

Vol. 3 No. 2

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February, 1985

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LETTER FROM THE EDITOR

Steve Buchanan, our Treasurer, has requested that all SNUG members attend February's meeting. New membership cards will be available for all paid-up members. He will also be determining membership expiration dates for current members.

The above activities should also determine the list of members' addresses for the next newsletter mailing. I've been wanting to eliminate the ex-members for some time but haven't had a complete up-to-date list to do so. However, this should provide the information I need. SNUG currently mails out over fifty newsletters to individuals and it is obvious that we don't have that many people attending our meetings.

This issue contains a tutorial chart on file usage for both cassette and disk systems. It is reproduced from the newsletter, REM 994/A STATEMENTS, from the Mansota Users Group in Sarasota, Florida. It contains a condensed format summary of the defaults and options to guide the less experienced through the use of file storage.

NEXT MEETING

MONDAY, FEBRUARY 11 - 6:30 pm

CHARESTON PLAZA LIBRARY MEETING ROOM

You can use a Shugart bare drive as a 2nd drive, or a model 1250 TI internal drive as an external drive with the following modifications. You need only to be an Electrical Engineer or have lots of guts (I'm the guy with guts).

#1. You must determine if you have the early or late model drive in the P-Box. The difference being in the location of the Shunt Pack (also known as the Strapping Pack) and the Termination Resistor. With the drives removed and standing on their face and the PC Board facing you, the older models will have the Termination and Shunt Pack horizontal, with the Shunt Pack at the top (as on pg. 4 of the Disk Drive Memory Manual). The newer model has the packs mounted vertically with the Shunt Pack at the edge of the board or right side. If you have the older of the two you must remove the Termination Resistor for the internal drive as described on pg. 4 of the manual. If you have the newer drive leave the Termination Resistor in both drives!! Are you still with me? Hnag on, I will get there.

#2. Remove the Shunt Strap switch using the method on pg. 4 of the manual. Replace the 14 pin Strap switch with a 14 pin DIP switch or a more popular 16 pin DIP (bending overthe last two legs) placing the first legs of the DIP in the first holes of the socket, leaving the last two hanging over the end of the socket. Next look on the PC Board next to the socket and close (turn on-Ed.) switches marked #2 and HL, leaving all others open (off-Ed.) Are we there? Nope, just a little more.

#3. Located inside the P-Box (that's the silver thing that makes all the noise and has the blinking lights) is the power cord as described on pg. 5 of the manual. You will need to make a Y adaptor to fit this power plug. It must have two short legs, one for the power plug and one for one for the internal drive, and a third long leg for the external drive. You will need approximately four feet of four conductor cable, two male and one female matching plugs. After the cable has been made, plug one short female leg into the power cord and plug the other short male leg into the internal drive. Run the long male cord out the back of the P-Box from inside the internal drive compartment. In order to have room for extra cables (control & power) move the drive controller card to slot #7 in the P-Box. Note: do not cross up the wires on the power cord. Match them terminal for terminal on both drives to the original set-up (the two terminals in the center are ground, the two outside ones are 5V + and - and 12V + and respectively.) Well, are you confused yet? Mush on! It gets worse.

4. Reinstall the internal drive taking care not to crimp the power or control cables. Plug the flat control cable back on the card in its original position, running the new power cord out the back through the #8 card slot. Next you need two 34 connector female edge card plugs and however much 34 conductor flat cable you wish (4 feet is nice). [The 34 conductor can be made by paralleling two or more pieces of multi-conductor cable to total 34 conductors. Ed.] On the back of the card is a flat 34 conductor male terminal - plug one end to this and the other end to the flat 34 male connector. Look carefully at the two terminals, one side is ground and the other is control signal, do not swap sides from card to drive, as this will cause it to not work. Now plug in the power cord and you're done.

If you want it to look pretty you can build a cover out of 1/8" plastic and put little rubber feet on it. You don't need a cooling fan - remember you don't have a power supply inside the drive

NOTE! THERE ARE NO GUARANTEES. I have used this method several times and it works for me. But, if you desire to take this mission and goof up, the system will self-destruct in 10 seconds. [Remember Mission Impossible? Ed.] If after all this you're not confused, call me and I will explain the drag coefficient of a bar of soap.

GOOD LUCK

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* The SNUGLETter is published monthly by the Southern Nevada Users'	*
* Group (SNUG). SNUG is a non-profit organization of individuals with	*
* an interest in all aspects of Texas Instuments' 99/4 & 4A computer,	×
* including all related hardware and software by third party vendors.	×
* The GROUP meets at 6:30 PM on the second Monday of the month -	*
* currently in the Clark County Library meeting room, 1726 E. Charleston	¥
* Blvd. (Charleston Plaza Mall). Visitors and guests are welcome to	*
* attend the meetings. Information on membership is available at the	*
* meeting.	×
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THE CHART OF FILE OPERATIONS FOR THE TI/994A A PRODUCT OF BURGETT SOFTWARE COMPANY

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Designed and edited by H. Burgett - 6625 Roxbury Dr., Sarasota FL 33581 - Phone 813-924-1886

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1	FILE OPERATING MODES				FILE ORGANIZATION		DATA TYPE		RECORD TYPE	
C A	OUTPUT	INPUT	UPDATE	APPEND	* * SEQUENTIAL *	RELATIVE	DISPLAY ASCII CODE	INTERNAL BINARY CODE	FIXED	VARIABLE
S E T E	OK FOR USE WITH CSI & CS2	OK FOR USE WITH CSI BUT NOT CS2	CAN NOT USE W/CSI OR CS2	CAN NOT USE W/CSI OR CS2	 DEFAULT VALUE CSI & CS2 - 	CAN NOT USE W/CSI OR CS2	* DEFAULT * VALUE * FOR CSI * & CS2	OK FOR USE W/CSI OR CS2	DEFAULT VALUE FOR CSI & CS2	CAN NOT USE W/CSI OR CS2
F L E P E R	WRITE ONLY TO A MEMORY DEVICE THERE AR CASSETTE	READ ONLY FROM A MEMORY DEVICE RE NO DEFAL FILE OPEN	ULT VALUES STATEMEN DEVICE NAM	5 FDR NTS - NE, EITHER	* THE NUMBER * MAY BE SPEC * A NUMERAL F * THE WORD- S *	OF RECORDS IFIED WITH OLLOWING EQUENTIAL	MUST USE FOR ANY RS232 OUTPUT	RUNS FASTER AND USES LESS MEMORY	CASSETTE RECORD LENGTH MAY BE FROM 64-128 CHARACTERS SPECIFIED AFTER THE WORD- FIXED	
T I N S	* CSI DR C * BETWEEN * EXAMPLE:	CS2 AND A F 1 & 255 : OPEN #1:' : OPEN #5-'	ILE NUMBE	ER JT,FIXED 12 DHT FIXED 1	≠ ≠ < ₩ITH ≠ 8 28	CASSETTE FIL DISPLAY	LE YOUR ONLY REAL CHOICE IS BETWEEN> Y AND INTERNAL TYPE			->
+++ Use	the progr	am below t	o practic	ce making c	**************************************	' **************** ile program -	learn how f	iles operate		
100 REM *HERB BURGETT FILE TUTORIAL* 330 PRINT ::: 110 *TI BASIC FOR CASSETTE* 330 PRINT ::: 120 CALL CLEAR 340 PRINT "type END to close the file" 130 PRINT TAB(13); "MENU" 350 IF N\$="END" THEN 420 140 PRINT 360 INPUT "PRONE->":P 150 PRINT "cassette file demo program" 360 PRINT #LIENTRY;N\$;P 160 PRINT "refer to the chart to make" 380 PRINT ENTRY,N\$,P 170 PRINT "refer to the chart to make" 380 PRINT ENTRY,N\$,P 180 PRINT "refer to the chart to make" 380 PRINT ENTRY,N\$,P 170 PRINT "refer to the chart to make" 380 PRINT ENTRY,N\$,P 180 PRINT ": :: 400 PRINT ::: 190 PRINT "1.CREATE (OUTPUT)":" A NEW NAME/PHONE FILE" 410 GOTO 320 200 PRINT "2.REVIEW (INPUT)":" AN OLD NAME/PHONE FILE" 420 PRINT #1:999;ZZZ;999 210 PRINT "2.REVIEW (INPUT)":" AN OLD NAME/PHONE FILE" 430 CLOSE #1 220 PRINT "3.END SESSION" 450 OPEN #1:"CSI", INPUT, INTERNAL, FIXED 240 PRINT :::: 250 CALL SCREEN(11) 470 INPUT #1:N,N\$,P 250 CALL SCREEN(11) 470 INPUT #1:N,N\$,P 260 CALL HCHAR(1,1,66,32) 260 ON C GOTO 300,450,550 500 PRINT "ENTEY:N 300 OPEN #1:"CSI",0UTPUT,INTERNAL,FIXED 370 ON C GOTO 300,450,550										

BURGETT'S CHART OF FILE OPERATIONS FOR TI 99/4A

			• FILE ODGANIZATION		NATA TYPF		######################################					
	FILE UPERALING NUUES							* RECURU ITPE				
	OUTPUT	INPUT	UPDATE	APPEND	SEQUENTIAL	RELATIVE	DISPLAY ASCII CODE	INTERNAL BINARY CODE	FIXED	VARIABLE		
SK FILE OPERATIONS	OK FOR USE WITH DISK FILES	OK FOR USE WITH DISK FILES	DEFAULT VALJE DISK FILES	OK FOR USE WITH VARIABLE RECORD TYPE	DEFAULT VALUE DISK FILES	OK TO USE WITH DISK FILES	DEFAULT VALUE VALUE FILES	OK FOR USE WITH DISK FILES	OK FOR USE WITH DISK FILES	SAVES SPACE BUT WON'T RUN WITH RELATIVE FILES		
	WRITE ONLY TO A MEMORY DEVICE	PEAD CN:Y FROM A MEMORY DEVICE			RECORDS MAY BE F!¥ED OR VARI≜ELE	PECOPDS MIET BE FIXED LENGTH IF RELATIVE	NICT USE FIE ANY RS232 OUTPUT	RUNS FASTER AND USES LESS MEMORY	DISK RECES LENGTH MAY BE FROM 80-	SAVES SPACE BUT WON'T FUN WITH RELATIVE FILES		
		PROTECTED DISKS MAY ONLY BE USED FOR INPUT	CAPABLE OF BOTH PEAD AND WRITE	CAPABLE OF WRITE ONLY TO EOF-WHICH PREVENTS WRITING OVER UNPROTECT- ED FILES	VALUE VALUE VARIABLE	USED	, , ,		THE DEFAULT TO 254 SPECIFIE AFTER WORD- FIXED			
-	<pre>< THE DEFAULT VALUE FOR A DISK> </pre> <pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre><pre></pre></pre></pre>											
•	* OPEN STATEMENTS MUST USE A FILE # BETWEEN I & 255 AND A DEVICE NAME * SYAMPLE: OPEN #5:"DSKI.MYFILE",INTERNAL,RELATIVE,FILED 128 * FENING MODES ARE CAPABLE OF CHANGE - AFTER AN OUTPUT FILE IS CREATED, IT COULD BE OPENED LATER AS AN * INPUT FILE OR (PROVIDED THE RECORDS ARE VARIABLE TYPE) IN APPEND											
- 	* COMMON ROOKIE ERROR MESSAGES - SEE THE USERS GUIDE PP III-10 thru III-12 FOR NORE DETAILS * >FILE ERROR <attempting a="" a<br="" close,="" currently="" file="" from="" input="" input,="" not="" openattempting="" or="" print="" records="" restore="" to="">* file opened as OUTPUT or APPENDAttempting to PRINT rec on an INPUT fileOPENING file already open * I/O ERROR<02 Means bad open attribute (one or more OPEN options are illegal - don't match the file) *25 Means the file INPUT is attempting at read past the end of file06, I6, 26, &36 Device not currently connected</attempting>											
**** lise	the progr	am below t	o practic	e making ch	anges to file	Drograms -	YOU CAN I FAR	**************************************	**************************************	**************		
100	REM *HERE	BURGETT F	ILE TUTOR	RIAL EXBASIC	C FOR DISK*		280 NEXT X :	:: CLOSE #1 ::	GOTO 105			
105	CALL CLE/	R :: CALL	HCHAR(24,	1,66,64)::	CALL VCHAR(1,	32,66,48)	290 CALL CLEAR					
110	0 CALL SCREEN(11)** DISPLAY AT(3,6):"FILE TUTORIAL MENU"						300 UPEN #1: 320 FOD Y-1	TO 5 ** INDIT	RELATIVE TOU, #1•A¢(X) R¢(Y	, INTERNAL, UPUATE, FIXEU		
121	DISPLAY	T(7.4):"(S	AVE DSKI.	.WYFILE)"			330 NEXT X :: CLOSE #1 :: GOTO 105					
130	DISPLAY /	T(9,2):"2.	INPUT DAT	[A"			340 CALL CLEAR :: FOR X=1 TO 5					
131	DISPLAY /	\T(10,4):"(OLD DSK1.	MYFILE)"		۰.	350 PRINT A\$(X): ::PRINT B\$(X): :: PRINT C\$(X) : : :					
140	DISPLAY /	T(12,2):"3	REVIEW R	ECORDS"			360 NEXT X					
150	DISPLAY /	T(14,2):"4	.CHANGE A	RECORD"		370 PRINT "RETURN TO MENU? (Y/N)"						
160	DISPLAY AT(16,2):"5.SAVE UPDATED FILE"							JBU CALL KEY(U,K,S):: IF SKI THEN JBU 200 IE K-00 THEN 105				
170	UISPLAY AT(18,2):"6.ENU SESSION" 3 DISPLAY AT(21.2)."INDUT YOUP CHOICE?"							40.0 FND				
181	ACCEPT AT	$(21,2) \cdot 1$ (21,21) V A I	IDATE (DI)	GIT)BEEP SI7	YF(1):7	410 CALL CLEAR						
190	ON Z GOTO	200,290.3	40,410.25	50,400		420 OPEN #1:"DSK1.HYFILE",RELATIVE 100,INTERNAL,UPDATE,FIXED						
200	CALL CLEAR ** PRINT "THIS PROGRAM CREATES 5 RECORDS": : :						430 INPUT "WHICH RECORD#(1-2-3-4-5)? ":X					
210	10 FOR X≈1 TO 5 ** INPUT "LAST NAME -FIRST ":A\$(X) 440 PRINT A\$(X): ::PRINT B\$(X): :: PRINT (20 INPUT "STREET ADDRESS ":B\$(X) 450 INPUT "LAST NAME - FIRST ":A\$(X)`							IT C\$(X) : : :				
220								ST ":A\$(X) `				
230	INPUT "CI	TY SSTATE	8 ZIP ":(C\$(X)			460 INPUT "S	SIREET ADDRESS	":B\$(X)			
24U 250	240 NEXEX 470 INPUT TELET DELATIVE ION INTERNAL HODATE ELVED 400 CLOSE #1COTO 100							.1P "¦U\$(X)				
270	FOR X=1	0 5 :: PRI	NT #1:A\$((X),8\$(X),C\$.nancjurukicji (χ)	1750	HUU CLUJE #1					

We have received a correct copy of last month's program named TRANSL, the program which makes full screen editing possible. [This comes direct from Fred Hawkins of the Lehigh 99'er Computer Group.]

TRANSL

1 CALL CLEAR :: OPEN #1:"DSK1.TESTR" :: OPEN #2:"DSK1.OUTR",VARIABLE 163
2 LINPUT #1:L\$:: S=POS(L\$," ",1):: ON ERROR 6 :: N=VAL(SEG\$(L\$,1,S))
3 ON ERROR 5 :: A=INT(N/256):: A\$=CHR\$(N-A*256):: PRINT L\$
4 PRINT #2:CHR\$(A);A\$;CHR\$(131);SEG\$(L\$,S+1,80); CHR\$(0):: GOTO 2
5 PRINT #2:CHR\$(255);CHR\$(255):: CLOSE #2 :: END
6 ON ERROR 5 :: RETURN 2

Here's a lifesaver. It's 2 A.M., you just got the last bug out of your new program, you sleepily put a new cassette in the recorder, type OLD CSI instead of SAVE CS1 and hit ENTER! But all is not lost - just type Shift E, hit ENTER, get an IO error message, and start over. This works in BASIC but not XBASIC unless you have the Memory Expansion. Did you ever absentmindedly type SAVE CSI instead of OLD CSI, push RECORD, and not realize it until you had erased a program from the cassette? Did you know that the cassette has two tabs on the back edge that can be removed to keep that from happening? Just slip the tip of a knife blade under them and pry up to snap them off. Each side of the cassette is protected by the tab on its back left edge; when the tab is removed, the recorder's RECORD button can't be pushed down. Later on, it you want to record over that side, just put a bit of tape over the hole. If you are using black a black and white TV for a monitor, you can get a sharper screen by starting your program with - 1 CALL SCREEN(15). [This is from Jim Peterson's TIPS FROM THE TIBERCUB. Ed]

1 A=A+8

2 GOSUB I

When you have finished typing in these two lines then type in RUN. After a few seconds the program will break and the following error message will appear on the screen: MEMORY FULL IN 1. This means that the process is half completed. All you need to do is to type in 14544-A:A and the computer will return two values. The top number represents the amount of memory used and the bottom number the amount of memory left. Remember that these lines should only be added whenever you wish to test the amount of memory used and the amount of memory remaining. [And should not be saved with the program. Ed.][This tip was from Ed York of the Cin-Day Users Group. Ed]

If you have been frustrated by the fact that your printer is capable of printing no more than the 80 characters per line which the 99/4A outputs, there is a very simple solution. When you OPEN the output to the printer, simply add the file-specification VARIABLE 132 (MAXIMUM). The default value for this file-specification is 80; which explains why you get an automatic carriage return and line feed after eighty characters, i.e.,

100 OPEN #1:"PIO", VARIABLE 132

[This is from M.U.N.C.H. TI Tip #1.]

The Smart Programmer Millers Graphics 1475 W. Cypress Ave. San Dimas, CA 91773 Published Monthly \$12.50 for one year

Microcompendium P.O. Box 1343 Round Rock, TX 78680 Published Monthly \$12 for one year Super 99 Monthly Bytemaster ComputerServices 171 Mustang St. Sulpher, LA 70663 Published Monthly \$12 for one year

The National Ninty-Niner 99ers Users Group Association 3535 So. H St. #93 Bakersfield, CA 93304 Published Monthly \$12 for one year

Mini-Mag 99 S.O.S. Publishers 21777 Ventura Blvd. #203 Woodland Hills, CA 91364 \$20 for one year (\$15 until Feb. 28, 1985 for initial subscriptions)

If any of our members have any of these publications, other members would certainly be interested in seeing what the issues are like. Please, bring them to the meetings so others may judge their worth.

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FIRST CLASS