

PLEASE CHECH OUR MODRESS - SEE PAGE !

NEW MURRO COMPUTER READE. SHOWN AT C.E.S. - PAGE S





THE DATA BUS (Issue :) (VOL. 4) (NO. 6) (----) (JULY) (1986)

THE DELAWARE VALLEY USERS GROUP

P.O. BOX 6240 STANTON BRANCH, WILMINGTON DE 19804

DEDICATED TO THE TI AND COMPATIBLE HOME COMPUTER FAMILY MEETS 4TH THURS. EACH MONTH/6:36-9:30 P.M./CHRISTIANA MALL COMMUNITY ROOM

KENT COUNTY, DE COURTHOUSE 2ND THURS. 7:00-9:00 P.M.

<CHAPTER>
<MEETING>

DEPTFORD, NJ MUNICIPAL BLDG.

> 3RD MONDAYS 6:45-9:00 P.M.

WELCOME TO OUR NEW DAUG MEMBERS, JOINING US FROM

DELAWARE:

Robert Edwards, Rita and William Locey, Susan Olson, Thomas Pruitt and Emile Talbot

MD: Jason Christman

NJ: Bruce Thomsen

Renewals: 2 (Delaware)

THIS IS KID STUFF?: The Sheairs family joined in November, 1985, and Bobby has won the Gram Kracker and a Myarc 128K Memory Card in prizes so far!

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to The HOUSE ! DAVO M. WANTER

TI99/4A, a South Jersey chapter of the Delaware Valley computer-user group, meets monthly at the Deptford Municipal Duilding. During the May 19

meeting, Robert Sheirs, 14, of Deptiord and and Doug Ferguson, 20, of Mariton check out new graphics programs.

DUMPING DISAYOUED

Seven Japanese manufacturers of chips for computer microcircuitry have reached agreement with the U.S. Department of Justice and representatives of American manufacturing of microchips, following earlier hearings which found that the seven had conspired to dump their lessen cost, and highly - demanded, versions on the American marketplace.

Resolution without court suit means a continued source of relatively low cost, and technologically-advanced, chips for American-marketed systems. (Today, Korea may be a greater threat to U.S. chips.)

Texas Instruments makes its own chips and is the U.S.'s 4th largest producer.

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DUUG EXECUTIVE COMMITTEE MEMBERS IN 1986

PRESIDENT TOM AUGUST
VICE PRES JIM DAVIS
The same of the sa
SECRETARY LYNN ACQUARD
TREASURER TOM KLEIN
SGT.AT ARMS JIM FOLZ
DELMARVA CHARLES BOWER
SO.JERSEY ERROL LANSBERRY

TIBBS (24 hrs. 300/1200): 302-322-3999
DVUG Chapter Bulletin Boards:
For NJ & DelMarVa Info, See Next Columns

SOFTWARE LIBRARY: JOHN WEBB 302-798-0956

A Delaware Valley Users Group membership includes monthly newsletter, library and software privileges, plus other special benefits. Annual membership rates are: Family or Individual \$15; Students \$5; Newsletter only (beyond 75 miles) - \$10

PLEASE TRANSMIT YOUR NEWSLETTER COPY TO: The Data Bus Editor -- Jack E. Shattuck, Telephone: 302-764-8619, or use the DVUG mailing address as is shown on Page One. NEWSLETTER COPY WILL NOT BE ACCEPTED FOR AN ISSUE AFTER THE 2ND THURS. EACH MONTH

Advertising Rates in The Data Bus: 1/4 page = \$ 5/issue, or \$ 45/12 issues 1/2 page = \$ 8/issue, or \$ 75/12 issues Full page = \$15/issue, or \$125/12 issues

An article appearing in The Data Bus may be reproduced for publication by another TI User Group as long as acknowledgement is given to the source as is indicated. DVUG encourages exchange newsletters.

DELAWARE VALLEY USERS GROUP LOCATIONS: Plenary meetings: Delaware's Christiana Mall on Rte. 7, at I-95 Exit 4-S, in the Community Room. Enter between J.C.Penney and Liberty Travel inside the Mall. Call Tom Klein, 215-494-1372 or others above.

DELMARVA CHAPTER: Kent County Courthouse, Basement Conference Room #25, The Green & State Street, Dover, Delaware. Use entrance on The Green side. Contact: Jim England, 302-674-9256.

SO.JERSEY CHAPTER: Deptford Municipal Building, Cooper Ave. and Delsea Drive, (Rtes. 534 & 47), in Gloucester County. Enter and park in rear of the building. Contact: Carol Rosowski, 609-228-2445.

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CHANGES IN THE SO. JERSEY DVUG BBS SYSTEM

Mike Baker, long-standing SYSOP for a BBS running at (609)435-7301, is ending his involvement with the BBS there. The choice of a new SYSOP will entail some temporary suspension of service.

DVUG's South Jersey chapter will have to examine the possibility/desirability of retaining the same phone number for a new 1200 Baud system. Shift in SYSOP is expected to coincide with a search for a common BBS software (operating system) to be used among all three geographical DVUG groupings.

The DVUG TIBBS line at (302)322-3999 continues in 300/1200 24-hr. 7-day use. DelMarVa members are seeking an upgraded disk capacity to bring them on line.

TRI-STATE COMPUTER FAIR IN CHERRY HILL HOLIDAY INN, SUNDAY, JULY 20th, 10 - 4 Rte. 70 West from I-295 in N.J. - \$ 3.50 Hardware, peripherals & accessories, but probably not much TI software. For Info, call (201) 533-1991.

SO.JERSEY CHAPTER, DEPTFORD, MONDAY, July 21 at 6:45 p.m.

"Butch" Fisher will review many of the programs available to club members from our software library.

CHRISTIANA MEETING, THURSDAY,
JULY 24 at 6:30 p.m.
Jim Davis will lead discussion of
screen editing with the EDITOR/ASSEMBLER
versus TI BASIC's line editing.

DELMARVA CHAPTER, DOVER, THURSDAY, August 7, 7 p.m. Topic to be announced ...

DELAWARE VALLEY USERS GROUP: JULY 1986

DVUG DOINGS

OBSERVATIONS ON THE DELMARVA MEETING - By Jack Shattuck

Kay Quillen didn't have a chance to get her minutes to the Editor from July 18th's meeting before our print deadline, but I joined Tom August and Lynn Acquard going down to Dover for the session there, earlier this month. While reporting on our DVUG activities in that area of the peninsula, some reminders might be in order, if one attempts to compare gatherings.

There were approximately 15 individuals there, from the Dover area and Eastern Shore. Kent County has about one-quarter the population of northern Delaware's New Castle County. Likewise, Canden and Gloucester counties together in New Jersey (where Deptford is situated) have more people than the entire State of Delaware. In that light, the smallest DVUG group is doing quite well; for July's meeting, three more households took out paid DVUG memberships.

There are limited expanded systems there; TI P-Box users have merely one single-sided, single-density disk drive, and some users only have console BASIC! In that atmosphere, some of the demonstrations at that meeting had more significance than would be felt by the expanded users who give demos at Christiana gatherings. Shown at DelMarVa in July were XBASIC DETECTIVE (shown elsewhere the last two months), HANDY DANDY ADDER - found in this issue of THE DATA BUS, Barry Traver's GENIAL TRAVEIER, and Dave Rose's CHARACTER SETS AND GRAPHIC DESIGNS. Even with those demos, the lack of expanded disk drives set a limit on portability of other programs - but those items which had not been seen there before were appreciated.

The Editor brought a collection of DVUG newsletters which also conveyed data not known before in that area. This encouraged the new members to want to be included in lists of DVUG members to receive vendor ads; news and third-party software or hardware was so sparse there. On the other hand, the officers have done an excellent job of keeping the group's presence in the public eye — for this meeting, a Dover newspaper photographer was present and walked away with the DVUG history background which Secretary Lynn Acquard had brought down from Newark for the occasion.

After numerous busy signals and persistent attempts to get an open phone line in a building whose circuits normally closed for the night, a hookup to a local BRS was successful. (An attempt to run DVUG BRS software on a TI-to-TI hookup fell short without a second available disk drive.) A few minor obstacles don't deter TI spirit among these members; they'll be having a yard sale later as a fund-raiser (call Jim England at 382-674-9256, if you can contribute). Remember how glad YOU were when TI "orphaned" you, but your DVUG friends didn't!

JUNE 26 CHRISTIANA HINUTES - Lynn Acquard, Secretary

The June meeting was chaired by our Vice—President, Jim Davis. Tom August was unexpectedly called out of town, and was not present.

Brief reports were given by the chapter chairpeople, followed by the treasurer's report.

He then turned to new business. The question of rebating money to the chapters was brought up. This was mentioned when the idea of chapters was first discussed, but no definite decisions were made. The chapters' sole source of income at the present time is any raffle they run, as all the dues money is turned over to the main DVUG. That means that any profit must cover refreshments, the library, and the TIBBS. The group agreed that some money should go back to the chapters. The amount of \$5.88 per member was mentioned (approximately \$18.88 per year covers the cost of the newletter). Another possiblity is to rebate 1/3 of the current dues rate. At the present time, that is still \$5.00, but this would eliminate recalculating the amount whenever the dues were changed. The \$15 figure has been the amount since DVUO began taking dues in 1983. After much discussion, it was decided that Tom August would appoint a committee to write an addition to the by-laws for the chapters. This will be reviewed and voted upon at a later date. In the meantime, it was voted to advance the New Jersey chapter \$158.88. This amount will be charged against the anticipated rebate. The Delmarva chapter declined any money at this time, as their chairman was not present.

OTHER BUSINESS IN BRIEF:

Jack Shattuck notes: The Mancus Foundation, located at Jessup and 30th Street in north Milmington is seeking donations of TI console, joy sticks, speech synthesizer, game cartridges, etc. The foundation works with handicapped and disabled people. Please contact Jack or the Foundation if you have items to donate, tax-deductible. Only non-expansion equipment is needed.

A motion was passed to spend approximately \$150.00 for a double-sided, double-density controller card for the TIBBS. Some time ago, we had one hooked up to the system (on loan from a club member)—— what a difference in speed!

Another TICOFF is planned, set for March, 1987.

It was decided to delay the classes at Calvary Episcopal Church until September, due to the small turnout at the regular meeting during Summer. Please let us know the kinds of classes you want!

The software committee needs volunteers to review programs in the library — is it a game, are there any errors, instructions, does it need a printer, etc? See John Mebb, or leave a message on TIBBS.

The equipment committee still needs volunteers to bring equipment to the meetings. Please see Jim Folz.

That's it until next month - Happy Computing!

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FROM THE CREATORS OF BANNER BUSINESS GRAPHS

ENTIRELY DYSTICK CONTROLLEDII

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USE TOOLS. SUCH AS PENCIL. ERASER. PAINT BRUSH CIRLCE, OYAL BOXLINE & TEXT!



SCIPPI SIEP

92% more **GRAPHICS** SPACE THAN **PREVIOUS** TI GRAPHICS PROGRAMS!!

THE SCREEN ACTS LIKE WINDOW

COMING SOOK:

JOY PAINT 59 COMPANION!

Yith hundreds

graphics!

of pre-designed

Joy Peint'99 graphics page size (shown smaller than actual print size)

REQUIRES T-99/4A.32K. Disk drive, Joy Stick, and one of the following: Extended Basic, Editor/Assm, or Mini-Memory.

Epson compatible printer such as Gemini 10x or 15x, Tl impact, etc. is optional.

(soon other printers too!)

Our all new 100% assembly language program features graphic capabilities found in no other software application. Use JUY PAINT '99 to create signs charts, diagrams, advertisements, or graphics of any type. JOY PAINT '99 is sophisticated, yet simple to use. In fact, the user never needs to touch the keyboard; all functions are joystick controlled. There are no complicated function keys to remember, just simple on screen TOOLS. JOY PAINT '99 allows circles and ovals to be drawn with incredible speed and precision. Lines, boxes and rectangles can also be quickly drawn! Additionally, the FILL, PAINT BRUSH, and SPRAY-CAM tools allow filling and painting in any one of twenty six selectable PATTERNS! JOY PAINT '99 also feature 8 different brush shapes!

A 'pull down window' contains many more features that make creating and manipulating graphics fun and easy. Any object can be IMVERTED, ROTATED, FLIPPED VERICALLY or HORIZONTALLY, COPIED, MOVED, OR STORED ON A CLIPBO ARD! A MAGNIFY feature allows graphics to be increased. A 200M OPTION, called FATPMELS, allows fine single dot editing.

MY PAINT '99 also contains dozens of features not found in any other graphics application. For instance an "UNDO" feature that instantly "takes back" the last portion of work the user performed! Its DIRECTORY feature can catalog your diskettes! JOY PAINT '99 CONSERVES DISK SPACE, by not saving the redundant blank areas in your graphics! Printouts can be made directly in normal, or double size, and in single or double density! Be among the first to experience this unique and practical program; ORDER YOURS TODAY.....\$49,95 POSTPAID.

GREAT LAKES SOFTWARE 804 E. Grand River Ave., Howell, MI 48843

GROUP: DELAWARE <u>USERS</u> 1986

COMPLITER

640K, 80-COL. TI-COMPATIBLE UNDER \$500

June's MICROpendium report on the Summer Consumer Electronics Show notes that Myarc finally is ready to take Tl owners (or others)' orders for the new "Geneve" computer, one year after its original announcement at the 1985 CES.

Originally projected to use 256K. then upgraded to 512K, it now has 640K as standard, which - combined with the uporaded Hyarc BASIC - makes this the most powerful home computer available for under \$500.

Meeting estimated cost (\$495), it supports 46/88 column display modes to use TI Mriter in 80 columns, and will take 648K RAM patches for BASIC 3.8. a MS-DOS operating system, and Microsoft Multiplan in 80 columns.

IBM PC XT-type Keyboard, separate function keys and direct cable to TI's P-Sox (instead of the aukward II one) are standard in this CorComp/TI/Hyarc RS232- and disk controller- compatible machine, which now includes speech and 128K of VDP RAM, operating with the TI 9995 processor chip running at 12 MHz. That equates to 3-6 times the 99/48's speed, depending on the mode used.

For graphic and other convenience activities, mouse and RGB support have been included. Myanc will very shortly [in their terms] introduce a composite RGB 80-column monitor under \$250.

As noted previously, the computer will support any. Il assembly language program (but author shortcuts may make a handful of later. 3rd party software unusable), and a new cartridge-dumping program will be available.

Myarc will modify their 128/512K RAMDisk cards for compatibility and is expecting to create additional interfaces for TI-99/4A owners who wish to upgrade on a more piecemeal basis. (An IBM keyboard connector was discussed in the \$49 range; separate keyboards typically cost about \$99. Other IEHcompatible extras are rumored.)

Mith 640K RAM built-in, plus the Hyanc 512K RAMDisk, 1.1 Megabytes of memory are directly available, but up to 2 Megabytes are addressable.

August shipment is on hand, Myarc spokesperson John Keown announced, in describing the new GENEVE Model 9648 Family Computer (presumably 9 for the TI connection; 640K RAD.

HARNING REGARDING LITHIUM BATTERIES!

Both Joe Gillo, a TI employee in Texas very active with TI User Broups. and Richard Bailey with New Hampshire 99ers are warning you strongly about the procedure shown in Home Computer Journal, where photos display changing a MiniMem cartridge Lithium battery.

The soldering procedure suggested could cause an explosion, notes Gillo.

Bailey warns against recharging a Lithium battery for similar reasons. Replacing must be done carefully; read Bailey's Jan.'86 MICROpendium article.

GOING FOR A STROLL ON THE BOARDHALK? Bring your ti: say hi to a user group!

From New JUG North in New Jersey: yet another NJ group, the S.J.T.I.C.C. is active, in the Atlantic City area.

The secretary (Hark) uses P.O.Box 902 in Mays Landing, NJ 08330, and the SHORE LINE NEWS 885, (689) 652-1965, is operated by SYSOP Bill Schwoer, 723 Falcon Court, Smithville,NJ 68201. Me couldn't get a human voice when we got through, and they'd just revised the 88S. You may want to wait to call.

DVUG will be in further touch.

MHAT USER GROUP ARE YOU TRYING TO REACH? ARE YOU USING THE RIGHT ADDRESS AND MAKING CHANGES TO YOUR OLD FILES?

N.B. The following addresses should no langer be used for correspondence:

> Kent County Users Group P.O. Box 354, Felton, DE 19943

or P.O. Box 57, Viola, DE 19979

9900 Users Group, Inc. P.O. Box K, Moorestown, NJ 08857

To reach either that former membership or any other member of DVUG - Delaware Valley Users Group - please use CNLY this address for DULG:

P.O. Box 6248. Stanton Branch. Milmington, DE 19804 That helps avoid any group information getting delayed in private mailboxes.

Former Kent County TI'ers and NJ 9908 User Group members are receiving all mailings of THE DATA BUS. Thanx!

DO YOU WANT TO GET CATALOGS OR ADS FROM SOFTHARE AND HARDWARE HANUFACTURERS IF YOU SUBSCRIBE TO THIS NEWSLETTER?

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IF YOU ARE A HEMBER AND WANT TO BE ON THAT LIST, SEND A HRITTEN NOTE TO THAT EFFECT TO US. The Delaware Valley Users Group now has over 5 dozen families willing to release their names and addresses for vendor mail.

TI VENDORS: DO YOU WANT TO GET A LIST OF TI USERS WHO ACTIVELY SEEK YOUR SOLICITATIONS?

IF YOU'RE A VENDOR MANTING THAT IX LIST, WRITE TO DAUG -OR- IF YOU NISH TO ADVERTISE IN "THE DATA BUS', which goes to 125 families X of members in DE, MD, NJ and PA, X and over 48 other Users Groups. X SEE ADVERTISING RATES ON PAGE 2. X

IF SUBHITTING NEWSLETTER COPY, ¥ PLEASE NOTE DEADLINE ON PAGE 2. X A "MONTHLY SPECIAL" DOES NO 6000 WHEN SENT VIA BULK RATE, NOT PRINTED UNTIL A MONTH LATER. X

DELAWARE VALLEY USERS GROUP: JULY 1986 .

HANDY DANDY ADDER (Rev. 1986) An XB Adding Machine Program

The program below is an adding machine, with several extras. Lines 480-510 review the basic program operation, as originally written during 1984. (It developed from the request of a DVUG member for a routine to right-justify numbers!)

This 1986 revision lets a user continue input where it stopped, after a pause to review a file, after several entries. It also tightens up memory, error-checking, and displays the last "page" the user entered, upon closing.

Use this to tally bills or for a student's homework. Maybe it will give you ideas to share in another issue. It's included here since our plea for other DVUG programs to avoid endless reprints of other newsletters have gone basically unanswered. Also, we think there are a variety of programming techniques in this listing to provide some interest for newer members — especially beginners.

Listing Summary: 110-130 START UP SCREEN 140-180 INITIALIZATION 190-280 MAIN PROGRAM LOOP 290-360 FILE PRINTER ROUTINE 370 END PROGRAM

Subroutines: 389-460 SPRITE DEMO 478-510 DOCUMENTATION P. 1 529-570 DOCUMENTATION P. 2 580-650 PROGRAM OPTIONS 660-670 PAGE TURNER 688-710 FILE HALT OPTIONS 720-760 FILE DISPLAY OPTIONS 778 DISPLAY 1-ITEM FILE 780-790 DISPLAY 3-ITEM FILE 866 DISPLAY MORE OPTION 819 RESET & CLEAR 828-838 ENTRY ABORT INFO 849-869 CLOSE 3-ITEM FILE

188 REM By JACK E. SHATTUCK 2 COLONY BLVD, APT.101 WILMINGTON, DE 19882 (Placed in public domain) November, 1984 110 CALL CLEAR :: CALL SCREE N(11):: DISPLAY AT(3,6): "HAN DY" :: DISPLAY AT(5,12): DAN DY" :: DISPLAY AT(7,18): ADD 128 DISPLAY AT(18,4): By Jac k Shattuck 1984":;:"Delawar e Valley Users Group*:;:" REVISED 1986" :: GOSUB 386 :: FOR P=1 TO 400 130 NEXT P :: CALL HCHAR(18, 5,32,156):: GOSUB 668 :: GOT 0 479

140 GOSUB 810 :: IF MANY<2 THEN MANY=1 :: CALL SCREEN(1 3):: ON WARNING NEXT 150 OPTION BASE 1 160 DIM AMOUNT(20):: X=1 :: TOTAL=0 :: IF MANY=1 THEN 18 0 170 DIM NAME\$(20):: DIM SUBJ

ECT\$(20)
180 CALL CHAR(34, **000000FFFF

198 DISPLAY AT(2,6): "ITEM NO .":X:"OF 28:" :: IF MANY=1 T HEN 200 :: DISPLAY AT(5,1):" NAME/ID =":"SUBJECT =" 200 DISPLAY AT(7,1): AMOUNT =" :: CALL HCHAR(9,1,34,32) :: DISPLAY AT(10,1): ENTRIES MADE LAST AMOUNT" 218 DISPLAY AT(12,1): "AVERAG TOTAL AMOUNT" :: C E ENTRY ALL HCHAR(14,1,34,32):: IF M ANY-1 THEN 240 220 ACCEPT AT(5,11):NAME\$(X) :: IF NAME\$(X)="-999" THEN C ALL HCHAR(5,13,32,20):: DISP LAY AT(7.11): "-999" :: GOTO 488 230 ACCEPT AT(6,11):SUBJECT\$ (X) 248 ACCEPT AT(7,11) VALIDATE(NUMERIC): AMOUNT(X):: IF AMOU NT(X)=-999 THEN 680 250 DISPLAY AT(11,1):X :: DI

SPLAY AT(11,17):AMOUNT(X)::

TOTAL=TOTAL+AMOUNT(X)::X=X+1

260 IF X=1 THEN DISPLAY AT(1 3,1):TOTAL ELSE DISPLAY AT(1 3,1):TOTAL/(X-1)!NO ZERO DIV ISOR

270 DISPLAY AT(13,17):TOTAL :: DISPLAY AT(18,3):"To abor t before reaching":" maximu m input, enter:": :" AMOUNT = -999" :: IF X=21 THEN 69

288 FOR R=5 TO 7 :: CALL HCH AR(R,13,32,28):: NEXT R :: 6 0TO 198

298 OPEN #1:"PIO"
389 CALL HCHAR(15,1,32,384):
: DISPLAY AT(17,4):"GOING TO
PRINTER -"::" STAND BY,
PLEASE":: PRINT #1 :: IF MA
NY=2 THEN 330
318 FOR SEE=1 TO X-1 :: PRIN
T #1:"(";SEE;")";TAB(9);AMOU
NT(SEE):: NEXT SEE
320 PRINT #1:"

":"TOTAL =";TAB(9);TOT AL :: GOTO 360 330 PRINT #1:"ITEM";TAB(9);' NAME/ID";TAB(30);"SUBJECT";T AB(51);"AMOUNT" :: PRINT #1 340 FOR SEE=1 TO X-1 :: PRIN T #1:"(";SEE;")";TAB(9);NAME \$(SEE);TAB(30);SUBJECT\$(SEE) ;TAB(51);AMOUNT(SEE):: NEXT SEE 350 PRINT #1:"______";TA

:X-1;"ITEMS";TAB(43);"TOTAL
=";TAB(51);TOTAL
368 IF X=1 THEN PRINT #1:"AV
G. AMT./ENTRY=";TOTAL ELSE P
RINT #1:"AVG. AMT./ENTRY=";T
OTAL/(X-1):: CLOSE #1 :: GOT
O 698

370 STOP

B(43);*.

(Continued on next page)

DELAWARE VALLEY USERS GROUP: JULY 1986

(HANDY DANDY ADDER Cont'd.)

418 CALL MAGNIFY(4):: CALL C HAR(58, "6") :: CALL CHAR("59 ."8")!36+ 40- 44= 56=NUMBERS 420 CALL SPRITE(#1,36,13,10, 10,-30,30):: CALL SPRITE(#14 ,40,7,30,46,-30,-30):: CALL SPRITE(#28,44,16,1,112,48,8) 430 CALL SPRITE(#2,36,13,246 ,18,-38,-30):: CALL SPRITE(# 15,40,7,196,172,30,30) 448 CALL SPRITE(#27,44,16,88 ,128,0,50) 458 CALL SPRITE(#3,48,5,88,2 12,0,-40):: CALL SPRITE(#4,5 2,5,88,234,0,-40):: CALL SPR ITE(#5,56,5,88,256,0,-40) 460 RETURN

470 GOSUB 810::CALL CHAR(64, "66183C7EFF7E3C18")!DIAMOND 480 DISPLAY AT(1,1): THIS EN HANCED ADDING MACHINEPROGRAM PERMITS ADDITION OF POSITIV E AND NEGATIVE ITEMS, WHILE C ONTINUALLY DISPLAYING" 498 DISPLAY AT(6,1):"@ NUMBE R OF CURRENT ENTRY": & AVA ILABLE ENTRIES LEFT": : "@ LA ST ENTRY MADE": : "@ AUG. AMO UNT PER ENTRY" 500 DISPLAY AT(13,1):"@ RUNN ING AMOUNT SUBTOTAL": : "WITH THE ABILITY TO PRINTOUT":"E NTRIES BEFORE OR AFTER THE": "MAXIMUM LIMIT IS REACHED." 510 DISPLAY AT(17,3):"IF YOU WISH, YOU MAY INPUT : "IDENT IFYING DATA FOR ENTRIES": "AS WELL." 11 GOSUB 669

520 DISPLAY AT(1,1) ERASE ALL
:"THIS PROGRAM HAS BEEN SET
TORECEIVE A MAXIMUM NUMBER OF
F 20 ENTRIES.": :"IN ORDER T
O CHANGE DEFAULT"
530 DISPLAY AT(6,1):"VALUES,
YOU SHOULD ALTER THEFOLLOWI
NG LINES:"
540 DISPLAY AT(9,1):"160 AND
170":" SET ARRAY DIMENSI
ONS": :"190 DISPLAYS ENTRY #
STATUS"
550 DISPLAY AT(14,1):"270 &
820 FLAG END OF ARRAY (F

OR-NEXT LOOP SHOULD BE ONE LONGER THAN ARRAY) "
568 DISPLAY AT(18,1):"298 US
ES 'PIO' PRINT OUTPUT"
570 DISPLAY AT(20,1):"528 IN
DICATES DIMENSIONS TO PR
OGRAM USER" :: GOSUB 668

588 DISPLAY AT(1,1) ERASE ALL :"DO YOU WISH TO:": :"1> SIM PLY USE ADDING MACHINE": :" or": :"2> INCLUDE IDENTIFY ING DATA" 590 DISPLAY AT(9,1):"e.g.,": : NAME/ID = DP&L (or check #) ": " SUBJECT = ELECTRICITY ":" AMOUNT = 69.69" 600 DISPLAY AT(15,1): PLEASE SELECT EITHER: :: :" 1>": or": :" 610 CALL KEY(0,K,S):: IF S(1 THEN 610 :: IF K=50 THEN 64 8 :: IF K<>49 THEN 610 ELSE 450 620 IF K=50 THEN 640 630 IF K<>49 THEN 610 ELSE 6 50 640 MANY=2 :: GOTO 148 650 MANY=1 :: GOTO 140

460 DISPLAY AT(23,8):"press any key" :: DISPLAY AT(24,9) :"to continue" 670 CALL KEY(0,K,S):: IF S(1 THEN 670 :: RETURN

680 DISPLAY AT(8,11): "ENTRY HALTED"
690 CALL HCHAR(15,1,32,384):
DISPLAY AT(15,1): "CHOOSE FROM THE FOLLOWING: ": : "(P) rint file": "(Q) uit": "(R) estart with same option"
700 DISPLAY AT(20,1): "(S) elect new options": "(T) o keep going ..."
710 CALL KEY(3,K,S):: IF (K(80)+(K)84)THEN 710 :: QN K-79 GOTO 720,840,140,520,820

726 DISPLAY AT(17,4): "RINT FILE" :: FOR PAUSE=1 TO 220 :
: NEXT PAUSE
730 DISPLAY AT(23,1): "WHERE?
" :: FOR PAUSE=1 TO 300 :: N
EXT PAUSE :: DISPLAY AT(23,1)

):"USE: 1> SCREEN OR 2> PRINTER"
748 CALL KEY(0,K,S):: IF K=4
9 THEN 750 :: IF K<>58 THEN
748 ELSE 298
750 CALL HCHAR(15,1,32,384):
: DISPLAY AT(16,1):"START WI
TH ENTRY NO. ?" :: ACCEPT AT
(16,24):ANS
760 IF (ANS=0)+(ANS(1)+(ANS)
X-1)THEN 750 :: IF MANY=2 TH
EN 780

770 FOR SHORT=ANS TO X-1 :: DISPLAY AT(16,1):"ITEM NO. " ;SHORT: :"AMOUNT =";AMOUNT(SHORT):: GOSUB 800 :: NEXT S HORT :: GOTO 690

780 FOR SHORT=ANS TO X-1 :: DISPLAY AT(15,1):"ITEM NO. "
;SHORT :: CALL HCHAR(16,1,32,32):: DISPLAY AT(17,1):"NAM E/ID = ";NAME\$(SHORT)
790 DISPLAY AT(19,1):"SUBJECT T = ";SUBJECT\$(SHORT): :"AMOUNT (SHORT):: GOSU B 800 :: NEXT SHORT :: GOTO 698

\$60 CALL KEY(0,K,S):: DISPLA
Y AT(23,4):"(N)ext Item or {
S>top?" :: IF K=83 THEN 698
::IF K()78 THEN 800::RETURN

810 CALL CLEAR :: CALL DELSP RITE(ALL):: CALL CHARSET :: RETURN

820 DISPLAY AT(8,5):"" :: CA LL HCHAR(15,1,32,384) :: IF X=21 THEN 690 830 DISPLAY AT(18,3):"To abo rt before reaching":" maximu m input, enter:"::: AMOUNT = -999" :: GOTO 190

840 CALL HCHAR(15,1,32,384):
: IF MANY()2 THEN 370
850 DISPLAY AT(15,8):"LAST I
TEM WAS:"
860 DISPLAY AT(17,1):"NAME/I
D = ";NAME\$(X-1):: DISPLAY A
T(19,1):"SUBJECT = ";SUBJECT
\$(X-1):: DISPLAY AT(21,1):"A
MOUNT =";AMOUNT(X-1):: END

GRAPHX Pictures

Announcing the latest advance in graphics companion products from the company that invented them on the TI-99/4A - GRAPHX Pictures! Unlike all others, this four-disk package of art work can be enjoyed without having to own any drawing program with the use of the revolutionary GRAPHX Slideshow program, commissioned from the master assembly programmer Paul Charlton (author of Fast-Term), that is included with this package.

GRAPHX Pictures contains 24 fully complete works of art, stored on disk in the popular GRAPHX format, and available for use by GRAPHX and TI-Artist owners in electronic greeting cards, as parts of business presentations, and for use within other art works. While other companion products give you little bits and pieces of art for use in your own work, GRAPHX Pictures contains full-size, hightly detailed drawings with literally hundreds of computer and non-computer applications. These works aren't just useful, they are also aesthetically some of the best art work ever created on the TI-99/4A, or on any computer for that matter. Each is a veritable gold mine of techniques and ideas for creating your own masterpiece. All will give you, and your friends that own Commodore's and Atari's, hours of enjoyment.

If this isn't enough, we've included our GRAPHX Slideshow, which allows you to simply and easily create high quality graphics presentations. This program gives you full control over the timing and order over your picture slideshow, but unlike other such programs, no programming knowledge is required to quickly and easily create complex business, commercial, home or school presentations.

The price for over 320K of artwork and a useful new assembly program by Paul Charlton? Only \$16.50 with shipping included in the price! GRAPHX Pictures requires either the Editor/Assembler, Extended BASIC, or Mini-Memory cartridges, 32K and a disk system. Either GRAPHX or TI-Artist (v2.0) is required to alter or add to the pictures. This package is compatible with all disk drive controllers and RAM-disk peripherals.

\$16.50



Asgard Software P.O. Box 10306 Rockville, MD 20850



DELAWARE VALLEY USERS GROUP: JULY 1986 \

USER GROUPS NEW ON DAUG'S LIST

CLEVELAND Area 99-4A Users Groups Newsletter, P.O. Box 23283, Euclid, DH 44123 (4 groups), BBS: (216)944-1872

K-TOHN 99'ers, c/o Hike Dodd, 116 Richards Drive, Oliver Spring, TN 37848 (Knoxville)

TITEX User Group, c/o Editor, Jay S. Leber, 36 Fox Place, Hicksville, NY (Long Island) 11801 BBS: (516)475-6463

All have very informative newsletters.

ALIVE AND WELL LIVING IN ...

The TI-RUNNER USER'S GROUP, Sonia Gagnon, Corresp.Secretary, 1838 Rundle Crescent N.E., Calgary, Alberta CANADA TZE 5H2 has sent copies of their 12-pg monthly and breezy booklet newsletter to show they're alive. Try writing to their new Secretary for exchanges. The newsletter is called "HARD COPY", and they use an interesting print process.

INTELPRO, now at 13 Saratoga Dr., Kirkland, Quebec, Canada H9H 3J9, also has a new telephone listing, which can be obtained from Hontreal operators at (514) 555-1212. It was not confirmed by publishing date.

PATIUG (Philadelphia Area) made a location shift for the first of their two monthly meetings. Ist Saturday is now at Bucks County Youth Development Center, off Neshaminy Mall exit from U.S.1 Northbound, one mile from Street Road. 3rd Saturday still at La Salle College, 28th & Olney St., Rm.H-141 in Philadelphia. Both meetings at 10 A.M. DVUG visitors are always welcome.

(Donald) THOMSON SOFTMARE moved to 436 LeTour, Rochester MI 48863.

NOTICE TO DATA BUS READERS

New! New! New!

!!! PLEASE ADVISE VENDORS THAT YOU'VE READ OF THEIR PRODUCTS IN The Data Bus OF THE DELAWARE VALLEY USERS GROUP !!!

NEW PRODUCTS:

From RYTE DATA, 210 Mountain St., Haliburton, Ont. CAMADA KOM 180:

GPL Assembler (uses 32K,Disk,E/A) \$59.95; INTERN Book (200+ pg.) of ROH/ GROH listings \$17.95; TOGETHER: \$75.00

128K RAM/GRAM Card (TI/CorC/Myarc Disk Controller compatible) ALLORS YOU TO DOWNLOAD MODULES, many features, can use 2 in PE Box for 1 meg memory! By itself \$249.95; with GPL pkg., \$310

99 Mouse & software, \$98.

Soon available: 80 Column card, 5—slot module holder w. disk drives, and many other goodies. Info: (705)457-2774 Ask about shipping charges.

CSGO USER DISKETTE #3, #18.95 as noted in THE DATA BUS last month, will cost an extra \$1.56 for shipping and handling, if ordered from Texaments in Long Island instead of from the author Dave Rose in Chio.

You'll need the basic CSGO set at \$17.95 to run the updates. Specify the printer brand when you order.

MIKE DefRowk, 4374 NM 9th Street, Pompano Beach, FL 33064 is offering TI FORTH UTILITY SYSTEM for Disk, 32K and E/A users. \$19.95 by check or money order obtains improved 40- and 64-col. screen editor, 9900 Code Disassembler, Forth Decompiler, Fast Screen Dump (in double or normal size), source codes, documentation, much more ...

Teacher GRADE MANAGEMENT PROGRAM; Define grade criteria, print progress reports, calculate averages, different grade curves, etc. Use Check or Money Order; unconditional 38-day guarante from JSTI Software, 78 Stanson Dr. N. Attleboro, MA 82768, on Disk, 32K, XB with printer option, \$15.58 & \$1 s/h.

KUCKABURRO SPELLING, on tape, XBasic, printer optional, \$7, or send a blank tape and mailer, with later Fairware contribution, to LARRY P. MORGAN, 9 Fountain Lake Dr., Greenfield, IN 46148 Tests and saves spelling words.

TI HARDWARE REPAIR is offered by MICRO-REP, 4413 Cornell Drive, Garland TX 75042, who will provide an estimate for repair/replacement, if you send a description of the trouble Cincluding 3rd party items). I THE DATA BUS has previously noted this individual as an employee of TI, active with Texas User Groups. I A useful reference in light of local TI exchange center closings, and backlogs at TI in Lubbock, which is reportedly trying to certify local User Groups as help sources.

STEVE PATTERSON is offering both Disk Manager and File Reader 1002, for \$7, inclusive. The former performs the usual manager tasks, but also combines and converts file types, and will run programs.

File Reader loads, saves any D/F, D/V,I/F,I/V file into memory. Both are 16K XB disk programs, available from Steve at 2351 Ragan Hood, Toledo, OHio 43614.

TROLLS, for one player on tape or disk, is an XBasic treasure hunt game. Check or money order for \$9.99 plus \$1 s/h to author MICHAEL FREEMAN, P.O.Box 33, Lawrenceville, IL 62439.

LAST BUT NOT LEAST...

DVUG member NORH SELLERS is now in HICROpendium's Fairware listings and accepting requests for his MUSIC PRE-PROCESSOR (demonstrated at recent DVUG meetings), if you send 2 SS/SD disks, mailer and postage (normally \$.39) to Norm at 15 Dorset Drive, Broomall, PA 1988. XB and 32K required.

1986 GRO JP:

MISCELLANEOUS PROGRAMMING TIPS

Machatronic's Extended Basic runs with 32K, not 128K, in contrast to the Myarc Extended Basic - which needs the 128K ROMDisk at a minimum. That memory cost factor may affect XB purchasers.

To install FUNDERITER on RAMDisk, change the "LOAD" program to another name, such as "LOAD/FUNL". Then write your own loader, such as a simple: 106 RUN "DSK1.LOAD/FUNL"

Some Hyanc RAMDisk owners have reported trouble using FUNLHRITER and the RAMDisk. This suggestion is from the NH Ohio 99er News, whose members use the Horizon 192K RAMDisk.

An unusual printer tip from FLU6, the TI employees' User Group, for the S618, not documented in the manual:

To enter Star HEX mode, turn the printer off, press the LINE FEED and FORM FEED buttons down then turn power off. Hold switches down a few seconds until you hear a "BEEP" then let qo.

Any data you thereafter send to the printer will print in two forms, a HEX dump of the ASCII data, as well as the ASCII data on the line. Readers who find unique uses for this should elaborate in a brief article, for use by others.

delete the zero>8123456789 123456789 1

YOUR RENEW

I I OTHER USER GROUP NEWSLETTERS DISCUSS :

Cleaning console cotacts; in Erie 99er Newsletter, Vol.3:4 (May), 3 pgs.

Ron Albright's review of Clint Pulley's c99; New JUG News (March).

Discussion of "c" appears in New Hampshire 99ers newsletter (Feb.), p. 5-6.

Extensive discussion of readings in FORTH; MSP 99 Newsletter (Feb.), p. 7-8, 12.

A thorough comparison/contrast of the foreign-born BA-MRITER (Italy) vs. FUNLHRITER word processors (from Australia); LA 99ers TOPICS (April), p. 16-18.

Another use of Personal Record Keeping commands; ROM Newsletter (Apr.), p.5-6. For full description of those commands, send \$1 and wide SASE to Home Computer User Group of Orange County, 17301 Santa Isabel Street, Fountain Valley, CA 92708. Mark your letter for "PRK Reprint" (originally ran in February, 1985).

Tips on centering TI-MRITER text, repardless of font;HSP 99ers(Hay),p.4.

...789 123456789 bKextra space here. 8 7

ZAP THE ZERO, by Paul 6. Lanoie, New Hamshire 99ers (Feb. 1986) Newsletter [using the TI-Mriter Editor - Ed.]

... When you need to set your margin and tabs, you enter the COPPAND mode and select the TABS option. Ever notice how the first column is numbered 0, and the last column is numbered 79? So when you need a left margin of 6, you have to set the L at 5, and when you need a right margin of 74, you have to set the R at 73? A little strange and aggrevating, ISN't it. Hell, you can ZAP the ZERO!!! and make column 1, column 1, etc.

... the changes were made using Miller Graphics' Advanced Diagnostics, however I'm sure that DISKO or other disk access programs would allow you to do the same.

Look at the last sector of the EDITAL file (sector 67 on the original TI-Hriter disk). Displaying in ASCII, you will see at bytes 77 thru 242 the text for the column numbers. When you get done, the text must still be at bytes 77 thru 242. Delete the zero, then pad a space in at the end of what would be the 1st line displayed in the TABS mode, ("b" means space)

Actually, from what I can figure, you can put anything you want in these bytes, so long as it uses the same bytes, 77 thru 242. The object of the spaces of course is to keep everything lined up for a proper display.

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TTTT *********** DELAWARE VALLEY USERS' GROUP T FIRST P.O.BOX 6240 T CLASS STANTON BRANCH T MAIL WILMINGTON, DE 19804 T T T Subscription 3/ TO: T expires with date on label T 1 T I 0000 FOREST LANE USERS GROUP T JOE GILLO - 4413 CORNELL DR Ī Ŧ

- Thank you!

GARLAND

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