AT(2,1)ERASE ALL
:" The computer will display
a":phrase or saying concea
led":within a grid of rando
```

```
"letters."
200 DISPLAY AT(6,1):" The wo
rds will be horizon-":tal,
one word per line and":on c
onsecutive lines, but":not
necessarily beginning on"
210 DISPLAY AT(10,1):"the to
p line, and the phrase":may
'wrap around' from the":bo
ttom row to the top."
220 DISPLAY AT(13,1):" You c
an find the phrase by":shut
tling columns of letters":u
p and down, looking for":co
nsecutive rows with letter"
230 DISPLAY AT(17,1):"combin
ations that could be":parts
of words.": A cheat key is
available,":if you are rea
lly stuck, but"
240 DISPLAY AT(21,1):"try no
t to use it!"
250 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 250
260 DISPLAY AT(3,2)ERASE ALL
:"Do you want to - !":"" (
1) Solve a saving from my
file?":"" (2) Solve a p
hrase from your file
?"
270 DISPLAY AT(11,2):"(3) Cr
eate a file of": phrase
s?":"" (4) Have someone ty
pe in a phrase to solve
?"
280 ACCEPT AT(3,19)SIZE(-1)V
ALIDATE(DIGIT):Q :: IF Q<1 O
R Q>4 THEN 280
290 ON Q GOTO 300,310,410,47
0
300 F$="1.COMPUTE" :: E=1 ::
GOTO 320
310 DISPLAY AT(18,1):"Filena
me? DSK" :: ACCEPT AT(18,14)
:F$ :: E=2
320 ON ERROR 370
330 IF FLAG=1 THEN 350 :: FL
AG=1 :: OPEN #1:"DSK"&F$,FIX
ED,RELATIVE,INPUT :: ON ERRO
R STOP
340 INPUT #1,REC 0:X :: CLOS
E #1 :: FOR J=1 TO X :: X$=X
$&CHR$(J):: NEXT J :: Y$=X$
350 RANDOMIZE :: A=INT(RND*L
EN(Y$)+1):: B=ASC(SEG$(Y$,A
,1)):: Y$=SEG$(Y$,1,A-1)&SEG$
(Y$,A+1,255):: IF LEN(Y$)=0
THEN Y$=X$
```

```

360 OPEN #1:"DSK"&F$,FIXED,R
ELATIVE,INPUT :: ON ERROR ST
OP :: INPUT #1,REC B:M$ :: C
LOSE #1 :: GOTO 490
370 FOR J=1 TO 10 :: DISPLAY
AT(20,1):" " :: DISPLAY AT(2
0,1):"CANNOT OPEN FILE!" ::
CALL SOUND(-99,110,5,-4,5)::
NEXT J
380 ON ERROR 390 :: CLOSE #1
390 FLAG=0 :: INPUT "CHECK D
ISK AND DRIVE, PRESS ANY KEY
":DY$
400 IF E=1 THEN RETURN 260 E
LSE IF E=2 THEN RETURN 310 E
LSE RETURN 410
410 DISPLAY AT(8,1)ERASE ALL
:"Filename? DSK" :: ACCEPT A
T(8,14):F$
420 E=3 :: ON ERROR 370 :: O
PEN #1:"DSK"&F$,FIXED 124,RE
LATIVE,OUTPUT :: ON ERROR ST
OP :: X=0
430 DISPLAY AT(12,1):"Enter
END when finished":":" "Type
pe phrases, not more than 20
words and 124 characters"
440 X=X+1 :: ACCEPT M$ :: IF
LEN(M$)>124 THEN PRINT "TOO
LONG!" :: X=X-1 :: GOTO 440
450 IF M$<>"END" THEN PRINT
#1,REC X:M$ :: GOTO 440
460 PRINT #1,REC 0:X :: CLOS
E #1 :: GOTO 260
470 CALL KEY(3,K,S):: DISPLA
Y AT(12,1)ERASE ALL:"Type a
phrase of less than 20 word
s and press Enter"
480 ACCEPT M$ :: CALL CLEAR
490 DISPLAY AT(3,2)ERASE ALL
:"Choose skill level - 1":"
" (1) All words begin in":"
first column"
500 DISPLAY AT(8,2):"(2) All
words begin in same":"
column":":" (3) Each word m
ay appear in":" a differ
ent column"
510 DISPLAY AT(14,2):"(4) As
No. 3 but AID key is":"
disabled":":" (5) Quit"
520 ACCEPT AT(3,23)SIZE(-1)V
ALIDATE(DIGIT):V :: IF V<1 O
R V>5 THEN 520 :: IF V=5 THE
N CALL CLEAR :: STOP
530 DISPLAY AT(12,6)ERASE AL
L:"SCRAMBLING....."
540 A$(1)="jkzae klmpr vgaho
nceci sdudy bqijw astrf urd
sa nvjxe blbig trakv nobth w

```

```

ehay vnijo dherq umbai rtika
opleg nosve tarkh zeski "
550 A$(2)="!boiu m.fgt krac,
pjip? tn-un osheg kar,q ibl
.o tons! idrix ?uhig ebarf u
ks,k ,,jhge vifyt kibrn taga
,.!ry lakle ilf.! inst"
560 C$=A$(1)&A$(2)
570 FOR CH=65 TO 90 :: CALL
CHARPAT(CH,CH$):: CALL CHAR(
CH+32,CH$):: NEXT CH :: CALL
CHAR(42,"82444428281010")
580 CALL CHAR(143,"18243C4A4
A3C2418"):: CALL COLOR(14,16
,1)
590 M$=M$&" " :: Y=1
600 X=POS(M$," " ,1):: M$(Y)=
SEG$(M$,1,X):: L=LEN(M$(Y))
: M=MAX(M,L):: RANDOMIZE ::
M$(Y)=M$(Y)&SEG$(C$,INT(230*
RND+1),20-L)
610 Y=Y+1 :: IF Y=21 THEN 62
0 :: M$=SEG$(M$,X+1,255):: I
F LEN(M$)>0 THEN 600
620 FOR J=Y TO 20 :: M$(J)=S
EG$(C$,INT(230*RND+1),20)::
NEXT J
630 ON V GOTO 670,640,650,65
0
640 X=INT(RND*(20-M))+M+1 ::
FOR J=1 TO Y :: M$(J)=SEG$(
M$(J),X,255)&SEG$(M$(J),1,X-
1):: NEXT J :: GOTO 670
650 FOR J=1 TO Y :: X=INT(RN
D*(20-M))+M+1 :: M$(J)=SEG$(
M$(J),X,255)&SEG$(M$(J),1,X-
1):: NEXT J :: GOTO 670
660 ! the string
670 FOR J=1 TO 20 :: FOR L=1
TO 20 :: D$(J)=D$(J)&SEG$(M
$(L),J,1):: NEXT L :: NEXT J
680 IF V=1 THEN F=M ELSE F=2
0
690 FOR J=1 TO F :: Z=INT(20
*RND+1):: D$(J)=SEG$(D$(J),Z
,255)&SEG$(D$(J),1,Z-1):: NE
XT J
700 CALL CLEAR :: CALL SCREE
N(5):: FOR S=1 TO 13 :: CALL
COLOR(S,5,16):: NEXT S :: C
ALL VCHAR(1,31,1,96)
710 CALL VCHAR(4,5,143,20)::
CALL VCHAR(4,28,143,20)
720 FOR C=1 TO 20 :: FOR R=1
TO 20 :: CALL VCHAR(R+3,C+6
,ASC(SEG$(D$(C),R,1))):NEX
T R :: NEXT C
730 DISPLAY AT(1,1):"s&d to
select, e&x to scrollfctn 7
aid, fctn 8 restart"

```

```

740 H=1 :: C=48 :: CALL SPRI
TE(#1,42,7,18,C)
750 CALL KEY(3,K,S):: IF S=0
THEN 750 ELSE ON POS("EXSD"
&CHR$(1)&CHR$(6),CHR$(K),1)+
1 GOTO 750,800,810,820,830,7
60,840
760 IF V=4 THEN 750
770 FOR S=5 TO 8 :: CALL COL
OR(S,16,5):: NEXT S
780 CALL KEY(3,K,S):: IF S=-
1 THEN 780
790 FOR S=5 TO 8 :: CALL COL
OR(S,5,16):: NEXT S :: GOTO
750
800 D$(H)=SEG$(D$(H),2,19)&S
EG$(D$(H),1,1):: FOR R=1 TO
20 :: CALL VCHAR(R+3,H+6,ASC
(SEG$(D$(H),R,1))):NEXT R
:: GOTO 750
810 D$(H)=SEG$(D$(H),20,1)&S
EG$(D$(H),1,19):: FOR R=1 TO
20 :: CALL VCHAR(R+3,H+6,AS
C(SEG$(D$(H),R,1))):NEXT R
:: GOTO 750
820 C=C-B-(C=48)*8 :: H=C/B-
5 :: CALL LOCATE(#1,18,C)::
GOTO 750
830 C=C+B+(C=200)*8 :: H=C/B
-5 :: CALL LOCATE(#1,18,C)::
GOTO 750
840 CALL CLEAR :: FOR J=1 TO
20 :: D$(J)=" " :: NEXT J ::
M=0 :: CALL DELSPRITE(#1)::
IF Q=1 OR Q=2 THEN 350 ELSE
470

```

Here are three screen display subprograms of the type you will find on my Nuts and Bolts disks. Note that subprograms can read DATA from the main program. The double colons in the DATA statement cause input of null strings of data for spacing between the lines. The M\$() in the subprogram parameter lists is necessary, even though the array is not passed from the main program, in order to DIMension the array in the subprogram - unless you prefer to place the DIM in the subprogram itself. T is the number of DATA items to be read.

```

100 CALL CLEAR
110 DATA THIS IS A DEMO,,OF

```

```

THREE SCREEN PRINTING,,SUBPR
OGRAMS PUBLISHED IN,,TIPS FR
OM THE TIGERCUB,,No. 51,,BY
TIGERCUB SOFTWARE
120 DIM M$(11):: CALL DOWNPR
INT(M$( ),11):: FOR D=1 TO 10
00 :: NEXT D :: CALL CLEAR ::
RESTORE 110 :: CALL DIAGPR
INT(M$( ),11)
130 FOR D=1 TO 1000 :: NEXT
D :: CALL CLEAR :: RESTORE 1
10 :: CALL INWARD(M$( ),11)
1000 SUB DOWNPRINT(M$( ),T)
1001 FOR J=1 TO T :: READ M$(
J):: L=INT(LEN(M$(J))+.5)::
M$(J)=RPT$(" ",14-INT(L/2))
&M$(J):: M$(J)=M$(J)&RPT$("
",28-LEN(M$(J))):NEXT J
1002 FOR J=1 TO 28 :: FOR L=
1 TO T
1003 DISPLAY AT(L,1):SEG$(M$(
L),1,J):: NEXT L
1004 NEXT J :: SUBEND
2000 SUB INWARD(M$( ),T):: FO
R J=1 TO T :: READ M$(J):: N
EXT J :: R=1 :: FOR A=1 TO T
2001 L=INT(LEN(M$(A))): F=1
3-L/2 :: G=L+F
2002 FOR J=1 TO INT(L/2+.5)::
DISPLAY AT(R,F+1):SEG$(M$(
A),J,1):: DISPLAY AT(R,6):S
EG$(M$(A),L-J+1,1):: F=F+1
:: G=G-1 :: NEXT J :: R=R+1
:: NEXT A :: SUBEND
3000 SUB DIAGPRINT(M$( ),T)::
FOR J=1 TO T :: READ M$(J)::
L=INT(LEN(M$(J))+.5):: M$(
J)=RPT$(" ",14-(L/2))&M$(J)::
M$(J)=M$(J)&RPT$(" ",28-LE
N(M$(J))):NEXT J
3001 FOR J=1 TO 28+L :: FOR
L=1 TO T
3002 IF J<L THEN 3007
3003 DISPLAY AT(L,1):SEG$(M$(
L),1,J-L):: NEXT L
3004 NEXT J :: SUBEND

```

Just in case you didn't know - to jump directly to the first or last line in a TI-Writer file, use FCTN 9 and S(earch) and 1 for the first line or E for the last.

MEMORY ALMOST FULL...

Jim Peterson

Items for Sale	Today's Prices	My Price
TI 99/4a w/ speech & 32k inside	\$150.00	\$ 65.00
Magnovox Green Monochrome monitor (New)	\$105.00	\$ 70.00
CorComp 9900 stand-alone RS232	\$109.00	\$ 55.00
Percom Data Disk Controller Card w/		
Percom Disk Drive and 2 Shugart drives	\$300.00	\$150.00
Avatex 1200E Smart Modem w/ speaker (New)	\$ 95.00	\$ 60.00
Editor/Assembler w/ manual	\$ 14.95	\$ 10.00
TI Logo II w/ manual	\$ 11.95	\$ 7.00
TI Writer w/ manual	\$ 14.95	\$ 5.00
GRAPHX w/ companion disks (E/A version)	\$ 19.95	\$ 10.00
4A/Talk Emulator	\$ 19.95	\$ 10.00
Turbo Pascal	\$ 59.95	\$ 40.00
Extended Basic	\$ 29.95	\$ 15.00
Terminal Emulator II	\$ 19.95	\$ 5.00
Disk Manager II	\$ 5.95	\$ 2.50
Karate Challenge w/ manual (New)	\$ 14.95	\$ 7.00
Micro-Tennis w/ manual	\$ 19.95	\$ 10.00
Gravity Master w/ manual	\$ 14.95	\$ 7.00
Life Expectancy & Calculus, Functions, &		
Matrices from Datasystems w/ manuals (New)	\$ 22.00	\$ 7.00
Defender (New)	\$ 7.95	\$ 4.00
Parsec	\$ 5.95	\$ 3.00
Munch Man	\$ 5.95	\$ 2.00
Household budget management	\$ 5.95	\$ 2.00
Early Reading	\$ 5.95	\$ 1.00
Joystick Y-Adapter for TI	\$ 5.95	\$ 2.00
	\$1,066.10	\$549.50

I would like to try to sell the system as a **whole** instead of parting it out. However I may consider it if I do not receive that many offers.

I will sell the **whole package plus throw in over 40 disks (both sides) of software, and some books and other reading material for \$350.00.**

Contact: Dave Dalton at 395-8715 or 393-6458 after 4:30p.m. if interested.

* OFFICERS ELECTED *

Congratulations to our newly elected officers for 1989-1990! By unanimous acclamation, the current officers were returned to office for another term! (Was there any doubt??) We owe these four guys (what happened to the females we used to have at our meetings?) our gratitude and our support, as they were the only ones brave enough, or caring enough, to run for an office. Let's show our appreciation by attending as many meetings as possible this next year, and by offering to help when asked. In addition to the elected positions being filled, it looks like the committee chairmen have also agreed to stay on for another term. (This of course means that the newsletter will look the same for another 12 issues!) Thanks, John, Paul, and Ed!

These changes are recommended for ALL HORIZON RAMdisks and are compatible for use with the TI99/4a or Geneve.

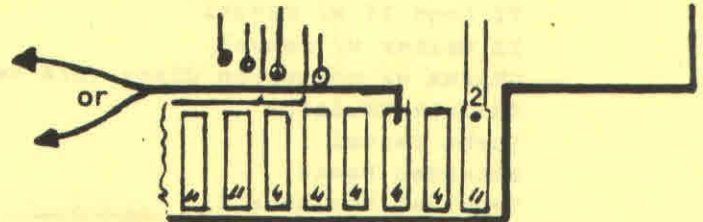
1. RESET on power-up

This change allows the computer to reset the HORIZON during the CPU power up cycle. The reset feature, as TI designed it, does provide a reliable method to hold the HORIZON in the shut-off state until the PE-Box voltage has been on long enough to stabilize.

The modification consists of the removal of one diode, one resistor and one capacitor. These parts are replaced by one wire from pin 6 of the card-edge connector (bottom edge of ramdisk card) to the positive side of the capacitor location.

HORIZON serial numbers below 100:
Remove C8, CR2 and R2. Connect wire to front (or left) hole of C8 location.

HORIZON serial numbers above 100:
Remove C1, CR3 and R5. Connect wire to + (positive) side of C1 location.



Connect other end of wire to pin 6 of card-edge, .i.e., the 3rd lead from the right on the COMPONENT side of the PC board.

2. DISABLE SWITCH

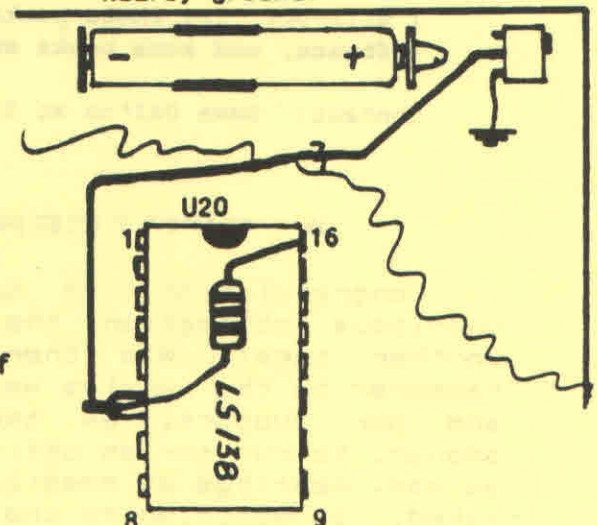
This modification provides a method to turn off (or hide) the HORIZON from the rest of the system. This switch allows you to turn off the ramdisk in the event of a system crash when the computer locks up. With the card turned off, you can power up the console and PE-Box, turn the card back on and proceed to re-load the operating system. No need to remove the batteries to erase the contents and in most cases the files may be recoverable. Other reasons for "hiding" the card could be a conflict between the ramdisk and a program you want to run - or you may wish to keep the kids out of it.

The mod is simple: We remove the voltage from pin 6 of U20 (serial 1999 and below) or U20A (HRD+, 2000 and up) and reconnect it via a resistor (1K-10K will do) thru a SPST switch to ground. Closing the switch pulls the pin low and shuts off the CRU access at U20.

Bend pin 6 of the chip out, attach enough wire to reach the switch and connect the resistor from this pin to pin 16 of the same chip. Run the other end of the wire to the switch.

NOTE: The HRD+ circuit board on cards with a serial number below 1999 required stacking of U20. Attach the wire and resistor to the top chip's pin 6 and cut off the bottom end.

Mount a miniature SPST at the top back edge. Run a lead from one pole to a nearby ground.



from West Penn files

Parts List. 2 ea. 1N34A diodes
 1 ea. 74LS08
 1 ea. HM62256-LP12 or 43256-12L
 1 ea. 14-pin socket (optional)
 1 ea. 28-pin socket (optional)
 Hook-up wire

Use of the optional sockets will allow you to replace a defective chip should a failure occur. Also, this additional memory could be disabled by unplugging the chips. The memory MUST be installed on top of the U11 chip, but its control pins and pin 28 (Vcc) must be isolated from the HORIZON card. Note that the address and data lines are shared and that the separation of the control lines assures proper data handling.

To install this modification, use the sketch below for reference and:

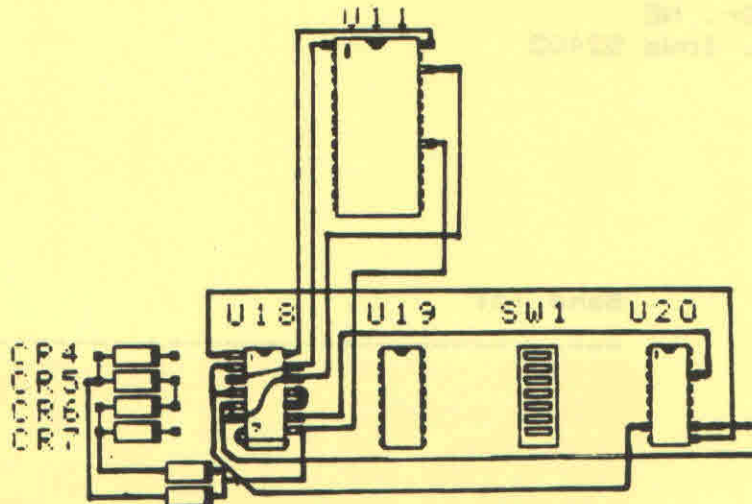
1. Place the 74LS08 chip (or the optional 14-pin socket) on top of U18. Bend all but pins 7 and 14 out for connection of wires later. Solder pins 7 and 14 of the chip or socket to pins 8 and 18 of U18. Pin 7 needs to be spread slightly to reach pin 8 of U18. Note HRD-2000 cards can use U24 pins 7 and 14 only. The HORIZON 3000 will use U25 pins 7 and 14. (U24 and U25 were set up for the Phoenix mod.)
2. Place the 32x8 memory chip (or the optional 28-pin socket) on top of U11. Bend pins 1, 20, 26 and 28 out for connection of wires later and solder all other pins to U11.
3. Install the two diodes as shown below. Make sure the cathode band is oriented correctly, i.e., toward the new chip/socket on top of U18. Connect one anode to the anode of CR5, the other to anode of CR7. Connect both cathodes to pin 8 of the new chip/socket.

4. Connect wires as follows:
 From 74LS08 pin # 1 to pin 9 of U20 *) pin 2 & 4 to pin 7 of U20 *)
 socket) 5 to pin 10 of U20 *) pin 8 to pin 14 of U20 *)
 3 & 13 to pin 1 of U11 pin 6 & 12 to pin 26 of U11
 8 to pin 20 of U11 and the diodes
 14 to pin 28 of U11

Connect pin 10 of the 74LS08 to pin 11 of the same chip/socket

*) If U20 is stacked, make connections to the chip closest to the board. Wires may be run on the back side of the card.

5. Double check your wiring, plug in the chips (if sockets were used). Remove old 32K memory card from PE-Box. The easiest way to test if your new memory expansion works properly is to use Extended Basic. The SIZE command should result in a display of 11840 BYTES OF STACK FREE, 24488 BYTES OF PROGRAM SPACE FREE. A major deviation from these values indicates a problem. As a final test run an assembly language program (like DM1000). If a problem does exist, the program will not run.



Thanks to West Penn 99ers

...before 5:30 PM...
...NEXT MEETING...

...MONDAY, MAY 8...
...5:30 PM --- WEST MUSIC COMPANY...

...DEMONSTRATION OF MG EXPLORER...
...DISCUSSION OF OTHER SOFTWARE...

Cedar Valley 99'er Users Group
288 Windsor Dr. NE
Cedar Rapids, Iowa 52402



Send To:

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