(036) 8711 MORIOPLEN NOVEMBER 1976 The FUNN Newsletter-Portland, Oregon

What's Inside From the Prez Page 1 # 1 1 2 1 3 1 1 Disk Jacket 3 1 3 1 3 1 4 1 * Super Extended Basic 4 1 5 1 t The Camels Back 5 1 5 1 * Listing for "Jacket" 6 1 # Electric Typewriter 7 1

From the Prez. .

Individually we each have ideas about what we want do do with our TI computer. We also have our own ideas about what the club should be, should do and what the club should become.

As interim president I want to hear from each of you, new members and old members alike. Let's pool our ideas about club objectives and programs. Our "collective wisdom" can be far greater than our indivual thoughts--We must have your input for the next president to use.

Tell me or tell another officer or board member what you would like to see the club accomplish in 1988. Program suggestions, workshops and special interest groups are areas where the members needs must be adressed. What do you think of the extra activities such as the Pizza Feed and the Summer Picnic?

Do you know anyone with a TI in the closet? Why not tell them about our club and bring them to the next meeting? You will be doing both them and our club a favor.

--Dale Kirkwood

News & Views

You will not want to miss the meeting this month! The board has authorized a raffle to give away to some lucky member valuble software. It won't cost you anything and you might be the winner. Our Librarians want you to know they have over 1000 programs--including 3 full disks of Christmas music. <u>Walt</u> Morey and <u>Ron</u> Mayer will have this available at each meeting. Don't forget that <u>Jim</u> Thomas our expert for you cassette users is always available when you need programs or help. Your editor broke his finger in his right hand--if you see errors you'll know why--this would be an excellent opportunity for you out there to contribute something for next month's WordPlay. Exciting improvements are being considered for the BBS--watch for them. Ron & Walt plan a demonstration of their computer commication via short wave radio at this month's meeting--see inside for details. Further nominations for office will be in order at this coming meeting--so far those nominated are--Al Kinney; President--Mike King; Vice-president--Don Barker; Secretary--Chuck Chuck Neal; Treasurer. Having trouble with your console?--Jim Smith will make you an exchange for \$25.00 (special to members) and guarentee it as well--see him at the meeting for details. There were 13 members present at the board meeting in members are invited to attend these October--all meetings. Often you can obtain valuble information from attendance at these meetings.

Club Officers

t.	President	Dale Kirkwood 646-4354	
t.	Vice-President	(open)	1
	Secretary	Don Barker 223-1749	1
)	Treasurer	Mike King 357-4413	1
		-	

PUNN Staff

Į.					
1	Librarians	Ron Mayer	232-7363		
1		Walt Morey	239-5105		
\$		Jis Thosas	284-2425		
t	Hardcopy	Nike Calkins	636-1839		
1	Program Chairman	Ted Peterson	244-1587		
1	Workshop Chairman	(open)			
1	Membership Chairman	Terry Priest	649-9583		
\$	Newsletter Editor	Charles Ball	639-0466		
ŧ	16576 SW Natador La	ne-King City,	DR 97224		
t		• • • •			
\$	* * * * * * * * *				
t					
t	BBS Committee				
4 4	Dhai - an				

Lnairman:	Al Kinney 640-5860 Ron Mayer 232-7363 Mike King 357-4413	1
BBS Phone Number	503/233-6804	1



said "why don't you get a real computine someone Have you heard of a "super cartridge?"
.", I'd have enough money to buy a MYARC your system, but it is usually battery backed
9640. Actually, I have gone through various and is like having a portable chip set. Flug
stages of responses ranging from "Oh yeah!, it in and your program is available (machine
well #\$!%! to you" to laughing in their face.
Let's be realistic though. The TT have
had a lot of had for the stage. had a lot of bad PR (public relations) since it first came out years ago. Why is that? First, look at the crap that TI passed off as rirst, 100K at the crap that 11 passed off as software. I have written BASIC programs that were more powerful than some of the modules TI sold for \$30.00 and up. How about peri-phereals? You want a PEB for \$300.00? It doesn't do anything except let you add other \$300.00 periphereals I'll take a dozen please. *D*]*e*ase.

Those were my "Oh yeah!..." days, when I felt that I had been taken. Black Friday (when TI pulled out) was like a knife in the back. However, now that I can look back on my first year (and laugh) I can hon-estly say that TI dropping us was as if our chains of bondage had been broken! Let's look at what's available.

MEMORY: This is frequently where the "power" of a system shows up. You can't read an ad without getting the RAM specs, what comes with it and what it is capable of do-ing. I say this is the "power" of the system because anything that is done must be done by a program. The more memory available, the bigger (i.e.) powerful the programs can be. thè The stripped down TI only came with 8K of ROM, 18K of GROM, 16K of RAM (some used by the screen and the BASIC interpreter) and a 256 byte scratchpad (working) CPU RAM. A cartridge adds as much as 42K of ROM-RAM-GROM. This was great in the early 80's but peanuts now.

Then along came peripherals. Most peripherals require some type of machine code interface (disk controller, RS232's etc. . have at least 4K of ROM (RS 232) and in some instances (CORCOMP and MYARC disk controllers) have more than one bank of 8K. Now we have a big pile of peanuts. But wait! Look! Up in the peripheral expansion box! It's a green light! It's a red light! It's a RAMDISK

Whether Foundation, Corcomp, Myarc, New on. Mechatronic or whatever, RAMDISKS Horizon, Mechatronic or whatever, KAMDISKS have revolutionized my TI life. Each with merits of its own, these cards (and more appropriately called RAMCARDS since they do more than emulate disks), can put the TI back into the lead concerning powerful home computers.

You think I've lost my mind? Conssider this: A modified New Horizon RAMCARD (my term) contains 256K of RAM. Since this card can occupy any CRU address, you can fill any empty slot in your PEB with one of these beauties. I have four slots open in my PEB empty slot in your PEB with one of these beauties. I have four slots open in my PEB at home - that's 1 megabyte of CPU memory a-vailable to me, battery backed up! These cards can be used as extremely fast RAM disks or can contain CALL routines for BASIC or Extended BASIC (with appropriate linking rou-tine) programs. I also have a 512K MYARC programs. I also have a Diak Dience . The machine code provided with the RAMDISK. card makes using it as a disk or print spoo-ler extremely easy - But I could use it to store routines if I wanted to. CORCOMP also has a similar card and has developed a word processor/formatter spell checker which will (if the description is true) blow the overlays off an IBM or clone.

I have only mentioned the memory aspect of the TI, without going into comparing the colors, speech, sound registers, tec. of other home computers.

If I may tell a short story, I believe I can get my point accross: the company where I work has 38 VAX 11/711's, IBM mainframes, hundreds of micro's etc. I have access to most of these systems through a Local Area Network. After trying MASS11 (word proces-sor) on the VAX, I broke down and brought in a TI setup. Three office buddies (including my bess) who own IBM's (or clones) started a II setup. Three office buddies (including my boss) who own IBM's (or clones) started the ribbing. I plugged in my Q-bert car-tridge and showed them the graphics - they stopped laughing. I plugged in the Terminal Emulator and let the TI talk to them - they listened. I played "Axel F" with three sound registers and a noise register (IBM can only make one noise at a time). One of them wan-ted me to see "CENTIFEDE" as written for the IBM. It was pitiful. I walked them over to . It was pitiful. I walked them over to cube and demonstrated the real thing for IBM. መソ them. They haven't asked me to look at any more of their programs.

Sure TI has far better games, but what about Lotus? Flight Simulator? dBASSIII? You've got me there. I admit there aren't programs of that magnitude available — yet. These RAM cards I mentioned are still in the infant stage. Give programmers some time infant stage. Give programmers some time (and incentive) to develop programs that use

TI's new-found power. The TI is capable of programs such these, but we must want them! Millers Graph-ics has developed a fantastic emulation program called Explorer. A finer program hasn't been written for the TI (personal opinion). Yet, within a few months (weeks) of its re-lease, there was a pirated version available. If TI owners supported BOTH commercial developers and fairware authors, instead of pirates. MORE excellent programmers would stay with us. Unfortunately judging by the speed in which pirated programs make it around the country, I'd say as a large group of computer enthusiasts, we have a bad reputation. Moral of the story. For the price of a RAMCARD of the story. For the price of a RAMLARD (about \$200.00), you could have it all. You must also not support pirates but support commercial developers and fairware authors. If you can't do either of these, go buy a clone (\$600.00 to \$2000.00) and start shelling out hundreds of dollars for stuff" "the neat

Curtis Allen --New Hampshire 99er's

Murphy's Rule:

÷

A \$300.00 picture tube will protect a 10c fuse by blowing first.

November Program

This month we have a good program by Ron Mayer K7BT, and Walt Morey WA7SDY, our club librarians.

They are both amateur radio operators and will show their equipment that is being used with our TI-99/4A's. They will have 2 different transmitters, both using printers, one at each end of the room and will send RT-TY, ASCII, AMTOR, PACKET, FAX, CW, etc., all using the 99/4A computer.

With new equiptment, that is now for sale, we can use our computers and do almost anything.

To show facsimile printing capabilities, a previously recorded audio signal will be used. For instance, it takes about 8 minutes to print out the full weather map that will be demonstrated.

They are both using their 99/4As on amateur radio. They demonstrated this same program to a large Amateur Radio club meeting this month and the program was well received. Most of the radio club members had other types of computers, but they became interested in ours.

Next month we will have a program on Christmas music. There are many different programs in our Library that you may want to look at. More information about this in the next issue.

More ideas for programs are needed. Do you want the type of programs we have had the last 2 months or some other type? Let Frogram Chairman Ted Peterson know. You'll find his phone number on the front page.

Seattle TI-Faire

A busy day and a busy time for all. Vendors present at the Seattle TI-Faire included: MYARC-a demonstration of the 9640 and the "final" version of DOS. RAVE COMFUTERSshowed both versions of their keyboard and speech synthesizer with hints of more fine hardware to come. MILLER COMMUNICATIONS-displayed a flex-card. This card will allow the 9640 to do graphics and titling for videotapes. They say it should be readv for the UES in Las Vegas. MECHATRONICS-were displaying it's mouse and software, as well as other products. No new products from them at this time. NAMELOC SOFTWARE (our own Paul Coleman)-had a booth offering his software. Designer Labels for use with TI-Artist: a combination disk containing Labelmaker, Disk Jacket and a calendar program; and a disk full of fonts and instances for TI-Artist. COMFUSERVE was represented by Jim Horn and GENIE was represented by Scott Darling.

The local dealers in the Seattle area, BITS & CHIFS, COMPU-SHOP and QUEEN ANNE COM-PUTER SHOP all had boothes with products for sale.

There were many USER GROUPS present including the Vancouver, Washington club. Our club did not participate this year but many of our members who attended the show feel that we should be represented in future events of this kind.

There was no major announcement of new products other that MYARC's DOS for the 9640. Attendance seemed to be at least as many as last year, however the tables seemed to be busier throughout the day.

Disk Jacket

Jacket is a program that made it's appearance on the PUNN BBS several months ago. It is a very interesting program that allows you to make your own disk jactets and print all the information that is on the disk

It prints an outline on the paper so you can accurately cut, fold and paste it into a proper size disk jacket.

proper size disk jacket. The program listed here has been on the BES and many members have down loaded it and found it useful

We are making it available to those FUNN members that do not use the BBS. You can type it in or like all the programs that appear in WORDPLAY, it will be available in the FUNN library at the November meeting. This is just a small example of what you can get when you use the service of the FUNN BBS. Computerists from all over the country are continually uploading games, utilities and useful information that can make your TI-994A more powerful.

more powerful. You can buy a new or used modem for a modest cost and once you enter this fascinating phase of computing, I guarentee you'll wonder why you waited until now. (You will find the listing for the "Jacket" program on page 6. It is rather long so you may wish to get it

(You will find the listing for the "Jacket" program on page 6. It is rather long so you may wish to get it from the library for the usual copying fee.)

> Charles Ball --Editor

Turn White

This neat little program comes to us from the Twin Tlers User Group and was written by Harry Wilhelm.

It is easy to type in. Just load the program and it will remain in memory until you turn the computer off. It will be especially handy when you type in programs as it will distinguish the letters apart from numbers and punctuation. I've tried it and I find that there is less chance for error when typing in long Call Characters codes.

You can keep it as a seperate program or resequence it to run ahead of any program if you wanted too.

---Charles Ball, editor

10 REM Turns all numeral and punctuation white! by Harry Wilhelm in Twin TIers User Group Newsletter. 20 REM Turn it on by CALL LO AD(-31904,63):: Turn it off by CALL LOAD(-31804,0) 100 CALL INIT 110 CALL LOAD(16128,2,224,38 ,0,2,0,8,17,2,1,63,36,2,2,0, 3,4,32,32,36,2,224,131,192,3 ,128) 120 CALL LOAD(16164,240,240, 240) 130 CALL LOAD(-31804,63) Word Flay The FUNN Newsletter-Fortland, Oregon-November 1987 Page 4

"Paolo" Letter From

We have received a letter from Paolo Bagnaresi from Milan, Italy.(He is the author of BA Writer.)

We are reprinting it here as it has interest for the TI community.

"I am currently working on an IBM inter-face program that should allow CorComp or My-arc Floppy Disk Controller owners to transfer IBM PC TEXT files directly from an IBM PC diskette to a TI diskette as a DIS/VAR 80 file. Then with BA-Writer you'll be able to use the original IBM files you may have de-veloped. Also the reverse will be possible, that is, you will be able to transfer TI that is, you will be able to transfer TI DIS/VAR BO files to an IBM PC diskette. No external hardware will be needed (no RS232 or extra cables). The software will be

a TI-IBM FC disk catalog program, with full access to all IBM Sub-Directories. Further, a SECTOR EDITOR program will come as a bonus

with the package. The Sector Editor will be able to handle both TI and IBM diskettes, as well as the MYARC WDS 100 Hard disk (finally a Sector Editor for Hard disk!).

And lastly a Disk Formatting routine that will initialize a diskette to either the TI or IBM format.

Minimum configuration for this software includes:

-32K Expansion Memory and PEB. - 2 DS/DD drives. -Myarc or CorComp Disk Controller (TI Controller will not work)

-One of the following modules: Editor/Assembler; Basic; Extended Mini-Memory; Gram Kracker; or any module or card that allows Machine Language execution. -RS232 and a Frinter are optional

-RS232 and a Frinter are optional So much for the good news. Now for the bad. It is taking my friend Luigi Grilli and myself a lot of time to complete this pac-kage. We have been working on this project in our spare time, as all the TI developers now do. So far, only the Sector Editor is a finished and fully tested program. The rest of the software is working but it is still scattered among many unrelated files. We have to bundle them together, add some fur-ther software for the user screen interface, prepare the manual, get somebody to distribprepare the manual, get somebody to distrib-ute it in the USA and finally submit the pac-kage to MicroPendium for review.

Honestly, I do not think what we will be able to release anything before Christmas I understand Tex-Comp has already retime. leased a similar package and that is just too bad for us. At any rate judging from the long development time we were experiencing, I always feared that somebody would eventual-ly come up with a similar idea before we could be ready with ours. Unfortunately this

could be ready with ours. Onto cunater, chis
is something that happens in real life.
 It will handle any kind of disk densities/formats: SS/SD, DS/SD, SS/DD 16 sectors,
SS/DD 18 sectors, DS/DD 16 sectors, DS/DD 18
sectors, SSDD 80 tracks 16 or 18 sectors,
DS/OD 80 tracks 16 or 18 sectors.
 That was for current the TL Happy

Thank you for supporting the TI. Haddy computing.

> Paolo Bagnaresi Via J.F. Kennedy 17 20097 San Donato Milanese, Italy

Super Extended Basic

At last a major improvement to the TI 99/4A that I can really use. SUPER EXTENDED BASIC is the best thing since DM1000 and the most used since I learned FUNLWRITER. If you have TI Extended Basic, you can throw it a-way, and if you don't have it yet, don't bo-ther. (Although you will need the TI Extenther. (Although you will need the TI Exten-ded Basic manual to learn and use the commands)

I read a review called Super Extended in a MICROpendium of 1985 that was ap-Basic parently disk-based and needed CALL LOAD's to but the ad in Triton's spring '87 catuse, alogue said it came in a module and supported up-down arrow in line editing. Since the price was only \$59.95 I decided to try it but.

WDW! It works just like TI Extended Basic and has been compatible with every pro-gram I have in "old xb" and some of the com-mands have been upgraded so you can specify Line Length with LIST and RESequence a segment of a program. You can also move the cursor immediately to the start or end of a line, or up and down a line in a statement, or tab left or right in a statement. You can even erase everything up to or after the cur-You can sor.

But this is just the icing on the cake! Super Extended Basic also adds 33 new com-

Super Extended Basic also adds 33 new com-mands. I think the best are: CDPY,MOVE, or DELETE a segment of a pro-gram, CALL CATALOG, CALL CLOCK, CALL CHIMES, CALL NEW or BYE, CALL QUITOFF, and CALL RUN-(a string variable program). It will also return the position of the ALPHA LOCK, CON-TROL, FUNCTION, and SHIFT keys. Most of these commands can be accomplished with long programping techniques or assembly language programming techniques or assembly language aids, but now they are so much easier. Many times I have spent hours trying to do them in "old xb"

And this is not all! Super Extended Ba-sic also includes "DRAW ' PLOT from Quality 99 Software built in as fifteen assembly lan-guage subroutines you can use like TI-ARTIST or GRAFHX to draw pictures, then dump them to a printer or disk. (You do need memory ex-pansion to use DRAW 'N PLOT.) Altogether, I feel this is the best

Altogether, I feel this is the best value I have found for the TI-9094A in a long time. The 24 page manual is laid out like the "old xb" manual and very easy to use. The only fault I have been able to think of with this module is that users with "old xb" cannot run a program written in Super Exten-ded Basic since the new commands are not supded Basic since the new commands are not sup-ported. Can you imagine your "old xb" when it encounters CALL ALL(42) to fill the screen with asterisks? But this is similar to try-ing to run an XB program in BASIC and not really a fault of Super Extended Basic. If you write your own programs and have been looking for a way to make life a little

been looking for a way to make life a little easier, I highly recommend Super Extended easier, Basic.

Gene Bohot --Pomona Valley User Group

*********** IN MEMORIAL Ť We are all saddened by the passing of one of our members last month. Bob Sidwell died on September 27th. 1987 - He leaves his wife Betty and his Mother. Our condolences to the family and we will miss him. ***************

Word Flay The FUNN Newsletter-Fortland. Oregon-November 1987 Fage 5

Font Writer II

Until now, if you wanted to mix text with graphics. your solution was to type something with TI-Writer, draw something with TI-Artist and use scissors and paste to com-bine your pictures with the words. Of course, where there is a problem, there is a solution, and in this case someone called it "DESKTOF" FUBLISHING". Assgard Software has come up with their method to do this work without the scissors and paste. It is Font Writer II by J. Peter Hoddie.

If you ever need to produce newsletters, reports, flyers, advertisements, papers, or the like then you will be able to appreciate something that does this work for you even more. Font Writer II provides the essential missing step between TI-Writer and TI-Artist. With Font Writer II you can quickly and eas-ily insert any number of compatible fonts (typefaces) with TI-Artist, CSGD or GRAPHX pictures or instances anywhere in your TI-Writer file. You will be able to create text boxes, justify pictures and text, and do pretty much anything else you can think of. Font Writer II is a step in power beyond any others.

Unlike others, Font Writer II uses the well-known and documented TI-Writer interthe face. You create your document with the TI-Writer or equivalent (Funnelwriter, etc.) complete with "dot" commands for having the text printed in other fonts, including pic-tures, and placing borders. Then instead of using the TI-Writer Formatter you call up the Font Writer Formatter - which with assembly speed pieces together your text and the pictures and fonts you wanted, and prints it just as rapidly. Font Writer II also includes a Font Editor that allows you to design your own type faces or change an exist-ing type face. You can also use all the fonts that TI-Artist provides as well as CSGD fonts.

Font Writer II includes a second disk that has many fonts and pictures along with five demo programs that illustrate the use of type and graphics. There is a 36 page manual that makes it easy to use the various programs.

I am using this program to help me prepare WordFlay and in my opinion it is the best on the market for this type of program. Charles C. Ball

Computers in Surgery

to monitor patients during surgery. The computers are used in a variety of operations, but there is a special focus on brain and spinal cord procedures. Intraoperative (real-time) computer

monitoring is a research effort and is not being used routinely for neurolgical procedures, according to Dr. Richard Burgess, director of Neurolgical Computing for the clinic.

"We're trying to develop methods that will use brain wave recordings while a computer processes data necessary for decision making. We need to look at those patterns to determine when an abnormality has occurred. The computer assists the physician

The Camels Back

This game demonstrates both a little program that can displayed on the screen at one time (commonly called a Tinygram) and also that real old game called "The straw that broke the camels back!" After you type the program in and run it the instructions will appear on the screen.

Normally the game is played by two people and the number of straws that will break the Camels back iw picked at random by the computer.

It's a fun little game and entertain children and adults alike. and should ke. Whoever picks the straw that "breaks the camels back" loses. It could be you or the computer. Some of the lines in the program are long so remember is the computer does not accept the entire line, you can press function 8 (REDO) and you will then be able to complete the line.

HAVE FUN!!

2 CALL CLEAR :: 0\$="55767671 353235" :: K=-1 :: CALL COLD R(10,16,7,2,11,11):: B,G=0 3 P=2 :: W=INT(RND120+9):: F OR T=1 TO 7 :: CALL VCHAE(VA L'SEIS(Q\$,T,1))+5.T+12,42,VA L(SEI\$(D\$,T+7,1))): NEXT T :: FOR X=1 TO 7 :: FOR Y=15 TO 19 :: CALL SOUND(1,-5,0) 4 IF D=0 THEN P=P+K :: K=-K 5 Z=11-X :: IF D=0 THEN DISP LAY AT (20,2): "6UESS?": #1="; R(1): #2=";R(2):: ACCEPT AT(20+F,B)SIZE(1)BEEF VALIDATE(123456789"):B 5 F=F+K :: B=B+1 :: CALL HCH AR(Z,Y,111):: IF B>W THEN B 7 G=D-1 :: NEXT Y :: NEXT X B DISPLAY AT(18,2): ##;F; WI NS!" :: R(F)=R(F)+1 :: FOR J =5 TO 10 :: CALL HCHAR(J,15, 32,5):: CALL SIND(599,440-1 ØŧJ,Ø):: CALL HĒHAR(21-J,5,1 11,5):: NEXT J :: 60T0 2

What you do speaks so clearly, I don't have to hear what you say,

The Cleveland Clinic is using computers who is trying to interpret those patterns." monitor patients during surgery. The Using specially developed techniques, aters are used in a variety of physicians in the operating room can check physicians in the operating room can check the functioning of the brain and spinal cord. This is important during operations in which the spine is straightened with adjustable metal rods. In such procedures, it is important not to straighten the spinal cord too much in any one operation, because straightening it too fast can pinch it. Computer monitoring of the activity going through the spinal cord can alert the surgeon Computer monitoring of the activity going through the spinal cord can alert the surgeon before damage occurs.

Computer monitoring also is useful in operations to remove malformed blood vessels or tumors that may damage the spinal cord if extracted with too much force. (con't on page 6)

Listing for "Jacket"

1 DATA 3,15,129,3,16,130,4,1 4,131,4,15,132,4,16,133,4,17 ,134,5,14,135 2 @=@ :: t=1 ::]=2 :: =3 : : \=4 :: GOTO 9@ :: OPTION B

ASE 1 :: CNDN\$. DN\$. DN\$. DR\$. L\$. L\$. L\$. P\$. EMPF\$. EX\$. FM\$. L1\$. L2\$. LB\$, LF\$. D\$. RB\$. TMP\$. U\$. UF\$. UN\$, X\$. 2\$ 3 A.C. D. F. FLIP. G.K. L1. L2, ND. D. P\$. S. V. X :: CALL CHAR :: C ALL CLEAF :: CALL COLOF :: C ALL CLEAF :: CALL COLOF :: C

ALL HCHAR :: CALL VCHAR :: C ALL YEV :: CALL SCREEN :: CA LL SIND :: CIT FNS(128,3):: DIM D\$(10):: DIM LN\$(10):: IBP-

90 CALL KEY(.K.S):: REM ! Programmed by

91

! *Pierre K. Lamontagne*
! * Memphis, Tn. 12/86 * 97

93 ********************** 94

95 Inspired by Randy Baxter

version & reWritten with 96 ! Some graphics design by

Gerald Smith 97 !

98 ! LN\$(7)may be changed to suit your needs: IT will print on bottom of jacket MAX Length is 93 characters.

99 ! make changes in 140

100 RESTORE 110 IMAGE • ••••••••••

120 IMASE * ######### ### #

130 IMAGE " ################# ************************ ******************

140 LN\$(7)= STEVE STENBERG 1705 Long St. Sweet Home, (R 973B6 (503) 367-4159 150 0 E\$=CHR\$(27)

160 CALL CLEAR :: CALL SCREE N(6):: FOR C=C TO 14 :: CALL

N(6): FOR C=1 10 14 1; CALL COLOF(C,[.]):: NEXT C 170 CALL CHAR(129, "7FC0C0C0C 0C0C0C0", 170. "C0404042454240 70", 131, "0000FF8000C0", 132 "C0C0CFDC0C1F0001", 133, "306

ACC1818838464*) 566777734975

(con't from page 5)

ØE07030100*)

have more subtle abnormalities,

"Before this kind of monitoring, the patient could become paralyzed," according to Dr. Burgess. "However, sometimes patients

190 CALL CHAR(126, "FF00FF00F F00FF00",140, 020404080884C4 78"):: DISPLAY AT([,10):"TI-99/4A" :: DISPLAY AT(6,1):"M id-South" :: DISPLAY AT(6,18 F=1438 THEN FMS= (DS/DD) "E): "Users Group"

200 CALL HCHAR(8,1,124.32):: FOR F=1 TO 12 :: FEF1 5,D,C :: CALL HCHAR (6, D, C) :: NEXT

220 DATA 5,15,136,5,16,137,5 17,138,6,15,139,6,16,140 230 CALL HCHAF(14,1,126,32) : CALL HCHAF(20,1,126,32) 240 DISPLAY AT(10,1): Graphi cs : Gerald Smith: : "Progra

: Pierre LaMontagne" :: F

250 DISPLAY AT(16, \): 1=10:

2=5610 3=N110": : "Select p rinter model (1-3)3" :: ACCE PT AT(12.2")SIZE(-[)VALIDATE ("123")EEE:PS

260 DISPLAY AT(16,1):**: :**

:: DISPLAY AT(17,1):"Initia lizing printer codes"

270 605UB 710 :: 605UB 1100 280 LN\$([)=CHR\$(9)&* INSTED CTIONS: (1) Cut Dotted Lines

(2) Fold at Dashed Lines, (3) Glue or Tape Flaps. 290 LN\$(1)=RFT\$(",10)&RFT\$

(*.*.98):: LB\$=*.*&RFT\$(* 9)1041** 9)2032

300 A=6 :: K=3 :: 605UB 1000 310 L1\$=" Filename Siz Typ

&";"&L1\$&";"&L1\$&";"&L1\$&RB\$ 315 A=4 :: K=5 :: 60SUB 1000 320 LN\$(5)=LB\$&L2\$&!*&L2\$& !*&L2\$&'!*&L2\$&RB\$:: D\$([)= *D/F* :: D\$(])=*D/V* :: D\$(

"D/F" :: D\$(1)="D/V" :: D\$()="I/V" :: D\$(\)="I/V" :: D\$ (5)="PFIIEM" 330 ON EFIIF: 340 :: CLOSE #[340 DI5FLAY AT(16,[):" ZERO to Buit":"":"Input from driv "B*? (1-4)" :: 60SUB B20

350 CALL SCREEN(14):: CALL K

EY(@.K.S):: IF NOT S THEN 35

360 IF K<48 DR K>52 THEN CAL 1 SCFEEN(7):: 60TO 340 ELSE DR\$=STR\$(K-48):: DISPLAY AT(16,[):**: :**

372 IF K=48 THEN CALL DELSPR ITE(ALL):: CALL VCHAR(1,1,32 ,768):: PRINT ** GET **:: STOP

monitoring techniques may not pick them up. and there may be damag Sometimes there will ne no change in the we are not monitoring. patterns, and we'll think everything is fine Reprinte

380 ON ERROR 330

390 OPEN #[:"DSK"&DR\$&".", IN

and these

LSE IF F=718 THEN FM\$="(DS/S D) ELSE IF F=358 THEN FM\$=" (SS/SD)" ELSE FM\$="(N/STD)" 410 ON ERROR STOP

429 TMP\$=U\$&CHR\$(14)&" Name: "&DN\$\$" Free: "&STR\$ (D) &

AUNROF FFEE: ASIRS(U)& Used: &STRS(F-D)& * &FM\$ 430 TMP\$=TMP\$&RPT\$(* 51-LE N(TMP\$))&UF\$&CHR\$(20T& * :: A=B :: K=1 :: GCE_E 1000 :: LN\$()=LB&&TMP\$&F55

432 IF FLIP=0 DR FLIP=2 THEN L1=[:: L2=127 :: 60TO 440 435 FOR X=1 TD 2 :: IF X=1 T HEN L1=[:: L2=64 ELSE L1=65

1: L2=128 440 FOR C=L1 TO L2 :: INPUT

*I:E\$,6.F,D :: IF E\$="" THEN 500 ELSE FN\$(C,I)=E\$:: FN\$ (C, 1)=STR\$(ABS(F)): IF ABS(6)=5 THEN X\$="" :: 60T0 460 ELSE V=_TEC V\$

ELSE X\$=STR\$(D)

450 IF LEN(X\$)=] THEN X\$=*0* XX\$ ELSE IF LEN(X\$)=I THEN X \$="00"4X\$

460 FN\$(C,)=D\$(ABS(6))&X\$ 470 IF LEN(FN\$(C, J))=] THEN FN\$(C,])=" "&FN\$(C,])ELSE IF LEN(FN\$(C.]))=E THEN FN\$(C.

])=" "&FN\$(C,]) 480 DISPLAY AT(22,5):"Diskna me: * DISPLAY AT(24.) # ":FN\$(C, L), FN\$(C, 3), FN\$(C,

490 NEXT C

500 ND=C :: DISPLAY AT(24,\) : FILE COUNT=":ND-C :: IF FLIP=0 OR FLIP=2 THEN CLOSE

#1 :: 60TO E1@ SPE IF X=1 THEN CLOSE #1 :: B 1300 :: OPEN #[: DSK*& DRSL . INTERNAL RELATIVE, IN PUT :: DISPLAY AT(16,1): Fearing backside...: :: ::

504 NEXT X :: CLOSE #C

510 CALL SCREEN(13):: DISPLA Y AT(17,[):" Printing jacket

520 OPEN # :"PIO", VARIABLE V :: PRINT #_:CNDN\$;EMP\$;Z\$;L

530 FOR C=L TO 5 :: PRINT #_ :LN\$(C):: NEXT C

540 C=[:: A=] :: K=7 :: 605 UB 1000 :: 605UB 1100

550 A=1 :: K=B :: 605UP 1000 560 FOR C=J TO 29 :: 605UB 1

100 :: NEXT C 580 C=30 :: A=3 :: K=6 :: FO R F=1 TO 4 :: 60SUB 1000 :: IF F=4 THEN GOSUB 810 :: GOT 0 600 590 60SUB 1100 :: A=A+2 :: K

=K-2 :: C=C+1

=K-2 :: L=L+1 600 NEXT F 640 PRINT # :RPT\$(" ",11)&". *RPT\$("-",94)&". 650 PRINT # :EMPF\$;:: FOR C= [TO 36 :: PRINT # :RPT\$(" ", 11)&".*&RPT\$(" ",94)&"." :: NEXT C (40 FOR C=0 TO (FTEP] :: P

660 FOR C=0 TO 6 STEP] :: P RINT # :RPT\$(" ",11+C)&"."&R PT\$(" ",94-C\$])&"." :: NEXT

670 PRINT #_:RPT\$(* *,19)&RP T\$(*.*,8Ø)

480 PRINT # :CHR\$(12)::: CLD SE 🛊

690 FOR C=L TO ND :: FN\$(C,L),FN\$(C,]),FN\$(C,_)=** :: NE XT_C

695 IF FLIP>1 THEN GOSUB 140

700 6010 340 719 ! CODES FOR S610:

720 UNI\$=E\$&"U"&CHR\$([):: CN DN\$=CHR\$(15):: EMP\$=E\$&"E" : : EMPF\$=E\$&"F" :: FM\$=CHR\$(1 2):: EX\$=CHR\$(14):: Z\$=E\$&"\ "&CHR\$([)

730 B\$=CHR\$(245):: LF\$=E\$&*0 :: V=136 :: U\$=E\$&"-"&CHR\$ ([):: UF\$=E\$&"-"&CHR\$(@)740

! NX10 MDDS:

......................

750 IF PS= THEN D\$=CHR\$(124):: Z\$=E\$&^{#~+}&CHR\$([) 760

770 ! 10X MODS: !!!!!!!!!!!! 111

780 IF PS=1 THEN V=132

790

802 RETURN E:@ PRINT # :LB\$::: PRINT # ,USING 130:EN\$(7)::: PRINT # ,USING 130:[N\$(7);:: PRINT :RB\$:: RETJFN 220 FOR F=[TŪ] :: FOR C=[TO 15 STEP] :: CALL SOUND(-327.7000,C,6000,C,5000,C):: NEXT C :: NEXT F :: RETURN 1000 LB\$=RFT\$(* ",A)&". *&RFT \$(* ",K)&D\$&* :: RB\$=D\$&RP T\$(* ",K)&D\$&* :: RES=D\$&RP T\$(* ",K)&T \$: LB\$; 1100 PRINT \$_:LB\$; 1110 PRINT \$_:LB\$; 1110 PRINT \$_:USING 110:FN\$(C C,I),FN\$(C,J),FN\$(C,),FN\$(C+32,);

1120 PRINT #_,USING 120:FN\$(C+64, [), FN\$ (C+64,]), FN\$ (C+64

(listing con't on page 7)

the until the patient wakes from the operation g to with a subtle abnormality or, in some cases,

a more pronounced one. We are not able to stimulate every nerve in the spinal column.

and there may be damage to some of the nerves Reprinted from --Online Today

The FUNN Newsletter-Fortland, Oregon-November 1987 Page 7 Word Flay

(listing con't from page 6)

).FN\$(C+96.[),FN\$(C+96.]), FR\$ (C+76,); 1130 PRINT # :RE\$:: RETURN 1200 CALL SCREEN(4):: DIST_A Y AT(16.[):"Using flippy dis ks?":"":"N:- Ylyes Alask on each" :: GJS_B 820 EACH :: E-2-2 DECE 1210 DISPLAY AT(18,26): 1?]* 1220 CALL KEY(2,K,5):: IF K= 7B THEN FLIP=0 ELSE IF K=89 THEN FLIP=1 ELSE IF K=65 THE N GOSUB 1400 :: GOTO 1290 EL FOR DECEMPTION SE DISPLAY AT(18,26):"[]" : 60TO 1210 1240 DISPLAY AT(18, 27) : CHR\$(K)&"]" 1298 RETURN 1300 DISPLAY AT(16,[):"Flip disk":"":"Dress ENTER when r eady" :: GIELB 820 1310 CALL AE:(0,K,S):: IF K= 13 THEN RETURN ELSE 1310 1400 CALL SCREEN(4) :: DISPLA Y AT(16, L): "This next disk w ill be:":"":"[F]flippy [N]n ormal"

1419 DISPLAY AT(18,22): "[F/

J" :: CALL KEY(@,K,S):: JF K =70 THEN FLIP=3 ELSE IF K=78 THEN FLIP=2 ELSE DISPLAY AT (18,22): I /N] :: GDTO 1410 1420 DISPLAY AT(18,22):"[*& CHR\$(K)&* J* :: RETURN 1429 !@P+ 1430 END 1500 CALL MAGNIFY (3) :: CA 100" LALL MAGNIFY(3):: CFU CHAR(36, RPT\$("FF00",4)4557\$("0",16)4RFT\$("FF00",4)4RFT\$("0",16)):: CALL DELSPRITE(AL 1510 CALL SPRITE(#1, 36, 5, 105 1, 0, C, #2, 36, 5, 105, 17, 0, C, #3 , 36, 5, 105, 33, 0, C, #4, 36, 5, 105 ,36,5,105,33,0,0,**,35,5,100 ,49,0,C) 1520 CALL SPRITE (*5,36,5,57, 192,0,-C,*6,36,5,57,176,0,-C, *7,35,5,57,160,0,-C,*8,36,5, 57,144,0,-C) 1530 CALL SPRITE (*9,36,5,153, 152,0,-C,*10,36,5,153,160,0,-C,*1 2,36,5,153,144,0,-C) 1590 RETURN 1590 RETURN



"I spilled my coffee on the computer!"

Electric Typewriter

In the last two meetings we have all learned a little about our printers and how to address them. The various programs such as Funnel Writer, TI-Writer, BA Writer and

others have been explained. If you have just a short typing job to do, you may not want to go to the bother of loading up one of these programs. Well, you don't have to because there is a simple and easy way to turn your printer into an elec-tric typewriter. Four lines of Basic code tric typewriter. Four lines of Basic code will do it.

> 1 OPEN #1: "FID" 2 INPUT AS 3 PRINT #1:AS 4 60TD 2

This simple program enables the user to type a line of text, edit it as desired, and then print it by hitting the enter key. Whenever a line of text is to be inden-

ted or contains a comma, that line must begin and end with a quotation mark ("). The quotes will not be printed nor will they be counted in the width of the line of text. To skip a line, just hit enter. If you want to print in expanded, con-

densed or another version as allowed by your printer you can load the printer up before typing using one of the various programs available for your printer.

You'll also want to note the number of acters that will print out on each line characters that will print out on each line and press ENTER before over running each line.

By adding a few more lines, the program can be made more useful. You can specify the maximum line length you want and what the left and right margins will be. A check can be added to insure these limitations are not exceeded and a promt is included to display what an overly long line can be shortened to. User instructions are also included with this expanded version. Here is what this 10 line Basic program looks like:

1 PRINT "TO INDENT TEXT OR T O USE A COMMA, BEGIN END THAT LINEWITH DUDTATION MARK 5* 2 INPUT *PRESS ENTER TO SKIP A LINE. HOW WIDE? (80 CHARAC TEPS MAX) ":WIDTH 3 MAPSIN=INT((80-WIDTH)/2) 4 OFEN #1: "PIO" 5 INPUT * INPUT LINE OF TEXT: *: TEXTS 6 IF LEN(TEXTS) >WIDTH THEN 7 ELSE 9 7 PRINT : LINE TOO LONG! SH ORTEN TO WIDTH; CHARACTERS MAX. ": SEG\$ (TEXT\$, 1, WIDTH) 8 6010 5 9 PRINT #1: TAB(MARGIN); TEXT\$ 10 GOTO 5

When typing notes, etc., where it is de-sireabale to start printing at column one, input a line width of 80 and monitor the line width on the screen

A simple way to use this program for correspondence is to use a line width of 56. This will fill exactly two lines of the TI screen. Right margin justification can be accomplished by inserting spaces between words until the second line of text is completely filled.

The OPEN statement in Line 4 should be changed as required for the particular prin-ter in use. The line width feature is de-signed for PICA print. Line 3 can be changed to accomodate ELITE or CONDENSED styles.

Try both of these little programs. They may be just what you need for small typing jobs.

> Charles C. Ball --Editor



company or product. We are not a subsidiary or branch of any other User's Group and any relationship we may have with other groups is on the basis of equals.

or otherwise. Mention of a company or product is not an endorsement of that

DISCLAIMERS: The PUNN User's Group is not affiliated with or sponsored by TI and has no relationship with them, implied

II NEXT MEETING DATE II
NOUEMBER 3RD. 1987

ALL GENERAL MEETINGS ARE HELD ON THE FIRST TUESDAY OF EACH MONTH, AT THE PGE BUILDING 3700 SE 17TH. PORTLAND, OREGON



P.O. Box 15037 Portland, OR 97215