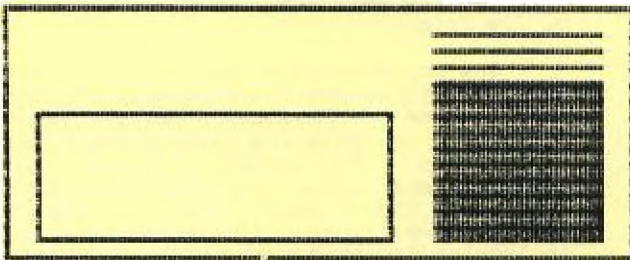


Delaware (019)

cut 86



MARK THIS DATE: MON. OCT. 20, DEPTFORD - MYARC 'S LOU PHILLIPS AND GENEVE!



THE
DATA
BUS

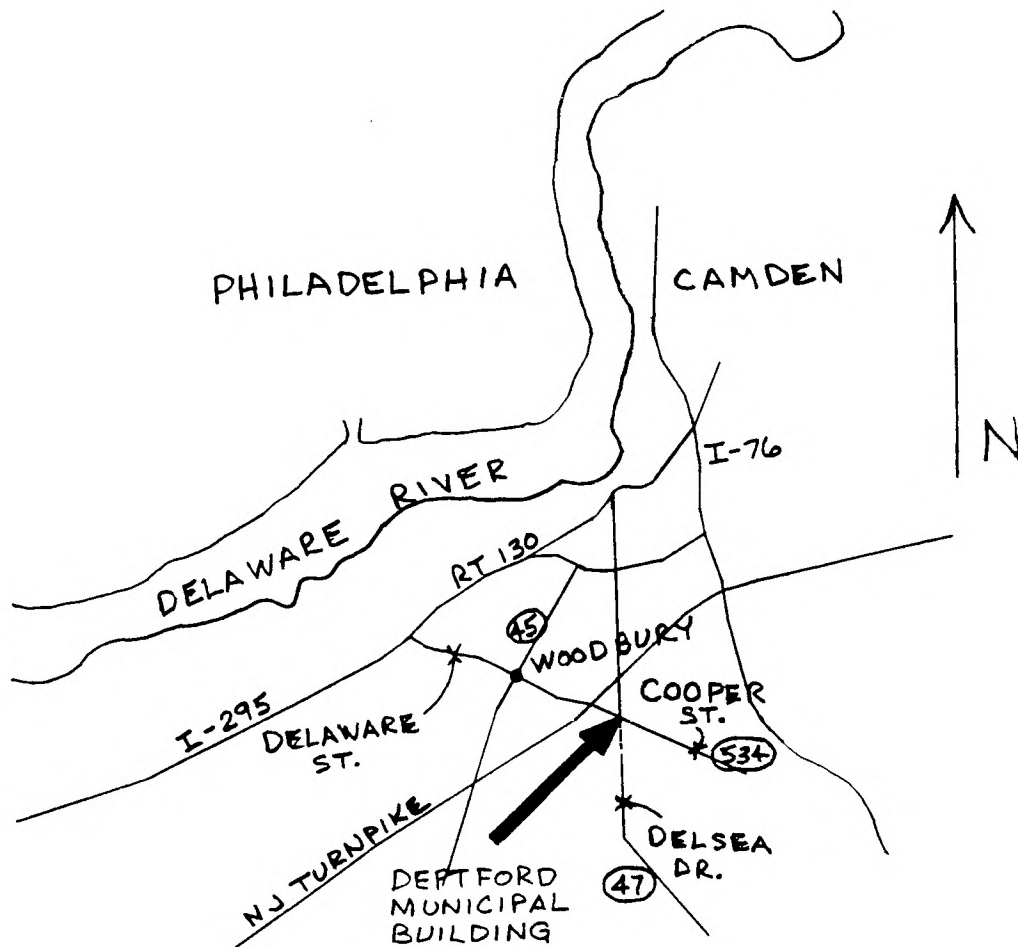
ISSUE :
VOL. 4
NO. 9
- - -
OCT.
1986

THE DELAWARE VALLEY USERS GROUP
DEDICATED TO THE TI AND COMPATIBLE HOME COMPUTER FAMILY

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

4TH THURS. 6:30-9:30 P.M. CHRISTIANA MALL COMMUNITY ROOM

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2ND THURS. 7:00-9:00 P.M.	<MEETING>	3RD MONDAY 6:45-9:00 P.M



DELAWARE VALLEY USERS GROUP: OCT 1986

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

PLEASE TRANSMIT YOUR NEWSLETTER COPY TO: The Data Bus Editor ---- Jim Folz, Telephone (302)995-6848, or use the DVUG mailing address shown on Page One. NEWSLETTER COPY WILL NOT BE ACCEPTED FOR AN ISSUE AFTER THE 2ND THURSDAY OF EACH MONTH.

An article appearing in The Data Bus may be reproduced for publication by another II User Group as long as acknowledgement is given to the sources as indicated. We encourage exchange newsletters; mail to DVUG business address shown on Page One.

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 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

DELAWARE VALLEY USERS GROUP MEETINGS

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.

DELMARVA CHAPTER: Kent County Courthouse, Basement Conference Rm #25, Green & State Streets, Dover, Delaware. Use the Green St. side entrance.

SO.JERSEY CHAPTER: Deptford Municipal Bldg, Cooper Ave. and Delsea Drive, (Rtes. 534 & 47), in Gloucester County. Enter and park in rear of the building.

CONTENTS OF THE OCTOBER ISSUE OF THE DATA BUS:

NOISE on The Data Bus	Page 2
Messages - President/Chapters	Page 3
Paid Advertisements	Pages 4,8
DVUG Software Library Notes	Page 5
The ON Statement	Page 6
Extended Basic Errors Sorted By #	Page 7
Disk To Tape/Tape To Disk Conversion	Page 9
Base Conversion Program	Page 10
Fast File Transfer Without The TEII	Page 10

NOISE on The Data Bus
 by Jim Folz

One could write a book on the qualifications necessary to become the Newsletter Editor. (Don't worry, I won't.) Obviously, being able to spell is a asset. A graduate level Cut-and-Paste course would help. Fortunately for me, DVUG only requires good looks. Had they required mastery of II-Writer, then I would have known that the * is used in maillists. (It seems that the formatter is looking for an * followed by two numbers while doing its thing.) Then I would not have needed a corrections section. Thanks go out to Mike Dodd, Editor of The K-Town 99er, and others who have tried (or will try) to keep me straight. Now for the goodies.

On Monday, October 20, Lou Phillips (Myarc) will address the South Jersey Chapter. Please see the map on Page One for directions.

On Saturday, November 1, the Chicago-Area II-99/4A Users' Group will hold their Fourth Annual II-Computer Faire. Place - Ironwood Room, Triton College, 2000 North Fifth Avenue, River Grove, IL. Time - 9 AM to 6 PM.

On Saturday, October 18, a Philadelphia Area Computer Fleamarket/Sale will be held at the Valley Forge Convention Center (Route 363 and First Avenue, King of Prussia, PA). Time - 10 AM to 4 PM.

Looking for an electronic spreadsheet that runs in Extended Basic and is available in disk or cassette forms. 99-CALC For more information, contact Phil Barnes, 24631 Via San Fernando, Mission Viejo, CA, 92692.

If you are looking for the 2NLS256 chip mentioned in the keyboard article (Sept 1986 Databus), you will probably have better luck if you look for a 7NLS256. The 2NLS256 chip was an error.

Still looking for that II computer users forum? Well it is on Compuserve (so I forgot a detail). That is where you use the GO TEX-200 command.

The K-town 99ers report of DM1000 problems in their October 1986 issue. Apparently, you should not delete a 1 sector file with DM1000. It is reported that the computer interprets this as "sector 0 -unused". The next write to the disk wipes out sector 0. The disk then becomes unusable. "DELETE "DSKfilename"" in BASIC is the suggested method for deleting 1 sector files. FCTN-S is also reported as inoperable during initialization of disks with 10 character disknames.

The program for the next meeting at Christiana Mall will be "Handling Menus". The program will be lead by Jim Davis and he is on a hot streak. Don't miss this presentation.

Attention Corcomp Users - Millers Graphics has disk controller upgrade PROM chips. The BBS has a good article on the new features of the upgrade. Several new CALLs have been added and the title screen has been removed. Some Editor/Assembler loading/running can be done from XBASIC. Disk handling/access is improved and some bugs have been fixed. Price - \$34.95 including shipping.

DELAWARE VALLEY USERS GROUP: OCT 1986

NOISE - FROM PAGE 2

Constitutional Amendments - At the last meeting of the DVUG - Christiana Mall, several amendments were proposed by President Tom August. We have two chapters now and we need to add some articles to recognize them formally. Other amendments were proposed from the floor. Come and exercise your right to vote.

South Jersey Chapter Notes
by Errol Lansberry

We would like thank Gus Lewis and his group from the Somers Point Club for attending our September meeting. We also welcome and encourage other groups and chapters to do the same.

As most of you know by now, Lou Phillips from MYARC is scheduled to be our guest speaker at the October 20th meeting in Deptford. (SEE MAP in this newsletter.) This meeting is scheduled to start at 6:45 P.M. Please be prompt.

As chairman, I would like to take this opportunity to thank John Piklo who just assumed duties as refreshments person, Butch Fisher for all his work on the library, Stephen Dowling as equipment person and all the others who have helped to make the South Jersey Chapter so successful.

1986													
JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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12	13	14	15	16	17	18	16	17	18	19	20	21	22
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26	27	28	29	30	31								
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11	12	13	14	15	16	17	15	16	17	18	19	20	21
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JULY							AUGUST						
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							31						
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14	15	16	17	18	19	20	12	13	14	15	16	17	18
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9	10	11	12	13	14	15	14	15	16	17	18	19	20
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23	24	25	26	27	28	29	28	29	30	31			
30													

COMPUSERVE BBS CLAIMS DOWNLOAD COPYRIGHT VIOLATION
-- Jack Shattuck, DVUG Software Library Service --

Compuserve Information Service (CIS) recently raised the ante on arguments made last year, that offering downloaded public domain programs which were obtained from CIS, via others' Bulletin Board Systems, could subject the second BBS to copyright infringement legal action from Compuserve.

InfoWorld (Oct. 6) carried reproduction of a warning letter sent by CIS attorneys to an Apple Users Group BBS System Operator. Noting that their customer agreement with each CIS user "expressly prohibits any reproduction, sale, publishing or any commercial exploitation of information obtained through the Information Service", CIS argued that any use of the Service without consent would be seen as violating the 1976 Copyright Act.

The offending SysOp, according to InfoWorld's article, had left a message on the CIS Apple forum informing others about his BBS, noting he had some of the public domain software obtained from CIS on his board and available for downloading. Following receipt of the CIS attorney's letter, the SysOp in question cancelled his Compuserve subscription and temporarily shut down his BBS.

David Kishler, CIS assistant manager, advised SysOps who wished to use public domain software to get it directly from the authors. Many TI-99/4A public domain software items are made available for local BBS use by running on CIS, which is used for more rapid and broader distribution. Arguments may be compared to those made but never taken to court by Charles LaFara of the International 99/4 Users Group Inc., discussed in The Data Bus, Vol. 3, No. 4 (May, 1985), on page 3. Former CIS SysOps and others are known to disagree with CIS's stance.

SOFTWARE LIBRARY - FROM PAGE 1

NOTE TO ALL TI USERS: COMPUTE! Magazine gave explicit license to provide usable copies for all User Group COMPUTE! subscribers, in their issue of September, 1983 (Vol. 5, No. 9, page 10), for the reason that "some of the programs are long and take some time to enter into the computer."

Future issues will include reviews of some of the many library programs available, as well as a listing of the exact titles in the Tape/Disk-of-the-Month, available starting November, 1986. If you have suggestions, call/write/modemize me!

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DELAWARE VALLEY USERS GROUP: OCT 1986**DVUG Software Library Notes**
by Jack Shattuck

All DVUG members should have a copy of DVUG's November 1985, software catalog listing. It was published on paper, and is also available on disk, in a format allowing the user to print to either a hard copy (paper) or screen any one of the six different subject area listings.

If you don't have a copy, you can obtain one from the software chairperson at any of the three DVUG meetings held each month, or you can write to me, Jack Shattuck, 2 Colony Boulevard, Apt. 101, Wilmington, DE 19802. Enclose a check payable to DVUG for \$1 to cover the disk, if you prefer it in that format. (We can't call the 6 files from tape - if you use that medium, ask for a paper copy.) There is no charge to members for one copy of the listing on paper.

My phone number is (302)764-8619 after 6 p.m. If you're reading this in The Data Bus and are not a DVUG member, please write to DVUG, PO Box 6240, Stanton Branch, Wilmington, DE 19804.

Items are listed in our catalog with both an identifying number and the disk file name we use, as well as a short description. For example, the first page of the 1985 catalog includes a program, 1F1 BEETMEDLEY, which was listed as "a Beethoven medley with graphics."

The first number (1) indicates the program's language using this code:

- 1- BASIC
- 2- XBASIC
- 3- Editor/Assembler
- 4- Terminal Emulator II BASIC (needs the II Speech Synthesizer)
- 5- LOGO
- 7- Text Files (D/UBO).

There are six subject areas we use--

- A) Business/Professional Utilities
- B) Education
- C) Games
- D) Programming Utilities
- E) Household Utilities
- F) Music

The second character (F) indicates the topic area, as described above; in this case, Music.

The third item (1) merely indicates which one of the category 1F disks in DVUG's library has the program; in this case, the first one.

When ordering a program, you may do so either at or before a meeting. Obtaining a program from the DVUG Library is an option available to members only. (Other User Groups can write DVUG for group program exchange info.) A donation of \$1 for each tape or disk of programs is sought to meet library operating costs for DVUG. If you are requesting that a tape or disk be made for you, instead of being copied onto a medium which you have provided in advance, an additional \$1 for the cost of that tape or disk is requested from you.

Use a check made out to the Delaware Valley Users Group if you are mailing this request to the software librarian, or pay it at the time of the exchange at a meeting. We will normally allow time at each meeting for disk copying - tape copying is more time-consuming, and should be specified prior to the meeting.

There's an exception to that. Starting at the November meeting, a tape/disk-of-the-month will be available with a preselected sampling group of our library programs. If we have dubbing equipment at your meeting, the tape can be copied

at that time. Otherwise, you'll need to make arrangements for a subsequent copying and delivery time for a tape.

NOVEMBER TOPIC: CHRISTMAS SONGS/GRAPHICS.

The 1985 catalog will be updated as rapidly as possible. We have acquired numerous additional programs including contributions from TI; public domain from other User Groups, bulletin boards and individuals; plus several Fairware offerings. Don't forget to check your free TIBBS downloads as well.

Among software acquired by DVUG not appearing in the 1985 catalog are the following in Fairware, my preferred term for try-it-you'll-like-it-then-send-your-cash-acknowledgment (typically \$10):

Several c99 disks, language developed for TI by a programmer in his 20's who recently died from Cystic Fibrosis.

CALENDAR by Richard Bailey, who got only one contribution and therefore announced his avoiding any future such efforts. (TRIVIA 99er, in DVUG's earlier catalog, was withdrawn from circulation by author Robert Wessler for a similar reason.)

FAST TERM is the preferred terminal emulator program for DVUG users, allowing 300/1200 Baud and XModem data transfers between computer systems.

FAST TRANSFER, allowing a rapid and full-disk modem transfer of files.

FUNNELWRITER allows Assembly Language utility programs to be inserted into a "systems disk" menu which already includes an updated II-WRITER, c99 and other options.

GRAPHICS JACKET, designing attractive sleeves for your disks through a printer program, as well as a II-Runner type treasure hunt/avoid 'em game, i.e. MAD ROBOT, both from the Syracuse User Group.

TECHIE and TIBBS Version 5.0 (the latter now running on all three DVUG BBS's), operating system programs to run your own BBS.

That's just to give you a sampling. Without further obligation, we have several of TI's Public Domain releases, including some early programs not issued commercially, and utilities such as the TI improvements to Multiplan and II-Writer, the FORTH source codes and manual, and other like items.

To explain some of the delay in getting other program info into the catalog, you need to know of the undocumented condition of many files exchanged from other User Groups. Some are the same as DVUG already has, under different names. Others had all REM author references removed, which requires some screening on our end to avoid copyright problems.

As I had been a subscriber to 99'er Magazine since the end of Vol. 1, plus its subsequent Home Computer Digest/Journal/Magazine permutations, as well as a past President's Club member of Charles LaFara's International 99er User Group, and also a COMPUTE! subscriber during 1983-85 and their many paperbacks, I hope to use that familiarity to get the duplicates/restrictions clarified as rapidly as possible. I also get Family Computing.

Let us reiterate DVUG's basic support of the 1980 amendments to the Copyright Act, whereby DVUG will provide a workable software copy of magazine software we have, IF the user has an issue of that original magazine and has had difficulty typing it into usable form. However, such published programs are copyrighted and cannot be released for general exchange and distribution. That will be noted in the next DVUG software catalog listing issued.

The ON Statement

Jim Davis

The "ON" statements are enhancements to the original BASIC LANGUAGE (Beginners Allpurpose Symbolic Instruction Code). This note will discuss the use of ON X GOTO ... and ON X GOSUB ... and the specialized ON ERROR and ON WARNING statements.

A common program construction involves the use of several possibilities for program execution;

```

100 PRINT " 1= MAKE IT GREEN"
110 PRINT " 2= MAKE IT RED"
120 PRINT " 3= GO AWAY"
130 INPUT "INPUT OPTION NUMBER",X
140 IF X=1 THEN GOTO 1000
150 IF X=2 THEN GOTO 2000
160 IF X=3 THEN GOTO 3000
170 GOTO 100
  
```

This can get messy and use a lot of space when there are many options. The same can be accomplished as follows;

```

100 PRINT " 1= MAKE IT GREEN"
110 PRINT " 2= MAKE IT RED"
120 PRINT " 3= GO AWAY"
130 INPUT "INPUT OPTION NUMBER",X
140 ON X GOTO 1000,2000,3000
150 GOTO 100
  
```

This is more compact and faster to execute (as if speed here were a problem). There are cute ways to make the menu resulting from lines 100-130 more natural (user friendly is the current buzz word), but these programming ideas will be discussed in a subsequent note.

There are times when, for example, a math program will produce warnings resulting from division by zero. At times this can be a nuisance, especially when the default value (a very large number) gives the anticipated results. Other times the warning should never occur and its occurrence is a sign of badness. These conditions can be handled to your liking by using the ON WARNING command. In the first case where no warning message is desired, use the following

```
100 ON WARNING NEXT
```

In the second case where the program execution should stop before any more damage is done use

```
100 ON WARNING STOP
```

Finally, to return to the usual situation where a warning is printed and the program execution continues, use

```
900 ON WARNING PRINT
```

Another situation is the BASIC interpreter response to an error, such as a disk access when no disk is present, or access of a non-existent program, or non-numeric input to a numeric variable. Using ON ERROR and CALL ERR you can tailor the action to suit your preferences.

```

10 ON ERROR 9000
20 TRUE= 1
...
...
300 NODISK= 0
310 OPEN DSK1.BEEF FOR INPUT AS #2
320 IF NODISK= 0 GOTO 400
330 PRINT "WHERE'S THE BEEF DISK"
...
...
9000 : * ERROR HANDLER
9010 : L E: (ECODE,ETYP,ESEV,LINE)
9020 IF ECODE = 06 THEN GOTO 9100
9030 PRINT "ERROR ";ECODE;" IN LINE ";LINE
9040 STOP
9100 NODISK= TRUE
9110 ON ERROR 9000
9120 RETURN
  
```

Of course, the main part of the program will have to take appropriate action when "NODISK" is true, and reset NODISK to false before the next disk call. Note the ON ERROR command needs to be reissued following every occurrence of an error. The similarity of the error handler to a subroutine is intentional. However in one respect it is different in that the RETURN can be "RETURN ", ie. the next line to be executed is rather than the line following the GOSUB (or error in this case).

Programs that use the ON ERROR construction may not appear logical, as in 300-320 above. Through no obvious step, NODISK changed from 0 to not 0. This kind of program construction is similar to that used for hardware interrupt servicing.

DELAWARE VALLEY USERS GROUP: OCT 1986

EXTENDED BASIC ERRORS SORTED BY #
R suffix= RS232 card errors

00R CAN'T OPEN DEVICE (OPEN)
02R BAD OPTION (OPEN)
06R SOFTWARE ERROR, CAN'T OPEN (OPEN)
10 TIME-OUT (REFLOW)
14 SYNTAX ERROR
16 ILLEGAL AFTER SUBPROGRAM
17 UNMATCHED QUOTES
19 NAME TOO LONG
20 UNRECOGNIZED CHARACTER
24 STRING-NUMBER MISMATCH
24R BUFFER TOO SMALL (INPUT)
25 OPTION BASE ERROR
26R HARDWARE ERROR OR "CLEAR" (INPUT)
28 IMPROPERLY USED NAME
36 IMAGE ERROR
36R HARDWARE ERROR (PRINT)
39 MEMORY FULL
40 STACK OVERFLOW
43 NEXT WITHOUT FOR
43R ILLEGAL COMMAND
44 FOR-NEXT NESTING
47 MUST BE IN SUBPROGRAM
48 RECURSIVE SUBPROGRAM CALL
49 MISSING SUBEND
50R CAN'T LOAD (OLD)
51 RETURN WITHOUT GOSUB
52R BAD OPTION (OLD)
54 STRING TRUNCATED
54R PROGRAM TOO LARGE (OLD)
56 SPFL... STRING TOO LONG
56R HARDWARE ERROR (OLD)
57 BAD SCRIPT
60 LINE NOT FOUND
60R CAN'T SAVE TO DEVICE (SAVE)
61 BAD LINE NUMBER
62 LINE TOO LONG
62R BAD OPTION (SAVE)
66R HARDWARE ERROR (SAVE)
67 CAN'T CONTINUE
69 COMMAND ILLEGAL IN PROGRAM
70 ONLY LEGAL IN A PROGRAM
73R ILLEGAL COMMAND
74 BAD ARGUMENT
78 NO PROGRAM PRESENT
79 BAD VALUE
81 INCORRECT ARGUMENT LIST
83 INPUT ERROR
83R ILLEGAL COMMAND
84 DATA ERROR
93R ILLEGAL COMMAND
97 PROTECTION VIOLATION
109 FILE ERROR
130 I/O ERROR
135 SUBPROGRAM NOT FOUND

This is just a few of the dealers who supply the TI 99/4(A) community. Pretty good support for an "orphan" computer!

Asgard Software
P. O. Box 10306
Rockville, MD 20850
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(800)446-4462 + 897335 at tone

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South Bend, IN 46660
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(800)348-2778 Order
(219)259-7053 Order Status

Tex-Comp
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Granada Hills, CA 91344
(818)366-6631

Triton Products Company
P. O. Box 8123
San Francisco, CA 94128
(800)227-6900

DISK ERROR CODES

FIRST DIGIT

0 OPEN
1 CLOSE
2 INPUT
3 PRINT
4 RESTORE
5 OLD
6 SAVE
7 DELETE
9 EOF

SECOND DIGIT

0 DISK DRIVE NOT FOUND
1 WRITE PROTECTED
2 BAD OPTION
3 ILLEGAL OPERATION
4 FULL (DISKETTE OR # FILES)
5 ATTEMPT TO READ PAST EOF
6 DEVICE ERROR (NOT INITIALIZED OR HARDWARE)
7 BAD FILE, DISKETTE NAME, OR FILE TYPE

It all began on August 17, 1985 with a unique new graphics package that startled the 99/4A world with it's fresh approach, and was hailed by MICROpendium as the best value... ever. Thus was born GRAPHX Companion.

On June 1, 1986 we again introduced a package that all the "experts" said would never make it. GRAPHX Pictures is still turning heads and showing everyone that graphics can be useful as well as beautiful.

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For information or to order call (301)345-2492 (8AM - 8PM E.S.T.)

Topics - LA Users

- DISK TO TAPE AND TAPE TO DISK CONVERSION PROGRAM
- TOM FREEMAN
- 515 ALMA REAL DR.
- PACIFIC PALISADES, CA 9D272
- FOR USE WITH PROGRAMS MEANT TO BE LOADED BY THE RUN
- PROGRAM FILE OPTION (#5) OF E/A. IT MAY BE USED FOR
- OTHER, NON STANDARD, FILES, BUT IN THAT CASE THE TWO
- INSTANCES OF BL @CHANGE SHOULD BE DELETED, AND THE
- 4TH WORD OF EACH PAB SHOULD BE REPLACED BY >XXDO.
- WHERE >XX IS THE HEX EQUIVALENT OF THE NUMBER OF
- SECTORS TAKEN UP BY THE PROGRAM (PER DISK CATALOG)
- # SECTORS. IF THE ORIGINAL FILE IS ON TAPE AND THIS
- NUMBER IS NOT KNOWN, USE >2F, THEN CHECK THE DISK
- FILE WITH A SECTOR EDITOR TO SEE WHERE SECTORS BEGIN.
- THE PROGRAM CAN THEN BE RERUN WITH THE PROPER NUMBER.
- NOTE: BECAUSE OF THE REF'S TO GPLLNK AND DSRLNK, THE
- PROGRAM WILL ONLY WORK WITH E/A. IT IS CALLED FROM
- BASIC - LISTING FOLLOWS.

```

DEF  DISTAP,TAPDIS
REF  DSRLNK,GPLLNK,VMBW,VMBR
STATUS  == >B37C
FAC     == >B34A
PAB     == >OF80
PNTR    == >B356
WS      == >B300
      == >B300
  
```

- THE FOLLOWING IS THE DISK FILE
- AND HAS BEEN PREPARED FROM BASIC

```

PABDSK DATA >0500,>1000,0,>2000
      BYTE 0
      BYTE 0          LENGTH BYTE
      BSS 15          FILE NAME
  
```

- THE FOLLOWING IS THE CASSETTE FILE
- IF USING CS1 FOR INPUT IN "RUN PROGRAM FILE" IN E/A
- USE CS1.X AS DEVICE NAME, NOT CS1

```

PABCS  DATA >0600,>1000,0,>2000,>6003   LAST WORD IS SCR OFFSET & LEN BYTE
CS1    TEXT 'CS1'
SAVE   BYTE >06
LOAD   BYTE >05
SAVRTN DATA 0
DISK   LI 0,PAB
      LI 1,PABDSK   LOAD PAB FOR DISK FILE
      LI 2,25
      BLWP @VMBW
      LI 6,PAB+9
      MOV B,@PNTR
      BLWP @DSRLNK
      DATA 8
      RT
CHANGE LI 0,>1002   2ND WORD CONTAINS # BYTES IN FILE
      LI 2,2       AND BELONGS IN 4TH WORD OF PAB(R1)
      BLWP @VMBR
      RT
TAPE   LI 0,PAB
      LI 1,PABCS
      LI 2,13
      BLWP @VMBW   SET UP CASSETTE PAB TO SAVE
      LI 1,PAB+13  1ST CHAR AFTER PAB MUST BE AT PNTR
  
```

```

MOV 1,@PNTR
LI 1,>0800
MOV 1,@B36D >B36D MUST CONTAIN 8 (DSR CALL)
LI 0,PAB+10
LI 1,FAC
LI 2,3
MOV 2,@PNTR-2 >B345-5 MUST CONTAIN NAME LEN (3)
BLWP @VMBR   FAC MUST CONTAIN DEVICE NAME
CLR @B3D0 >B3DD MUST CONTAIN 0
MOV @B3D0,@STATUS CLEAR STATUS BYTE
BLWP @GPLLNK BRANCH TO THE DSR
DATA >3D
RT
DISTAP MOV 11,@SAVRTN
      LWPI WS
      MOV @LOAD,@PABDSK PREPARE DISKFILE FOR LOAD
      MOV @SAVE,@PABCS " TAPE " " SAVE
      BL @DISK
      LI 1,PABCS+6
      BL @CHANGE
      BL @TAPE
      JMP RETURN
TAPDIS MOV 11,@SAVRTN
      LWPI WS
      MOV @LOAD,@PABCS PREPARE TAPEFILE FOR LOAD
      MOV @SAVE,@PABDSK " DISK " " SAVE
      BL @TAPE
      LI 1,PABDSK+6
      BL @CHANGE
      BL @DISK
RETURN CLR 0
      MOV @STATUS
      MOV @SAVRTN,11
      RT RETURN FROM THIS PROGRAM
      END
  
```

```

=====
this is the basic program that runs the above file,
if it is assembled under the name DISKTAPE/0
=====
100 DNAME=4096*3+9
110 CALL INIT
120 CALL LOAD("DSK1.DISKTAPE/0")
130 INPUT "DISKFILE TO SAVE/LOAD " :NAME#
140 LE=LEN(NAME#)
150 CALL LOAD(DNAME,LE)
160 FOR X=1 TO LE
170 CALL LOAD(DNAME+X,ASC(SEG$(NAME#,X,1)))
180 NEXT X
190 PRINT "PRESS D. DISK TO TAPE:" OR T. TAPE TO DISK"
200 CALL KEY(O,K,S)
210 IF S=0 THEN 200
220 IF K=68 THEN 260
230 IF K<>84 THEN 200
240 CALL LINK("TAPDIS")
250 GOTO 270
260 CALL LINK("DISTAP")
270 PRINT "DO ANOTHER? Y/N":I
280 CALL KEY(O,K,S)
290 IF S=0 THEN 280
300 IF K=89 THEN 130
310 IF K<>78 THEN 280
320 STOP
  
```

DELAWARE VALLEY USERS GROUP: OCT 1986

Base Conversion Program
by Jim Folz

I found this in a newsletter the other day and I had to have it. I am pretty sure it is not in its original form since I had to go in and fix it. It works now.

```

10 ! By Barry Traver
100 CALL CLEAR
110 INPUT "NUMBER?":NS
120 INPUT "FROM BASE?":F
130 INPUT "TO BASE?":T
140 CALL NUMCON(NS,F,T)
150 PRINT "THE ANSWER IS ";N
$
160 CALL KEY(O,K,S)
170 IF S<>1 THEN 160 ELSE 10
0 :: REM INSERT YOUR PROGRAM
HERE
3000 SUB NUMCON(NS,F,T)
3010 D=O
3020 L=LEN(NS)
3030 FOR I=1 TO L
3040 P=POS("0123456789ABCDEF",SEG$(NS,I,1))-1
3050 D=D+P*(L-I)
3060 NEXT I
3070 NS=""
3080 Q=INT(D/T)
3090 R=D-T*Q
3100 NS=SEG$( "0123456789ABCDEF",R+1,1) & NS
3110 IF Q=0 THEN 3140
3120 D=Q
3130 GOTO 3080
3140 SUBEND

```

Fast File Transfer Without The TEII
by Larry Prikockis - Cleveland Area 99/4A U G

When transferring files over the phone, the easiest and most reliable method is to use the Terminal Emulator. The price for this ease of use and error checking is that the process is very slow. Fortunately, there is a way to transfer Basic and Extended Basic programs at five times the speed of the TE.

First, both the sender and receiver must select TI Basic. Then, load the program to be sent into memory and type "SAVE RS232", but do not press enter yet. The receiver should type "OLD RS232". When you are ready, switch over to the modems and press enter. The receiver should wait about five seconds and then press enter also. Both users should see a number, corresponding to the number of blocks of the program, at the top of the screen. This number will slowly count down to zero at which point the transfer is complete. Since the program is loaded directly into memory, the receiver must remember to save the program to disk or cassette.

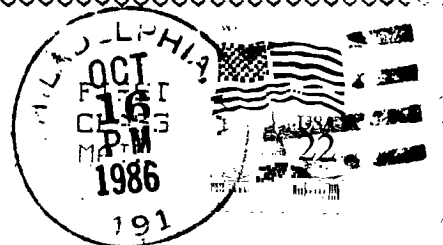
Obviously, this method is limited to programs which can run in Basic or Extended Basic. The procedure for transferring assembly programs is a little more complicated, but still faster than the TE.

To use this method, both users must have an Editor Assembler module. First, select the Editor Assembler and press "1" for the edit section. The receiver should do the same. Then select option 4 for print. When you are asked for a filename, enter "RS232.BA-300.CRLF". The receiver selects option 1 for load (make sure Disk A is in the drive) and uses "RS232.BA-300" as a filename. When both sides are ready, switch over to the modems and press enter. Again, the receiver should wait five seconds before hitting enter. With this method, there is no way of telling how much more of the file is left to be sent, so just sit back and wait until it is finished. The file can be saved to disk by using option 3.

////////////////////////////////////

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