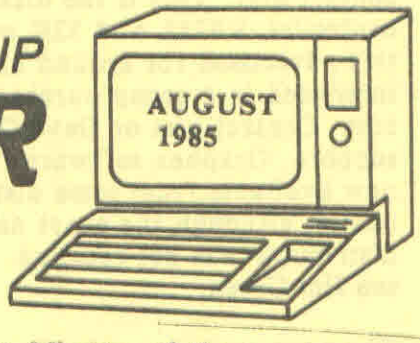
CEDAR VALLEY 99'ER USER GROUP NEWSLETTER



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******NEXT MEETING REMINDER******

Due to the Labor Day holiday, our next meeting will be the <u>third Monday</u>, **September 16.** We've missed many of you over the summer, and we have had many new developments on the TI front. So come back this month and learn!

Besides awarding some good door prizes, Dave Dalton will present a program called Animator. It is a drawing program in which you design your own drawings and then you can make them move. The program came from *Compute* magazine.

******MINUTES FROM AUGUST MEETING******

The meeting was called to order on Aug. 12, 1985 at 7:04 PM by President Jim Green. 28 people were present. Minutes of the previous meeting as printed in the last newsletter were approved. A Treasurer's report was given for June and July, and both were approved.
Old Business: The memory expansion was discussed, and estimated that it would cost $40 or less, installed. 9 people expressed interest in purchasing this expansion, and it was estimated many members not present would also be interested. The hardware committee made the following recommendations for mounting the memory, in order of preference: inside the speech synthisizer, inside the console directly, inside any external expansion box. The question of what would happen if this memory were installed and accidentally connected to a system that already had 32K expansion was asked. The committee did not have an answer, and would look into it. Anyone may purchase the bare circuit card from the club, with some slight undetermined surcharge for nonmembers. There were several volunteers for installation of the first memory expansion boards for debugging and test. It was suggested that anyone interested in this expansion put up a $5 deposit to show intent, but it was felt that this wasn't necessary.

New Business: A motion was passed to proceed with initial purchase of the memory expansion printed circuit boards, for no more than $200. The newsletter editor needs articles from members. A review of any software or hardware you have, a report on your experiences in purchasing TI equipment, or any related item would be welcome. Contact Dan Davis. Also, the program chairman, Dave Dalton, needs people to bring hardware to the meetings, and to put on any type of presentation. Ed Hayek made a request for people interested in ordering tee shirts from the Milwaukee Users Group for $5.50, plus shipping. These shirts have snappy sayings concerning TI, such as "TI ORPHAN" and such. He is very interested, but the minimum

order is 6. Contact Ed if you would like one. It was suggested any extra shirts could be given as a door prize. Dave Reinhart made the request of those that are going to purchase the fully expanded system in the near future to contact him. This is the disk drive and controller, RS232, and 32K memory. He has seen this advertised for around $300, and is interested in a group purchase to reduce the cost. Contact him or Dave Dalton for any support. Graphex software from Australia is now available from some distributor in this contry, although the exact name of the distributor was not recalled. If interested, see Jim Green.

The presentation was by Bruce Winter of any programs in the club's software library. About 6 programs, mostly games, were shown. The door prize was won by Craig Potratz, and he selected the Tunnels of Doom cartridge. Second door prize of any 4 library programs was won by Dave Reinhart. The meeting broke up at 8:50 PM, amid a raging thunderstorm, intense lighting, and much needed heavy rain. Respectifully submitted - Gary D. Bishop, Secretary.

******BANNER 99******

Per the July issue of *MICROpendium*, TEX-COMP is offering a program called Banner 99. The program was written exclusively for TEX-COMP by Great Lakes Software. The program, which retails for $19.95, will produce banners and bumper stickers and works with both dot matrix and daisy wheel printers. Included in the program are a number of holiday designs and religious symbols (a cross or star of David). This program requires a disk drive, 32K memory, Extended Basic, and a printer. For further information, contact TEX-COMP, P.O. Box 33084, Granada Hills, CA 91344, or phone (818)366-6631.

******PASCAL USERS******

I thought maybe you pascal users would be interested in knowing about the existence of a pascal group. USUS is the society devoted to users of the UCSD p-System, UCSD Pascal, and Apple Pascal. USUS is pronounced "use us" and is a non-profit organization with the goal of promoting pascal and helping users. USUS offers electronic mail and a software exchange library. The fall national meeting is being held in Baltimore on Cotober 25-27, 1985. For more information, contact USUS, P.O. Box 1148, La Jolla, CA 92038

******WHO HAS SAXSAAN?******

Several months ago, the club received a sample disk of a new adventure game, SAXSAAN. A member of our group volunteered to try the game and then demonstrate it to the group. Who was that member? We have obviously not had our demonstration, and I have forgotten who it was who took the disk. If you are that person, or you remember who it was, please call me.
Jim Green.

******CHICAGO TI-FAIRE******

The Chicago-Area TI-99/4A User's Group is sponsoring their third annual computer faire on November 2, 1985. Seminars, software and hardware demonstrations, contests, and door prize drawings will fill the day from 10:00 to 5:00. Admission for U.G. members is only $1.00. Call Jim Green if you need more details.

******ANOTHER MAIL ORDER DEALER******

Our mail brings news of another retailer who supports the TI 99/4A. Bits & Chips, 933 N. 182nd St., Seattle, WA. 98133 claims to carry 90% of the TI software. Phone orders are accepted at 206-542-1636. Prices look favorable to me. Jim Green

******NEW PRODUCTS AVAILABLE FROM CORCOMP******

CorComp Inc. has begun shipping three new products for the TI 99/4A expansion market. The first two products are stand-alone boxes for the expansion port of the computer: a 32K memory expansion, and a clock/calendar accessible from basic or extended basic. The clock has battery backup, and the 32K memory box derives its power from the console.
The third product form CorComp is their Triple Tech Card, for mounting in the TI peripheral expansion box. As its name implies, the Triple Tech Card has 3 functions: (1) Provides a battery backup, real time clock/calendar, (2) adds a 64K printer buffer for immediate return of your console while your printer runs through long files, and (3) a port for the TI Speech Synthesizer card, so that you can do away with the stand-alone box on the side of your machine. CorComp is offering the user group a special price on each of these new products (one each). Anyone who is interested in purchasing at the reduced price may get more details from me at the Sept. 16 meeting. Jim Green

******FOR SALE******

1. Complete System: The group received a notice that Mr. Peter Morgan, from New Orleans, is selling a complete system, including a fully loaded P-box, 3 drives, 80 column and CP/M cards, cables, software, and books. Asking price is $1,326.00 or best offer. Call Mr. Morgan at 504-242-2066, or write 33 S. Oakridge Court, New Orleans, LA 70128.

2. System: Norman McCallister, a former member of our UG is offering the following for sale: TI99/4A console - $50; TI joysticks - $4; Extended Basic - $40; Touch Typing Tutor - $10; Parsec - $4; Best of 99er book - $12; Compute's Programmer Reference Guide - $10; Sams 51 Fun & Educational Programs book & cassette - plus Sams Entertainment & Games & TI Basic/Ext Basic book & cassette - $10; TI Teach Yourself Extended Basic cassette - $8. Contact Norman at 377-5633.

3. Dave Dalton has the following for sale: Typewriter(word processor), (Disk and Demo's) - $7; RS-232 Cable - $5. Dave's number is 377-1715.

******CORCOMP FORMULA FOR SUCCESS******

On a recent trip to L.A., I stopped at CorComp Inc. in Anaheim to get my 9900 Microexpansion upgraded for the disk controller. While they worked on my unit, I spent an hour talking to Jackie Sagouspe, CorComp's President, and the other staff at CorComp. Although the company is small, the enthusiasm is high, and new ideas are still resulting in new products. (See accompanying article.) CorComp seems to have found ther formula for success, and they will be supporting us for a long time yet.

CorComp has about 25,000 products out in the world now, which still leaves a large untapped market. Additional exposure will come with the next Triton catalog; Triton now carries CorComp products. (Closer to home, Deihn's Hardware in Waterloo is a CorComp dealer.) Jackie told me that repair requests have greatly diminished lately, thanks to some product re-design and some attention to their quality control.

Each unit that CorComp sells is tested in a computer environment for proper operation. Circuit card manufacturing is sub-contracted to assembly houses near CorComp, with a resulting lower cost and higher quality. Final assembly and test is done by CorComp.

Future products that are planned include a GROM extender that will allow beige consoles to run any TI software cartridges. If you can think of any products that would be desired by the general TI owner, send your idea to Jackie. One never knows.... Jim Green

******DISK SYSTEM OWNERS******

Since more of our members are adding disk systems to their computers, we may have renewed interest in buying disks in bulk. Several advertisers have special prices for disks at quantities of 100 or more. If you would like to put together a club order for floppy disks, contact Jerry Canady at the Sept. 16 meeting. Prices can be as low as $0.95 per disk.

******ORGAN MUSIC WITH VIBRATO******

The following program was submitted by John Johnson:

```
100 CALL CLEAR::CALL KEY(0,K,S)
110 IF K=67 THEN A=262::GOTO 190
120 IF K=68 THEN A=294::GOTO 190
130 IF K=69 THEN A=330::GOTO 190
140 IF K=70 THEN A=349::GOTO 190
150 IF K=71 THEN A=392::GOTO 190
160 IF K=65 THEN A=440::GOTO 190
170 IF K=66 THEN A=494::GOTO 190
180 GOTO 100
190 CALL SOUND(-100,A,2,A/1.19,7,A/1.5,7)::CALL
SOUND(-100,A/.99,2,A/1.19,7,A/1.5,7)::GOTO 100
```

Press keys A thru G for chords.

******CORCOMP CONTROLLER & TEAC DISK******

I recently became the owner of a CorComp disk controller card for my PE box and a Teac FD55B 1/2 height disk drive. This equipment combination really changes your system capabilities. I'm really happy with my decision to acquire them. Let me elaborate on these changes for those of you considering a disk system.

The most obvious change is the ability to hold 4 times as much information on each disk. Capacity is increased from 90K per disk to 360K. This opens up a new way of doing things even with a single drive. For example I am writing this article with TI-Writer but do not have a module plugged into the computer. The CorComp Controller allows you to run assembly and Forth programs right off the disk manager. With the TK-Writer availble as freeware(pay for

it if you can use it) and the CorComp manager loaded on the same disk as your TI-Writer only one disk is necessary to load TI-Writer and no module swapping whatever is required saving wear on the computer. Since all of the above programs take about 200 sectors on your disk there are still 1200 sectors left for files you create. Thats a lot of correspondence! With this set-up you can catalog your disk files, dump a copy off to the printer, or delete files without changing a module or disk.

In addition, all the normal controller functions for initializing diskettes, and copying files are available and they are neater in operation than those of the TI Disk Manager II. For example, with Disk Manager II if you selectively want to copy files from one disk to another you choose the selective option and at every program are asked if you want to copy it with a Y/N response. With the CorComp manager the catalog of all the programs on the disk is displayed at once and you mark each on the display with a C if you wish to copy them. Once the copy process starts no more response is required.

One of the other neat features of the CorComp controller is that it knows what kind of disk you have inserted. Single density, Double Density, Single Sided, Double Sided, it makes no difference. The Controller will read or write properly for what you have inserted. It will allow you to format a disk Single Sided Single Density if you want to format a disk for a friend with a standard TI system. In addition you can change the defaults in the disk manager to configure to your system so for example it already knows you want to format double sided double density, or that you are copying on a one drive system and will be swapping disks to perform the copy.

The CorComp card allows you to set dip switches to set your step time to optimum efficiency. I set mine to 6 milleseconds which is what the Teac FD55B is advertised to be. I don't know how much of an advantage this is but the drive does seem faster and quieter than the original TI issue.

There are other commands and features that I haven't discussed or even tried yet. For those considering expanding to a disk system the CorComp Card at $159.95 (Unisource/Tex-Comp) and the Teac FD55B at $89.95 (See adds in Computer Shopper) and interface cables etc. $29.95 are very competitive in price with the TI version with a lot more capability. Now.....if I can convince my wife that we need a second 1/2 height drive to fill that hole in the PE box.....hm. Ed Hayek

******NEW MEMBERS******

We would like to welcome the following new members to out group:

Wayne Betts - Larry Brown - John Green

******HOME COMPUTER MAGAZINE******

We still have issues of Home Computer Magazine available at $2.50. Volume 5 Number 3, Number 4, and hopefully Number 5 will be availabe at the next meeting.

******A TERIBLE LOSS******

by Criket Raybern of the Portland User's Group and published in a half dozen other user group newsletters as well.

We were saddened to learn recently of the death of one of our most valued members, Someone Else. Someone's passing created a vacancy that will be difficult to fill. Else had been with us almost since our club was formed, and during that time, Someone did far more than a normal person's share of the work. Whenever leadership was mentioned, this wonderful person was looked to for inspiration, as well as, results.

It was often said, "Someone Else can work with that group or committee." Whenever there was a job to be done or a meeting to attend, one name was on everybody's list-- "Let Someone Else do it."

Someone Else was a wonderful person, sometimes appearing superhuman. But a person can only do so much. Were the truth known, everyone expected too much from Someone Else. Now Someone Else is gone, and we wonder what we are going to do.

Someone Else left a wonderful example to follow, but who is going to follow it? Who is going to do the things that Someone Else always did?

TIPS FROM THE TIGERCUB

#25

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The entire contents of Tips from the Tigercub Nos. 1 through 14, with more added, are now available as a full disk of 50 programs, routines and files for just $15.00 postpaid!

Nuts & Bolts is a diskfull of 100 (that's right, 100!) XBasic utility subprograms in MERGE format, ready for you to merge into your own programs. Contents include 13 type fonts, 14 text display routines, 12 sorts and shuffles, 9 data saving and reading routines, 9 wipes, 8 pauses, 6 music, 2 protection, etc., and now also a tutorial on using subprograms, all for just $19.95 postpaid!

And I have about 140 other absolutely original programs in Basic and XBasic at only $3.00 each!(plus $1.50 per order for casette, packing and postage, or $3.00 for diskette, PPM) I will send you my descriptive catalog for a dollar, which you can then deduct from your first order.

Many of the users groups are taking a summer break, so I thought I would do the same. I'm going to mail out the July and August issues of the Tips in June (imagine, a TI publication AHEAD of schedule!!) and then go fishing. However, if anyone should by any chance decide to send me an order during the summer, they will still get my same-day service.

It seems that I had better clear up a few misunderstandings. The "freeware" offers I have mentioned in past Tips are NOT available from me - send your disk and returnable mailer AND RETURN POSTAGE to the author of the program.

And, my copyrighted Tigercub Software programs are NOT freeware. They can only be legally obtained by mail order from me - if you copy them from anyone else, you are stealing!

As for the programs which I write and publish or distribute without copyright, they are also not Freeware, they are FREE. I don't want to be paid for them, and I don't think anyone else should be paid for them.

Some users groups are putting my copyrighted programs, and those of other programmers, in their software library, "for use but not copying" or "for review and evaluation only". Who do you think you're kidding? I know I won't sell any software to members of pirate clubs, so why should I support them?

If you didn't solve the Long Division Puzzle in Tips #24, try dividing 230709 by 835. As for the solution to the Tigercub Challenge, it was right on the same page! Try creating those DATA statements with the LINEWRITER routine. I don't know why it works, but it does.

I've been asked to print more information on the "program that writes a program". I don't have room for a detailed account, but here are the basics. If you tried my TOKENLIST routine in Tips #23 you already have a list of the token codes you will need.

I won't go into the way that the computer squishes a program line number into only two characters, but you can accomplish it with DEF L$=CHR$(INT(LN/256))&CHR$(LN-256*INT(LN/256)), where LN has been predefined as the value of the line number.

If you need to refer to a program line in a statement, as in GOTO 500, use DEF R$=CHR$(201)&CHR$(INT(RN/256))&CHR$(RN-256*INT(RN/256)), RN being the line number.

To print a statement or command, simply print its token character. For instance, the token for DATA is 147, so you would print CHR$(147). Note that all the punctuation marks used in programming, such as (and +, are also represented by token codes which are NOT the same as their keyboard ASCII value.

To print a variable name, either numeric or string, just enclose it in quotes, "A" or "A$".

To print a value, or an unquoted string (as in a DATA statement), or the word which follows a CALL, you must print CHR$(200) followed by a token giving the number of characters to follow, such as CHR$(5) for a 5-character word such as CLEAR, then the value in quotes. For instance, the token for CALL is 157, so CALL CLEAR is CHR$(157)&CHR$(200)&CHR$(5)&"CLEAR" .

You can simplify that by predefining DEF U$(V$)=CHR$(200)&CHR$(LEN(V$))&V$, and then simply print CHR$(157)&U$("CLEAR") .

A quoted string is handled in the same way except that it is preceded by token 199 instead of 200, so you can predefine it as DEF Q$(V$)=CHR$(199)&CHR$(LEN(V$))&V$ - the computer will take care of the quote marks.

Each program line must end with CHR$(0), and the last record you print must be CHR$(255)&CHR$(255).

A MERGE format file is D/V 163, so open the file with OPEN #1:"DSK1.MERGEFILE",VARIABLE 163 .

Don't print more than 163 characters in a record or the computer will blow its mind! You can print multiple-statement XBasic lines, but be sure to use the double-colon token CHR$(130) as the separator, not two of the CHR$(181) colon tokens.

Any errors you make will usually not show up until you try to MERGE or use the program you have created. I/O ERROR 25 means that you forgot the final 255 & 255; DATA ERROR or SYNTAX ERROR probably means that you left off a CHR$(0) or gave the wrong count of characters after CHR$(200).

Here's a bit of psychedelic blues - -

```
100 REM - FRANKIE & JOHNNIE
    by Jim Peterson
110 DIM S(12)
120 CALL SCREEN(2)
130 FOR R=1 TO 12
140 CALL COLOR(R+1,1,1)
150 FOR T=R TO 25-R
160 CALL HCHAR(T,R,32+R*8,34
-2*R)
170 NEXT T
180 NEXT R
190 DATA 262,294,311,330,349
,392,440,494,523,587,40000
200 FOR N=1 TO 11
210 READ S(N)
220 NEXT N
230 FOR J=1 TO 110 STEP 2
240 CALL COLOR(A+1,1,1)
250 READ T,A
260 CALL COLOR(A+1,A+2,A+2)
```

```
270 FOR TT=1 TO T
280 CALL SOUND(-999,S(A),0)
290 NEXT TT
300 NEXT J
310 RESTORE 330
320 GOTO 230
330 DATA 2,1,2,2,2,4,2,7,1,1
1,1,7,2,6,4,4,2,1,1,11,13,1
340 DATA 2,1,2,2,2,4,2,7,1,1
1,1,7,2,6,4,4,12,1
350 DATA 1,11,3,1,2,5,2,6,2,
7,2,9,1,11,1,9,2,10,4,7,1,9,
1,11,7,9
360 DATA 4,7,2,8,2,9,1,11,3,
9,1,11,1,9,4,8,2,7,6,6
370 DATA 4,4,1,11,3,4,4,3,16
,2,1,11,4,7,2,6,4,7,4,6,20,1
,8,11
```

You can too have a blank space in your disk filenames! Just use FCTN V for the blank, instead of the space bar. You can even have a diskfull of 10 programs with invisible filenames consisting of 1 to 10 of those FCTN V's.

However, those invisible characters can do strange things when you list your disk catalog to a printer.

If you want to INPUT a string with leading and/or trailing blanks, just enclose the whole works in quotation marks. Try this -

```
100 INPUT A$ !type TEST
110 PRINT A$;LEN(A$)
120 INPUT A$ !type " TEST "
130 PRINT A$;LEN(A$)
140 GOTO 100 !you can even
input a blank string of 136
characters
```

I really shouldn't tell you this, but if you want to make it difficult for someone to LIST your program, just insert a garbage line, every 5th line or so until you run out of memory, consisting of REM followed by 4 or 5 lines of random characters typed with the CTRL key held down.

Here's a program that can actually read your mind!

```
100 CALL CLEAR
110 PRINT "TIGERCUB MIND REA
DER PROGRAM": :
120 PRINT "I'll bet you a do
llar I can guess what you ar
e thinking.": :
130 GOSUB 440
140 PRINT "And I'll bet ano
ther dollar I can tell if wh
at you are  thinking is cor
rect.": :
150 GOSUB 440
160 PRINT "And I'll bet anot
her dollar I'm right BOTH ti
mes.": :
170 GOSUB 440
180 PRINT "And I'll bet one
more dollar I can guess what
 you'll be thinking a minute
 from now.": :
190 GOSUB 440
200 PRINT "OK....": :
210 GOSUB 480
220 PRINT "You're thinking t
hat a compu-ter can't possib
ly know  what you are thin
king.....right?": :
230 GOSUB 480
240 PRINT "So I told you wha
t you were":"thinking.......
.right?": :
250 GOSUB 480
260 PRINT "You owe me a buck
.": :
270 GOSUB 480
280 PRINT "And you're absolu
tely  right..I can't re
ad your  mind.": :
290 GOSUB 480
300 PRINT "So I told you cor
rectly that":"what you were
thinking was":"correct......
right?": :
310 GOSUB 480
320 PRINT "You owe me anothe
r buck.": :
330 GOSUB 480
340 PRINT "So I was right BO
TH times...right?": :
350 GOSUB 480
360 PRINT "That makes three
bucks you  owe me.": :
370 GOSUB 480
380 PRINT "And now it's a mi
nute later":"and you're thin
king you've":"been played fo
r a sucker....":"...right?":
 :
390 GOSUB 480
400 PRINT "...so you owe me
four bucks.": :
410 GOSUB 480
420 PRINT "NEVER NEVER bet a
gainst a  computer!! "
430 END
440 PRINT "Want to bet? Type
 Y(yes)": :
450 CALL KEY(3,K,ST)
460 IF (ST=0)+(K<>89)THEN 45
0
470 RETURN
480 FOR D=1 TO 800
490 NEXT D
500 RETURN
```

Since the manual doesn't mention it, some folks don't know that you can use IMAGE and PRINT USING for output to the printer. Try this -

```
100 OPEN #1:"PIO"
110 INPUT "NAME? ":N$
120 INPUT "AMOUNT? ":A
130 PRINT #1,USING "########
##########              ####
.##":N$,A
GOTO 110
```

Of course, you could also add a line -

```
105 IMAGE "##################
          ####.##"
```

And change line 130 to

```
130 PRINT #1,USING 105:N$,A
```

John Taylor has written the most complete and versatile SPRITE BUILDER utility program that I have ever seen. It has 22 different options available with a single key press, including rotation and animation. And along with it comes a diskfull of preprogrammed sprites designed by a professional artist. This is being distributed as Freeware. Send two single-sided or one double-sided disks to John Taylor, 2170 Estaline Drive, Florence AL 35630, in a returnable mailer WITH RETURN POSTAGE, at least - and I hope you'll also include something more!

Attention, assembly programmers! Fred Hawkins of the Lehigh UG is trying to coordinate a project of documenting the operating system by breaking the console ROM down to pages of 256 bytes so that each individual or group can work on just one page. Only those who participate will share in the results! All this is far beyond me, but if you want in, send an SASE and a SSSD disk with return postage and mailer to Fred Hawkins, 1020 N 6th St, Allentown PA 18102 - soon!

If you have a program on disk which is so long that you must type CALL FILES(1) before you can load it, add several program lines to it consisting of REM and any key you want to hold down for 5 lines. Then SAVE it back to the disk; it will now be in INT/VAR 254 format and will load without CALL FILES(1). If you then need sometime to make a casette copy, just delete those lines and SAVE it back to disk again.

If a program loads, but gives you a MEMORY FULL IN LINE ... when you try to run it, it has used up all available memory while reading DATA into arrays or performing other internal calculations. If it runs for some time and then gives you the MEMORY FULL message, it is because you have repeatedly jumped out of a FOR...NEXT loop with an IF...THEN...GOTO before the loop is completed. This rarely happen but it can, especially when you repeatedly jump out of the innermost of several nested loops.

MEMORY FULL

Jim Peterson

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REM

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