



MID-ILLINOIS
COMPUTER RESOURCE ORGANIZATION
P. O. BOX 766
BLOOMINGTON, ILLINOIS 61701-0766

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MICRO/99 is a not-for-profit group dedicated to the sharing of information and public domain software for the Texas Instruments 99/4A home computer. Members have free access to our library of several hundred programs on cassette and diskette. Meetings are held at 7:00 p.m. on the third Thursday of each month at the Illinois Agriculture Association building, 1701 Towanda Avenue, Bloomington. Attendees sign in with the guard at employee entrance number 4 at the rear of the building. Turn left at the sign for the main reception area and go down the stairs on the far side of it. Visitors are especially welcome, and may attend one meeting free of charge. Annual dues are \$15 per family.

*** MEETINGS: NOVEMBER 20 & DECEMBER 18, 1986 ***

The November 20, 1986 meeting will feature demonstrations of several programs, and distribution of several fairware and public domain programs. Jim Lohmeyer will demo the new DiskAssembler program from Millers Graphics. (Keep it simple, Jim. We don't all write assembler.) Sid Smart will demo the Myarc to Corcomp program which is featured on page 2. The TI diagnostic software (see below) will be shown and distributed. Version 3.5 of Disk Manager 1000 and version 3.3 of Funlwriter will be available.

Those who were at the 4th annual Chicago TI Faire on November 1 will share our reactions. The Chicago group did a great job again. There were lots of vendors, interesting speakers, some bargains and many new products, both hardware and software.

Nominations for officers for the coming year will be made in November, and they will be elected in December. What are you willing to do?

At all meetings members are encouraged to share any information gleaned from magazines, catalogs, bulletin boards, newsletters from other clubs, personal experience with products, etc. If you have a computer related question or problem, someone at the meeting may have an answer or suggestion for you. And, you are encouraged to bring and show any interesting program you found or wrote recently.

**** SMART REMARKS ****

Hats off to the Ottawa, Canada users group for the service they offered to both the authors and users of many fairware programs at the Chicago Faire. Like the Chicago group, they offered software for a nominal media and copying charge. But they also asked for a contribution to be forwarded to the authors. I'll confess to being one of those with good intentions of sending such contributions, but not always getting around to it. How about you? I cleared my conscience on a couple of programs with the help of the Ottawa group. I'm not sure my "shop 'till you drop" wife would understand paying \$20 for an item available for \$2 just across the aisle, but I think it was the thing to do. Thanks, Ottawa.

Guess what? TI does care! Our mail this month included two disks and printed documentation for for a series of diagnostic tests for all the hardware peripherals. They came from TI Consumer Relations! We all have our opinions of how TI blew the marketing of our great little machine, but this is a nice touch.

Sid Smart, President

*** MYARC TO CORCOMP DSDD DISK CONVERSION ***

by

Sid Smart and Jim Lohmeyer

We returned from the Chicago TI Faire with some swapped disks that couldn't be read with a Corcomp disk controller without errors of one kind or another. Some would catalog (showing 1280 total sectors) and some wouldn't. Reading sectors with Millers Graphics' Advanced Diagnostics revealed a pattern of 16 good sectors followed by 2 "bad" sectors. Of course, we had Myarc DSDD disks with 16 sectors per track, and a Corcomp controller expecting 18 sectors per track. The Myarc controller that wrote the 17th and 18th sectors on the disk thought they should be the 1st two on the second track. The Corcomp controller reading the disk thought that the 17th and 18th sectors should be at the end of the first track! So all we had to do was move them: read 16 sectors, write 16, skip 2, read 16, write 16, skip 2, etc. Advanced Diagnostics will handle it, but that's too much typing to enter in immediate mode for even one such disk! Fortunately, AD can be driven with a command file, and the commands required are repetitive enough that they can be generated from a relatively simple BASIC program. The necessary commands won't fit in one 2K command file, so the program below creates two, and the first invokes the second. Both the comand file generator program below and the command files themselves provide instructions for their use.

```

100 REM *****
110 REM ** MYARC DS/DD **
120 REM ** TO **
130 REM ** CORCOMP DS/DD **
140 REM ** CF GENERATOR **
150 REM ** 11/3/86 **
160 REM ** SID SMART **
170 REM ** AND **
180 REM ** JIM LOHMEYER **
190 REM ** LEROY, ILLINOIS **
200 REM *****
210 CALL CLEAR
220 PRINT "THIS PROGRAM GENERATES TWO "; "COMMAND FILES FOR USE WITH "; "MILLERS GRAPHICS ADVANCED "; "DIAGNOSTICS. WHEN INVOKED "
230 PRINT "(WITH A CORCOMP CONTROLLER) "; "THEY CONVERT A 16 SECTOR PER "; "TRACK MYARC DSDD DISK TO A "; "CORCOMP 18 TRACK PER SECTOR "
240 PRINT "DSDD DISK. "; "THE FIRST COMMAND FILE IS "; "MYARC/CC" AND IS TO BE "; "INVOKED BY THE USER. THE "
250 PRINT "THE SECOND IS 'MY ARC/CC2'. "; "IT IS INVOKED BY THE FIRST "; "COMMAND FILE. "
260 PRINT : : "PRESS ANY KEY TO CONTINUE"
270 CALL KEY(0,K,S):: IF S=0 THEN GOTO 270
280 CALL CLEAR
290 FILE$(1)="DSK1.MYARC/CC"
300 FILE$(2)="DSK1.MYARC/CC2"
310 T1$="SD 1 CR "
320 T2$=" 16 SD 2 CW "
330 T3$=" 16 [13]"
340 T4$(1)=" [7] PA CF DSK1.MYARC/CC2 [13] [1]"
350 T4$(2)=" [1]"
360 MH1$="[255][7]CC 2 8 7 1 3 [13][7]"
370 MH2$="[253][253][253][253][253][253][253][253][253][253][253][7]PA[13][7]"
380 M$(1)="[7]BEEP[13][7]Place Myarc disk in drive[32]one and press a key"
390 M$(2)="[7]BEEP[13][7]Place Corcomp disk in dr.[32]two and press a key"
400 M$(3)="[7]BEEP[13][7]Place #CF# disk in drive[32]one and press a key"
410 M$(4)="[7]BEEP[13]CONVERSION COMPLETE "
420 DISPLAY AT(12,1):"PLACE DISK FOR COMMAND FILES"
430 DISPLAY AT(14,9):"IN DRIVE ONE"
440 DISPLAY AT(16,6):"AND PRESS ANY KEY"
450 CALL KEY(0,K,S):: IF S=0 THEN GOTO 450
460 FOR L=1 TO 2
470 DISPLAY AT(19+L*2,3):"CREATING ";FILE$(L)
480 OPEN #1:FILE$(L),DISPLAY,VARIABLE 80
490 PRINT #1:MH1$
500 PRINT #1:M$(1)
510 PRINT #1:MH2$
520 PRINT #1:M$(2)
530 PRINT #1:MH2$
540 FOR I=1+1 TO 1+40
550 R=(I-1)*18 :: W=(I-1)*16
560 L$=T1&STR$(R)&T2&STR$(W)&T3$
570 PRINT #1:L$
580 NEXT I
590 IF L=2 THEN 700
600 PRINT #1:M$(3)
610 PRINT #1:MH2$
620 PRINT #1:T4$(L)
630 CLOSE #1
640 I=I-1
650 NEXT L
660 CALL CLEAR
670 PRINT "LOAD ADVANCED DIAGNOSTICS. "; "PUT COMMAND FILES IN DSK1 "; "AND ENTER THE COMMAND: "
680 PRINT : : "CF DSK1.MYARC/CC": : : : :
690 STOP
700 PRINT #1:M$(4)
710 PRINT #1:MH2$
720 GOTO 620
730 END

```

This article appeared in many newsletters including MICROpendium. It was written by Louis Guion of the NET 99er HCUG.

SLOWING DOWN DM1000

by Brian McFeeters

All versions of DM1000 (including the latest 3.5) suffer from having to fast of keyboard input. If you are not quick enough in removing your finger, the key will be be repeated several times. Now there is a way to change the speed of keyboard input.

The change will require the use of a sector editor such as DISKO, DISK+AID or ADVANCED DIAGNOSTICS. First, you need to copy MGR1 (or MGR3 if using the version on FUNLWRITER 3.3) to a newly initialized disk. Then load your sector editor and either go to sector >36 or search for the following hex string: 06 03 16 F9 03 80 00 A0 FF 00 C0 1D. The important bytes are >42 and >43 which are 00 and A0. These are the bytes that control the speed of the repeat. Hex 00 A0 equals 160 in decimal. The range of acceptable values is 160 to 2000 (decimal) or hex values 00A0 AND 07D0. I used 03 E8 (1000 decimal) which seems to work for me.

After making the changes to the correct bytes, save the sector back to disk. Then copy the modified MGR1 (or MGR3) to your working copy. You may want to try several speeds to suit your needs. I have tried this changes on versions 2.2, 3.1 and 3.5 and they all work.

Below is a printout of sector >36 from version 3.1. The circled values are the ones that need changing.

M & T UTILITYWARE *****												DISK + AID				***** PRINT SECTOR								
STARTING SECTOR:0036												ENDING SECTOR:0036				CURRENT SECTOR:0036								
ADR-	1	2	3	4	5	6	7	8	9	A	B	C	1	2	3	4	5	6	7	8	9	A	B	C
00-	D8	2D	00	01	8C	02	02	61	80	00	D8	01												
0C-	8C	02	03	80	02	01	40	00	10	01	04	C1								a				
18-	C0	9D	D8	20	83	85	8C	02	E0	81	D8	02												
24-	8C	02	C0	6D	00	02	C0	AD	00	04	04	5B				m								[
30-	C0	FE	C0	3E	C0	7E	C0	BE	04	20	B3	B4				>								
3C-	06	03	16	F9	03	80	00	A0	FF	00	C0	1D												
48-	D0	6D	00	02	04	20	B3	B0	09	81	D0	60		m										\
54-	A1	3F	04	20	B3	B0	04	CA	04	C2	C0	E0		?										
60-	A0	FE	04	20	CD	96	D1	20	83	7C	21	20												!
6C-	A0	F2	13	15	98	20	83	75	B4	3E	13	04									u			>
78-	05	8A	82	A0	B4	3C	13	0D	06	03	16	EF								<				
84-	06	02	13	05	06	C1	04	20	B3	B0	05	C2												
90-	10	E6	06	C1	04	20	B3	B0	10	E1	D0	6D												m
9C-	00	02	06	C1	D0	60	83	75	98	01	A1	43									u			C
A8-	1B	08	98	01	A1	42	11	0A	04	20	B3	B0								B				
B4-	DB	41	00	02	03	80	06	C1	04	20	B3	B0		A										
C0-	06	C1	10	F8	C8	20	A0	D0	A0	D0	16	0A												
CC-	02	03	B4	E8	C8	03	A1	18	C0	81	09	72												r
D8-	06	42	C0	A2	A1	00	04	52	02	03	B4	B4		B								R		
E4-	C8	03	A1	18	04	E0	A0	D0	10	F3	06	C1												
F0-	04	20	B3	B0	10	DF	B5	B8	B5	B8	B5	E0												
FC-	B5	F8	AA	40																				

The following article appeared in the AUG86 issue of the Lehigh 99'er. They had reprinted it courtesy of the Lima 99/4A Users.

LOADING FROM DISK...

Although the information in this article is probably old hat to many of you veteran TI users, I still get many questions at club meetings concerning how to load files and programs. "There is a name on the disk directory, but I can't seem to get it to load. What do I do?" If this is sometimes your problem, this article is for you.

Disk files that can be loaded directly into the computer are in the following forms:

PROGRAM **INT/VAR 254** **DIS/VAR 163** **DIS/VAR 80** **DIS/FIX 80**

Any other file format represents a data file which can be loaded from within a program already in the computer. Examples are **INT/FIX 108**, **INT/VAR 128** and **DIS/VAR 64**.

PROGRAM These files are the most common and the vast majority represent TI basic or Extended Basic programs. Many TI Basic programs load and run correctly from Extended Basic (but not visa versa). However, if after loading the **PROGRAM** file into Extended Basic you get a **BAD VALUE IN XXX** error when you attempt to **RUN** the program, you need to reload the program into TI Basic. The **Bad VALUE** error is caused by the use of chars above 143, which isn't allowed in Extended Basic.

If you attempt to load an Extended Basic program into TI Basic it will seem to load properly. However, when you **RUN** the program, you will probably get a **FOR-NEXT ERROR IN XXX** message. Attempting to list line **XXX** gives a screen of nonsense. You cannot use TI Basic to work with Extended Basic programs.

If a program file occupies more than 45 disk sectors and won't load in either version of Basic you have to open up extra memory. Do this by typing the following:

```
CALL FILES(1) enter
NEW enter
OLD DSK1.FILENAME enter
```

The program will now probably load.

Occasionally, a **PROGRAM** file will not load from either version of Basic, giving an **I/O ERROR 50** when you attempt to do so. These files are likely to be assembly language programs that need the **EDITOR/ASSEMBLER** module to load. Press "2" for **EDITOR/ASSEMBLER**. Then press "5" for **RUN PROGRAM FILE**. When prompted, type **DSK1.FILENAME**, hit enter and the program should load and start running. Some assembly language programs of this type can also be loaded from the **TI-WRITER** option #3, **UTILITY**.

Finally, some specialized **PROGRAM** files can only be loaded from the **ADVENTURE**, **PERSONAL RECORD KEEPING**, **STATISTICS**, or other specialized module. These files are actually data bases that can only be used with their particular module.

INT/VAR 254 These files are normally long Extended Basic programs that **OLD** and **RUN** in a normal way if the memory expansion is connected to the system. They usually exceed 45 sectors in length and do not require **CALL FILES(1)** to load. Once loaded, these long programs cannot usually be saved to tape (**SAVE CS1**) without special techniques. You cannot **OLD** any **INT/VAR 254** program from TI Basic.

DIS/VAR 163 This type of file represents an Extended Basic subroutine in MERGE format. They can be merged into a program already in memory. To load such files, type MERGE DSK1.FILENAME and hit enter. You must do this even if there is no other program in memory. You cannot use OLD with files of this type. To save a program in MERGE format, type SAVE DSK1.FILENAME,MERGE. The MERGE option is not available from TI BASIC.

DIS/VAR 80 These are text files which can be read from the screen, edited, and printed to a printer via TI-Writer, either by using the module or one of our Extended Basic loaders such as FUNLWRITER. The Editor/Assembler will also read, edit, and print these files from E/A option #1: "TO EDIT". Many of our more complicated programs will have documentation files on the same disk as the program. These files usually have the program name followed by the letters DOC.

DIS/FIX 80 These are assembly language programs which must be loaded via Editor/Assembler or Mini Memory modules. Press #2 to load Editor/Assembler or #3 to load Mini Memory. Then press the number corresponding to the prompt LOAD AND RUN. When asked for a FILENAME type DSK1.FILENAME and hit enter. The DIS/FIX 80 file will load and may start running. If it doesn't start running, press enter at the next FILENAME prompt. Then at the PROGRAM NAME prompt, type the name that gets the program going, and press enter. Sometimes this name is START or the program name or a variation of it. The correct startup name can often be found in the program docs, which may exist on the disk as a DIS/VAR 80 file.

FINAL NOTES Any of the above file types may also be used as a data file to be loaded only from another program. This means the file cannot be loaded directly by Extended Basic. The computer will recognize that the data in the file is not similar to a long Extended Basic program.

With the above information, you should have no trouble loading everything from the disks in our club library. Check out each program and ENJOY! Some of our public domain programs would cost a lot if purchased commercially.

Several newsletters have mentioned that TI-WRITER manuals are available from Texas Instruments for \$3.00 including shipping and handling. Call 1-800-TI-CARES for more information. This is a great deal for of you who use FUNLWRITER but had never purchased TI-WRITER.

Also, for those having troubles with their module connection port, a new grom port is available from TI. Call the above number for ordering information. You need to order a GROM EXT. ASSEMBLY part number 1049693-001. It costs \$5.86 plus \$2.50 for shipping and handling. Supposedly you can use your credit card when calling which avoids the delay by sending a check.

TIPS FROM THE TIGERCUB

#34

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- MUSICAL EDUCATION
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For descriptions of these send a dollar for my catalog!

While they last, and the supply is limited, I will sell a single Texas Instr. cassette interface cable for \$2.00 with any order for cassette software.

My sincere apologies for a serious goof in the Sort Watcher program in Tips #33. The GOSUB in line 120 should go to line 1020, not 32767! Also, in line 210 please change the 920 to 930.

Steven Shouse of TIRUG sent this improvement to the GRAPHPAGE in Tips #33 -
100 OPEN #1:"DSK1.GRAPHPAGE"
,OUTPUT :: PRINT #1:TAB(4);R
PT#("-",75):: FDR J=57 TO 1

STEP -1 :: J\$=STR\$(J)

The 99/4A National Assistance Group (which is a commercial enterprise, not a user's group, although they charge a fee to "join"), sells public domain programs at \$3.00 each - but you can't order individual programs, you have to buy a package deal.

I sell good copyrighted programs, written by myself, for \$3.00, I let you pick and choose, even just one program if you want. I don't pretend to be a user's group (I know that Tigercub often gets misspelled as Tiger Club but I can't help that!), and I don't charge you to "join".

The reason for these remarks is that one of the public domain programs sold by that group is listed as SAMARKAND. It may be only an odd coincidence that I wrote a random music composer entitled SONG OF SAMARKAND and put it in public domain because I didn't think it was worth selling. Anyway, if you want it, here it is.

```

100 CALL CLEAR
110 REM - SONG OF SAMARKAND
    programmed by Jim Peterson -
    Version 3
120 RANDOMIZE
130 CALL CHAR(94,"00")
140 CALL CHAR(95,"00")
150 CALL SCREEN(11)
160 PRINT "From the Third Mo
    vement of":"": THE NEVER
    -ENDING SONG":"": b
    y Emir Abdul Aziz":"":.....
    .....
170 PRINT : : : : : : : :
    : : : : :
180 FOR J=1 TO 23
190 CALL HCHAR(12,5+J,ASC(SE
    6$("^THE^SONG^OF^SAMARKAND^"
    ,J,1)))
200 NEXT J
210 CALL HCHAR(11,6,94,23)
220 CALL HCHAR(13,6,94,23)
230 M$="187EFF42668124C3DB66
    5A18423C5AA542817E995A001800
    24BDBD3C667E66668100243C0042

```

```

187E5AA53CC3427E3C81B17E5AE7
669924187E429924008181DBC3"
240 DIM N(30),S(21)
250 F=220
260 FDR J=0 TO 36
270 X=X+1+(X=12)*12
280 IF (X=2)+(X=5)+(X=7)+(X=
    10)+(X=12)THEN 310
290 Y=Y+1
300 N(Y)=INT(F*1.059463094^J
    )
310 NEXT J
320 CALL HCHAR(1,1,32,320)
330 CALL VCHAR(1,31,95,96)
340 CALL HCHAR(24,1,95,64)
350 CV=2
360 K=0
370 K=K-INT(5*RND+1)+INT(5*R
    ND+1)+(K>21)*2-(K<1)*2
380 IF (K(1)+(K>21)THEN 370
390 CALL SOUND(-999,N(K),0,N
    (K)*CV,0,N(K)*3.75,30,-4,0)
400 X=INT(40*RND)
410 IF X>12 THEN 370
420 ON X+1 GOTO 430,490,540,
    580,660,730,770,850,870,970,
    990,1040,1060
430 IF INT(4*RND)<3 THEN 390
440 FOR T=K TO 20
450 CALL SOUND(-999,N(T),0)
460 NEXT T
470 K=1
480 GOTO 390
490 FOR T=K TO 1 STEP -1
500 CALL SOUND(-999,N(T),0)
510 NEXT T
520 K=T+1
530 GOTO 390
540 FOR T=K TO 1 STEP -1
550 CALL SOUND(-999,30000,30
    ,30000,30,N(T)*3.75,30,-4,0)
560 NEXT T
570 GOTO 370
580 FOR TT=K TO K-INT(5*RND+
    1)STEP -1
590 IF TT<2 THEN 370
600 FOR T=1 TO INT(7*RND+3)
610 CALL SOUND(-999,N(TT),0,
    N(TT)*2,0)
620 CALL SOUND(-999,N(TT)*1.
    03,0,N(TT)*2.06,0)
630 NEXT T
640 NEXT TT
650 GOTO 370
660 FOR T=K TO K-INT(3*RND+3
    )STEP -1
670 IF T<2 THEN 370
680 FOR D=0 TO 15 STEP 2
690 CALL SOUND(-999,N(T)*2,D
    ,N(T)*3,D,N(T)*3.75,30,-4,0)

```

```

700 NEXT D
710 NEXT T
720 GOTO 370
730 FOR X=1 TO 15
740 CALL SOUND(-999,N(X),0,M
(16-X),0,M(1),30,-4,5)
750 NEXT X
760 GOTO 370
770 FOR T=K TO K-INT(4#RND+1
)STEP -1
780 IF T<2 THEN 370
790 CALL SOUND(100,N(T),0,M(
T)#2,0,M(T)#3.75,30,-4,5)
800 FOR TT=N(T) TO M(T-1)STEP
-10
810 CALL SOUND(-999,TT,0,TT#
2,0,TT#3.75,30,-4,5)
820 NEXT TT
830 NEXT T
840 GOTO 370
850 CALL CHAR(32,SE6$(M$,INT
(57#RND+1)#2-1,16))
860 GOTO 370
870 IF INT(4#RND)<3 THEN 390
880 CALL SOUND(-3000,N(K),0,
N(K)#2,0,N(K)#3.75,30,-4,0)
890 FOR J=1 TO INT(5#RND+5)
900 S(J)=INT(21#RND+1)
910 NEXT J
920 CALL SOUND(-1,3000,30)
930 FOR T=1 TO J-1
940 CALL SOUND(-999,N(S(T)),
0,N(S(T))/1.68,0,N(S(T))#3.7
5,30,-4,0)
950 NEXT T
960 GOTO 370
970 CALL CHAR(95,SE6$(M$,INT
(57#RND+1)#2-1,16))
980 GOTO 370
990 IF INT(4#RND)<3 THEN 390
1000 FOR J=220 TO 660 STEP 2
0
1010 CALL SOUND(-999,J,0,800
-J,0,N(12)#3.75,30,-4,0)
1020 NEXT J
1030 GOTO 370
1040 CALL CHAR(32,"0")
1050 GOTO 390
1060 CV=CV+(CV=2)/2-(CV=1.5)
#.5
1070 GOTO 370

```

If you are trying to exchange newsletters and are using the listings of user groups published by Texas Instruments and by others, you are finding that they are way out of date! Send me a disk and some return

postage - or just send \$1.50 - and I'll send you my address list of about 140 groups I exchange with. It is updated every month from return addresses on newsletters I receive.

For those of us who are still struggling along with one disk drive, this routine will transfer any number of D/V80 files, totalling up to about 42 sectors, from one disk to another in one pass, and will optionally save under changed names.

```

100 DIM M$(2000),F$(25),C$(2
5):: CALL CLEAR :: T%=CHR$(1
)
110 DISPLAY AT(8,6):"TIGERCU
B FILEMOVER" :: DISPLAY AT(1
5,1):"PRESS ENTER WHEN FINIS
HED"
120 F=F+1 :: IF F>25 THEN 13
0 :: DISPLAY AT(12,1):"FILEN
AME? DSK"&T% :: ACCEPT AT(12
,14)SIZE(-12)BEEP:F$(F):: IF
F$(F)<>T% THEN 120
130 F=F-1 :: FOR J=1 TO F ::
ON ERROR 260 :: OPEN #1:"DS
K"&F$(J),INPUT :: DISPLAY AT
(12,1):"READING "&SE6$(F$(J
),3,255)
140 X=X+1 :: LINPUT #1:M$(X)
:: C=C+LEN(M$(X))
150 IF C>10000 THEN DISPLAY
AT(20,1):"INSUFFICIENT MEMOR
Y FOR "&SE6$(F$(J),3,255)::
GOTO 190
160 IF EOF(1)<>1 THEN 140
170 X=X+1 :: M$(X)=T% :: CLD
SE #1
180 W=W+1 :: NEXT J
190 X=0 :: DISPLAY AT(15,1):
"" :: DISPLAY AT(12,1):"INSE
RT COPY DISK AND PRESS":"ENT
ER"
200 CALL KEY(0,K,ST):: IF ST
=0 THEN 200 :: DISPLAY AT(13
,1):""
210 FOR J=1 TO W :: IF F$(J)
=CHR$(2)THEN 230
220 DISPLAY AT(12,1):"FILENA
ME? DSK"&F$(J):: ACCEPT AT(1
2,14)SIZE(-12)BEEP:C$(J)230
NEXT J :: FOR J=1 TO W :: IF
F$(J)=CHR$(2)THEN 250 :: OP
EN #1:"DSK"&C$(J),OUTPUT ::
DISPLAY AT(12,1):"SAVING "&S

```

```

EG$(C$(J),3,255)
240 X=X+1 :: IF M$(X)<>T% TH
EN PRINT #1:M$(X):: GOTO 240
ELSE CLOSE #1
250 NEXT J :: END
260 ON ERROR STOP :: DISPLAY
AT(22,1):"CANNOT OPEN "&SE6
$(F$(J),3,255):: F$(J)=CHR$(
2):: RETURN 100

```

Here is a very ingenious idea published in the Corpus Christi U6 newsletter by H. Macdonald. He could not find the author/newsletter which gave him the idea, so if you know, tell me and I'll print due credit.

I have modified it a bit. This short routine will load quickly and enable you to bypass loading and running the Menu Loader program on a disk when you already know the filename of the program you want to run.

```

Save the Menu Loader under
the filename MENULOADER and
save this routine under the
filename LOAD - be sure to
save it before you try it,
because it erases itself!
100 CALL INIT :: CALL LOAD(-
3180,16):: DISPLAY AT(12,1)
ERASE ALL:"RUN MENULOADER? (
Y/N)"
110 CALL KEY(3,K,S):: IF S=0
THEN 110 ELSE IF K=78 THEN
130 ELSE DISPLAY AT(12,1)ERA
SE ALL:"LOADING MENULOADER"
:: RUN "DSK1.MENULOADER"
130 CALL CLEAR :: CALL LOAD(
-31952,55,215,55,215):: END

```

Here is one with a bit of a surprise at the end. Key the v,A in line 190 as FCTN V, CTRL comma, CTRL A.

```

100 CALL CLEAR :: CALL SCREE
N(16)
110 DATA 80C0A09088445269,00
000000007EB1,0103050911224
A96,00000001010100,21409C2
A492A1CC0,999933660001824
120 DATA 8482395492543903,00
0000000808080,E0009800E7702
010,182442814230000,0F19030
7E1020400,000000FF00000000
130 DATA 000F13E620221D00,0C
FB34670A22DC00,814224FF,30DF

```

```

200C641443B00,00F0C86F0447B07
F,000000FF01F901F9
140 DATA 80FF08068080686,00
FF006666006666,00FF003F3F3F3
F3F,01FF01F9F9F9F9F9,0080686
08068093,00666600666600FF
150 DATA 00666600666600E6,3F
3F3F3F3F3F3F3F,F9F9F9F9F9F9F
9F9,00000000E01C3AE2,9380FF,
FF00FF,E600FF0007000007
160 DATA 3F00FF00FF1980FF,F9
01FF00FF0744FF,1F09090FF319B
AFC
170 FOR CH=96 TO 129 :: READ
CH% :: CALL CHAR(CH,CH%):
NEXT CH
180 DISPLAY AT(1,14)ERASE AL
L:"ab" :: DISPLAY AT(2,13):
"cdefg" :: DISPLAY AT(3,14):
"hi j" :: DISPLAY AT(4,12):"k
lanopp"
190 DISPLAY AT(5,12):"r s s s t
u" :: DISPLAY AT(6,12):"v w w
w x y z(" :: DISPLAY AT(7,12):"!
)))*v,A" :: DISPLAY AT(9,12)
:"TIGERCUB"
200 DISPLAY AT(11,12):"SOFTW
ARE" :: DISPLAY AT(13,7):"15
6 COLLINGWOOD AVE." :: DISPL
AY AT(15,7):"COLUMBUS DR 43
213" :: CALL HIGHCHAR
210 GOTO 210
220 SUB HIGHCHAR :: FOR CH=3
2 TO 129 :: CALL CHARPAT(CH,
CH%): X%=SE6$(CH%,3,12)&SE6
$(CH%,13,4):: CALL CHAR(CH,X
%): NEXT CH :: SUBEND

```

Thanks to Ramon Martinez in the Orange County U6 news letter - a double NEXT is accepted if the pre-scan is turned off.

```

100 J=1
110 !@P-
120 FOR J=1 TO 100 :: IF J/1
0<>INT(J/10)THEN NEXT J ELSE
PRINT J :: NEXT J

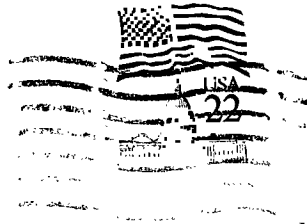
```

A computer without a program is like a car without gas. If everyone who filled up at a self-service pump drove away without paying, how soon would all the gas stations be closed?

MEMORY FULL!

Jim Peterson

MID ILLINOIS COMPUTER RESOURCE ORGANIZATION
P.O. BOX 766
Bloomington, IL 61701-0766



EDMONTON 99'ERS USER SOCIETY
P.O. BOX 11983, EDMONTON
ALBERTA, CANADA T5J-3L1

```
*****
*      MMM   MMM   IIIIII   CCCCCC   RRRRRRRR   00000000   *
*      MM M M MM   II       CC       RR       RR   00   00   *
*      MM M M MM   II       CC       RRRRRRRR   00   00   *
*      MM  M  MM   II       CC       RR       RR   00   00   *
*      MM       MM   II       CC       RR       RR   00   00   *
*      MM       MM   IIIIII   CCCCCC   RR       RR   00000000   *
*
*
*      The MID ILLINOIS COMPUTER RESOURCE ORGANIZATION   *
*****
```