

DECEMBER 1986 ISSUE NO.15

Editor

FOR THE RECORD

by Ed Bittner Recording Secretary

Well , if you weren't there you missed it! (Obvious excess verbage). Tuesday the 18th was the November meeting of the West Penn 99 er's. Elections were held and were moving into a new year with double the membership of last. Recently elected Scott Coleman re-enforced his platform commitment by proclaiming that, despite age, we are both organizationally and enthusiastically young!!(tell my arthritic keyboard fingers, Scott).

Since this report needs to be submitted yesterday, I will simply list the newly elected officers and what they are doing for the club.

President Scott Coleman- Attended TI Faire Chicago, Nov 1 1986. He has for us a video tape for the Nov and ...Dec.meetings. He also demoed the TI SINGS:program, if you haven't seen it come to the Dec meeting. It's neat.

V.Pres. Mickey Schmitt- Brought and distributed copies of our cassette and disk library catalog with more to come.

Corres. Sec. Gene Kelly- Continues to stay in the "upper room" but spent some time on contest rules. DON'T FORGET Dec 17 our Dec. meeting date is the last date for submission.

Rec-Sec Ed Bittner- Distributed what he considered worthy materials reproduced from newsletters from around the country. Also, available is the "borrow a newletter library. "

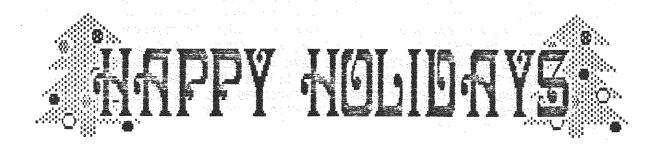
Librarian Clyde Colledge-continues his never ending battle with about 3000K programs (Heeeeeell]]]]]]ppppppp!!!!!).

Jan Trayers- Besides peddling her diskettes and Treasure memberships and keeping track of \$1/0\$, Jan does coffee tea and hot chocolate, not to mention munchies and pumpkin cake. Thanks Jan.!

John Willforth- John does nothing except make it all

happen. Enough said.

Merrily submitted. Scoops Bittner



TREASURER'S REPORT FOR NOVEMBER

RECEIVED		PAID	
11/4 \$ 60.00	DISKS 11	1/7 44.00	POSTAGE
10.00	MEMBERSHIP	72.00	12 DATA CASES
11/17 112.50	MEMBERSHIP 11	/17 26.00	FOR SOFTWARE
			(FOR LIBRARY)
24.00	LIBRARY		
4.00	POP SALE		
9.00	MICROPENDIUM		
107.50	DISKS & DATA		
•	CASES		
\$ 327.00	TOTAL	142.00	TOTAL

AS OF NOVEMBER THE BANK BALANCE IS \$390.48 AND THE CASH BALANCE (CASH ON HAND) 50.00

440.48 TOTAL ASSETS

I HAVE ORDERED 800 DISKS FOR THE CLUB. I KNOW I WAS TO ORDER 1000, BUT AFTER SENDING JOHN \$46.20 FOR POSTAGE WITH THIS REPORT, THAT WOULD TAKE OUR TOTAL ASSETS DOWN UNDER \$100, AND I DO NOT FEEL THAT IT WOULD BE A WISE MOVE. SINCE YOU ALL HAVE ELECTED (???) ME TREASURER, I WOULD HOPE THAT MEANS THAT YOU TRUST MY JUDGEMENT — SO I DECIDED THAT WE SHOULD KEEP A BALANCE OF \$100 (OR AS CLOSE AS POSSIBLE) IN OUR ACCOUNT. SINCE THIS WAS MY DECISION, I WILL ACCEPT THE FLAK GLADLY, KNOWING THAT WE CAN HANDLE MOST EMERGENCIES THAT WOULD COME ALONG. OH YES, THE MONEY THAT WAS DONATED TO THE "GOODIE FUND" IS NOT IN THE REPORT BECAUSE IT WILL KEPT COMPLETELY SEPARATE AND USED FOR JUST GOODIES, PERIOD. TO SATISFY THE CURIOUS, WE COLLECTED \$13 AND SOME ODD CENTS (PROBABLY FROM ED). THIS WILL INSURE SOME SORT OF MUNCHIES FOR THE NEXT MEETING. SEE YOU THERE!

JAN TRAYERS, TREASURER

MY BUTTONS ARE POPPING, AND I KNOW THAT SOME OF YOU WILL SAY THAT HAS TO DO WITH MY WEIGHT, BUT SERIOUSLY, HERE WE ARE IN DECEMBER OF THE FIRST FULL YEAR OF THIS CLUB'S EXISTANCE, AND WE HAVE GROWN FROM ABOUT 23 MEMBERS IN JANUARY, TO OVER 60 AS I WRITE THIS. NUMBERS, ARE NOT THE IMPORTANT THING HERE EITHER, BUT I BELEIVE THAT WE NOW KNOW THAT "WE WILL" SUCCEED!

THE FIRST MONTHS OF EFFORT BACK IN SEPT. THROUGH DEC. 1985, WERE FILLED WITH UNCERTAINTIES, BUT THE RIGHT COMBINATION OF PEOPLE, WITH THE RIGHT MOTIVATIONS, CAME TOGETHER, AND THE "WEST PENN 99'ERS" WAS BORN.

WE NOW MEET "EVERY "THIRD TUESDAY AT THE PRESBYTERIAN CHURCH OF THE COVENANT, AT 4TH AND OAK STREETS, IN DOWNTOWN IRWIN, PENNSYLVANIA, AT 7:00 PM. IF ANYONE COMES UPON THIS NEWSLETTER, AND WOULD LIKE TO ATTEND, YOU ARE WELCOME TO COME AND VISIT WITH US. WE HAVE BOTH ASSOCIATE AND FAMILY TYPES OF MEMBERSHIP. THE FAMILY MEMBERSHIP IS \$15. A YEAR, FROM JAN. 1, OF ANY ONE YEAR, TO DEC. 31, OF THAT YEAR, AND INCLUDES ALL BENIFITS, WHILE THE ASSOCIATE MEMBERSHIP IS FOR THE SAME DURATION, YOU ARE ENTITLED TO RECEIVE ONLY THE NEWSLETTER, AND THE YEARLY MEMBERSHIP IS \$10.

FOR FURTHER INFORMATION CONTACT: SCOTT COLEMAN (412) 271-6283

GETTING THE MOST FROM YOUR CASSETTE SYSTEM
BY MICKEY SCHMITT
NUMBER 8

HIGH-SPEED CASSETTE LOADER CLYDE COLLEDGE'S: PART II

AS PROMISED... THIS MONTH I AM CONTINUING WITH THE TOPIC OF CLYDE COLLEDGE'S: HIGH-SPEED CASSETTE LOADER. FOR THOSE OF YOU WHO ARE NOT YET FAMILIAR WITH THIS PARTICULAR PROGRAM... LET ME SAY ONCE AGAIN... IF YOU ARE STILL USING A CASSETTE SYSTEM... THIS PROGRAM IS A MUST! IT IS BY FAR ONE OF THE MOST IMPRESSIVE CASSETTE UTILITIES AVAILABLE TO DATE! WHILE LOADING CLYDE'S PROGRAM IS NOT A DIFFICULT PROCESS IN ITSELF... UNDERSTANDING THE PROCEDURE FOR THE VERY FIRST TIME CAN BE A LITTLE CONFUSING. WITH THAT THOUGHT IN MIND I HAVE TRIED TO KEEP THE "LOAD" INSTRICTIONS AS SIMPLE AS POSSIBLE INSTRUCTIONS AS SIMPLE AS POSSIBLE.

INSTRUCTIONS FOR LOADING CLYDE'S LOADER

1. INSERT THE EXTENDED BASIC MODULE INTO THE COMPUTER

2. SELECT OPTION 2 - EXTENDED BASIC

- 2. SELECT OPTION 2 EXTENDED BASIC
 3. TYPE: OLD CS1
 4. THEN: PRESS ENTER
 5. FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN:
 5.1 * REWIND CASSETTE TAPE CS1
 THEN PRESS ENTER

 - 5.2 * PRESS CASSETTE PLAY THEN PRESS ENTER
 - COMPUTER DISPLAYS MESSAGE:
 - * READING
 - COMPUTER DISPLAYS MESSAGE:
 - * DATA OK 5.5 * PRESS CASSETTE STOP
- THEN PRESS ENTER

 6. WAIT FOR THE FLASHING CURSOR TO APPEAR IN THE LOWER LEFT-HAND CORNER

 OF YOUR MONITOR OR TV SCREEN
- 7. TYPE: RUN 8. THEN: PRESS ENTER
- THE COMPUTER WILL THEN RETURN BACK TO THE EXTENDED BASIC SCREEN WITH THE MESSAGE: * READY * AND THE CURSOR WILL ONCE AGAIN BE FLASHING IN THE LOWER LEFT-HAND CORNER OF YOUR MONITOR OR TV SCREEN CLYDE COLLEDGE'S: HIGH-SPEED CASSETTE LOADER IS NOW LOADED

INSTRUCTIONS FOR USING CLYDE'S LOADER

- 1. AFTER YOU HAVE LOADED CLYDE'S LOADER TYPE: CALL LINK("OLD")
 2. THEN: PRESS ENTER
- 3. YOU CAN NOW LOAD IN ANY PROGRAM WHICH YOU HAVE ON CASSETTE IN HALF THE AMOUNT OF TIME THAT IT WOULD HAVE TAKEN YOU NORMALLY!
 4. JUST FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN: THAT'S ALL THERE IS TO IT!

CLYDE'S LOADER HAS TWO VERY SPECIAL FEATURES THAT SHOULD NOT GO WITHOUT MENTION. FIRST OF ALL.. THE HIGH-SPEED CASSETTE ROUTINES ARE EXACTLY THE SAME AS TEXAS INSTRUMENTS CASSETTE ROUTINES - MAKING THIS PROGRAM VERY USER FRIENDLY. SECONDLY... ONCE THE LOAD PROGRAM HAS BEEN PLACED IN THE 32K MEMORY... IT WILL STAY IN MEMORY... EVEN IF YOU ACCIDENTLY HIT "FUNCTION QUIT". JUST RETYPE "CALL LINK("ON")" AND YOU ARE READY TO GO. YOU CAN'T LOSE THE "LOAD PROGRAM" UNLESS YOU TURN OFF THE CONSOLE!

IF YOU WISH TO PURCHASE THIS PROGRAM PLEASE SEND \$5.00 TO:

WEST PENN 99'ERS C/O JOHN F. WILLFORTH R.D. #1 BOX 73A JEANNETTE, PA. 15644

ATTN: WEST FENN LIBRARIAN

ED. NOTE:

THIS PROGRAM IS THE ENHANCED VERSION OF THE ONE THAT SOME OF YOU U.G.'S HAVE RECEIVED FROME ME TO SAMPLE. CLYDE HAS REFINED THIS PROGRAM EVEN MORE THAN THE COPY YOU HAVE. IF YOU WANT THE " BEST " CASSETTE LOADER PROGRAM IN EXISTANCE, SEND FOR THIS UNIQUE UTILITY.

A local electronics supply house had a sale on dot matrix printers so I grabbed one for "the kids'" TI(or so I told the salesman). In reality I fully intended to keep it for myself, but what self respecting adult would want a slow(salesmans word), not nearly letter quality(him again), cheap(my word) printer? I did. The Smith-Corona D100 can do more tricks than a monkey on a stick, prints at 120cps, has built in tractor feed and friction feed. The sale price was \$188. I thought I would miss the near letter quality feature, but the proportional space feature more than makes up for it and runs full tilt to boot(no double typing and much faster than 20-30 cps).

The interface with the parallel port turned out to be almost easy. The pinout suggested by Jack Mathis(July 86 Newsletter) was correct in most details but I didn't have that to go by. The D100 Busy(pin 11) works best if you pull it up to +5V with a jumper from pin 10 to pin 15 on the PIO port of the RS232 card or the RS232 connector. The D100 manual is a gem. It gives you all of the dope you need to use the thing. The TI manual is the opposite. To give you a head start I have tried many of the features and give examples below for use of the D100 with TI-WRITER.

The Printer is PIO

ESC 4 selects italics. the keypress sequence is CTRL(red dot)U FCTN(black dot)R CTRL U, 4(that is number four). In the following I will show CTRL as ^ and FCTN as *.

ESC 5 turns off the italics. The keypress sequence is ^U*R^U5. ESC W1 selects enlarged letters. ESC W0 turns off the large letters(need I repeat (^U*R^UW0)? ESC E selects emphasized mode, while ESC F turns it off. This mode can be used with certain other modes for such things as

ESC M selects elite type(12 cpi). I will leave the key sequence to your imagination(see the above examples if your memory erased in the last 100 ms).

ESC P cancels the elite type by setting the normal mode (10cpi).

This is my favorite mode, PROPORTIONAL MODE. It is nearer letter quality than most NLQ modes I have seen on Cheap Dot Matrix Printers. It is selected by ESC p1 that is a lower case p and a numeral one.

ESC p0 that is a lower case p and a zero will turn it off
Underlined text is selected by ESC -1, turned off by ESC -0
Condensed mode(16.7cpi) and elongated mode can be set
and reset by single control characters. They are entered by
keystroke sequences ^UO^U, ^UR^U, ^UN^U, and ^UT^U (go ahead and
try them out).

The printer also gives you complete control over the line spacing through five escape sequences. ESC 0 is the 1/8 inch space, ESC 1 is the 7/72 inch space, ESC 2 is the default 1/6 inch space. The two remaining codes let you set n/144 inch(ESC 3,n), and n/72 inch (ESC A,n) linespaces. Both require a bit of thinking to get them right. Remember, each is a three character code. The first is easy, remember old ^U*R^U), the next is on the keyboard(3 or A). the third is scattered all over the place. What you need to do is get the TI-WRITER to generate a code with a value of n.

If n is less than 32 look on page 146 of the quick reference guide in the TI-WRITER manual. IF n is between 31 and 127 look on page 145. The codes you might want above 127 for the n/144 inch mode are not available within TI-WRITER. They would be available within BASIC by a call to CHR\$(n).

The printer will respond to a large variety of form control codes. ESC j,n feeds paper n/144 inch, ESC N,n skips n lines at the bottom of the page, ESC j,n feed in reverse n/144 inch(don't do it if tractor feed or across perfs) ESC B,n,n,n,n,NULL sets vertical tabs, ESC C,n sets the form length in number of lines, ESC D,n,n,n,NULL set horizontal tabs, ESC l,n sets left margin.

As you can see, this is a full function printer. I will not try to go into the graphics capabilities except to say that three densities are offered, 60, 72, and 120 dpi and full pin mapping is available.

Rich (DOC) Sprecher

notes:

TO LOAD THE CORECOMP DISK MANAGER FROM WITHIN A PROGRAM,

> 100 CALL INIT

>110 DELETE "LD-CMDS"

>120 CALL LINK("MGR")

TO OREDER A REPLACEMENT T.I. WRITER MANUAL, CALL 1-800-TI-CARES. YOU CAN PLACE AN ORDER FOR ONE AND THEY WILL SEND YOU ONE FOR "NUTHIN", + \$3.00 TO COVER SHIPPING AND HANDLING.

TO GET A REPLACEMENT "GROM EXT. ASSEMBLY", ORDER PART # 1049693-001, AND BE ADVISED THAT THE UNIT WILL COST \$5.86 + \$2.50 S/H.

TO STOP AN ACCIDENTALLY STARTED " OLD CS1 ", (BEFORE THE CASSETTE STARTS TO ACTUALLY READ THE NEW FILE FROM TAPE), PRESS "FCTN" AND "E" KEYS, AND WHILE HOLDING THEM DOWN, PRESS "ENTER".

TO MAKE YOUR SPEECH SYNTHESIZER SPEAK A LISTING OF YOUR PROGRAM, FIRST SAVE THE PROGRAM TO SOME DEVICE, IF THE PROGRAM IS EXTENDED BASIC THIS IS REQUIRED, THEN USING THE "BASIC" OPTION ON THE TE-2, LOAD THE PROGRAM BACK INTO YOUR COMPUTER, (DON'T RUN IT), IN THE COMMAND MODE, TYPE: LIST"SPEECH".

I WILL TRY TO INCLUDE MORE HELPFUL HINTS NEXT MONTH, AND IF ANY OF YOU WOULD LIKE TO CONTRIBUTE SOMETHING THAT YOU HAVE LEARNED ABOUT YOUR T.I.99, FEEL FREE TO SEND IT TO ME.

MEETING INFORMATION:

AT THE UNITED PRESBYTERIAN CHURCH OF THE COVENANT

4TH AND OAK STREETS

IRWIN.

TIME 7:00 PM

DATE DECEMBER 16, 1986

THE LIBRARY MAY BE OPEN AT 6:45 PM, DEPENDING ON VARIABLES THAT MAY AFFECT THE PROGRAM FLOW, WHICH ARE INFLUENCED BY WEATHER AND TRAFFIC.

BY THE WAY THE ARTICLE ON PAGES 4 AND 5 WAS CONTRIBUTED BY ONE OF OUR NEWEST MEMBERS, RICH SPRECHER. I FOUND THE ARTICLE TO BE INFORMATIVE, INTERESTING, AND WELL WRITTEN.

- 5 -

PRINTER COMMANDS

(energizes or turns on)

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THE ABOVE ARTICLE COULD NOT HAVE COME AT A BETTER TIME. I HAVE RECEIVED MANY QUERIES ON HOW TO CONTROL A PARTICULAR PRINTER, WELL WHAT DO I KNOW ABOUT EVERY PRINTER UNDER THE SUN, SO WHEN THIS ARTICLE ARRIVED IN THE "BRAZOS VALLEY 99'ERS", I WAS ELATED! SO YOU HAVE ALONG WITH RICH SPRECHER'S ARTICLE QUITE A BIT OF NEW PRINTER INFO TO CHEW ON.

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100 | BEREE MS/LABELS REPER By: Martin A. Smoley REFER For EPSON Printer REEBE
110
                     **** NorthCoast 99er 5 U6 ****
120 OPEN #9: "PID" ! OPEN PRINTER (Could be RS232)
                                                 *** Extended Basic ***
130 PRINT #9:CHR#(27):"0":CHR#(27):"8":!
        "O"=STOP skip over perf."8"=STOP paper end detector
140 CALL CLEAR :: CALL SCREEN(13)
150 PRINT "
             ** MS/LABELS ***: : "
                                          PRINTS": :"
                                                        3-1/2in BY 15/16in%:
          LABELS": : :
160 PRINT " Enter Data at Prompts!": : " You will have 4 line per": : " label. Li (1) Load the program (Don't run it yet).
ne #1 = 15 Cols. :: : "
                           Line #2 = 28 Cols.*: :
170 PRINT " Lines 03 and 04 = 49 Cols.": : :
180 60SUB 190 :: 60SUB 210 :: 60SUB 220 :: 60SUB 230 :: 60TO 240
190 PRINT :: PRINT "
                               . <u>AAAAAAAAAAAAAA</u>
200 INPUT "ENTER LINE 1 ": As :: RETURN
220 PRINT :: PRINT " ENTER LINE #3" :: INPUT "0^^^^^^^^^^^^^^^^
AAAAAAAAAAAAAA
                     ":C$ :: RETURN
230 PRINT :: PRINT * ENTER LINE #4* :: INPUT *0^^^^^^^^^^^^^^^^^^^^^^
AAAAAAAAAAAA
                  ":D$ :: RETURN
240 PRINT :: INPUT "HOW MANY COPYS ":X
250 CALL CLEAR :: PRINT " Hold >0( to Quit Printing": : : : :
260 FOR I=1 TO X ! ******* PRINTOUT LOOP ******
270 ! PRINT #9: CHR$(27); 6; !
                                       START DOUBLE STRIKE OPTIONAL
280 PRINT #9:CHR#(27);"E";!
                                        START EMPHASIZED
290 ! PRINT #9:CHR#(27); "M":!
                                     Start Elite-size(makes #1=18 characters)
300 PRINT #9: CHR$ (27): "W": CHR$ (1): 1
                                         START ENLARGED
310 PRINT #9:As
320 PRINT #9: CHR$ (27); "W*: CHR$ (0): ! ...
                                         STOP ENLARGED
"330 | PFINT #9:CHR$(27):"P":! See Stop Elite-size(Needed if 290 is used)
340 PRINT #9: " "; B$; CHR$127); "F" 1 STOP EMPHASIZED
350 PRINT #9:CHR$(27);CHR$(15);" ";C$;:;" ";D$;CHR$(18);CHR$(27);"H";!
CHR$(15)=START CONDENSED+CHR$(18)=STOP, "H"=STOP DOUBLE STRK.
360 FOR K=1 TO 3 :: PRINT #9 :: NEXT K
370 CALL KEY (O.K.S): IF K=81 DR K=113 THEN 390
390 CALL CLEAR :: CALL SCREEN(6)!
                                    ****** Beginning of TASK SCREEN *****
400 PRINT " Enter M for More labels": :"
                                            N for New labels": :"
                                                                       L to
Change a line": :
410 PRINT
                 @ to Quit the program*: :
420 INPUT " Enter your chioce: ":DO$
430 IF DOX="M" OR DOX="@" THEN CALL CLEAR :: GOTO 240
440 IF DOS="N" OR DOS="n" THEN 140
450 IF DOS="L" OR DOS="1" THEN 480
460 IF DO$="Q" OR DO$="Q" THEN 520
470 GDTD 420
                             ****** Beginning of LINE CHANGE SCREEN ******
400 CALL CLEAR !
                                            changed 1 to 4 *:L :: IF L(1 OR
490 INPUT * Enter line number to be
L)4 THEN 490
500 DN L 6DSUB 190.210.220.230
510 GOTO 390
520 PRINT #9:CHR$(27): ** ! Initialize Printer = Wipe out any leftover commands
530 CLOSE #9
540 ! *** MS/LABELS ***
```

550 END

MS/LABELS-DOC

"MS/LABELS" started out to be a small, simple program to print 3-1/2 in X 15/16 in. labels for return addresses and disk labels, but it evolved into the program you see at the left.

THE USER INSTRUCTIONS FOLLOW

- (2) Align your labels in the printer then turn the printer on.
- (3) Now RUW the program.
- (4) Enter the data as prospted by the program. There is one circueflex (^) for each space on the entry line. Do not use any commas.
- (5) After you have entered (4) lines the program will ask how many labels you want. want to see one enter 1. After the label is printed you will see a screen which will let you print (M) ore if you like what you see.
- (6) If you don't like them enter L to change a line and then the line number you would like changed. You can repeat the L for as many lines as you need, or you can use A for more and print one at any time until you like the label you have. At this point you use More, then type in the quantity you want and the printer will start running them off. If you change your mind, HOLD DOC until the printer stops and you will return to the task screen.
- (7) At the task screen you can also enter an (N) if you want a completely New label or (Q)uit to exit the program.
- If your ribbon is not dark enough you can edit the program and delete the (!) and the space from the beginning of line 270 This will give you Double Strike throughout. Also! Doing the same thing to line Nos. 290 and 330 will give you 18 characters in line #1 if your printer is capable of Elite Print (You will have to remember that you have (3) characters past the last (") in line one.)

If you do not like to type, my programs are in the NorthCoast 99er's Library. Good Luck! Marty

MS/LABELS

Extended Basic T199/4A This label was made by the program listed above. in.@1=ENLARGED #2=Std. size #3=Condensed

SECTOR SAVE 275 PRINT :" 1. FRINT RANGE OF SECTORS" by John E. Miller 280 PRINT :" 2. CHANGE SECTOR 545 PRINT "ASC FOR BYTE" | RANGEL 100 CALL CLEAR 0-1;"="; 105 INFUT "PRINT INSTRUCTIONS?" 285 PRINT 4" 3. END" 550 INPUT ASCII 290 PRINT ANST. 555 A2\$=CHR*(ASCII) 295 INFUT "YOUR CHOICE?": ANS 110 CALL CLEAR 560 FOR A=RANGELD+1 TO FANGEHI 115 IF ANE = "Y" THEN 130 300 IF ANS=1 THEN 320 565 PRINT "ASC FOR BYTE": A-11" 120 IF ANS = "YES" THEN 130 305 IF AMS=2 THEN 390 310 IF ANS=3 THEN 460 125 GOTO 235 570 INFUT ASCII 130 FRINT "This program display 315 GOTO 265 575 A2*=A2*&CHR*(ASCII) s sectorbytes in ASCII. It can 320 REMPRINTS A RANGE OF 580 NEXT A SECTORS....... be used (1) to p 585 A1 = SEG * (A*, 1, RANGELO-1) rint a number" 590 A3\$=SEG\$ (A\$, RANGEHI+1, 128-R 135 FRINT "of consecutive secto ANGEHI) rs or (2) to analyze and then 325 INPUT "SECTOR FANGE (2 NUMBE 575 A*=A1*&A2*&A3\$ RS. O TO 359):":SX.SY modify the by 600 IF RANGEPHI=0 THEN 670 330 IF SX<=SY THEN 350 tes one sector" 605 REM INPUT ASCII CHANGE 335 S1=SX 140 FRINT "at a time. It allow S FOR LAST 128 BYTES OF SECTOF. 340 SX#SY s vou tomake changes to any or all of the 256 by 345 SY=S1 350 FOR SECTOR=SX TO SY tes by entering" 610 FANGELD=129 145 FRINT "the byte location (t 355 S=SECTOR 615 FRINT "ASC FOR BYTE": FAMEL wo numbers between 0 and 2 360 FRINT #1 0-1;"="1 365 FRINT #1: "SECTOR =":S 55. separated by 620 INFUT ASCII 370 CALL LINK ("READ", D, S, As, B\$) a comma). The" 625 B2%=CHF*(ASCII) 150 FRINT "The program will est 375 GOSUB 760 630 FOR A=RANGELO+1 TO RANGERHI 380 NEXT SECTOR vou forthe correct ASCII for e 635 FFINT "ASC FOR BYTE": A-1:"= 395 GOTO 265 ach byte location 390 REMREVIEW/CHANGE SECT and. after" 640 INFUT ASCII 155 FRINT "printing the correct OR DATA...... 645 B2#=B2#%CHR#(ASCII) ed sector to verify accura 650 NEXT A cy. it will trans 655 B1#=SEG# (B#, 1, RANGELO-129) 395 INFUT "SECTOR FOR FEVIEW= " fer the data to disk." 660 B3#=BEG# (B#, RANGERHI-127, 25 ុះទី 160 PFINT 6-FANGEPHI) 400 FFINT #1 165 PRINT 665 B\$##B1\$\$\$ 170 INPUT "FRESS ANY KEY TO CON 405 PRINT #1: "SECTOR =":S 670 INFUT "ANY CORRECTIONS?" : A 410 CALL LINK ("FEAD", D.S. A\$, B\$) TINUE": CONT\$ NCS 175 CALL CLEAR 415 GOSUB 760 180 PRINT "Because the screen c 420 FEM DECIDE IF CHANGES 675 IF ANS = "Y" THEN 475 680 IF ANS = "YES" THEN 475 annot display all the bytes o DESIRED OR A DIFFERENT SECTOR N 685 FRINT EEDED....... f a sector at one 690 FRINT time, all" 695 FRINT 425 INPUT "ANY CHANGES?" ANS 185 PRINT "information is print 700 FRINT "HEFE'S A FRINT-DUT D 430 IF ANS\$="Y" THEN 475 ed. Thedefault is FIO but this F WHAT IS GOING TO THE DISK SE 435 IF ANS = "YES" THEN 475 can be changed in CTOR." 440 INFUT "ANOTHER SECTOR?" ANS line 235." 705 FRINT "LAST CHANCE TO MAKE 190 FRINT A " 445 IF ANSS="Y" THEN 370 195 FRINT "The core of the prog 710 FRINT "CORRECTION." ram is the DIS/FIX 80 file RAW 450 IF ANS = "YES" THEN 370 715 GDSUB 760 455 GOTO 270 /O which is assu 720 PRINT 460 REMEND PROGRAM..... med to be on" 725 PRINT 200 FPINT "the disk in Drive 1. 730 INFUT "ANY CHANGES DESIFED? That assumption can be chang " & ANS \$ ed inline 250. RA 735 IF ANS = "Y" THEN 475 465 CLOSE #1 W/O was written" 740 IF ANS = "YES" THEN 475 205 PRINT "by Barry Traver and 470 END 745 REM WRITE COFFECTED BY is available on HORIZON-25 475 REMDESCRIBE BYTE LOCA TE DATA TO PROFER SECTOR TIONS FOR CHANGES...... ********* 210 PPINT 215 PRINT 750 CALL LINK("WRITE", D. S. At. Pt 480 PANGEBHI=0 220 PRINT 485 INPUT "RANGE FOR CHANGES (2 225 FRINT 755 GOTO 440 NUMBERS, O TO 255): ": RANGELO, FA 230 INPUT "PRESS ANY KEY TO CON 760 REM SUBFOUTINE FOR FRI TINUE":CONTS 235 OPEN #1:"FIO" NGEHI NTING SECTOR IN ASCII...... 490 IF PANGELD := PANGEHI THEN 51 240 REMLOCATES SECTOR INF 475 FIRRANGELO 745 FOR A=1 TO 128 DPMATION...... 500 RANGELD=RANGEHI 770 Ms=SEGs(As, A. 1) 505 FANGEHIER1 775 FFINT #1:ASC(Ms): 510 RANGELO=RANGELO+1 780 NEXT A 245 CALL INIT 515 PANGEHI = RANGEHI+1 250 CALL LOAD ("DSK1.RAW/O") 785 FOR A=1 TO 128 520 IF RANGEHI<129 THEN 545 790 Ms=SEGs(Bs, A. 1) 255 CALL CLEAR 525 RANGEBHI-RANGEHI 795 FFINT #1: ASC (Mt); 240 INPUT "DISK DRIVE- ":D

535 IF RANGELO > 128 THEN 615

540 REM INFUT ASCII CHANGE S FOR FIRST 128 BYTES OF SECTOR

BOO NEXT A

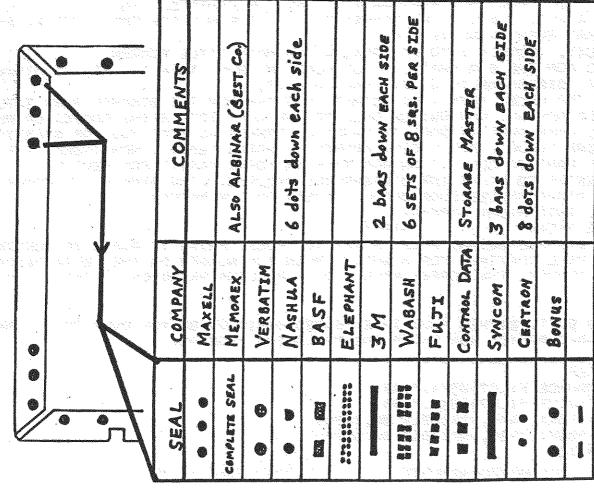
805 PRINT #1 810 PRINT #1 815 PETUPN

530 RANGEHI=128

265 CALL CLEAR

270 FRINT : "MENU: "

IDENTIFICATION OF 54" DISKS



VANCOUVER, WA. FOR THIS CHART PRINTED IN THEIR NOV. ISSUE HAVE PRODUCED THAT DISKETTE YOU NOW HAVE IN YOUR DISKETTE DRIVE. I WOULD LIKE TO THANK THE N.O.V.A. USERS GROUP OF THE NAME OF THE MANUFACTURER WHO MAY THIS CHART SHOWS

DMICOCO REVISION REDURD

MODIFIED BY RALPH ROMANS:

- JER 3.0 FIXES TO VER 2.4:

 INCORRECT FILE COUNT WHEN GOING FROM 'M' TO 'C'

 FILE CORY WOULD GIVE YOU A BAD CORY IF THE FILE BEING COPIED
 MAS STORED ON THE MASTER DISK AS A NON CONTINOUS FILE AND THE
 SIZE OF THE FIRST SEGMENT WAS EXACTLY 39 SECTORS WITH
 ADDITIONAL SECTERS IN ANOTHER SEGMENT ON THE DISK.

 VER 3.1 FIXES TO VER 3.0:

 FILE CORY WOULD GIVE YOU A BAD COPY IF THE MASTER FILE
 WAS A FRACTERED FILE OF EXACTLY 39 SECTORS AND THE SAME FILE
- - COPY DISK. FILE NAME IN VARIOUS MODES,
- D MESS IT UP. UNABLE TO DISPLAY SOME DIS/VAR 80 FILES THAT ARE FULL OF CONTROL CHARACTERS, COMPUTER HANGS UP! UNFIXED BUGS IN VER 3.1

- VER 3.3-CHANGED DEFAULTS ON SWEEP AND DISK INITIALIZATION

 DISK INITIALIZATION WORKS FOR MYARC AND CORCOM

 READ/WRITE EFRORS GETS CLEARED AFTER 1ST USE ON DISK COPY

 FILE 'MGRI' MAY NOW BE CALLED ANY WANE AND ALL FEATURES OF DM1000

 WILL WORK.!! THIS WILL ONLY WORK WITH TI CONTROLLER

 AND CORCOM CONTROLLER

 THE LOADER FOR MYARC CONTROLLER IS CALLED LOADMY

 DURING DISK INITIALIZATION MENU, YOU CAN USE THE UP ARROW TO

 60 BACK TO PREVIOUS QUESTION.
- ABLE TO DELETE/MOVE/COPY 1 SECTOR FILES
 ADDED 'UP ARROW ACTIVE' NOTICE WHEN UP ARROW WILL
 TAKE YOU BACK TO PREVIOUS QUESTION. VER 3.4-
- FILES PRESSING ABLE TO TYPE/FRINT DISPLAY VAR 80/FIXED 80 FILES WHILE THE FILE LISTING IS ON THE SCREEN BY FRESSIN A 'T' FOR TYPE (DISPLAY) FILE TO SCREEN OR 'P' FOR FRINT TO LIST DEVICE WITH OPTIONAL CONTROL CODES SENT TO PRINTER FIRST.

 THE 'P' AND 'T' FOR PRINT OR TYPE ARE ONLY VALID VER 3.5-
 - SITEM 'EOF' noticed added in lower left corner of IN THE LEFT MOST FIELD.
- DISPLAY VAR 80/FIXED 80 MENU REMOVED

THE LATEST VERSION OF DISK MANAGER 1000, IS 3.5, AND IT IS THE ABOVE IS A LISTING OF THE VERSION THE ADDITIONS, IMPROVEMENTS, AND THE 3.x HISTORY SHOWING TRUELY REMARKABLE.

THIS LATEST VERSION HAS TWO SIGNIFICANT ENHANCEMENTS, WHICH INVOLVE THE DISPLAYING AND PRINTING OF DV/80 FILES DIRECTLY SITTING THERE A "T" FOR TYPE (TO DISPLAY), OR A "P" FOR THE TO THE PRINTER FROM THE [CMD] PROMPT AS THE CURSER IS ENHANCEMENTS.

PRINTER MAY BE TYPED INSTEAD OF THE NORMAL Copy, Move, OR

COPYING A CARTRIDGE TO DISK

The following is for non-modem users and was released to the Spirit of 99 through the courtesy of Bud Wright, SysOp of T.A.B.B.B.

TO DO THIS, MAKE SURE YOU HAVE THE T.I. DISASSEMBLER, A CARTRIDGE WITH ROM CHIPS ONLY (YOU CAN FIND OUT BY OPENING IT UP, THEN LOOK IF IT HAS LARGE CHIPS ONLY. IF IT DOES, IT IS ROM ONLY. IF IT HAS ANY SMALL CHIPS, TOO BAD, YOU HAVE GROM WHICH HASN'T WORKED FOR ME YET SINCE IT IS IN GPL.

- (1) COVER PIN 1 OF THE CARTRIDGE BEING COPIED (IF YOU HAVE A WIDGIT, THIS IS NOT NECESSARY)
- (2) IF YOU HAVE A WIDGIT, PLUG E/A IN SLOT 1, THE CARTRIDGE YOU WANT COPIED IN IN SLOT 2, TI EXTENDED BASIC IN SLOT 3.
- (3) MAKE SURE YOU HAVE A TOTALLY BLANK DISK TO COPY THE CARTRIDGE ON.
- (4) SWITCH OVER TO THE E/A CARTRIDGE (EITHER WITH THE WIDGIT OR JUST INSERT IT), INSERT E/A DISKETTE 'A', PRESS 2 (3 ON 99/4) TO SELECT LOAD AND RUN, FOR FILENAME TYPE 'DSK1. DEBUG' AND PRESS ENTER. WHEN IT IS LOADED, PRESS ENTER AGAIN, AND TYPE 'DEBUG' FOR PROGRAM NAME.
- (5) WHEN THE DEBUGGER PROMPT APPEARS, SWITCH OVER TO SLOT 2(FOR THE CARTRIDGE BEING COPIED) OR INSERT THE CARTRIDGE BEING COPIED. MAKE SURE THE COMPUTER DOESN'T RESET. IF IT DOES, MAKE SURE PIN 1 IS DEACTIVATED AND START OVER. (WITH THE WIDGIT, DON'T PRESS RESET). NOW MAKE SURE THE DEBUGGER IS STILL OPERATIVE (PRESS ENTER A COUPLE OF TIMES).
- (6) NOW TYPE IN 'M6000 8000' AND PRESS ENTER. THE SCREEN SHOULD START SCROLLING UPWARD AND DISPLAY DIFFERENT KINDS OF NUMBERS. IF ALL YOU GET IS '6000=00 00 00 00 00 00 00 00 00 00 x******* ,ETC. DR ZERDS ONLY, MAKE SURE YOU HAVE A ROM CARTRIDGE ONLY, AND THAT YOU ARE SWITCHED OVER TO THE CARTRIDGE BEING COPIED(OR IS INSERTED). DTHERWISE, YOU SHOULD BE GETTING ALL KINDS OF NUMBERS. YOU WILL PROBABLY SEE THE TITLE OF THE CARTRIDGE IN THE FEW FIRST LINE AT THE RIGHT. NOW LET THE SCREEN DISPLAY THE NUMBERS FOR A WHILE, AND MAKE SURE THAT EVERYTHING IS O.K.
- (7) PRESS QUIT, (FCTN =) TO GO BACK TO THE MAIN TITLE SCREEN.
- (8) SELECT 2 FOR THE E/A AGAIN, 3 FOR LOAD AND RUN, THEN INSERT THE DISKETTE WITH THE T.I. DISASSEMBLER ON IT, AND LOAD IT.
- (9) PRESS ENTER ONCE, THEN TYPE 'START' & ENTER.NOW THE DISASSEMBLER TITLE SCREEN SHOULD APPEAR. NOW SWITCH OVER TO THE CARTRIDGE BEING COPIED OR PLUG IT IN.AGAIN, MAKE SURE IT DOESN'T RESET OR OTHERWISE STOP YOU.FOR STARTING ADDRESS, PRESS '6000'. FOR ENDING ADDRESS, PRESS '6500'. NOW INSERT THE DISKETTE YOU WANT TO COPY IT ON AND TYPE IN 'DSK1.CART1' FOR DEVICE NAME.PRESS ENTER TO START THE DISASSEMBLY PROCESS. THE DISK DRIVE COMES ON, ETC. THE DISASSEMBLED CODE SHOULD APPEAR ON THE SCREEN.

'61FC JNE >6F64 >16F4'

TO PAUSE DISASSEMBLING, PRESS A KEY TO PAUSE. PRESS IT AGAIN TO CONTINUE. THE PROCESS WILL CONTINUE FOR A WHILE. WHEN THE NUMBER ON THE LEFT='>6500' OR AROUND THAT NUMBER, THE SCREEN WILL STOP SCROLLING. PRESS ENTER TWICE FOR E/A MENU.

NOW PRESS QUIT. EITHER PLUG IN EXTENDED BASIC OR SWITCH OVER TO IT, AND SELECT EXTENDED BASIC. NOW ENTER THE FOLLOWING PROGRAM:

¹⁰⁰ CALL CLEAR

¹¹⁰ INPUT "SOURCE FILE?>DSK1.":A6

¹²⁰ INPUT "OBJECT FILE?>DSK1.":B\$

¹³⁰ OPEN #1: "DSK1."&A#, VARIABLE 80, INPUT

¹⁴⁰ OPEN #2: "DSK1. "&B\$, VARIABLE 80, OUTPUT

¹⁵⁰ LINPUT #11C#

160 D==SEG*(C*,6,27) 170 PRINT #2:D* 180 IF EOF(1)THEN 200 190 60TO 150 200 PRINT "FINISHED." 210 CLOSE #1 :: CLOSE #2 0 DELETE "DSK1."&A*

NOTICE THIS CAN NOT BE DONE IN BASIC, SINCE THE 'LINPUT' STATEMENT IS USED.

(11) RUN THIS PROGRAM. FOR SOURCE FILE, INPUT 'CART1'. FOR OBJECT FILE, INPUT 'CART11'. NOW THE DISK DRIVE WILL COME ON, AND IT WILL TAKE A WHILE BEFORE IT IS FINISHED. WHEN IT IS FINISHED, IT WILL SAY SO. IF YOU RECEIVE AN ERROR, CHECK TO SEE IF YOU HAVE THE RIGHT DISK INSERTED AND THAT THE SOURCE AND OBJECT FILES ARE VALID. IF THAT ISN'T IT, CHECK TO SEE IF YOU HAVE ENOUGH DISK SPACE AVAILABLE. IF YOU DON'T, CHANGE LINE 140 FROM 'DSK1.' TO 'DSK2.' IF YOU HAVE A SECOND DRIVE. OTHER WISE, SORRY! YOU MIGHT WANT TO CHANGE LINE 160 SO THAT IT SAVES VARIABLE LENGTH LINES, THUS SHORTENING THE OUTPUT. WHEN DONE, PRESS QUIT AND INSERT THE E/A MODULE OR SWITCH OVER USING THE WIDGIT. (12) INSERT THE E/A DISKETTE 'A' AND SELECT 1 FOR EDITOR. PRESS 1 FOR LOAD FILE. FOR FILE NAME. USE CART11.

<13> WHEN LOADED, PRESS FCTN-9 FOR THE EDITOR COMMAND LIST (THIS ONE:)
Edit, Tabs, Files, Delete, Insert, Move, Copy, etc. then select R for replace.
next type in V, 1000/6/A/ AND PRESS ENTER. NOW PRESS 'Y' WHENEVER THE CURSOR
IS ON A JMP 6??? OR A LI 6??? OR A SB, CB, B, BLWP , LI, AND ALL OTHER ONES EXCEPT
TWO-DIGIT (FOR EXAMPLE '6?' OR DATA STATEMENTS. WHEN YOU REACH THE LAST ONE,
THE EDITOR WILL BE IN EDIT MODE. PRESS FCTN-9 AND TYPE R FOR REPLACE AGAIN.
THIS TIME TYPE IN V, 1000/7/B/ AND PRESS ENTER. DO THE SAME THING AS THE LAST
TIME. WHEN FINISHED, SAVE THIS IN VARIABLE SO FORMAT ON THE EDITOR COMMAND
LIST.

(14) DO STEPS 8-13 AGAIN, CHANGING THE STARTING ADDRESS FOR DISASSEMBLY PROCESS SECOND TIME AROUND TO 6500 AND THE ENDING ADDRESS TO 7000 THE FILE ME TO CART2, SHRINKED VERSION TO CART22 THE THIRD TIME 7000-7500, CART33, THE FOURTH TIME 7500-8000, CART44. WHEN YOU HAVE DONE THIS, GO ON TO NEXT STEP.

(15) TYPE IN THE FOLLOWING PROGRAM IN EDITOR OF THE E/A.

DEF START

ADRE >AOOO

START

COPY 'DSK1. CART11'

COPY 'DSK1. CART22'

COPY 'DBK1.CART33'

COPY 'DSK1. CART44'

END

SAVE THIS AS CART55 IN VARIABLE BO FORMAT NOW LOAD THE ASSEMBLER (OPTION 2) AND FOR BOURCE FILE NAME USE CART55, OBJECT FILE CART66. NOW ASSEMBLE UNDER THE 'R' OPTION. WHEN IT IS FINISHED, JUST LOAD AND RUN IT AND FOR PROGRAM NAME USE START. IF IT DOES NOT LOOK RIGHT, USE THE EDITOR TO LOOK AT THE FIRST AND LAST LINES OF THE DISASSEMBLED CODE TO SEE IF THE NEXT FILE NAME HAS IDENTICAL ONES OR IF ANY LINES ARE LEFT OUT. WHEN DONE WITH THIS, ASSEMBLE AGAIN. CHECK AGAIN UNTIL IT WORKS.

DATA BASE MANAGERS FOR THE TI-99/4A By Bill Gaskill

Some owners/outhors of the applications I have covered in this article will no doubt be angered by the apparent brutality of it. I choose to view it as honesty rather than brutality. Too many reviewers white wash the weaknesses of TI software they critically review. I will not. I think sometimes that we are afraid that the software market will dry up and blow away unless we give favorable reports on the software products that do appear for our computer. I prefer to think of it in another way: if we promote junk software in a favorable light those that do publish product reviews will lose credibility, and those that buy software based upon those reviews will simply be that much more reluctant to get burned a second time.

In the process of searching for the perfect data base manager I have purchased several programs and spent over \$300. All of the programs that I own have positive points and all have negative points. What I have discovered to date is that the "perfect" data base manager does not exist, yet (not even in the business world). What I am going to share with you are my impressions of the programs I own, and in doing so, will perhaps save you a little time and money if you too are looking for that "perfect" application.

The programs I own are:

ACORN 99 from Ook Tree Systems

DBMS from Navarone Industries

DATA BASE 1 from SPC Software

DATA BASE 99 from Quality 99 Software

DATA BASE 300 from the International Users Group

DATA BASE X from Western Ware

PRBASE V1.2 and V2.0 from William Warren

TURBO DATAMAN from Easy Ware

I have used these programs enough to feel comfortable with each and could probably write several pages about each one. Unfortunately, publication space is limited and such a voluminous article would never see print because of it. Thus I have tried to be brief, but to the point, in my comments on each program. Also, please keep in mind that my comments are subjective, based upon how each product meets MY needs and expectations. Yours may be different.

For ease of reference I have included some of the information in a comparison table that allow analysis at a glance. In the paragraphs that follow I will try to provide a little detail to each issue and cover special features, lack of what I view as standard features and product performance of each program. I apologize in advance for the cryptic style you will read, however, I needed to be brief. The DATA BASE 300 program will not be looked at since it is not available.

ACORN 99:

Among the top three DBM's available to the TI community. The only relational data base available. Also, the only one with a programming language interface for custom applications. EXTREMELY powerful and

I WOULD LIKE TO THANK BILL GASKILL FOR ALL THE EFFORT THAT IT MUST HAVE TAKEN TO TRY ALL THE DATA BASE PROGRAMS THAT HE WRITES ABOUT IN THIS ARTICLE. I WANTED TO DO A REVIEW OF ONE OR TWO OF THEM, BUT WHEN I SAW THESE DONE SO WELL, I COULD NOT PASS THE CHANCE TO PRINT HIS REVIEW AND COMPARISON. THIS ARTICLE WAS TAKEN FROM THE "FRONT RANGER", THE NOV., 1986 ISSUE.

well designed. Can support three active files at one time, allows existing data file formats to be edited, copied to another file, resequenced and can reformat a file structure into another file format. Does not have the ability to show number of records in a file. Con hold more than 1500 records per file on a SS/SD disk (depending on file size). Sorts alpha characters and strings better than numbers. Indexes record location for subfile creation and mainfile is then concatenated to create the subfile as another database. Possesses obility to search, using; "equal to, unequal, greater than, less than, ignore" logical operators. Supports relational operators in search routines through the use of a true/false convention that allows selection of records where all parameters are met, or any parameters are met. CAN print a single record from a display screen. EXTREMELY slow in operation. Uses 40 column text mode. Allows duplicate key field data entries. Allows printer control codes to be encripted in setup file. Provides input checking for "numeric, integer, money, string, flag and date" entries. Overall, a fabulous program, with almost limitless potential. The best documentation of the group, giving many examples along with explanations. SUPERB application.

DBMS (Navarone):

Allows 32,000 records per file, but only 350 per 55/5D diskette. Limits you to half that amount if you wish to sort the file since it creates a second sorted file that demands equal space on your data disk. Most interesting report generator I have ever seen, a cut and paste type affair that is really neat, but poorly documented. Excellent custom screen design module which includes help screens that you design. FAST FAST FAST. Requires unique key field entries only, which I find inconvenient. Documentation is better than originally written, but still confusing at times, and incomplete. Dates on mundame things and skips over, or entirely omits, important things. Does totaling in reports, but no other computational work. Does not support single record printing, but can use the report module to scroll data on screen, write it to disk or send it to your printer. Can append new data fields to the end of an existing record, but cannot reformat the record in any other way. Can create subfiles, but you have to figure out how to do it for yourself because the documentation does not tell you how. It doesn't even mention subfiles. printer control codes to be encrypted in Report Generation file. Does not perform input checking of any type. All data is considered to be a string entry. Best suited for a hard disk environment. Not difficult to use once you have "played" with lit, but can be intimidating at first.

DATA BASE 1:

Best suited for mailing lists or other LIST type data files. Cumbersome design setup requiring records to be accessed by their relative position in the file (record number). You must first list the records by a specified field if you don't know the record number. Time consuming. Provides three pre-set mailing label report formats and one custom format for your own design. Will NOT do reports that have heading information. Includes several nice utilities, such as a formletter generator, disk file data base which creates a DB1 data base file out of the information on your library of disks. Does not provide for input checking, nor length of field entries. Only looks at the length of overall record. Does searches by "equal to" operator only,

only on one data field at a time. Requires that you first create an index file and then search. To search by another field you must create another index file. Searches by a maximum of 5 characters in any field. Sorts are limited to 1000 records, no matter how many exist in the file, but both alpha and numeric sorts are offered. Subfiles can be created to a printer in the main program or to disk by using the Utilities options. Selection is by "equal to" or "between two values", which can be either alpha or numeric type.

DATA BASE 99:

More emphasis put on copy protection than on program performance. Allows custom screen design and claims 28 fields of up to 28 characters Would be a neat trick to do since four of the 24 rows on screen are used by program prompts. Fast assembly language interface for report generation. Connot generate reports with headings and does not permit printer control codes to be inserted in report data. Does not save a format after design, so you will have to re-create it each time you want a report. Data is printed in continuous format without regard to page breaks or anything else. Design of layout is cumbersome. requiring you to conceptualize how many colons and/or semi-colons are needed to push the data across the page. Number of colons/semi-colons is limited to 127 characters allowed in a LINPUT command. A terrible system. Disk cotolog accessed from main menu will crash program if you enter an alpha character instead of a number when it prompts for the disk drive number to be cataloged. Color is lost after a crash since it was CALLed from the LOAD program. Does not permit single record screen print (unless you buy the DB 99 Utilities), must use EDIT option to search for a record or search sequentially. Cannot go directly to a record by its relative position in the file. Will create subfiles to disk, allowing the search by "less than, equal to or greater than" operators. Search is limited to one field for all practical purposes. Sorts can be performed in ascending order, by any one field. Sort is on octual re-write of the file. All data is considered string information. No number crunching (again, unless you buy the DB99 Utilities], no input checking. Documentation consists of two 8 1/2" X 11" sheets of paper printed on both sides. Program is slow, inflexible, inconvenient in many ways and cumbersome to use. It might have been an advanced application two years ago. Today it is a dimosour, even with the DB99 Utilities. Much too expensive.

DATA BASE X:

Very modular, meaning that each function (adding, editing, printing, deleting etc.) is a seperate program that must be loaded each time you want to use that function. Does statistical analysis of data. Record counter is inaccurate, code of program is jumbled and entirely unstructured. Does not sort data, even though documentation uses the term "sort". What it means is "select". When DATA BASE X " sorts" by a particular parameter it is really selecting records for dumping to a printer that meet that parameter. Does allow selection between ranges. Cannot create subfiles, does not index existing records. Access of a record is done sequentially, unless you know the record number. No way to tell the record number, you must guess. Supports 1 or 2 disk drives. Excrutiatingly slow. Requires that you name the data disk DBXDATA, for no good reason that I can see, otherwise program errors out. Does not save report definition, but does allow it to be printed in normal or compressed mode. Definition process is fairly simple, but

time consuming. Documentation is the "shabbiest" I have ever seen. It is photocopied and put into booklet form with the pages not even cut straight, so that same information is missing off of same pages. Overall, this program is JUNK! As with the IUG's DATA BASE 300/500, it never really belonged on the market in the state that it is in. Unfortunately, I didn't know that and paid out over \$30 to find out.

PRBASE:

Totally assembly language coded. THE BEST all-around application in my opinion. FAST, flexible, does virtually anything a user would want in the way of data handling, except number crunching. It will not do anuthing in that area. Treats all data as part of a big string just as DBMS and DATA BASE 99 do. As long as you own the PRB Utilities written by John Johnson you can create subfiles, other wise you can't. on-line help for commands, creates an index by any input field you choose and then accesses any record in about 1 second. Also has a FIND feature to look at data sequentially in any single field and a GLOBAL option that searches for a single data entry anywhere in the record. Saves up to five report formats, V2.0 allows you to format a data disk. Custom screen loyout with terrific graphics options for borders/windows etc. is available. A tremendous program, well thought out, well designed, artistically executed. FAIRWARE!!! PRB Utilities are for the asking as long as you provide the disk and mailer. Report design routine is cumbersome and confusing. Prints single record from screen display in either 40 or 80 column mode. Program is very sensitive about I/O device names. My copies [V1.2 and V2.0] both require PIO. to work rather than just PIO or PIO/1, etc. With number crunching abilities this program would be a perfect "flat-file data manager" for most TI users. As it is, the value and performance for a FAIRWARE application, or a commercial application too for that matter, is unsurpassed. If you don't have PR BASE then you are missing out an one of the premier productivity tools available to the TI Community.

TURBO DATAMAN:

This is the second most powerful and useful data manager, taking a backseat only to PR BASE. It runs slightly shead of ACORN because it performs number crunching and is faster in operation. Like ACORN, TURBO DATAMAN allows you to create a dictionary of data items [fields] and then lets you choose from that library of fields to put a record Up to 30 fields are allowed per record. Twenty pre-defined together. records (file formats) can exist on one disk. Allows custom screen layout design, complete with graphics for borders/windows etc. Does input checking, allows secondary screen access, like ACORN's Detail Records. Allows formulas to be created and saved that perform the four basic math functions. Report definitions can be saved. Allows wildcard type operators in searches, will print single record from screen display. Provides "less than, greater than, equal to, not equal greater than or equal to, less than or equal to" operators in screen display and report generation modules. Permits sub-totals in reports that can be famotted like TI Extended Basic does with the IMAGE statement. Subfiles can be created through the report generator by sending the output selected to a disk file rather than a printer. The results must be converted back to INTERNAL, FIXED from DISPLAY FIXED before you can use it in the program however. TURBO DATAMAN does not provide you with that utility. The documentation instructs you to "write a program" to do it. Names used for different modules in the

program are confusing. Ex; ETCH, SKETCH, SKETCHR, FETCH. change names to more accurately reflect function of module. Documentation acceptable, but locks adequate coverage in some areas. Utilities are provided to perform some mundane operations, such as counting the amount of records in a database. Reformating or restructuring of an existing file is not permitted, unless the input field is appended to the end of a record format. This program needs some "fine tuning" in some areas, but is still an exciting productivity tool with immense possibilities. Its speed of operation is not fast, but acceptable. It is faster than ACORN. One can set up the SKETCH program to auto-load if desired, but the whole application should be centered around a menu in my opinion. As it is now, you must RUN each module from the READY> prompt when you need to use it, because every module exits with an END statement. If you don't own this program, you should. Whether you want to manage a mailing list or do accounting, TURBO DATAMAN is for you.

FEATURE TABLE:

FEATURE	ACORN99	DBMS	DB1	DB99	рв х	PRBASE	TURBO DM
RECORDS/FILE	FA DIRK	32,000	LIMITED BY DISK	350-1400	LIMITED BY DISK	350/710	LIMITED BY DISK
FIELDS/REC.	54	just ton	10	28	10		30
MAX.RECORD LENGTH	and has had take each cod	come, person person person bearen, bearen, fection terrori styrest	ginne og store den gråde prete men i kanse	246	246	246	255
MAX.FIELD LENGTH	40	40	28	28	28	245	28
MEMORY REQ'D	32K	32K	32K	32K	15K	a ZX	32K
LANUGUAGE	XB/ASSM	ASSM	XB/ASSM	XB/ASSM	XBASIC	ASSM	XB/ASSM
CUSTOM DESIGN SCREEN LAYOUT	NO	A gue em	ND	YES	NO	YES	YES
SCRN GRPHICS CAPABILITY	NO	NO	ND	NO	NO	YES	YES
ALTERED CHAR SET USED	NO	YES	YES	NO	NO	YES	NO
CUSTOM REPORT DEFINITION	YES	YES	VES	YES	YES	YES	YES
SAVES REPORT DEFINITION	NO	YES	YES	NO	NO	YES	YES

EXTENDED BASIC SUBPROGRAMS

FLYING LINE

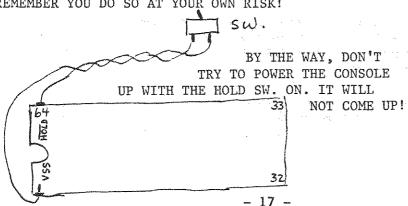
Here is a program which will allow you to have a line of text formed by flying letters coming from the sides of the screen. To use this in one of your programs, just merge lines 2000-2120 at the end of your program. Warning: make sure there is no code after line 2120 unless it is another SUBprogram. To make the letters 'fly', insert the command: CALL FL(A\$,L) Where A\$ is the text to be printed and L is the line to be printed on.

```
100 CALL CLEAR
110 CALL FL ("PROGRAM NAME HERE", 5)
120 CALL FL("BY", 7)
130 CALL FL("YOUR NAME HERE", 9)
140 GOTO 140 ! YOUR PROGRAM STARTS HERE
2000 SUB FL(A$, L):: W=15-INT(LEN(A$)/2):: RANDOMIZE
2010 FOR N=1 TO LEN(A$):: F=1500
2020 G=ASC(SEG$(A$, N, 1)):: IF G=32 THEN 2130
2030 IF N/2<>INT(N/2) THEN 2060
2040 C=INT(32*RND)::IF C>1 THEN R=INT(RND*2)ELSE R=INT(24*RND)
2050 GOTO 2070
2060 R=INT(24*RND)::IF R>1 THEN C=INT(RND*2)ELSE C=INT(32*RND)
2070 IF R=0 THEN R=24
2080 IF C=0 THEN C=32
2090 CALL SPRITE(*1,G,2,1+(R-1)*8,1+(C-1)*8,(L-R)*4,(W+N-C)*4)
2100 CALL COINC(#1,(L-1)*8+1,(W+N-1)*8,48,D)
2110 CALL SOUND(-100,F,10):: F=F-125 :: IF D=O THEN 2100
2120 CALL DELSPRITE(#1):: CALL HCHAR(L, W+N, G)
2130 NEXT N :: SUBEND
```

THE ARTICLE ABOVE WAS TAKEN FROM THE PUGET SOUND 99'ERS, THE OCT. ISSUE OF THEIR NEWSLETTER. YOU WILL SEE A VERY INTERESTING WAY TO EXPRESS YOURSELF.

THE ARTICLE ON YOUR RIGHT WAS TAKEN FROM THE NOV. ISSUE OF THE NEWSLETTER SENT TO US FROM THE VAST 99 USERS GROUP.

EACH MONTH, I LIKE TO INTRODUCE YOU TO A NEW OR DIFFERENT HARDWARE EXPERIENCE. I'VE BEEN AWAY SOME THIS MONTH, AND HAD VERY LITTLE TIME, BUT HERE IS A MOD THAT IS VERY EASY TO DO AND IS VERY USEFUL. IT IS A HOLD SWITCH FOR YOUR TI. IT WILL STOP ANY PROGRAM THAT IS RUNNING, UNTIL YOU WISH IT TO GO ON. YOU NEED JUST A SINGLE POLE, SINGLE THROW SWITCH, AND TWO LENGTHS OF WIRE TO LOCATE THE SW. ATTACH THE TWO WIRES TO PINS 1 AND 64 ON THE CPU CHIP AS SHOWN BELOW, AND LOCATE THE SWITCH IN THE CONSOLE WHERE EVER IT PLEASES. THAT IS IT. BUT, REMEMBER YOU DO SO AT YOUR OWN RISK!



REYBOARD / ASCII READ:
Practically all 255 ASCII
characters are available to
be included in your program
from the keyboard. The only
problem is that TI did not
print a list to tell you how
to access characters lower
than 32 or greater than 126.
This little program will
record the character and the
ASCII number when you press
just about any key. I say
just about because if you
press FCTN+ you'll return to
the title screen. For instance if you press FCTN vo
(that means the FCTN key and
the V key simultaneously)
you will see that it is
ASCII character 127.

100 CALL CLEAR :: CALL SCREE N(11):: DISPLAY AT(12,9): "PR ESS ANY KEY"
110 ON BREAK NEXT
120 DISPLAY AT(1,1): " KEY BOARD/ASCII SEARCH" :: DISPL AY AT(2,1):RPT*("-",28)
130 CALL KEY(0,K,S):: IF S=0 THEN 130
140 IF K>128 OR K<32 THEN 15
0 ELSE 160
150 PRINT "Character: - No to Defined -" :: GOTO 170
160 PRINT "Character: ":CH R*(K)
170 PRINT "ASCII *: ":K:

T. I. Writer(Part 5) Stan Katzman

There are serveral short miscellaneous routines that we ought to discuss that are useful (and important) so here goes.

The standard "typing" mode is called word-wrap. In this mode when you come to the end of the line that word is automatically put on the next line. This is the opposite to a typewriter where one has to return the carriage by hand. If you press the return key you start a new paragraph. If you want an empty line between paragraphs just press the enter key again. If you remember an earlier paper on how to edit we used the reformat key (Ctrl 2). The reformat key only works within the paragraph one is working in.

If we want to combine two adjacent paragraphs all we have to do is remove the carriage return symbol (by pressing "Del Char" (Fctn 1)) and then reformat will combine the two paragraphs.

By default a page of material is 66 lines long. In order to make the document have, say, only 60 lines per page just keep track of the line numbers at the left of the screen and put in a new page symbol by pressing Cntrl 9 and when the document is printed the new page symbol will cause the printer to start at the abeginning of a new sheet. (This new page symbol also works in the Formatting Mode.

The other "method" of writing a document is in "Fixed Mode". To get into fixed mode press "Ctrl Zero(0)" (Word Wrap) and this puts you inf Fixed mode (the cursor will be a hollow rectangle). To get out of fixed mode press Entl 0 again (toggle) and you are back to word wrap. In fixed mode you do not automatically go to the next line in order to get to the next line, you have to press enter and you will go to the next line. If yo;u do not press enter at the end of the line each character entered will just replace the last entered character. The fixed mode is used to make tables of data.

Now something more about printing out a file. If you niticed in the past in order to load or save part of a file you had to know the start and finish line numbers. It makes it easier to load or save file parts if you have a print out with the line numbers, well we can do that also. In order to have a print out with the line numbers go to Command Mode enter F and the enter PF, at the statement "PRINT FILE, enter devicename:" enter L, space, and then PIO (for a parallel printer). Eg. L PIO. There is one minor catch and that is it will not print anything in columns 75-80.

You can also print only part of a file, get the PF mode and then type the starting line number, space, ending line number, space and then PIO. Eg 23 48 PIO and only lines 23 to 48 will be printed out.

One last function, Q (Quit) (quite appropriate). To quit working go to cammand mode and enter Q there will be another menue which is obvious that you can easily follow.

More later.

-----NOVEMBER, 1986----

HINTS AND TIES

USING T.I. MULTIPLAN

One of the main uses of the T.I. MultiPlan (TIMP) for a home computer owner would be to keep track of investments. Each person would want to set up his own spreadsheet, so below is an example.

The amount in column 4 would be automatically calculated by causing col 3 to be multiplied by col 2 for each row and the amount in col 4 designated as total would be kept up to date by having column 4 add itself and show the total at RBC4, which is the way a cell is designated.

In practice, a column could be inserted so that the Stock Exchange Symbols would be in column 1, cost and total cost columns could be inserted between cols 2 and 3 and even expected returns and yield columns are feasible. And in all cases the amounts would figure themselves out at each recalculation.

As an example of how these formulae are entered, to get the value in R8C4, the cursor would be placed over that cell; pressing "V" for "value" would command that a formula be entered and then the UP arrow would be used until the cursor is over the R3C4 cell. The add(+) is punched and the cursor immediately drops to the home cell (R8C4). Use the UP arrow again to the next lower amount, use +

can contain + - * / as needed. The method using the arrow keys works very well for a few lines, but if our list of stocks were longer we might just type out the formula for each line, thus:(assuming row 3)

R[-C2]*R[-C1] (Press ENTER)

This translates into: on the sammow take the cell 2 columns to the left and multiply it by the cell one column to the left and enter the result in the home cell (RBC4).

A series of columns with an additional total column could be added to show the dividends received on these stocks or a separate file (XTERn) could be set up as apprended to the file. If the latter is done the external files are updated and entered on the main spreadsheet each time the TRANS - Load: mainfile (or other name) is loaded.

Notice that the difference in widths of the columns in the example and the difference in the type of information in each of them is set using the <u>FORmat</u> command.

Next time we'll look at some of the other aspects of TIMP.

By Herbert Schlesinger

and again the cursor comes	with the same one one one one one one one one one on	* 1000 000 100 000 000 000 000 000 000 0
home. Repeat this for	: Sample Worksheet	•
each value to be added ex-		a ¢
cept the last when ENTER	1 2 3	4 :
is pressed completing the	:1 Name of Company #shares Pr.Val	Total Value:
operation and the Total	3 Programme control organization (COC) (CO	** **** **** **** **** **** **** **** ****
sought will enter itself	:3 Aetna Life 100 \$45.25	\$4525.00
in the proper (home) cell.	:4 Burroughs Corp 150 \$55.25	\$8287.50 :
Upon RECALC any changes in	:5 Detroit Edison 100 \$17.25	\$1725.00
any of the figures will	:6	:
reflect in the TOTAL cell	:7	
(RBC4 in this case). In	:8 TOTAL	\$14537.50 :
using VALUE the formula	والمن المناس الم	

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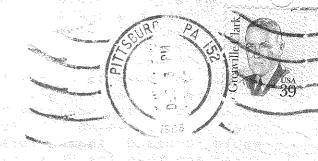
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