Hello again. Some have called asking why their newletter stopped coming.
 Well, your newsletter didn't stop. Everyone's did. We are sorry for
the delay but things have been hopping.

NEW PRODUCTS

1.COPY-WRITER: One of the things needed by PEDISK II owners is a
professional word processor. Its here! Copy-Writer was developed by
IDPC CO. It offers all the good stuff- margins, spacing, footers,
headers, tabs, paging, centering and shorthand. On top of all that its
got stuff not even found in brand 4+ - double column printing, sends hex
codes to printer, and graphics control.
Its pretty nice to use. We have switched over to Copy-Writer on all
machines now and have found it is saving a lot of time. It runs very
fast (not written in BASIC) but does seem to take a bit of time on disk
access. We understand that text data is compressed sector by sector as
it is stored on disk. This saves a lot of disk space but does slow
loading and storing a bit. All in all it is thrilling.

Copy-Writer is available at $185.00 from your dealer. By the way, it is
also available for your friends who happen to have Commodore 4040,8050
disks and Apple users.

2.FILEX is a new program developed by Wilserve to allow 8' PEDISK owners
to exchange data records with IBM compatible machines. FILEX actually
reads the IBM generated directory recorded in 'Basic Data Exchange'
format. Actual character string records are read into a BASIC variable.
 FILEX also writes records on a disk and can generate an IBM compatible
directory. It does all the work and even converts EBCDIC to ASCII on a
read and vice versa on a write.

There are some really neat applications for this. A Commodore/PEDISK
can be used as a key-to-disk machine doing the work of an IBM 3741
machine. Guess which is many times cheaper. Data can be processed at a
Commodore and sent via disk to a central computer for accumulation and
further processing. One customer even recorded print files to disk and
later printed the data on his high speed IBM printer.

FILEX is a ROM that resides at $A000. It supplies six routines:
initialize, open input file, open output file, read a record, write a
record, and close file. These can be integrated into accounting
programs, data entry programs, or whatever. Sample programs are listed.
 FILEX is available for $245.00 from your dealer.

3.DISK UTILITY is a new set of useful and neat things to assist the PEDISK owner. Written by John O'Hare, a menu of disk functions appears. These include a disk logger, block map, change diskname, restore 'killed' files, print directory, compact a program, and cross reference.

The disk logger reads directories from many disks. It stores and correlates disk names and the directories. Disk names, file names, etc. can be listed and printed. The complete catalog can be printed or recorded to disk. The block map shows the complete usage of a disk in terms of system files, BASIC files, open area, etc. Disk names can also be changed. 'Killed' files can be restored (if not compressed) and the disk utility will print a specially formatted directory. DISK UTILITY has proven to be a valuable tool. It is now available from your dealer. The cost is $25.00.

4.UNASSEMBLER - What is unassembler? Well, it takes machine language code and actually writes a MAE compatible source file on a PEDISK diskette. This program was originally written by Bob Seylar of Commodore. It was converted to MAE by Jim Strasma. It was then converted for PEDISK by Gary Tolton. Unassembler works great! The user does have to separate the machine code from ASCII text and tell the program which is which. The program then reads the code and actually records a MAE source file on disk complete with labels. This has been extremely valuable in converting some other programs from Commodore 4040 to PEDISK. It has also been extremely valuable in creating special mods to some of my ROMs. Purely public domain, Microtech offers this for the cost of copying. For now, send $6.00 or a good formatted PEDISK diskette and a SASE.

5.Chuck Johnson has converted VISICALC to PEDISK! We have purchased a copy of VISICALC and verified it. VISICALC/PEDISK may be purchased from Microtech or your Microtech dealer. The cost is $200.00.

NEWS

Chuck Johnson has written a new data base manager for PEDISK. Named FASTFILE, it is! It is not quite finished yet so pay attention, news will be coming.

AUTO LOADING

One of the biggest things that keeps the non-experts from using
computers is the complicated procedures required - Syntax, etc. Look at
PEDISK:

        1.   Turn on machines
        2.   Insert disk and type SYS59904
        3.   PEDISK message appears - now type !run'prog:0'

Everytime I explain the procedures to friends or family my computer
demonstration loses a little of its thunder because the person at the
keyboard always screws up. This can be solved! The BASIC ROM can be
modified to automatically initialize the PDOS and even automatically
load and run a program called 'M:0'. The situation is now totally
different. When the computer is turned on, PDOS is automatically loaded
and a menu program is also loaded and executed. Flick the power on and
a freindly menu appears on the screen - pick your program. At last -
friends and family are impressed, my kids are using the educational
software, and my secretary can use the computer by herself.

Here's how to do it:

        If the Basic 4.0 $D000 ROM is soldered in, unsolder it, and install
a socket. Modify the ROM as shown below. If you don't have a prom
burner, go see a friend.

        The patch program is:

```
PATCH   JSR NEW                    D42A 20 D4 B5
        LDA $EA00 PDOS?            D42D AD 00 EA
        CMP#$4C                    D430 C9 4C
        BNE P1      NO PDOS!       D432 D0 13
        JSR $EA00 INIT PDOS        D434 20 00 EA
        LDX #$0A                   D437 A2 0A
P0      LDA $DEB4,X MOVE STRING    D439 BD B4 DE
        STA $0200,X                D43C 9D 00 02
        DEX                        D43F CA
        BPL $D439 (P0)             D440 10 F7
        LDY #01                    D442 A0 01
        JMP $B409                  D444 4C 09 B4
P1      LDA $34                    D447 A5 34
        SEC                        D449 38
        SBC $28                    D44A E5 28
        TAX                        D44C AA
        LDA $35                    D44D A5 35
        SBC $29                    D44F E5 29
        JSR $CF83                  D451 20 83 CF
        LDA #$A4                   D454 A9 A4
        LDY #$DE                   DA56 A0 DE
        JSR $BB1D                  D458 20 1D BB
        JMP $B3FF                  D45B 4C FF B3
```
Two strings must also be installed starting at $DEA4.

The exact patch byte for byte is:

							STRINGS	
	OLD	NEW		OLD	NEW		OLD	NEW
D42A	A9	20	D445	20	09	DEA4	2A	20
D42B	A4	D4	D446	D4	B4	DEA5	2A	42
D42C	A0	B5	D447	B5	A5	DEA6	2A	59
D42D	DE	AD	D448	4C	34	DEA7	20	54
D42E	20	00	D449	FF	38	DEA8	42	45
D42F	1D	EA	D44A	B3	E5	DEA9	49	53
D430	BB	C9	D44B	20	28	DEAA	4C	20
D431	A5	4C	D44C	42	AA	DEAB	4C	46
D432	34	D0	D44D	59	A5	DEAC	2C	52
D433	38	13	D44E	54	35	DEAD	53	45
D434	E5	20	D44F	45	65	DEAE	20	45
D435	28	00	D450	53	29	DEAF	42	0D
D436	AA	EA	D451	20	20	DEB0	41	00
D437	A5	A2	D452	46	83	DEB1	53	00
D438	35	0A	D453	52	CF	DEB2	49	00
D439	E5	BD	D454	45	A9	DEB3	43	00
D43A	29	B4	D455	45	A4	DEB4	20	21
D43B	20	DE	D456	0D	A0	DEB5	20	52
D43C	83	9D	D457	00	DE	DEB6	20	55
D43D	CF	00	D458	23	20	DEB7	20	4E
D43E	A9	02	D459	23	1D	DEB8	20	22
D43F	4B	CA	D45A	23	BB	DEB9	20	4D
D440	A0	10	D45B	20	4C	DEBA	20	3A
D441	D4	F7	D45C	43	FF	DEBB	20	30
D442	20	A0	D45D	4F	B3	DEBC	20	22
D443	1D	01				DEBD	20	00
D444	BB	4C				DEBE	20	00
						DEBF	0D	00

The patch is shown for Basic 4.0. For those of you with 3.0 here is the
equivalent address so that you can work out a similar patch. The area
from $E196 thru $E1DD can be used. The 'BYTES FREE' string must be made
smaller.
        $D42A(4.0)=$E196(3.0)

The suggested procedure is:
        1.   Turn on disk drive
        2.   Put in diskette and close door
        3.   Turn on PET -- DA DA!

If the PDOS ROM is not present, the program prints bytes free and
normally goes to BASIC. If the program 'M:O' is not on disk, question
marks are printed and the program goes normally to BASIC.

Rename a favorite program 'M:O' and try it out; Remember, it is
essential that a copy of the operating system software file '******', be
on the disk; Have fun!

Lou Sander has written a 'menu builder' for PEDISK. Give it a try.
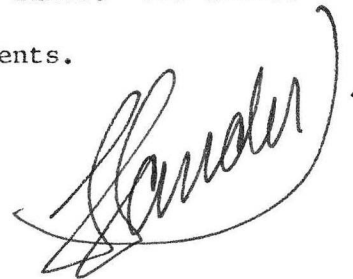
MENU MAKER FOR PEDISK II

The accompanying program creates a very useful menu of BASIC

programs on any PEDISK II diskette. The program includes complete

instructions, but these additional notes will be helpful in getting

the most out of it. If you enter the program from the listing,

pay special attention to lines 1220, 1230, 1240, 1540, and 1560.

The blank characters enclosed in quotes there MUST be SHIFTED SPACES;

they allow RETURN to be hit in response to INPUT statements.

When you run the program, it will show you every active file

on the diskette, but will ask you to enter names only for BASIC

program files. If you want a program to be left out of your menu,

just hit RETURN instead of entering a name. After MENU MAKER steps

you through every file on the diskette, it opens a temporary disk

file, sorts your program names alphabetically, and creates some

DATA statements by PRINTing them and POKEing RETURNs into the keyboard

buffer. Finally, it kills the temporary file. All this makes

for some unusual screen activity, but don't worry -- the action

is part of the program.

When you get a READY message, MENU MAKER has been replaced

in memory by the menu program itself. You can run it, but don't

select any programs until you have !SAVEd the menu as "M:∅". (Selecting

a program would, of course, wipe out your menu.) If you made any

errors in entering the program names, you can correct them by changing

the DATA statements.

Once you have !SAVEd the menu program, be careful when making changes,

so you don't wipe out your menu by mistake. I always !SAVE the

new program as NEW M, then kill M and change the name of NEW M

to M.

The techniques used in this program should interest any inquisitive PEDISK user: it includes both BASIC- and PDOS-mode file handling, some unique processing first seen in the BLOCK MAP program from Newsletter #2, the famous "dynamic keyboard", and a newly developed "electric eraser" method for deleting unneeded lines. The author would appreciate your suggestions for improvements.

```
1000 REM ** MENU MAKER FOR PEDISK II **
1010 REM          LOUIS F. SANDER
1020 REM            153 MAYER DRIVE
1030 REM          PITTSBURGH, PA  15237
1040 REM
1050 REM            (412) 366-5414
1060 REM
1070 DATA"LAST ONE","ERROR"
1080 DIMDN$(64),FI$(64)
1090 FORI=1TO64:READDN$(I),FI$(I):IFDN$
(I)="LAST ONE"THENJ=I-1:I=64
1100 IFDN$(1)="LAST ONE"THEN1360
1110 NEXT
1120 GOSUB1290
1130 FORI=1TOJ
1140 PRINTITAB(4)DN$(I)TAB(32)FI$(I)"▓"
1150 K=K+1:IFK=10THEN1170
1160 NEXT
1170 PRINT" WHICH #";
1180 IFJ=<ITHEN1200
1190 PRINTTAB(13)"(HIT ▓RETURN▓ TO SEE
MORE)";:PRINT"▯":PRINTTAB(8):GOTO1220
1200 IFJ=<10THEN1220
1210 PRINTTAB(13)"(HIT ▓RETURN▓ TO STAR
T OVER)";:PRINT"▯":PRINTTAB(8)
1220 INPUT"   ▓▓▓";A$
1230 IFK<JANDLEFT$(A$,1)=" "THEN:K=0:GO
SUB1290:NEXT
1240 IFLEFT$(A$,1)=" "THEN1120
1250 A=VAL(A$):IFA=0ORA>JTHEN1120
1260 FI$(A)=FI$(A)+":0"
1270 !RUNFI$(A)
1280 END
1290 K=0:PRINT"▓ENTER THE # TO RUN THE
PROGRAM:▓"
1300 PRINT" #    PROGRAM NAME"TAB(33)"FI
LE"
1310 PRINT" ‾   ‾‾‾‾‾‾‾‾‾‾‾‾‾"TAB(33)"‾
‾"
1320 RETURN
1330 E=PEEK(58)+256*PEEK(59)+3:POKE2,IN
T(E/256):POKE1,E-256*PEEK(2)
1340 IFERTHENPOKEE-2,0:POKEE-1,0:POKE42
,PEEK(1):POKE43,PEEK(2):CLR:END
1350 REM ** REMAINING LINES SET UP MENU
1360 GOSUB1980:REM ** INSTRUCTIONS
1370 PRINT"▯"
1380 I=PEEK(53):POKE634,I:POKE53,31:CLR
1390 DIMFI$(64),DN$(64),DS$(64),X%(16)
1400 AD=32512:POKEAD+145,1:POKEAD+146,0
:POKEAD+147,1:POKEAD+150,8
1410 POKE183,0:POKE184,32:SYS59910:POKE
59648,0:B=4096*2
1420 PRINT"DISK NAME: ";:FORI=BTOB+7:PR
INTCHR$(PEEK(I));:NEXT:PRINT:B=B+16
1430 PRINT"▓     FILE     DESCRIPTIVE"
1440 PRINT" #  NAME         NAME"
1450 PRINT" ‾ ‾‾‾‾‾‾‾‾‾‾ ‾‾‾‾‾‾‾‾‾‾‾"
1460 FORI=BTOB+62*16STEP16
1470 FORJ=0TO15:X%(J+1)=PEEK(I+J):NEXT
```

```
1480 IFX%(11)=255THENI=B+62*16:GOTO1570
1490 IFX%(6)=255THENPRINT"□":GOTO1570
1500 PN=PN+1:FI$(PN)=""
1510 FORJ=1TO6:FI$(PN)=FI$(PN)+CHR$(X%(
J)):NEXT
1520 PRINTPNTAB(4)FI$(PN);
1530 IFX%(11)<>3THENPN=PN-1:PRINT"   █NO
T A BASIC PROGRAM□":PRINT"    ";:GOTO1570
1540 INPUT"    ▓▓▓";DN$(PN)
1550 IFLEN(DN$(PN))>26THENPRINT"DESCRIP
TIVE NAME TOO LONG!▓":GOTO1520
1560 IFDN$(PN)=" "THENPN=PN-1:PRINT"□
"TAB(12)"▓BASIC PROGRAM NOT ON MENU"
1570 NEXT
1580 POKE158,0
1590 INPUT"█LAST PROGRAM. READY TO SORT
(▓Y▓ OR ▓N▓)";A$
1600 IFLEFT$(A$,1)<>"Y"THENEND
1610 J=PEEK(634):POKE53,J
1620 PRINT"██SORTING YOUR PROGRAMS...▓"
1630 M=PN:N=M:I%=M
1640 M=INT(M/2):IFM=0THEN1770
1650 J=1:K=N-M
1660 I=J
1670 L=I+M
1680 IFDN$(I)<DN$(L)THEN1730
1690 T$=FI$(I):FI$(I)=FI$(L):FI$(L)=T$
1700 T$=DN$(I):DN$(I)=DN$(L):DN$(L)=T$
1710 I=I-M:IFI<1THEN1730
1720 GOTO1670
1730 J=J+1
1740 IFJ>KTHEN1640
1750 GOTO1660
1760 REM ** SET UP DATA STATEMENTS
1770 FORI=1TON:DS$(I)=STR$(10*(I))+"DAT
A "+DN$(I)+","+FI$(I):NEXT
1780 !OPEN"T:0"NEWLENI%:IFFC%THENPRINTF
C%:STOP
1790 FORI=1TON::PRINT"T:0"DS$(I):IFFC%T
HENPRINTFC%:STOP
1800 NEXT
1810 !CLOSE"T:0"END:IFFC%<255THENPRINTF
C%:STOP
1820 !OPEN"T:0";IFFC%THENPRINTFC%:STOP
1830 PRINT"█▓▓";J=I+Z
1840 FORI=1TOJ
```

```
1850 IFFC%THEN1880
1860 INPUT"T:0"A$;:IFFC%THEN1880
1870 PRINTA$
1880 NEXT
1890 IFFC%=255THENPRINT"GOTO1920":GOTO1
910
1900 PRINT"I="I";GOTO1830":GOTO1910
1910 PRINT"":POKE158,9:FORJ=0TO9:POKE6
23+J,13:NEXT:END
1920 CLOSE"T:0":IFFC%>0ANDFC%<255THENP
RINTFC%:STOP
1930 PRINT"SYS"
1940 POKE158,0:A$="13758458481302"
1950 FORI=1TO7:A=VAL(MID$(A$,2*I-1,2)):
POKE622+I,A:NEXT
1960 ER=1:GOTO1330
1970 REM ** INSTRUCTIONS FOR MENU SETUP
1980 PRINT"THIS PROGRAM SETS UP A MENU
OF THE BASIC"
1990 PRINT"PROGRAMS ON A PEDISK II DIS
KETTE."
2000 PRINT"THE MENU LETS YOU LOAD AND
RUN PROGRAMS"
2010 PRINT"BY SELECTING FROM AN ALPHABE
TIZED LIST"
2020 PRINT"OF DESCRIPTIVE NAMES, EACH U
P TO 26"
2030 PRINT"CHARACTERS LONG."
2040 PRINT"THIS PROGRAM ACCEPTS YOUR D
ESCRIPTIVE"
2050 PRINT"NAMES, SORTS THEM, THEN REPL
ACES ITSELF"
2060 PRINT"IN MEMORY WITH THE MENU PROG
RAM."
2070 PRINT"ONCE THAT IS IN MEMORY, YOU
SAVE IT"
2080 PRINT"ON DISK, USING THE NAME 'M:0
'."
2090 PRINT"THEN WHEN YOU WANT TO USE T
HE MENU,"
2100 PRINT"JUST INSERT THE DISK AND ENT
ER:"
```

```
2110 PRINTTAB(10)"▨   !RUN"CHR$(34)"M:0"
CHR$(34)"   ▨"
2120 PRINT"THE REST IS AUTOMATIC."
2130 PRINT"        ▨▨▨PRESS ANY KEY TO CON
TINUE...";
2140 GETA$:IFA$=""THEN2140
2150 PRINT"▨YOUR DESCRIPTIVE NAMES AND
FILE NAMES"
2160 PRINT"WILL BE IN AN ALPHABETIZED S
ERIES OF"
2170 PRINT"DATA STATEMENTS IN 'M:0'."
2180 PRINT"▨YOU CAN CHANGE THE MENU AT
ANY TIME,"
2190 PRINT"JUST BY CHANGING THE DATA ST
ATEMENTS"
2200 PRINT"AND !SAVING THE NEWLY-MODIFI
ED PROGRAM."
2210 PRINT"▨IF YOU CLOSE YOUR OTHER PRO
GRAMS WITH"
2220 PRINT"A '!RUN"CHR$(34)"M:0"CHR$(34
)"', RATHER THAN WITH 'END',"
2230 PRINT"THEY WILL AUTOMATICALLY RETU
RN YOU TO"
2240 PRINT"THE MENU WHEN THEY ARE FINIS
HED."
2250 PRINT"▨NOW PRESS 'RETURN' TO REVIE
W THESE"
2260 PRINT"INSTRUCTIONS, OR ANY OTHER K
EY TO"
2270 PRINT"BEGIN SETTING UP YOUR MENU .
. ."
2280 PRINTTAB(20)"▨▨▨▨LOUIS F. SANDER"
2290 PRINTTAB(20)"MAY 30, 1982"
2300 GETA$:IFA$=""THEN2300
2310 IFA$=CHR$(13)THEN1980
2320 RETURN
READY
```

The following wish to be listed in the PEDISK Newsletter. Got a
problem, write someone nearby. Got a solution, let everyone know
(including us).

C.L.McCarthy Jr   E. Charles Hinckley PE   Barry Martin
McMaster Inc.   6049 Wrigley Way   L&R Element Repair
1203 River Rd.   Ft. Worth, TX 76133   1923 Cottage
Edgewater, NJ 07020   St. Paul, Minn. 55119

David M Curtis   James A Oldfield Jr   Chester Buchanan
120 Barb Ave   635 Maple   5000 Shopton Dr
Heath, OH 43055   Mt. Zion, Ill 62549   Camp Springs, MD 20748

Louis F. Sander   Daniel Overton   Nelson R. Murphy
153 Mayer Dr   Tri-County High   475 Riverside Rd.
Pittsburgh, Pa 15237   Wolcott, IN 47995   NY, NY 10115

We are pleased to see the list of software growing for PEDISK. We now
have two word processors, two data base managers, mail lists, utilities,
complete assembly language development tools, FORTH, KM3 PASCAL,
communications software, menu drivers, and data transfer programs. Is
their something you would especially like to see? Write and tell us.
We are constantly in touch with major vendors. As you know, we convert
much software ourselves.

Are you having any problems? It is important to make PEDISK the most
reliable system available. If you have spotted any bugs, please write.

By for now.