


# PET, SuperPET and B-128

## Library Listings

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### TPUG Library

Programs that run on one machine do not necessarily run on another. Because of this fact, our library is currently divided into the following sub-libraries:

"C" Commodore 64	"V" VIC 20
"P" PET/CBM	"S" SuperPET
"K" COMAL	"B" B-128
"E" Commodore Educational Software	
"O" Old TPUG prior to March/83	

As Commodore comes out with new computers, TPUG will add sub-libraries e.g. the C-16 and Plus 4 will be covered soon, with the C-128 not far behind.

If you wish to order disks or tapes from our library, please make sure that the programs you order are compatible with the machine you own.

#### Disk Identification

The disks within a library are organized according to a two-character code. The first character is the CATEGORY code (B for business, U for utility, etc.) The second character is a sequence number to separate all the disks in the same group. For example, E1 is Education disk number one, U9 would be Utilities disk nine and UA would be Utilities disk ten. The LIBRARY to which a disk belongs is indicated by a library code in brackets. For example (C)B3 would be the third Business disk in the Commodore 64 library.

The **Category Codes** are:

A	Assembler/Machine language
B	Business
C	Communication
E	Education
G	Games
L	Language
N	Mathematics/Science
S	Music
T	TPUG Monthly Releases
U	Utilities
X	Best of Series
Z	Miscellaneous

All disks/tapes described in this catalogue follow these conventions except for the Commodore Educational Software (see pages 5-7) and the SuperPET Library (pages 2-4).

#### List-Me Copyright

'List-Me' files (one-line documentation) are on all the disks/tapes which have been added to the library since March 1983. These 'List-Me' files are subject to the following:

**"Copyright (C) 1983, Toronto PET Users Group Inc."**  
This means that it is all right to copy 'List-Me's, but they are not to be sold or published for profit.

### Tape/Disk Prices

#### Disks

Members can order club disks by mail, by sending **\$10 for each 4040 / 2031 / 1540 / 1541 disk and \$12 for each 8050 / 8250 disk** (payable in advance). This includes the price of the diskette, the labour involved in copying it, and all postage and packaging charges. If it is convenient for you to pick up disks at the office, the price is \$8 for each 4040, and \$10 for each 8050 disk. Please note, we accept purchase orders from school boards only.

#### Tapes

PET/CBM, or Commodore Educational Software tapes cost \$10 each. Tapes which are picked up at the office are \$8.

For your convenience an order form is enclosed.

### Disk Format

Over the last few years, Commodore has released a number of disk drives for their wide variety of computers. These include the 2040, 4040, 2031, 8050, 1540, 1541, 8250 and 2031SL.

These drives can be divided into two major groups. One is the 35-track, 170K disk drive found in the 2040, 4040, 2031, 2031SL, 1540 and 1541. The second is the 77-track, 500K disk drive found in the 8050 and 8250.

The 2040 disk drive is the original version available for the PET. It contained DOS version 1.0. The 4040 came out next with DOS 2.0 and uses 6 less sectors than the 2040. **This 4040 format is now the standard which we use in copying disks in the 35-track format.** A 4040 disk can be read by the 2031, 1540, 1541 and 2031SL disk drives. However, it is possible that **some of these single disk drives may not be able to WRITE programs onto one of our disks** because of a difference in timing.

The 8250 disk drive is a double-sided version of the 8050 and can read an 8050 disk. Since the 8250 disk takes twice as long as the 8050 disk to format, **in the 77-track format, we distribute only 8050 disks.**

The disk drives which accompany the new computers which Commodore has announced will mean that the TPUG library will be adding other disk formats in the not-too-distant future.

# SuperPET Library

Librarian - Bill Outfield, 416/224-0642

The SuperPET library currently contains approximately 500 files. If you own a SuperPET, you can use disks designed for the CBM 8032 and 8096 in the "O" and "P" libraries, (pages 8-24) as well as those listed below. When using programs for the 40-column PET in conjunction with program "CBM 4032 V2.1" you will have difficulty with the programs activated by the number pad. On the SuperPET the equivalent keys may be anywhere on the keyboard or not addressed at all.

**Note:** The following listings are **not** available on tape.

File names **must** be in lower case to be read easily by Waterloo APL.

(S)T8, (S)T9, and (S)TA are available together on a single 8050 disk.

## (S)T1 - APL

byteapr81pa194  
scans  
etimar79page24  
help  
tutorial  
publications  
byteoct80pa192  
bytejul81pa331  
apl.index  
apl.examples1  
apl.examples2  
apl.examples3  
apl.files  
apl.dos  
apl.mastermind  
wscreate  
wsconv.aplold  
dfconv.aplold  
sep27  
print  
pert  
matrix  
apl.plot  
describe.apl.1:e  
(S)T2-ASM/BAS/FTN  
  
files-waterloo  
mnemonics  
directives  
development  
disas.asm  
disas.cmd  
crt.asm  
crt/b09  
disas.b09  
crt.list  
disas.lst  
disap.map  
disas.mod  
disas.exp  
screen.dump  
get-keyboard  
screen-dump  
PLOT-8300P.WP  
plot-8300p  
checksums  
checksum-results  
smooth.dat  
print.file  
resample.ftn  
periodic.ftn  
regression.ftn  
periodogram.ftn  
spectrum.ftn  
integration.ftn  
describe.t2/1983

## (S)T3-APL ETC.

aplsort  
masterapl  
utilityapl  
statsapl  
primesapl  
telecommapl  
aplcopy  
rapl  
spetr232  
apl-article-e  
totalcobol  
fortranplot  
primefortran  
realdirect  
imagdirect

## (S)T4 - MARCH 83

astro  
driver  
scramble  
START  
BAID9  
EDIT9  
MENU9  
MMON9  
BAID INSTRUCTION  
MICROMON INS  
APL CHARS  
lister.bas  
quicksort.bas  
knights-tour.bas  
concentrate.bas  
blackFjack  
ticFtacFtoe  
fib.asm  
fib.cmd  
fib.b09  
fib.mod  
treesort.pas  
hanoi.pas  
fib.pas  
fact.pas  
directory.asm  
directory.cmd  
directory.lst  
directory.b09  
directory.map  
directory  
directory.exp  
DIRECTORY.INS.WP  
SUPERCAT@32000  
directory.mod  
INSANE

## (S)T5 - EDA (Statistics)

eda.overview.txt  
eda.scats.inf  
eda.condense.inf  
eda.boxplot.inf  
eda.compare.inf  
eda.line.inf  
eda.ctable.inf  
eda.medpol.inf  
eda.smooth.inf  
eda.center.inf  
eda.regress.inf  
eda.addfit.inf  
eda.stemleaf.inf  
eda.displays.inf  
eda.cmprisns.inf  
eda.relation.inf  
eda.tables.inf  
eda.smoothng.inf  
eda.fitting.inf  
eda.mainxtra.aws  
eda.stemleaf.afn  
eda.rownames.afn  
eda.boxplot.afn  
eda.fill.afn  
eda.condense.afn  
eda.dscat.afn  
eda.scats.afn  
eda.line.afn  
eda.compare.afn  
eda.medpol.afn  
eda.ctable.afn  
eda.a3r.afn  
eda.b3r.afn  
eda.smooth3r.afn  
eda.split.afn  
eda.smoothr.afn  
eda.center.afn  
eda.regress.afn  
eda.addfit.afn  
eda.discover.adt  
eda.labels.adt  
eda.insects.adt  
eda.phones.adt  
eda.airmiles.adt  
eda.acids.adt  
eda.crimes.adt  
eda.lobsters.adt  
eda.deaths.adt  
eda.fselect.adt  
eda.apptable.adt

## (S)T6 - WAT-HELP

BANK USER  
SP.B.MOV.V1

SCREEN0  
SCREEN1  
SCREEN2  
SCREEN3  
SCREEN4  
SCREEN5  
SCREEN6  
SCREEN7  
SCREEN8  
SCREEN9  
BASIC MOVER  
mem.linker  
prg.linker.asm  
hlp.linker.asm  
com.linker.asm  
mem.linker.cmd  
APL.TEXT.ed  
apl.util  
apl.i/o  
apl.plot.v2  
ASCII.CBM  
SEQFIL.V1.5  
SEQFIL.V1.5.GT

## (S)T7 - APL.ANSCOMBE.ASP (Statistics)

mult/reg  
apltests  
utility  
reg/plot  
tables  
basic/print  
contingency  
functions  
time  
gain  
plackett  
reg7  
householder  
huber  
aspdata  
ws.description  
6502.LIST-ME

## (S)T8 - DECEMBER 83A

DESCRIBE.DEC/83  
EDIT.MOD  
EDIT.INS  
MENU:FORMAT:B.S  
KEYS:B.S  
ROR:B.S  
word.comb/perm:p  
disas.asm.v1.1  
disas.cmd.v1.1

bankchg.asm.v1.1  
crtDump.asm.v1.1  
crtDisk.asm.v1.1  
disas.mod.v1.1  
mnemonics.v1.1  
directives.v1.1  
gcd.apl  
T2-ASM/BAS/FTN  
factorial.for  
factorial.com  
factorial.cmd  
factorial.mod  
factorial.asm  
note from dick  
note from john  
call.macros  
calln.macro  
fcs.macro  
map  
map.1  
map.2  
robotron.ml  
library.mac  
change.addr.bas  
DISK.VIEW.BAS  
DISK.VIEW.COM  
opsysdis  
opsysdis.1  
opsysdis.2

## (S)T9 - DECEMBER 83B

opsysdis.3  
opsysdis.4  
opsysdis.5x  
opsysdis.6  
opsysdis.7  
opsysdis.8  
opsysdis.9  
opsysdis.10x  
opsysdis.11  
opsysdis.12x  
opsysdis.13x  
opsysdis.14x  
opsysdis.15x  
opsysdis.16x

## (S)TA - DECEMBER 83C

opsysdis.17x  
opsysdis.18x  
opsysdis.19x  
opsysdis.20  
opsysdis.21  
opsysdis.22

## SuperPET...

opsysdis.23x  
opsysdis.24x  
opsysdis.25  
opsysdis.26  
opsysdis.27  
opsysdis.28  
opsysdis.29  
opsysdis.30  
opsysdis.31  
opsysdis.32  
opsysdis.33  
opsysdis.34

## (S)TB - JANUARY 84

describe.jan/84  
console.cmd  
console.asm  
console  
assembler.talk  
fibonacci.asm  
fibonacci.cmd  
fibonacci.mod  
fibonacci.for  
fibonacci.com  
SP.-LIST-ME  
SP.LIST DOUBLES  
SP.SPETCAT  
SP.PRINT ID USE  
SP.PRINT MASTER  
SP.MASTER LIST  
IU SUPERPET INDE  
INDEX+6  
33 THIRTY-THREE  
SP.SEARCH  
DISK TIDIER  
DISK LOGGER.P  
BASIC  
greatcircle.bas  
alpha  
bbs.instruct  
file-maint 12-02  
guide  
help-b  
help-c  
help-d  
help-e  
help-g  
help-h  
help-i  
help-l  
help-m  
help-n  
help-o  
help-p  
help-r  
help-s  
help-t  
help-u  
help-x  
help-y  
help-z  
instruction  
msg-instr  
on-matzke:e  
other-bbs  
pbbs.90  
read.me  
syst-info  
syst-news  
u  
ulf  
welcome

## (S)TC - FEBRUARY 84 (S)TE - APRIL 84

describe.feb/84  
BASIC.AID.0\$9000  
LOAD.\$9000.BANKS  
MENU.9KBANKS.PAL  
MENU.OF\$9K.BANKS  
MICROMON800\$9000  
call.macro  
calln.macro  
scall.macro  
fcs.macro  
edit1.asm  
edit2.asm  
edit3.asm  
edit4.asm  
edit5.asm  
bank1.asm  
bank2.asm  
edit.cmd  
watlib.exp  
edit.map  
edit.mod  
edit.exp  
header.fp  
covariation.fp  
rs1ct.fp  
recipavr.fp  
sedabc.data  
spheracor.fp  
ellipse.fp  
redm01.data  
poisson.data  
npro.fp

## (S)TD - MARCH 84

describe.mar/84  
retrieve.asm  
retrieve.cmd  
retrieve.mod  
reset0.b  
reset.mod  
save.my.text.mod  
save.my.text.asm  
save.my.text.cmd  
save.my.text.doc  
utility.aws  
modem+1.0.cmd  
menu+1.0.asm  
modem+1.0.asm  
modem+1.0.mod  
xmodem.for.VAX  
xmodem.doc.VAX  
xmodem.hlp.VAX  
watlib.expt  
qio.dck.VAX  
modem+1.0.doc  
DESCRIBE.ED  
prepare.aws  
compare.aws  
summarize.aws  
stem.leaf.aws  
households  
licences  
operating  
signal1  
signal2  
signal3  
signal4  
cable  
b/cast  
multi  
data

describe.apr/84  
filename std:e  
listprogram:ft  
listfile:fdd  
normplot:aws  
geig:aws  
amortize:bt  
ballistics:bt  
ra.to.ha:ft  
rise.and.set:ft  
comments:e  
SP.-LIST-ME  
SP.LIST DOUBLES  
SP.MASTER LIST  
SP.PRINT ID USE  
SP.PRINT MASTER  
SP.SEARCH  
SP.SPETCAT1.4  
HOW 1.4 DIFFERS

## (S)TF - MAY 84

describe.may/84  
filename std:e  
copy:bu  
preface:e  
pete article:e  
peter:son:aws  
zeller next  
zeller article:e  
aplchars1:aws  
aplchars2:aws  
aplchars3:aws  
beck next  
beck article:e  
apl.Chrs  
typeapl:men  
typeapl.asm  
typeapl.cmd  
aplchrset:aws  
aplchr:aws  
sdump:au  
adump:men  
adump.asm  
adump.cmd  
type1:men  
asm subroutines  
delay.asm  
delay.b09  
disp.asm  
disp.b09  
read16.asm  
read16.b09  
beck notes:e  
misc next  
loader:au  
dir:men  
U16 BASE2 2K  
U17 BASE2 2K  
U16717 4K  
dos support:aws  
connely stuff:e  
help:e  
reset:men

## (S)TG - JUNE 84

describe.jun/84  
tutorial:e  
tutorial.1:e  
afterthought:e  
patch:e

get keyboard:bd  
try\_codes:bd  
poke:screen:bd  
mbasic\_patch2  
ds:bu  
printfilep:bu  
screentodisk:bd  
printscreens:bd  
guessdemo:bd  
whentab:bu  
change device:bu  
sortdfr:bu  
cancode:e  
massive:bd  
u:men  
u:7ef0  
ulf:7e60  
dir:men  
reset:men  
retrieve:men  
marquee:bd  
dump:bu  
peekhex:bu  
curdemo:fd  
screentodisk:fd  
scrntoprnr:fd  
disktoprnter:fd  
alive:fd  
hexdump:fd  
rhyme:fd  
readfile:fd  
list:f  
iodemo:fd  
readfile1:fd  
timtst:fd  
setdate:fd  
when:men  
scrntoprnr pd  
screentodisk pd  
disktoscreen pd  
dsktoprnr pd  
setprinter pd  
seeclock pd  
timesetsee pd  
datesetsee pd  
primes pd  
factorTals pd  
reverse pd  
systemset pd  
pokefont pd  
setcurs pd  
sdumps:aws  
ulf:men  
alphindex  
banner:bd  
index:e

## (S)TH - SEPT 84

describe.sep/84  
copy.sort.files  
procedure.doc  
sort.merge.dooc  
procedure.macom  
procedure.mac  
sort.merge.for  
sort.merge.cmd  
mem.allocate.b09  
sort.prg.1.0.asm  
merge.io.1.0.b09  
sh1.sort.1.0.b09  
compare.1.0.b09  
test.srt

example.cmd  
example.asm  
example.exp  
example.lis  
example.b09  
recurse.asm  
sort.merge.1.0  
example.mod  
VC404.S BOOT:B  
+VC404B.S  
+VC404M.S  
simplex\_curfit:p  
simplex\_doc:e  
pits.structure:e  
pits.asm  
pits\_island.asm  
pits\_move.asm  
pits\_utility.asm  
pits.cmd  
pits.mod  
pits instr:e  
med\_v1.3

## (S)TI - OCT 84

describe.oct/84  
idioms:aws  
des1:at  
des2:at  
des3:at  
des4:at  
des5:at  
des6:at  
des7:at  
des8:at  
des9:at  
des10:at  
des11:at  
des12:at  
des13:at  
des14:at  
des15:at  
des16:at  
des17:at  
des18:at  
des19:at  
des20:at  
des21:at  
des22:at  
des23:at  
des24:at  
des25:at  
des26:at  
des27:at  
des28:at  
des29:at  
des30:at  
des31:at  
des32:at  
des33:at  
des34:at  
des35:at  
des36:at  
des37:at  
des38:at  
des39:at  
des40:at  
des41:at  
des42:at  
des43:at  
des44:at

continued

des45:at  
des46:at  
des47:at  
des48:at  
des49:at  
des50:at  
des51:at  
des52:at  
des53:at  
des54:at  
des55:at  
des56:at  
des57:at  
des58:at  
des59:at  
des60:at  
des61:at  
des62:at  
des63:at  
des64:at  
des65:at  
des66:at  
des67:at  
des68:at  
des69:at  
des70:at  
des71:at  
des72:at  
des73:at  
des74:at  
des75:at  
des76:at  
des77:at  
spmon:men  
spmon10:men  
spmon.doc0:e

1PASS ASSEMBLER  
NXT2FILES.DOC:BP  
GENERAL EDITOR:P  
SOURCE.CREATOR:BP  
TRS80PutChar.asm  
TRS80PutChar.cmd  
TRS80PutChar.b09  
TRS80PutChar.map  
TRS80PutChar.mod  
TRS80PutChar.exp  
TRS80PutChar:e  
adump.asm  
disp.asm  
delay.asm  
read16.asm  
adump.cmd  
adump.mod  
ddisk.asm  
ddisk.cmd  
ddisk.mod  
diablo.asm  
diablo.cmd  
diablo.mod  
chgadrs.asm  
chgadrs.cmd  
chgadrs.mod  
udump.asm  
udump.cmd  
udump:men  
udumlf.asm  
udumlf:men  
umon.asm  
umon.cmd  
umon:7e60  
ulfmon.asm  
ulfmon.cmd  
ulfmon:7e60  
tab.asm  
tab.cmd  
tab.mod  
when.asm  
when.cmd  
when:men  
usrlib.exp  
call.macro  
fcs.macro

**(S)TJ - NOV 84**

describe.nov/84  
foreground.asm  
background.asm  
frame.asm  
graph.letter.asm  
rs232.start.asm  
scroll.left.asm  
watlib.exp+  
re232.demoo.cmd  
rs232.demo.mod  
key1.2.asm  
key1.2.cmd  
key1.2.mod  
key1.2.doc:e  
GENERATOR  
xmon6809  
XMON6809  
instruct\_exmon:e

**(S)TL - JAN 85**

describe.jan/85  
finish:bpe  
finish.rawdoc:e  
bgmenu:bp  
bar graph:e  
bg Tutorial:e  
bg8032:bp  
g1.gr  
g2.gr  
g3.gr  
sort:bu  
sortdir:bu  
TRANSLATE.BP  
fort patch2:bp  
print2col:bu  
hello.asm  
hello.cmd  
hello:men  
sys patch.asm  
scroll.asm  
irqix.asm  
scrndmp.asm  
gscroll.cmd  
gscroll

**(S)TK - DEC 84**

describe.dec/84  
bigcalc:be  
bigcalc.doc:e  
factorial:bdd  
SCROLLING.DOC:BP  
SCROLLING.PGM:P  
2PASS.ASM.DOC:BP  
2PASS.ASM:P  
DEM01.ASM.S:BP  
DEM02.ASM.S:BP  
SCROLLING.SOURCE  
1PASS.ASM.DOC:BP

nscroll.asm  
nscroll.mod  
nscroll.cmd

**(S)TM - FEB 85**

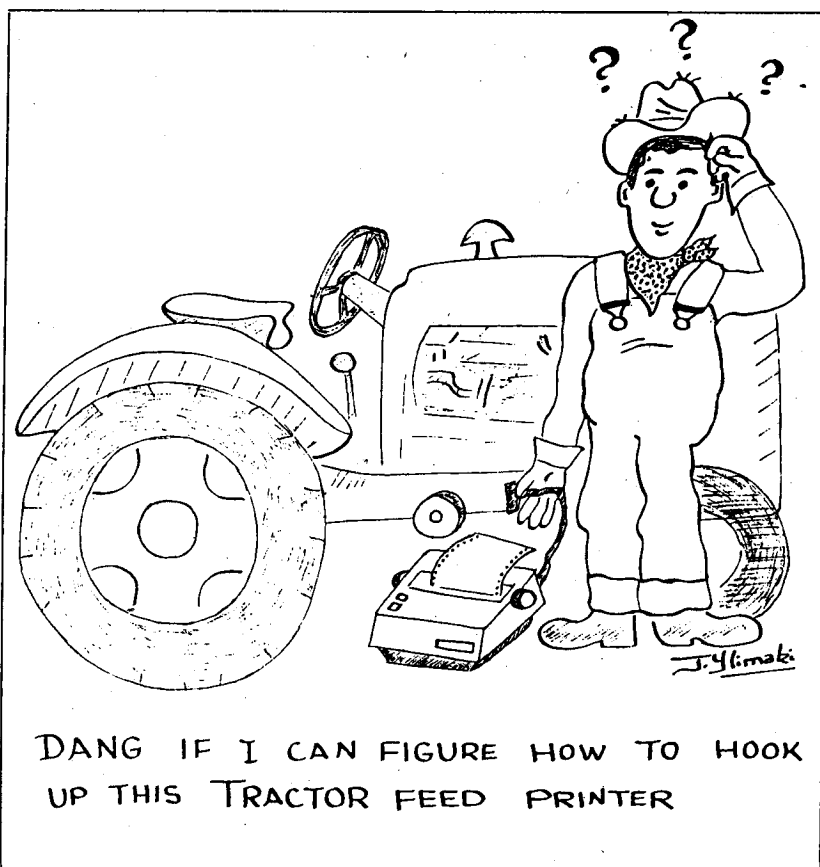
describe.feb/85  
dos:men  
dos instr:e  
dos.asm  
routines.asm  
global.asm  
format.asm  
execute.asm  
directory.asm  
which file.asm  
what next.asm  
print.asm  
erase.asm  
examine.asm  
rename.asm  
feature.asm  
dos.cmd  
copy file.asm  
alpha.asm  
alpha.cmd  
alpha:6000  
alphabig.asm  
alphabig.cmd  
alphabig:0a00  
alphasys.asm  
alphasys.cmd  
alphasys:6000/6

mdir.asm  
mdir.cmd  
mdir:f9000  
mdir.asm  
mdir.cmd  
mdir:men  
profilez.asm  
profilez.cmd  
proofilez.mod  
ml.loader:bp  
COPIER.8050.BP  
count:bu  
mbasic patch2:bp  
protector:men  
loader:au

**(S)TN - MARCH 85**

describe.mar/85  
basicom:ein  
basicom:bu  
demo:bp  
basicom:men  
basicom.cmd  
main.asm  
init.asm  
findstr.asm  
alphabet.asm  
signoff.asm  
accept.asm  
transfer.asm  
bufputB.asm  
term.asm

send.asm  
SEPARATOR:e  
aplinstruct:e  
rose.comml:aws  
comprog:aws  
aplcom:men  
aplcom.cmd  
main70.asm  
init70.asm  
signoff70.asm  
accept70.asm  
transfer70.asm  
bufputB70.asm  
term70.asm  
send70.asm  
SEPARATOR2:e  
zeller tc:aws  
zeller article:e  
basicom.bak  
aplcom.bak  
SEPARATOR3:e  
unicom:bu  
unicom:ein  
unicom:men  
unicom.cmd  
main100.asm  
init100.asm  
signoff100.asm  
accept100.asm  
move100.asm  
transfer100.asm  
term100.asm  
send100.asm  
unicom.bak



# Commodore Educational Software

(Works on PET and C-64 computers)

In November of 1983, TBUG received from Commodore Canada the upgraded and enlarged Commodore Educational Software Library. This series consists of 58 diskettes containing close to 800 programs. These diskettes are identified in our library by a three-character ID starting with (E). These programs are a subset of those worked on by the school boards in the Metro Toronto area. Many of them are updated versions of programs already in our PET library.

ALL these programs, except for those identified by (E)D?, have been modified to work on the following computers: PET 2001 (BASIC 2.0), PET 4000 (BASIC 2.0 OR 4.0, 9- and 12-inch screens), CBM 8032 (use CBM 4032 v2.1), and the Commodore 64. The (E)D? disks have been designed specifically for the Commodore 64 and are not included in this library listing. TBUG members have started to reorganize this series by grade level. The first fruits of their labour are **4 disks of Primary Mathematics, PM1 to PM4, which are not listed below**, but are available from the TBUG office.

**NOTE:** The documentation for the **whole series** is in TORPET 26 (\$2.00 from the TBUG office). Each listing is contained on **one disk or one tape**.

## English...

### (E)EA - ENGLISH 1 (1 disk/tape)

A JOURNEY  
A OR AN  
A STORY  
AFFECT EFFECT  
ALPHA ZATION  
ALPHA  
ALPHABET QUIZ  
ALPHABET WORM  
ALPHABET  
ALPHABETIZING  
ALPHABETTER  
ALPHASHIFT  
ANTONYM  
ANTONYMS CONC  
CINQUAIN

### (E)EB - ENGLISH 2 (1 disk/tape)

CLOZE TESTVI  
CONTRACTIONS  
CRYPTO  
DEF-N-SPELL  
DEFIN'N MATCH  
DEFINE&SPELL  
DEFINITION  
ENGLISH  
FLASH  
FLOOGEPRINTER  
GRAMMAR 2  
GRAMMAR  
GUESS THAT WORD  
HAIKU  
HANGMAN (6)  
HANGMAN 1

### (E)EC - ENGLISH 3 (1 disk/tape)

HANGMAN 2  
HANGMAN 3  
HANGMAN 5  
HANGMAN 6  
HANGMAN 7  
HOMONYMS CONC  
HYPHEN  
INIT DIGRAPHS  
INSERT  
JOTTO  
KEYWORDS  
LETTER RECOG  
LETTER SEQU  
MACBETH QUIZ  
MADLIB  
MATCH LET

### (E)ED - ENGLISH 4 (1 disk/tape)

MATCH MEAN 5  
MATCH MEAN 6  
MATCH MEAN 7  
MEDIAL VOWELS  
MISSING LETTER  
MISSPELLING  
MM ADVERB FORMS  
MM AVB FORMS  
MM CR COMP  
MM CRL 1  
MM DARK WOOD  
MM HOMONYMS  
MM LAD VF  
MM SAD STORY  
MM SHARE TIME  
MM VB FORMS 1  
MM VB FORMS 3  
MM VB FORMS 4

### (E)EE - ENGLISH 5 (1 disk/tape)

MM VB FORMS 5  
MM VB FORMS 6  
MM VB FORMS 7  
MM VB FORMS 8  
MM VB FORMS 9  
MM VERB FORMS  
MM WORD 2  
MM WORD MEANS  
MM WORDS 1  
NEW TACHISTO  
NOT SO EASY  
NOUNS  
OLD PROVERBS  
P'BLEM P'NOUN  
PARTS SPEECH  
PAWS  
PET PIT PAT POT

### (E)EF - ENGLISH 6 (1 disk/tape)

PLURALS  
POEMS  
POET  
POETRY  
Q'S AND Z'S  
READ LEVEL & EVAL  
READER  
RHYMING  
ROMEO & JULIET  
S-SPELL  
SCRAMBLE 4  
SCRAMBLE 5

SCRAMBLE 6  
SCRAMBLE 7  
SCRAMBLE 8  
SCRAMBLE  
SCRAMBLEDWORD

### (E)EG - ENGLISH 7 (1 disk/tape)

SENT ANALYSIS  
SHAKESPEARE  
SNERD  
SNOWY DAY NOUNS  
SP'G ERRORS 5  
SP'G ERRORS 6  
SPEED READ 2  
SPEED READING  
SPEED SPELL 2  
SPEED SPELL 3  
SPEED SPELL 4

SPEED SPELL 5  
SPEED SPELL 6  
SPEED SPELL 7

### (E)EH - ENGLISH 8 (1 disk/tape)

SPEED SPELL  
SPELL BEE  
SPELLER  
SPELLING 1  
SPELLING 2  
SPELLING  
SPELLING TUTOR  
STORY WRITER.VII  
SWAP OLD ROM  
SWAP  
SYLLABLES  
TACHISTISCOPE  
THEIR THERE  
THE WORD MARKET

TWENTY QUESTIONS  
TWO TO TOO  
UNSCRAMBLE

### (E)EI - ENGLISH 9 (1 disk/tape)

VERB CHOICE  
VOCABULARY3  
VOCABULARY4  
VOWEL MAGIC  
WORD DEMO  
WORD DRILL  
WORD HUNT  
WORD INVADERS  
WORD MACHINE  
WORD POWER  
WORD POWER2  
WORD QUEST  
WORD SEARCH  
WORDSHOOT

## Business/Admin...

### (E)AA - ADMIN. 1 (1 disk/tape)

ANALYSIS  
ANSWER BOX  
DOG  
EXAM2  
FIGHT  
GRADES  
QUIZ FRAMEWORK  
READABILITY  
SCHOOL-MARM  
SEX EDUCATION

### (E)BA - BUSINESS 1 (1 disk/tape)

ACCOUNTING  
AMORT'N TABLE  
AMORTIZATION  
BONDS  
CALENDAR  
COMMODITY  
COMP TYPING  
COST GOODS SOLD  
DATE  
DEBIT & CREDIT  
DEBIT CREDIT  
DEPREC & PAYMENT  
DEPRECIATION  
F.I.F.O.  
GROSS PAY  
ICE CREAM

### (E)BB - BUSINESS 2 (1 disk/tape)

INVESTMENTS  
KEYBOARD TEST  
LEMONADE  
LIFE TABLES  
MARKET CRASH  
MARKET  
MONEY FLOW  
MORTGAGE  
OBJECTIVE 1.1

PORTFOLIO  
SIMPLE INTEREST  
STOCK MARKET  
STOCK  
TYPING DRILL

### (E)BC - BUSINESS 3 (1 disk/tape)

TYPING  
WATER II

## Comp Sci...

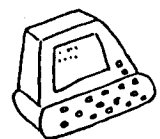
### (E)CA - COMP. SCI. 1 (1 disk/tape)

BASE CONVERSION  
BINARY  
COMMANDS  
COMP CONCEPT  
COMPUTER HISTORY  
COMPUTING  
DEMO SORT  
DISK CMD  
FEATURES QUIZ  
HEX DECIMAL  
HEX DEMO  
HYPO ASSEM  
HYPO II

PETUNIA  
PILOT

### (E)CB - COMP. SCI. 2 (1 disk/tape)

POGO  
SIMULATION  
TURTLE 1



# Science...

## (E)SA - SCIENCE 1 (1 disk/tape)

ACCELERATION  
ALT. & AZIMUTH  
BALANCE CHEM  
BIG OHM'S LAW  
BROWNIAN  
BUOYANCY  
CASCADE  
CHARGED PART  
CHEM 12  
CHEM CALC  
CHEM QUIZ  
CHEM PROB  
CHEMIST  
CHEMISTRY

## (E)SB - SCIENCE 2 (1 disk/tape)

CIRCUIT 3  
CIRCUIT 4  
COMPOUNDS  
COMPRESS  
CYLINDER  
DECAY  
DEFECT  
DENSITY  
DRILL SI  
E- CONFIGUR'N  
E.M.T.  
EARTHQUAKE  
ELECT. QUIZ  
ELECTRICITY  
ELECTRO MAG 2

## (E)SC - SCIENCE 3 (1 disk/tape)

ELEMENT QUIZ  
ELEMENTS  
ENZYMES  
EQUIVALENTS  
FAST FOURIER

FISHING  
FOOD CHAIN  
FORCE CONV  
FREQ & TIME  
FUSE  
GAS EQUATIONS  
GEIGER  
GRAD CYLINDER  
GRAVITY QUIZ

## (E)SD - SCIENCE 4 (1 disk/tape)

HARMONIC DISPLAY  
IDEAL GAS LAW  
INTERFERENCE  
INTERMODULATION  
IONS  
KINEMATICS  
LEVER  
LOCK-KEY  
MAGIC POWDER  
MALARIA  
MASS  
MATCHING QU  
MATCHING SOL  
METRIC CONV.  
MILLIKANS EXP.  
MINI EDISON  
MITOSIS

## (E)SE - SCIENCE 5 (1 disk/tape)

MOLARITY  
MOLE CONCEPT  
MOLECULAR LES  
MOLECULE RACE  
MOMENTUM CAI  
MOMENTUM TEST  
MOTION PROB.  
MUTANT  
NICHE  
NUC REACTOR

OHM2  
ORBIT PLOT  
ORBIT

## (E)SF - SCIENCE 6 (1 disk/tape)

PALKO'S AUDIT  
PERCENT COMP.  
PERCENT  
PERIODIC PROP.  
PH PROBLEMS  
PHOTEL

PHOTOSYNTHESIS  
POLLUTION  
PROJ. MOTION  
PROJECTILE  
RADIO DECAY  
RATE 1  
REG. POW. SUP.  
RESIST TEST V

## (E)SG - SCIENCE 7 (1 disk/tape)

RESISTANCE

RESISTORS  
RMDL CHEMIST  
SOLAR SYSTEM  
SPECIFIC HEAT  
STOICHIOMETRY  
TEMP. CONV.  
TITRATE  
VELOCITY  
VERNIER SCALE  
WAVES 3  
WEATHER MAN  
YOUNG'S

# Miscellaneous...

## (E)FA - LOGICS FRANCAIS 1 (1 disk/tape)

**Business**  
INTERET CMPSE  
**French**  
FRENCH DRILL  
FRENCH NUMBERS  
LE PENDU  
REVUE PASSE  
VERBES  
**Mathematics**  
LES FRACTIONS  
MATRICES MATH  
PROGRES. GEOM  
RACINE CARREE  
SERIE 1

## (E)JA - LANGUAGE 1 (1 disk/tape)

FILIPINO  
FINGER SPELL  
LATIN 123  
LATIN VOCAB  
SWEDISH QUIZ

## (E)NA - MUSIC 1 (1 disk/tape)

MUSIC FILE  
MUSIC MACHINE  
MUSIC THEORY  
PUNK ROCK  
SERIALISM  
SOUNDS

## (E)PA - PHYSICAL & HEALTH EDUCATION 1 (1 disk/tape)

CHILD ABUSE  
DRIVER EDUCATION  
LIFE STYLES  
LIFESPAN  
METEOR  
REACT  
REACTION TEST  
REFLEX TIMER  
RUNNING QUIZ  
YELLOW LIGHT

## (E)TA - TECHNOLOGY 1 (1 disk/tape)

BRILLE  
CIRCUITS  
HOME  
METER READING  
MORSE CODE  
MULTIMETER

## (E)UA-OESP-UTIL. 1 (1 disk/tape)

ALPHA SORT  
BASE CHANGE  
COPY-ALL (HD)  
DISK DISPLAY

DISK LISTER  
GRAPH SUBRT.  
HEXADECIMAL  
KEYBOARD  
MEMSEE  
UNCOMPACTOR

# Games...

## (E)GA - GAMES 1 (1 disk/tape)

ABSTRACT  
AFO!  
ARROW  
ATTRIBUTE BLK  
BATTLESHIP  
BIOCOMPAT  
BOWLING  
BREAKOUT  
CAREFUL  
CASTLE QUEST  
CHASE  
CONCENTR'N 2  
CRAZY BALLON  
CYCLON BATTLE  
DRACULA  
DRAGON ISLAND

## (E)GB - GAMES 2 (1 disk/tape)

DRAGON MAZE  
DRAW 3  
DRAW POKER  
DROIDS  
DUCK SHOOT  
DUNGEON  
ELIZA  
FACES TO MAKE  
FISH  
FOOTBALL  
FROG RACE  
HAMLET  
HARD INVADERS  
HURKLE  
KENO

## (E)GC - GAMES 3 (1 disk/tape)

KINGDOM  
LETTER 15  
MARTIANS  
MASTERMINDSP  
MAZE  
MAZES  
MILLE BORNES  
MIMIC

MOUSE MAZE  
NERVES  
NIM  
NUMBER-TOE  
OSCAR LUNAR  
PETALS-ROSE  
PETMAN 2

## (E)GD - GAMES 4 (1 disk/tape)

PINBALL  
PLANET PROBE  
PONG  
POSTAL ROUTE  
RAGING ROBOTS  
ROAD RALLY  
ROAD TRACK  
ROAD RACE  
ROCKETS!  
ROTATE  
SHOOT  
SNAKES  
SPACE ATTACK  
SPACE PILOT  
SPADES  
STAR TREK IV  
STAR TREK  
SUPERDRAW!

## (E)GE - GAMES 5 (1 disk/tape)

TIC-TAC-PRO  
TICTACTOE 2  
TORCH MAN  
TORP. BOMBER  
WAREHOUSE

# Geography...

## (E)RA - GEOGRAPHY 1 (1 disk/tape)

AFRICA & ASIA  
ANCHORAGE-2  
CAN GEOG QUIZ  
CANADA QUIZ  
CANADA  
CAP CITIES  
CAPITALS  
CITY SMOG  
CLIMATE GRAPHS  
FOREST FIRE  
GEO QUIZ  
GEOG TEST  
GEOGRAPH QUIZ  
GEOGRAPH

## (E)RB - GEOGRAPHY 2 (1 disk/tape)

GEOGRAPHY  
HAMMURABI  
HISTOGRAM  
ICE  
ITALIAN QUIZ  
KOPPEN  
LAKE DISTRICT  
LIMITS

MALI LIFE  
MAP DIRECT  
MILEAGE  
NORTH EAST  
OCEAN QUIZ  
OPEN PIT MINE  
POP DYNAMICS

## (E)RC - GEOGRAPHY 3 (1 disk/tape)

POP LIMITS  
POPULATION  
STATES & CAPITALS  
STATES & REGIONS  
SYMBOLGY  
U.S. POPULATION  
VOLCANO SIMULATION  
WEATHERMAN  
WORLD ATLAS  
WORLD CAPITALS



# Mathematics...

**(E)MA - MATH 1**  
**(1 disk/tape)**

ADD AND SUB  
ADD DRILL  
ADD TEACHER  
ADDING DRILL  
ADDING QUIZ  
ADDITION GAME  
ADDITION RACE  
ADDITION  
ADDS AND SUBS  
AGENT BLOTTO  
ALG. VECTORS  
ALGEBRA DRILL  
ARITH DRILL  
ARITHMETIC 1  
ARITHMETIC  
B.T.C. ADD  
B.T.C. DIVIDE

**(E)MB - MATH 2**  
**(1 disk/tape)**

B.T.C. FRACT  
B.T.C. MULT  
B.T.C. SUBTRT  
BAIRSTOW NTH  
BALANCE  
BASIC MATH  
BEADS IN JAR  
BETWEEN  
BIG BINARY  
BIG DIVIDE  
BIG MATH  
BIG SUBTRACT  
BIGTIME  
BINOM. EXPAN  
BINOMIAL DRIL  
BINOMIAL EXP

**(E)MC - MATH 3**  
**(1 disk/tape)**

BODMAS  
BOMB ADDITION  
BRAIN CRANE +  
BRAIN CRANE /  
BRAIN CRANE X  
CALCULUS

CAR RACE MULT  
CASH REGISTER  
CHANGEMAKER  
CHOICES  
CLOCK  
CO-ORDINATES  
COIN PUZZLE  
COLLECT TERMS  
COLLECTERMS 1

**(E)MD - MATH 4**  
**(1 disk/tape)**

COLLECTERM 2  
COPY CAT  
COUNT 1 TO 10  
COUNT FIVE  
COUNT TEN  
COUNTING  
CURVE FIT  
DARTS  
DECIMAL ARITH  
DECIMAL SIZE  
DECOMPOSE  
DERIV OF POLY  
DICE THROW  
DIV DRILL  
DRILL  
DRILLS  
ELLIPSE TRANS

**(E)ME - MATH 5**  
**(1 disk/tape)**

ENGGAME TWO  
EQU'N MANIP  
EQUATION EXA  
EQUATION X-Y  
EQUATION  
EQUATIONS  
EXPONENT MULT  
EXPONENTS  
FACTOR DRILL  
FACTOR TRI  
FACTOR TRINO  
FACTOR WHOLE  
FACTORIAL  
FACTORS  
FAST MATH

FC'N GRAPH  
FLASHCARDS

**(E)MF - MATH 6**  
**(1 disk/tape)**

FRAC EST/SOUN  
FRACTION GAME  
FRACTION PRAC  
FUNC MACHINE  
FUNC PLOT  
GAUSS REDUCT  
GEOMETRY  
GEOMETRY TERMS  
GRAPH PLOT  
GRAPH PRINTER  
GRAPH SNAP  
GRAPH  
GRAPHING  
HI-CALC  
HI-LOW  
HYPBOL TRANS  
IN-BETWEEN  
INDIRECT EVID

**(E)MG - MATH 7**  
**(1 disk/tape)**

INT.ADD.FAST  
INTERIOR/EXT. ANGLES  
INTEGER ADD  
INTEGER ARITH  
INTEGER LINES  
INTEGERS 2  
INTEGERS  
INTEGRATION  
INTERPOLATION  
INTERSECT LIN  
INTERSECT PT  
INTERSECTION  
INTGR PYRMD  
LADDER MULT  
LAZER MATH  
LIMIT CIRCLE

**(E)MH - MATH 8**  
**(1 disk/tape)**

LINEAR EQN  
LINE INTERSCT  
LINEAR EQUAT

LINEAR SYS  
LONG DIVISION  
MAKING CHANGE  
MARBLE STAT  
MATCH UP NUM  
MATH DICE  
MATH DRILL  
MATH FACTS  
MATH MANIA  
MATH PACK  
MATH SWIM  
MATH TUTOR  
MATRIX MATH

**(E)MI - MATH 9**  
**(1 disk/tape)**

MATRIX  
MEASURE  
MET/STD CONV  
METRIC (ECOO)  
METRIC CONVER  
METRIC DRILL  
METRIC DRILLS  
METRIC M  
METRIC TEST  
METRIC VOLUME  
MICRO MATH  
MICROMATH +-  
MISSING NUM  
MISSING NUMB  
MON. PRODUCT  
MONOMIAL MULT

**(E)MJ - MATH 10**  
**(1 disk/tape)**

MONSTER MULT  
MULT BINOMIAL  
MULT DRILL  
MULTIPLY .GS  
MUNCHKIN MULT  
NUMBER GUESS  
NUMBER SEQ  
NUMBER TRAIN  
NUMBER-TOE 2  
NUMBER  
OPERATIONS  
ORDERED PAIRS  
PARABOLA  
PARALLEL LINE  
PERIMETER  
PERMUTATIONS AND  
COMB.  
PERMS & COMBS  
PI CALCULATOR

**(E)MK - MATH 11**  
**(1 disk/tape)**

PIZZA  
PLACE VALUE#3  
PLACE VALUE  
PLANES  
PLANET INTEGR  
POLAR I  
POLICE SUBTR  
POLY PLOT  
POLYFIT  
POLYGON SECT  
POWER-FACT  
POWERS & ROOTS  
PRIME # SIEVE  
PRIME FACT

PRIME FACTOR  
PRIME NUMBERS  
PROBABILITY  
QUAD. EQ'N

**(E)ML - MATH 12**  
**(1 disk/tape)**

QUAD  
QUEUE  
QUIZ ADD  
QUIZ DIVISION  
QUIZ MULT  
QUIZ SUBTRACT  
R-PLOT  
RANDOM  
RECIPES  
REDUCE FRACT  
RESULTANTS  
REVERSE 1  
RND GENERATOR  
ROLLS TIL ONE  
ROMAN  
ROOTFINDER  
ROOTS QUIZ  
S.B. MATH  
S.N.B'KETBALL

**(E)MM - MATH 13**  
**(1 disk/tape)**

SCIENTIFIC  
SHAPES  
SI.CONVERSION  
SIEVE  
SIGNIF DIGIT  
SIMEQ. SOLVER  
SIMP.SUBST.  
SINE GRAPH  
SLOPE AND INT  
SLOPE/INTRCPT.  
SMALL MATH  
SNOOPY  
SPLASHDOWN  
STATISTICS 1  
STATISTICS 2  
STATISTICS 3  
STATISTICS

**(E)MN - MATH 14**  
**(1 disk/tape)**

STORY PROB  
SUBTRACTION  
SURVEY  
SYMMETRIC  
TABLES  
TIC TAC ARITH  
TIC TOC CLOCK  
TIME OF DAY  
TIMES TIMER  
TRANSLATION  
TREASURE ADD  
TRIGONOMETRY  
TRINOMIAL FACTORING  
TWELVE BLOCKS  
UP THE LADDER  
VECTOR ALGEB.

**(E)MO - MATH 15**  
**(1 disk/tape)**

VECTOR  
VELOCITY PROB.  
Y EQUALS MX+B  
ZERO IN  
ZONE X

## Problem Solving...

**(E)LA - LOGIC &**  
**PROBLEM SOLVING 1**  
**(1 disk/tape)**

A V OR M  
ANDROID NIM  
BOTTLECAPS  
BUTCH & SLIM  
CHESS BOARD  
CONCENTRATION  
CRAPS  
CRYPTOGRAM  
CUBE  
DRAW CAVE  
ENERGY  
FLIGHT SIMUL  
FUR TRADE  
GUNNER  
HI-Q  
IN-ORDER

**(E)LB - LOGIC &**  
**PROBLEM SOLVING 2**
**(1 disk/tape)**

IQ-TEST  
KALAH  
KNIGHT'S TOUR  
LABYRINTH  
LOGIBLOCK  
MAGIC SQUARE  
MASTERMIND 2  
MASTERMIND 3  
MATCHES  
MAZE GENERAT  
MUGWUMPS  
OBJECT  
OSERO  
OTHELLO 2  
OTHELLO FOR 2

**(E)LC - LOGIC &**  
**PROBLEM SOLVING 3**  
**(1 disk/tape)**

OTHELLO  
PUZZLE

QUEST 3  
REMEMBERING  
REVERSE  
RHYMECONC  
SEVEN GABLES  
SLOT MACHINE  
SNARK  
SOLITAIRE  
TIC TAC TOE  
TOWER HANOI  
TRACE-A-WORD  
TWENTY QUEST

**(E)LD - LOGIC &**  
**PROBLEM SOLVING 4**  
**(1 disk/tape)**

US CIVIL WAR  
WATCHPERSON  
WEIGH  
WESTWARD HO  
WUMPUS  
YAHTZEE

# PET/CBM Libraries "O" and "P"

Librarian - Mike Donegan, 416/639-0329

## Programs for the PET

**NOTE:** Each listing is contained on **one** disk or **one** tape. Some are available only on disk. **"(disk only)"** appears under the title.

The majority of the more than 2,000 programs currently in the "O" and "P" libraries will run on a 40-column PET. Please note, there are four different versions of the PET:

1. **PET 2001 - BASIC 1.0** original ROM. The original small keyboard PET had BASIC 1.0 inside.
2. **PET 2001 - BASIC 2.0** upgrade ROM. The first large keyboard PET had BASIC 2.0 inside. The original PET could be upgraded to BASIC 2.0 by changing the ROM set.
3. **CBM 4032 - BASIC 4.0.** This version of the PET had a 9-inch screen with BASIC 4.0. Previous large keyboard machines can be upgraded to BASIC 4.0 from BASIC 2.0. The original small keyboard PET can not be upgraded to BASIC 4.0.
4. **CBM 4032 - FAT 40, BASIC 4.0.** This version of the PET has a 12-inch screen and a slightly different version of BASIC 4.0. This machine also has the same screen controller as the 8032.

Most of the programs in the **"O" PET library** will work on all of the above machines. However, programs written in machine language or programs with PEEKs and POKEs to the operating system, will only run on the machine for which they are written. These special programs are divided into three groups. These are: BASIC 2.0, BASIC 4.0 and BASIC 4.0 (FAT 40). MOST DISKS CONTAIN VERSIONS FOR EACH TYPE OF COMPUTER. The one exception is the "Best of ... Games" for the PET. (O)X3 is only for BASIC 2.0 machines, (O)X4 is only for BASIC 4.0 machines, (O)X7 is only for BASIC 4.0, FAT 40 machines.

Programs on disks and tapes in the **"P" PET library** (released since February 1983) have Program Codes. A period plus the **Program Code** is appended to the end of each program name on the disk or tape.

- .Z All Commodore machines or unspecified
- .P All PET/CBM machines
- .4 40-column PET/CBM, 9" screen
- .F Fat 40, 40-column PET/CBM 12" screen
- .8 80-column CBM
  
- .D Data or Sequential files
- .L List-Me file (one-line documentation)
- .W Word Processing files

Also, please note that the "E" series of Commodore Educational Software (pages 5-7) will all run on all BASIC 2.0 and 4.0 PETs.

## Programs for the 8032 and 8096

Many of the programs in the "O" and "P" libraries will run on the 8032, 8096 and SuperPET. Some of the machine language programs, for example, are available in an 8032 version. These include Basic Aid (BAID480A & BAID480P) on disk (O)X1 and Adventure on (O)X5. Many of the games written for the 40-column PET can run on 8032 based computers but will require the 40-column simulator found on (O)X1 (CBM 4032 V2.1). Just load in "CBM 4032 V2.1" and RUN. You now will have a 40-column screen on your 8032 based computer. Remember, programs with the program code .8 were specifically written for 80-column CBM machines.

Programs that will **NOT** run on the 8032 based computer include the following:

1. Many of the programs written in machine language.
2. Most VIC 20 and Commodore 64 programs.

Some **good choices** of disks for the 8032 based computer are: Business - (O)B2, (P)B6; Communication - all disks; Education - (P)XB; Games - (O)G7, (O)X5; Math/Science - all disks; Utilities - (P)UB, (O)X1, (O)X2; Miscellaneous - (O)Z1, (O)X6.

Also, please note that the "E" series of Commodore Educational Software (pages 5-7) will all run on the 8032 based computers (CBM 4032 V2.1 is included with each disk or tape).



# Miscellaneous...

**(0)Z1 - MISC. 1**  
**(1 disk/tape)**  
 UNIVERSAL WEDGE  
 KALEIDOSCOPE  
 SCRAMBLE-BTTRFLD  
 PATTERN MAKER  
 MYSTERY-BUTTRFLD  
 PEOPLE  
 MAZE  
 PET CHARACTERS  
 NIGHTMARE  
 SCAN  
 PHUZZY & WHUZZY  
 DISPLAY LETTERS  
 DRAGON  
 LOVE  
 HALLOWE'EN  
 ABACUS  
 CANARY  
 FORMAT  
 CALENDAR-LOWNDES

HALLOWE'EN2  
 CARTOON!  
 HEART DRIVER  
 MELODY CHANGES  
 BAR.GRAPH.ALT  
 CALENDAR.ALT  
 SNOOPY.DANCING  
 DARTH.VADER.PIC  
 ETCH-A-SKETCH  
 SCRAMBLED.MSG  
 JULIAN CALENDER  
 GRAPH.PRINTER  
 PATTERNS  
 CASCADE  
 BIG LETTER ADS  
 GRAPHIX INSTR  
 GRAPHICS-LOADER  
 GRAPHICS-DEMO  
 ONELINE SQUIGGLE  
 MEMORY CALENDAR2  
 CANNATA

MEMO CALENDAR  
 CANBAL&MISSY.SOL  
 MEMORY MONITOR  
 TIMES SQUARE  
 BASIC.HUMOROUS  
  
**(0)Z2 - MISC. 2**  
**(1 disk/tape)**  
 UNIVERSAL WEDGE  
 GRAPHICS  
 GRAPH SUBS  
 E-ROM DEMO  
 TWENTY QUESTIONS  
 WOTAG  
 RECIPE  
 SAUCE  
 INSULTER  
 GRAPHIX SORT  
 PEARL HARBOR  
 CLOCK  
 CLOCK 8032

PHONE SOUNDS  
 PI DEMO 8032  
 SCROLL DEMO  
 FINE-PLOT DEMO  
 BANNER/R  
 NEW LOTTARIO  
 ESP  
 WORLD CLOCK  
 SCUBA ADVENTRUE  
 MEMOCAL 2.2

WWVIII.8  
 WWIX.8  
 WW WORD LIST.D  
 WWI.4  
 WWII.4  
 WWIII.4  
 WWIV.4  
 SUPERSPEED SORT.  
 NOS TRANSLATOR3  
 FINANCE 1.4  
 MUSIC LESSON  
 MUSIC LESSON 2

**(0)X6 - BEST MISC. 1**  
**(1 disk/tape)**  
 EASY EDIT/TAPE  
 EASY EDIT/DISK  
 EASY EDIT/C  
 EASY EDIT/MX-80  
 EASY.EDIT.MX-82  
 PAGE1 EZE EDIT  
 PAGE2 EZE EDIT  
 PAGE3 EZE EDIT  
 PAGE4 EZE EDIT  
 PAGE5 EZE EDIT  
 PAGE6 EZE EDIT  
 WORD PRO TH2058  
 READ WP2040  
 HI MEMORY106  
 INSTRUCTIONS#7  
 WORD P DEMO  
 WP TAPE2058  
 READ WP TAPE2040  
 TAX 81 ONT V1.0  
 GRAPH.PRINTER  
 GRAPHIX INSTR  
 GRAPHICS-LOADER  
 GRAPHICS-DEMO  
 MAIL LIST 4040  
 4040 UPDATE  
 4040 FORMAT  
 4040 PRINT  
 4040 MENU  
 MAIL LIST 8050  
 8050 FORMAT  
 8050 UPDATE  
 8050 MENU  
 8050 PRINT  
 V40.2.B  
 V40.4.B  
 V80.4.B  
 E.G SET-UP 80COL  
 WP3/4 INST1  
 WP3/4 INST2

**(P)X9 - BEST MISC. 3**  
**(1 disk/tape)**  
 LIST-ME (P)X9.L  
 COPY-ALL  
 MULTI-INVADERS!  
 WATERMELON  
 SPREAD SHEET 40T  
 SPREAD SHEET80DT  
 PRINT USING  
 PRINT USING&TEST  
 PRNT USING ML  
 SCREEN ROUTINES  
 BAS&ML COMBINER  
 QUIET AFTERNOON  
 Q-BACK CHALLENGE  
 COSMIC FIGHTER  
 HEX DUMPER 80  
 FIZZBIN  
 FIZZBIN 8K RULES  
 FIZZBIN 8K GAME  
 PUKMAN  
 STAR SYSTEM  
 WARLORDS INSTR  
 WARLORDS GAME  
 BLOCKADE  
 ALIEN BLASTER  
 OUTPOST-ML3  
 OUTPOST  
 MINEFIELD 2

**(P)XA - BEST MISC. 4**  
**(1 disk/tape)**  
 LIST-ME (P)XA.L  
 VISIBLE PET  
 TOLL BRIDGES  
 STAR LANES  
 TV SATELLITES  
 BILLBOARD  
 DOCTOR 8032  
 DOCTOR.INS  
 BOWLING  
 SIMCAL INSTR.W  
 SIMCAL.Z  
 LOAN AMORT.8  
 SCOPY5.8  
 SCOPY INSTR.8  
 FAST INVADERS.8  
 CRYPTOGRAMS.P  
 TURTLE.8  
 CBM 4032 V2.P  
 WP BUSTER/PET.P  
 DISK LOGGER.P  
 SUPERMON INST.P  
 SUPERMON1.REL.4  
 SUPERMON4.REL.P  
 SUPERMON2.REL.P  
 MORTGAGE.Z  
 DISASSEMBLER.P  
 PROG CONVERTER.Z  
 STORYWRITER/V11.P

**(P)X8 - BEST MISC. 2**  
**(1 disk/tape)**  
 LIST-ME (P)X8.L  
 INVADERS 4.4  
 FAST INVADRS 4.4  
 ACROBAT.F  
 CAR RACE.F  
 MISSION IMP.F  
 NIGHT DRIVER.F  
 BACKGAMMON.F  
 DISK MASTER V2.P  
 5TH SCOTTE-INST.  
 5TH SCOTTE.P  
 ML STOPKEY.P  
 TAPE PHONPHILE.P  
 DISK PHONPHILE.P  
 PHONE NUMBERS.P  
 WWV.8  
 WWVI.8  
 WWVII.8

# Music...

**(0)S1 - MUSIC 1**  
**(1 disk/tape)**  
 UNIVERSAL WEDGE  
 COPY ALL  
 NEW ROM MUSIC  
 OLD ROM MUSIC  
 76 TROMBONES  
 1950'S MEDLEY  
 ALLELUJAH  
 BAMBOO TREE  
 BARCAROLLE  
 BAROQUE FANFARE  
 BLACKBIRD  
 BUMBLE BEE  
 CANDY FAIRY  
 COME SW DEATH  
 DANSE CAPRICE  
 DUELIN BANJOS  
 EASY WINNERS  
 ELEANOR RIGBY  
 ELEPHANT  
 ENDLESS SCALE  
 ESPANA

FIDDLER  
 FUGHETTA  
 FUR ELISE  
 GAVOTTE&MUSETTE  
 INVENTION #4  
 INVENTION #5  
 INVENTION #8  
 INVENTION #11  
 INVENTION #14  
 JESU/JOY  
 JET PLANE  
 JINGLE BELLS  
 LE TAMBOURIN  
 LOVE STORY  
 MAPLE LEAF  
 MARCHE MILITAIRE  
 MIN.IN D  
 MINUTE WALTZ  
 MNT.GREENERY  
 MUSETTE  
 MUSIC BOX DANCER  
 OB-LA-DI  
 OCTOPUS

ORGAN FUGUE  
 PALINDROME  
 POLONAISE IN BFL  
 PRELUDE&FUGUE  
 PRISCILLA  
 PROMENADE  
 REED FLUTES  
 REEL  
 RICH MAN  
 SILENCE  
 SINFONIA  
 SINFONIA #1  
 SINFONIA #2  
 SINFONIA #3  
 SINFONIA #10  
 SINFONIA B FL  
 SKELETON DNCE  
 SONATA L.82  
 SONATA RONDO  
 SONATINA  
 SPINNING SONG  
 SPRING SONG  
 STAIRWAY  
 STARSPGL BANNER  
 SYNC. CLOCK  
 TARENTELLA  
 TEN XMAS SNGS  
 THE ENTERTAINER  
 THREE TUNES  
 TWO GUITARS  
 VALSE TRISTE  
 WATER MUSIC  
 WEE MAN  
 WELL TEMPERED  
 WELLS FARGO  
 WHEN I'M 64  
 WONDERLAND  
 YAKKITY SAX  
 YELLOW SUB  
 YESTERDAY

# Language...

**(P)L2 - COMAL 2**  
**(disk only)**  
 COMAL STARTER  
 COMALO.12LOADER  
 COMAL1.02LOADER  
 COMAL-VERO.12  
 COMAL-VER1.02  
 COMR  
 COMALERRORS  
 EVALUATORO.12.L  
 QUICKSORT/DEMO.L  
 UTILITIESO.12.L  
 RECURSIONSO.12.L  
 HANOI8032-0.12.L  
 REMOVE //0.12.L  
 PUZZLE.DATA  
 PUZZLE'CREATE.L  
 PUZZLE'SOLVER.L  
 SOLUTION.DATA

PUZZLE'PLOTTER.L  
 EIGHT'QUIEENS.L  
 LABYRINTH1.02.L  
 LABYDATA  
 HISTOGRAM.L  
 LABYGEN1.02.L  
 COMALDICE.L  
 DENCHMARKSYS.L  
 BENCHMARKSYS.B  
 FILE'TO'PRINT.L  
 GET'CHAR.L  
 SCAN.L

**(0)L3 - LANGUAGE 3**  
**(1 disk/tape)**  
 LOADER FORTH  
 FORTH DISKO  
 FORTH H75.6



# Games...

**(0)G1 - SIMULATION 1**  
**(1 disk/tape)**

ADVBOOT  
ADV 0  
ADV 1  
ADV 2  
ADV 3  
ADV 4  
ADV 5  
ADV 6  
ADV 7  
ADV 8  
ADV 9  
ADV 10  
ADV 11  
ADV 12  
ADV 13  
ADV 20  
ADV 21  
ADV 22  
ADV 23  
ADV 24  
ADV 25  
ADV 26  
ADV 27  
ADV 28  
ADV 29  
ADV 31  
ADVKEYS  
ADVSHOR  
ADVMAP  
ADVITM  
ADVENTURE  
HAMURABI  
TOMBS A-BNNYCSTL  
TOMBS B-BNNYCSTL  
EXPLORE-BTTRFLD  
LIFE  
ADV30 INTRO  
ADV30 GAME  
QUEST 3.0  
HAMMURABI  
ADVENTURE-M.B.  
ADVENTURE GAME  
FISHERY  
POLUT  
POWER INSTRUCT  
POWER SIMULATION  
KINGDOM/PIGS  
DOG.STAR.ADVEN  
DUNGEON 1,4  
DUNGEON.AL3

**(0)G2 - SPACE 1**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
OSC LUNAR  
STAR WARS!  
STAR TREK  
LUNAR LANDER 1  
LUNAR LANDER-BFD  
STARTREK V18 #  
SUPER STAR TREK  
ELIZA  
STAR WARS  
KLINGON CAPTURE  
STARTREK.AL4  
EASY.DUNGEON!  
PLANET.PROBE  
C.C.STARWAR.INS  
C.C.STARWAR  
SUPERLANDER  
SPACESHOOTER.AL3  
HUNTER.SATELLITE

STARBASE&UFO!  
DEEPSPACE 1.0  
STAR WAR TRANINE  
AFO WITH SOUND  
ATARI II

**(0)G3 - WRD/NUM 1**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
BAGELX2-BTTRFLD  
CRYPTO-BTTRFLD  
JOTTO-BTTRFLD  
REVERSE-PUNTER  
NIM-BUTTRFLD  
BAGELS-BUTTRFLD  
ANDROID NIM!  
BRAIN STRAIN  
PIGS  
HANGMAN  
HANGMATH  
MATH IQ  
KENO  
MAGIC.SQUARE  
CRAPS.ODDS  
MASTERMIND  
REVERSE.#S  
BINGO  
LETTER.15  
SIMON!  
CONCENTRATION.7  
HANGMAN.AL3  
FAMOUS PHRASES  
GUESS IT  
3D TIC-TAC-TOE  
TIC-TAC-TOE 2.0  
STARS  
HANGMAN-2/PETS

**(0)G4 - GAMES 1**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
HORSE RACE  
ARROW-BTTRFLD  
POKER-PUNTER  
DEFLECTION  
BATTLESHIPS  
BREAKOUT  
PETALS ARND ROSE  
OTHELLO  
SOLITAIRE-PUNTER  
BL JACK-PUNTER  
ROBOT CHASE!  
CHASE/ROBOT  
SNAKES!  
TARGET-BUTTRFLD  
GO-MOKU  
CHECKERS 1  
ROULETTE  
MOTORCYCLE  
CHECKERS 2  
AWARI  
BOWLING  
LIFE WAR  
FLIGHT SIMULATOR  
BLACK BOX!  
INSP. CLEW-SO  
BOMBER  
BLACK JACK 4.1  
RACETRACK  
PRO FOOTBALL  
AIRPLANE  
SKI  
DAMBUSTERS  
TOKER

KENTUCKY DERBY  
LABYRINTH  
PINBALL  
DUCKSHOOT  
BLACKJACK!!



**(0)G5 - GAMES 2**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
KILLER BUNNIES  
FAWLTY  
OTHELLO  
CARD SNAP  
DEPTH CHARGE  
MOVMAZE1  
MOVMAZE2  
ARROW  
CARDS UTILITY  
GRUNGY TOWERS  
BREAKOUT  
CONCENTRATION  
GUNNER  
OSERO  
SNAKE 2  
SUBMARINE!  
TARGET  
QUBIC.AL3  
MOUSEMAZE  
QUANDRY  
CLOUZOT!  
SNAKE.AL3  
SPADE.INSTRUCTS  
SPADES  
ANTI-AIR/BUS  
BATTLESHIP.AL2  
BILLIARDS!  
CLUE  
DOMINOES  
DRAW.POKER  
M.B.INSTRUCTIONS  
MILLE BOURNE  
DRAGON.MAZE!  
MADMAN.RACE  
DICE.PIG  
FIND.COLOR

**(0)G6 - GAMES 3**  
**(1 disk/tape)**

SIMON  
UNIVERSAL WEDGE  
TANK.WAR.AL3  
HORSERACE  
SNOWFLAKE  
WUMPUS.AL3  
BOWLING  
TREES

SUBMARINE  
BILLIARDS  
CHECKERS.AL3  
TORPEDO.BOMBER  
AWARI  
BLACKJACK.AL3  
BOMBER.AL3  
TANK.BATTLE  
KNIGHT.TOUR.SOL  
TAG  
WEIGH  
MUGWUMP  
IAN'S RACE (N)  
BREAKOUT 3.1  
BRIDGE BID TRAIN  
GOLF  
QUBIC  
REFLECTIONS  
SINNERS  
ARTILLERY TRAP  
BOXING  
DOT RACER  
HORSES  
HURKLE  
PONG  
POP SHOT  
ROAD RALLY  
SLOTS/JACKPOT  
YAHTZEE  
BLACKBOX  
BASKETBALL  
SOLITAIRE POKER  
T.TENNIS  
BOGGLE

**(0)G7 - SIMULATION 2**  
**(1 disk/tape)**

ADVENTURE80  
ADV9 0  
ADV9 1  
ADV9 2  
ADV9 3  
ADV9 4  
ADV9 5  
ADV9 6  
ADV9 7  
ADV9 8  
ADV9 9  
ADV9 10  
ADV9 11  
ADV9 12  
ADV9 13  
ADV9 20  
ADV9 21  
ADV9 22  
ADV9 23  
ADV9 24  
ADV9 25  
ADV9 26  
ADV9 27  
ADV9 28  
ADV9 29  
ADV9 31  
ADVSH9  
ADVSH8  
ADVKEYS  
ADVMAP  
ADVITM  
UNIVERSAL WEDGE  
SWORDS & SORCERY  
BABY CARE  
NICHE  
NEW WATER

NEW ROM WARLORDS  
NEW WARLORDS INS  
OLD WARLORDS INS  
OLD ROM WARLORDS  
LOST DUTCH GOLD  
SPELUNKER  
AFRICAN ADV-32K  
HS.OF.7.GABLES

**(0)G8 - GAMES 4**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
MISSION IMP  
CAR RACE 4.0  
BREAKOUT  
BREAK80  
STOCK  
STOCK 80 COL  
ROULETTE  
MONOPOLY  
CRAZY 8'S

**(0)G9 - SIMULATION 3**  
**(1 disk/tape)**

OHARE'S #1  
OHARE'S #2  
OHARE'S #3  
WIZARD'S.CASTLE  
TRIP TO ATLANTIS  
KING.TUT  
SORCERERS.CASTLE

**(0)GA - GAMES 5**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
BLACKJACK 80 COL  
SLOT MACH 80 COL  
CYCLE JMP 80 COL  
DRAG RACE 80 COL  
ASTEROIDS  
BLOCKADE  
SEABATTLE INST  
SEABATTLE  
PIRATE ADVENTURE  
PINBALL  
WILL O' WISP  
PET NUC PWR PLNT  
PETMAN 5  
BASEBALL 7.3  
MONOPOLY  
SUPERTREK/16KNR  
CONNECT 4  
PI HUNT

**(0)GB - GAMES 6**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
STOCK MARKET!  
WUMPUS II  
RAGING ROBOTS 4  
BIG LETTER BOGGL  
HANGMAN 7  
CONCORD LANDER  
JUMBO JET LANDER  
QUBIC 4  
SUPER 9X9  
YAHTZEE IV  
SLEUTH  
YOTE  
BATTLESHIP  
DRAGSTER  
CROSS WORD

- (P)GD - GAMES 8  
(1 disk/tape)**
- LIST-ME(P)GD.L Contains information about the programs on (P)GD.
- ALIEN BLASTER.4 Shoot-em up blast the alien target.
- BASIC HUMOROUS.Z The BASIC that Commodore forgot to include.
- BLOCKADE.4 Two players - blockade your opponent to win.
- COSMIC FIGHTER.4 Action game for 40-column PETS.  
f - fire, 8 - up, 2 - down,  
4 - left, 6 - right
- CRYPTOGRAM.Z Codes and ciphers - get letter frequency counts.
- CUBE.4 Rubic's cube.
- DOMINOES.4 Play dominoes against the PET.
- ELIZA.Z Humour - let your computer analyze your problems.
- F INVADERS.F Space invaders for the Fat 40.
- FAST INVADERS.8 Space invaders for the 8032.
- HIGH Q.4 Play High-Q - jump pegs until only one is left.
- LABYRINTH.4 Search a labyrinth - choose the size yourself.
- M.B.INSTRUCTIONS Instructions for the game Mille Bourne.
- MILLE BOURNE.4 The board travel game get points as you travel.
- MINEFIELD 2.4 Try to navigate the minefield avoid the mines!
- NIGHT WAR.8 Turn to see target, estimate angle and fire.
- NIGHT WAR DATA Night war data file, lowest and highest scores.
- OUTPOST A machine language file for "OUTPOST-ML3".
- OUTPOST-ML3 Outpost radar - uses file named "OUTPOST".
- PETALS ARND ROSE Guess the score of the dice roll
- PUKMAN Packman game.
- ROCK TRIVIA.8 Trivia questions on rock-n-roll for the 8032
- SPADE INST.4 Instructions for the game Spades
- SPADES.4 Cards - 4 handed cut-throat spades.
- STAR LANES .4 Galaxy trader - trade shares to make money.
- STAR SYSTEM.4 Explore a star system and try to survive.
- TOLL BRIDGES.4 Cross toll bridges to collect points to win.
- WARLORDS GAME.4 The game of Warlords with some improvements.
- WARLORDS INSTR.4 Instructions for the Warlords game.
- (P)GE - GAMES 9  
(1 disk/tape)**
- LIST-ME(P)GE.L Contains information about the programs on (P)GE.
- BOGGLE A.P A word search game against the PET, not easy to beat, uses "BOGGLEML B.P".
- BOGGLEML B.P Word search game, machine language prog called by "BOGGLE A.P".
- CATERPILLAR.P Eat leaves with your caterpillar, don't hit the wall and don't eat yourself.
- EPIDEMIC.4 Simulation game of an epidemic, try to control it.
- EYE OF KADATH.Z Adventure game 32k (!) BASIC.  
G O L F.P A good golf program, 9 holes and different clubs.
- GALACTIC GT.4 Galactic war chase with screen action.
- KING.P Simulation game of economics, try to run the country and keep the peasants happy.
- ORBITSTREAK.8 Dodge the asteroids or shoot them, but shooting them costs points!
- ROULETTE.4 Play roulette on your 40-column PET.
- SPACE INV.4 Space invaders for the PET, fast action, a classic.
- (P)GF - GAMES 10  
(1 disk/tape)**
- LIST-ME(P)GF.L Contains information about the programs on (P)GF.
- ARTILLERY.8 Artillery duel - fire the cannon and watch the shell trajectory.
- BOWLING.4 Bowl 5 pin - up to 4 possible players.
- CHOMPER PRG.Z A pacman-like game - loaded by "CHOMPER TITLE.Z".
- CHOMPER TITLE.Z A pacman-like game, animated title, instructions included, loads "CHOMPER PRG.Z".
- DEATH LANE.P Car race - dodge the obstacles, shoot the targets.
- EAT-MAN.F A pacman type-game for the Fat 40.
- FURY.P An animated space shoot-em-up game.
- MAFIA APPLIC.P An amusing job application form.
- NIGHT DRIVE.P Race your car - don't crash!!!
- NUMBER RUBIKUB.P Rubic's cube game, practice or play.
- PET GOBLIN.P Simple game - avoid the walls and collect points.
- PET LIZZARD.P Game for kids - good for eye-hand coordination.
- PET STOCK MKT.P Play the stock market.
- PET-MAN 4000.P Interesting version of pacman.
- QUESTS&SORCERY.P Adventure game - battle dragons and sorcerers etc.
- ROADRACE 500.P Road racing - the Indy 500?
- ROULETTE GAME.P Play roulette on your PET.
- ROULETTE INST.P Instructions for "ROULETTE GAME.P".
- SID.P Navigate a maze but avoid the walls.
- SKI.F The PET ski game for the Fat 40.
- SNAKE-PIT.Z 2 player chase game but avoid the traps.
- STAR-FORT.P A space invaders type game.
- THE VALLEYINST.Z Instructions for "THE VALLEY.Z",  
dungeon & dragons
- THE VALLEY.Z Dungeon & dragons with graphics, see "THE VALLEYINST.Z" for instructions.



# Best of Games...

**(0)X3 - BEST GAMES 1**  
(1 disk/tape)

**BASIC 2.0 PET ONLY**  
 INVADERS 2.0  
 FAST INVADRS 2.0  
 ACROBAT 2.0  
 CAR RACE 2.0  
 MISSION IMP 2.0  
 NIGHT DRIVER 2.0  
 BACKGAMMON 2.0  
 OTHELLO  
 BREAKOUT  
 ASTEROIDS  
 PINBALL  
 PETMAN 5  
 JOYSTICK INV 2.0  
 BLOCKADE  
 BASEBALL 7.3  
 OSC LUNAR  
 SUPER STARTREK  
 STAR WARS  
 MASTERMIND  
 REVERSE-PUNTER  
 ARROW  
 BLACK BOX!  
 BLACK JACK  
 BOMBER  
 ROBOT CHASE!  
 SNAKE 2  
 YAHTZEE  
 MOVMAZE2

**(0)X4 - BEST GAMES 2**  
(1 disk/tape)

**BASIC 4.0 PET ONLY**  
 INVADERS 4.0  
 FAST INVADRS 4.0  
 ACROBAT 4.0  
 CAR RACE 4.0  
 MISSION IMP 4.0  
 NIGHT DRIVER 4.0  
 BACKGAMMON 4.0  
 OTHELLO  
 BREAKOUT  
 ASTEROIDS  
 PINBALL  
 PETMAN 5  
 JOYSTICK INV 4.0  
 BLOCKADE  
 BASEBALL 7.3  
 OSC LUNAR  
 SUPER STARTREK  
 STAR WARS  
 MASTERMIND  
 REVERSE-PUNTER  
 ARROW  
 BLACK BOX!  
 BLACK JACK  
 BOMBER  
 ROBOT CHASE!  
 SNAKE 2  
 YAHTZEE  
 MOVMAZE2

**(0)X5 - BEST GAMES 3**  
(disk only)

ADVBOOT  
 ADVF 0  
 ADVF 1  
 ADVF 2  
 ADVF 3  
 ADVF 4  
 ADVF 5  
 ADVF 6  
 ADVF 7  
 ADVF 8  
 ADVF 9  
 ADVF 10  
 ADVF 11  
 ADVF 12  
 ADVF 13  
 ADVF 20  
 ADVF 21  
 ADVF 22  
 ADVF 23  
 ADVF 24  
 ADVF 25  
 ADVF 26

ADV9 27  
 ADV9 28  
 ADV9 29  
 ADV9 30  
 ADV9 31  
 ADV9 0  
 ADV9 1  
 ADV9 2  
 ADV9 3  
 ADV9 4  
 ADV9 5  
 ADV9 6  
 ADV9 7  
 ADV9 8  
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 ADV9 11  
 ADV9 12  
 ADV9 13  
 ADV9 20  
 ADV9 21  
 ADV9 22  
 ADV9 23  
 ADV9 24

**(0)X7 - BEST GAMES 4**  
(1 disk/tape)

**BASIC 4.0 F40 ONLY**  
 INVADERS 4.0  
 FAST INVADRS 4.0  
 ACROBAT F40  
 CAR RACE F40  
 MISSION IMP F40  
 NIGHT DRIVER F40  
 BACKGAMMON F40  
 OTHELLO  
 BREAKOUT  
 ASTEROIDS  
 PINBALL  
 PETMAN 5  
 JOYSTICK INV 4.0  
 BLOCKADE  
 BASEBALL 7.3  
 OSC LUNAR  
 SUPER STARTREK  
 STAR WARS  
 MASTERMIND  
 REVERSE-PUNTER  
 ARROW  
 BLACK BOX!  
 BLACK JACK  
 BOMBER  
 ROBOT CHASE!  
 SNAKE 2  
 YAHTZEE  
 MOVMAZE2



# Communication...

**(0)C2 - COMMUNIC. 2**  
(1 disk/tape)

UNIVERSAL WEDGE  
 BRASS POUNDER 2!  
 TERMINAL.IEEE  
 TERMINAL.RS232  
 TERM.IEEE  
 TERM.RS232  
 INTELCOM4  
 INTELCOM3  
 STP 488  
 TOKEN - 32K  
 TOKEN - SUPERPET  
 PET PCNET  
 300 ANS  
 CORESEND  
 TELE DIALER  
 PETCOM  
 ED-TERM  
 UTP RS232  
 TERMINAL.I12  
 TERMINAL.R12  
 TERM.I12  
 TERM.R12

**(0)C1 - COMMUNIC. 1**  
(1 disk/tape)

UNIVERSAL WEDGE  
 MORSE-BTTRFLD  
 TNW488/103A  
 TELE DIALER  
 MORSE TUTOR  
 PC.NET.MODEM  
 CBM 8010  
 8010 MODEM DRIVR  
 TERMINAL.IEEE  
 TERMINAL.RS232  
 TERM.IEEE  
 TERM.RS232  
 INTELCOM4  
 INTELCOM3  
 MODEM LOG  
 RS232-300@4096  
 RS232-1200@4096  
 BBS PROGRAM  
 TERMINAL  
 ED-TERM  
 COMMUNICATE TEST

TERMINAL.VIC  
 --MACHINE LANG.  
 TERM.R12  
 INTELCOM3/40  
 INTELCOM3  
 INTELCOM4  
 TERM.R12/16  
 TERM.64  
 AUTODIAL ML  
 SUPERCOM  
 TERM.VIC  
 TERM.64.C  
 --IEEE MODEM TERM  
 TERMINAL.I12

terminal program for the Vic. Following files are programs in Machine Language which are automatically loaded and used by the above basic programs. It is not recommended that you LOAD these programs in any other way.

Following program is a basic terminal program for PET/CBMs which are equipped with IEEE modems.

TERM.I12  
 --INSTR'M FILES  
 AUTODIAL INST (SEQ)  
 INTELCOM (SEQ)  
 TERM INST/WP 1  
 TERM INST/WP 2  
 RS232 DOC (SEQ)  
 --OTHER PRGMS  
 FREQ GENERATOR!  
 VT52.BASIC

Generates modem noises. Term program to run 8032/8010 as a VT52  
 Simpe basic terminal program for 8010 modem.  
 Communications presentation. Terminal program for 8010. As per 'CBM 8010' plus log to disk.  
 Test your morse capability. More more code.  
 Description of terminal functions.  
 Tokenizes programs downloaded as sequential files.

CBM 8010  
 COMM PRIMER  
 8010 MODEM DRIVR  
 LOGGER  
 MORSE TUTOR  
 MORSE-BTTRFLD  
 TERMINAL DOC  
 TOKENIZER

**(P)C4 - COMMUNICATION 4**  
(disk only)

LIST-ME (P)C4.L The List-Me file for this disk.  
 --PET/CBM TERM'LS Following 3 programs are basic terminal programs for 40- or 80-column PET/CBMs.  
 AUTODIAL TERM  
 TERMINAL.R12  
 TERMINAL/16K  
 --SUPERPET TERM'L Following program is basic terminal program for SuperPET.  
 TERMINAL.S12  
 --C64 TERM'LS Following program is basic terminal program for C-64.  
 TERMINAL.64 A terminal program for the C-64 that takes advantage of the autodialling on the 1650 modem.  
 AUTOTERM/1650.C  
 --VIC TERM'L Following program is a basic

## Utilities...

**(0)U1 - UTILITIES 1**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
COPY ALL  
AID 2.1  
SUPERMON2.REL  
SUPERMON4.REL  
SUPERMON1.REL  
SUPERMON1/2/4INS  
EXTRAMON9@\\$1000  
EXTRAMON9B@\\$1000  
EXTRAMON INST  
APPEND/RENUM.REL  
ROM TEST--BTFLD  
TRACE.REL(BASIC)  
RAMTEST@\\$500  
SCREEN PRINT  
UN-NEW/SYS826  
KEYSORT2\$7454  
KEYSORT2-2DEMO  
KEYSORT2-1DEMO  
KEYSORT2\$1C54  
LOW CASE LIST  
DISK APPEND  
DISK MOD/V1  
DISK ID CORRCOR  
DISK PEEK  
VIEW BAM  
BLOCK GET 1.0  
BL GET @\\$033A  
KEYPRINT/826  
DISK NAME (R)  
COPYPROG  
KEYMAKE  
COPYDISK/SYS973  
TAPE TEST #  
TAPE WRITE (#)  
COPYCAT!SYS934  
COPYCAT'SYS934  
AID INSTR7.6  
(32K)BASIC-AID  
DISK LOGGER  
CATALOG  
SEARCH  
UTINSEL.REL  
AID4  
COMPACTOR  
CASSETTE.TO.DISK  
DATAMAKER  
KEYSORT.EXE16/32  
KEYSORT.DEMO1  
KEYSORT.DEMO2  
KEYSORT.EXE8K  
CROSS-REF  
BASIC.AID.EXE  
DISK APPEND-M.B.  
PRINT USING  
DISK VIEW  
READ.LINK  
READ-WRITE.S/R'S  
DIR.ACCESS.S/R'S  
PORT.DISPLAY  
DESCENDERS/2022  
FLOPPY.DISPLAY  
JOYSTICK.CTRL.  
JOYSTICK.CRSRS  
EXTRAMON.4.OB  
EXTRAMON.4.OG  
MAE/DOS FOR 4.0  
USER.COOKBOOK  
UTILITY 2.0  
UTILITY 4.0  
DEMO

LIST LT2  
LIST LT2X  
LIST GP2  
LIST LP2  
LIST LP2X  
LIST LP4  
INS/DEL DEMO  
V40.2.B  
V40.4.B  
V80.4.B  
TAPE.TO.DISK  
RELREAD  
DUMP SEQ FILE  
WP TO UPPER

**(0)U2 - UTILITIES 2**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
COPY ALL  
MINI-COMPILER  
TINY.PILOT.EXE  
TINY.PILOT.INS  
SUPERMON2.REL  
SUPERMON4.REL  
SUPERMON1.REL  
SUPERMON1/2/4INS  
LISTER  
SCREEN DUMP  
TAPE GRAPH 21S  
UNLIST  
TAPE GRAPH# ROM  
BAM MAP CBMSK  
TINY FORTH TCHR  
DISC MERGE/BASIC  
TINY FORTH NOTES  
LOWER CASE LIST  
SHIFT UP-LOW CAS  
GRAPHIX INSTR  
GRAPHICS-LOADER  
GRAPHICS-DEMO  
ERIC ASSM  
8K  
MICROMON.INS  
BAID.X\$9000@2000  
BAID4.INS  
MICROMON@4096  
BAID4B@\\$7000  
MICMON4B@4096  
MICMON4B@1  
BASIC AID 4  
AID INSTRUCTIONS  
CBM 4032  
RELREAD  
DISK LOGGER  
UNASSEMBLER.MAE  
UNASSEMBLER.CBM  
KEYPRINT2  
KEYPRINT4@826  
DUMP2  
DUMP4  
LOCKSMITH

**(0)U3 - UTILITIES 3**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
COPY ALL  
EASY EDIT/TAPE  
EASY EDIT/DISK  
EASY EDIT/C  
PAGE1 EZE EDIT  
PAGE2 EZE EDIT  
PAGE3 EZE EDIT  
PAGE4 EZE EDIT  
PAGE5 EZE EDIT

PAGE6 EZE EDIT  
FAST SKIP 2022  
STRINGTHING.BIN  
CONTENTS  
SIGNON  
EXEC HELLO  
HELLO  
BUILD HELLO  
NEECL  
MXCL  
CROSS REF  
CRUNCH  
APPLESOFT LOADER  
ERIC ASSM  
8K  
CATALOG+6  
DISK DOCUMENTER  
LIST DUPLICATES  
MASTER+6  
MASTER+6D  
SEARCH+6  
STACK SNIFFER  
WPRO BUSTER  
AX-REF/SYS24576  
EXTRA INSTR.  
EXTRAMON9B(4)  
EXTRAMON9G(4)  
EXTRAMON9G(2)  
EXTRAMON9B(2)  
USEIZE.WP  
LITTLEMON.INS.WP  
CHANGE/LADR.BAS  
SYMBOLIC.DISASS  
INSIDE.DOS1&2  
MICROMONB@\\$1  
MICROMONB.INS+  
BAID4.EXE9@4  
BAID4.INS  
CRUNCH2  
CRUNCH4.0  
TINY MUSIC  
DEC->FLOATING PT  
QUADRA-PET  
DEFINE PTR. CHAR  
JEM.INS  
JEM SYS411%  
DISK DOCTOR  
LC LISTER INST

**(0)U4 - UTILITIES 4**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
COPY ALL  
VIA SCANNER  
CASS.LABELER  
VARIABLE RANDOM  
KUSTOM KEY  
FILE MOVER  
TAPE LABEL  
BAID INST  
BAID480CB  
BAID480AB  
BAID440CB  
BAID440AB  
BAID240CB  
BAID240AB  
COPY/ALL  
DELETE ALL  
EP4 SYS32000/1  
EP4XSYS32000/1  
CBM 4032 V2  
DIR LOADER 2.0  
DIR LOADER 4.0  
DIR CATALOG

DIR UPDATE  
DIR PRINT  
DIR MERGE  
GRAPHICS  
GRAPH SUBS

**(0)U5 - UTILITIES 5**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
COPY ALL  
COPY/ALL  
BASIC-AID.INST1  
BASIC-AID.INST2  
BAID4F40C  
BAID4F40A  
BAID440C  
BAID440A  
BAID240C  
BAID240A  
BAID480C  
BAID480A  
EP4 SYS32000/1  
EP4XSYS32000/1  
DELETE ALL  
EXTRA INSTR.  
EXTRAMON9B(4)  
EXTRAMON9G(4)  
EXTRAMON9G(2)  
EXTRAMON9B(2)  
CBM 4032 V2  
DIR LOADER 2.0  
DIR LOADER 4.0  
DIR CATALOG  
DIR UPDATE  
DIR PRINT  
DIR MERGE  
POWER MOD  
TAPE-DISK/REL  
MERGE 4.0 INST  
MERGE 4.0  
SET/RESET.REL  
SET/RESET DEMO  
WORD PRO TH2058  
READ WP2040  
HI MEMORY106  
INSTRUCTIONS#7  
WORD P DEMO  
WP TAPE2058  
READ WP TAPE2040  
WORD COUNT 9.0  
WORD COUNT BASIC  
IEEE VIEW  
MICROMON@\\$1000  
MICROMON@\\$7000  
MICROMON800@\\$1000  
MICROMON800@\\$7000  
BACKUP 2031 1.0

**(0)U6 - UTILITIES 6**  
**(1 disk/tape)**

UNIVERSAL WEDGE  
MICROMON.INS1  
MICROMON.INS2  
MICROMON.ADD  
MICROMONC@\\$1000  
MICROMONC@\\$7000  
MICROMON++@\\$5B00  
MEMSEE.DEMO  
WORD PRO PRINTER  
CHANGE DISK  
DISK CHECK  
DISK VIEW  
DISK MOD  
DATABASE2.0/4.0

UNLOAD EASIER  
DLOAD EASIER  
WP LIST/SCREEN  
SUPERCAT@32000  
SHL-MTZ LIB V2  
SHL-MTZ LIB 2.0  
LIBRARY INST  
SUPER1 V1.1  
SHOW TOKENS  
CHEEP PRINT  
CHAR.SET.DEFN  
STUFFIT  
UNCOMPACTOR  
EASY EDIT/MX-80  
EASY.EDIT.MX-82  
MX-82.CHAR.DEFN  
VICLOAD4.REL  
VICLOAD2.REL  
SET-UP  
MARCH6  
GRAPHIC EDITOR  
PRINT EDIT INFO  
AUTO DISK BOOT  
CBM 4032 V2.1  
DATA WRITER  
LOCKDISK  
FLOADER  
MLOADER  
INS WATAID 4  
F32 WATAID 4  
F16 WATAID 4  
S32 WATAID 4  
S16 WATAID 4  
8032 WATAID 4  
POWAID4.RUN  
POWAID2.RUN

**(0)U7 - UTILITIES 7**  
**(1 disk/tape)**

COPY-ALL  
PROCEP.EDITOR  
PROCEP.EXAMPLE  
PROCEP.INS1.WP  
PROCEP.INS2.WP  
RELREAD  
SOUP  
KEYWORD  
BASIC-AID.INST1  
BASIC-AID.INST2  
CBM EDITOR.INST  
E-ROM.MON.11  
E-ROM.MON.12  
POWER-AID.INST  
TEDDY-APRIL82  
TEDDY.INSTR  
DAISY-APRIL82  
DAISY.INSTR  
5TH SCOTTE.INST  
5TH SCOTTE  
ML STOPKEY  
TAPE PHONO-PHILE  
DISK PHONO-PHILE  
PHONE NUMBERS  
MASTER TAPE LIBR  
DATABANK.31!  
SUPERSPEED SORT  
FIXFILE  
POINTER SORT  
FILE  
STRING THING  
SUPERMON64.V1  
STRING THING 64  
NOS TRANSLATOR3

**(P)U9 - UTILITIES 9  
(1 disk/tape)**

LIST-ME(P)U9.L Contains information about the programs on (P)U9.

ALPH DIR INSRT.Z Generate alphabetic disk directories.

BAS-PATCH.GEN Patch a function into BASIC (source code).

BASIC DISKBOOT.P Program loads disk programs from a menu.

CALENDAR YYYY.Z Print a calendar for any year - ref DDATE.D file.

CBM 4032 V2-1.8 Converts the 8032 to run Fat 40 programs.

CONSTRUCTOR.4 Remove blanks and comments from a BASIC program.

COPY++ALL.Z Copy all - includes alpha sort, with block count.

COPY-ALL+.G Copy all - includes alpha sort.

COPY-ALL.P One of the original versions.

CROSS-REF.P Cross reference all program variables.

DATA LOADER.Z A program to take entered data and convert it into BASIC DATA statements (starts at 1000).

DDATE.D Data - file used by CALENDAR YYYY.Z program.

DEFINE KEYS-0.8 Define 17 uppercase keys on 8032 (object file).

DIR/LIST.P List program directly from disk.

DISASSEMBLER.P Disassemble or unassemble machine code.

DISKSPEEDTESTB.Z Check the speed of a disk drive.

DOCTOR 8032 Look at and change a single byte on a disk.

DOCTOR.INS Program to print instructions for DOCTOR 8032.

EASY DLOADER Do a quick DLOAD with this program.

\*\*\*\*\* Editor \*\*\*\*\*

ED-DEMO.Z Demo - load ED-UTILITY first. Documents features of ED-UTILITY for programmer.

ED-INS/DELDEMO.Z ED-UTILITY must be loaded first. Demonstration program contains 6 routines that manipulate arrays. Three of them show the sequential method of adding, deleting, and searching for an element in an array. The other three show a binary search, and how to add or delete an array element using a machine language call.

ED-UTILITY 2.p Editor used in Bennett mail list - BASIC 2 load ED-DEMO.Z and list to get documentation.

ED-UTILITY 41.p Editor used in Bennett mail list - BASIC 4 load ED-DEMO.Z and list to get documentation.

-----  
The routines available are: ---  
1 input routine  
2 insert/delete array element  
3 disk input up to 150 bytes  
4 disable stop key  
5 convert string data to ASCII  
-----

EXPANDER.4 An un-compacter for the PET.

FIND TYPE.Z Program identifies the machine it is running on.

IRQ-PATCH.GEN Patch into the IRQ service code (source code).

MESSAGE 896 P Put a non-erasable message on the screen.

MESSAGE INSTR.P Instruction program for MESSAGE 896.P program.

NAME IT.Z Program identifies the machine and features.

PET COPY 2031.P Copy program - runs on single drive 2031.

PETLOAD 64 PRGM Load C64 programs to PET from disk or tape.

PRNT USING ML.Z A print using function.

RAMTEST4-1PG.4 Test the RAM memory in your PET.

REVIVE.Z Revive a program.

SCOPY INSTR.8 Program of instructions for SCOPY5.8

SCOPY5.8 Copy program for 8032, very flexible, see inst.

SEQFIL V1-5.8 Convert ASCII to PETSCII and back to ASCII.

SWAP.Z Swap programs.

TAPE - DISK V4.Z Copy tapes to disk.

TRUE MERGE+.Z Merge two BASIC programs.

UNICOPY INST.P Instruction program for UNICOPY4.P.

UNICOPY4.P Program copies from disk to tape and tape to disk.

UNIVERSAL WEDGE Wedge - short disk commands:  
use > or @ to precede commands  
Ref p. 87 Users Manual CBM Dual Drive Disks  
>\$x or @\$x gives directory for drive x  
(note - doesn't wipe out program in memory)  
/abc loads program abc

UTIL@4000.Z Renumber, structured format etc. located \$4000.

UTIL@6000.Z Renumber, structured format etc. located \$6000.

UTILITIESINSTR.Z Instruction program for UTIL@\$x000.Z

VISIBLE PET Watch page zero as the PET calcs square roots.

WP LIST/SCRN-A.Z List or print Word-Pro or Paperclip files.  
space key - stop/continue listing  
s key - stop/continue at end of line  
p key - paging or scrolling  
f key - new file

**(P)UA - UTIL: MONITORS 10  
(1 disk/tape)**

LIST-ME(P)UA.L Contains information about the programs on (P)UA.

DISASSEMBLER.P Disassemble or unassemble machine code. This program will convert hexadecimal machine language code into assembler source code.

NEWMON\$1000.P Monitor located at \$1000.

NEWMON\$7000.P Monitor located at \$7000.

NEWMON-HELP E.P English instructions for NEWMON.

NEWMON-HELP F.P French instructions for NEWMON.

NEWMON-INST.P Information on NEWMON source code in C64 library.

SUPERMON INST.P Instructions for SUPERMON extended monitor.

SUPERMON1.REL.4 Extended monitor - BASIC 1 PET

SUPERMON2.REL.P Extended monitor - BASIC 2 PET

SUPERMON4.REL.P Extended monitor - BASIC 4 PET

ANY WINDOW SIZ.P Get screen windows on a 40 column similar to an 8032.

AUTO DATA HEX.P Read a data file and get hex output.

continued

AUTODISK BOOT.Z Produce a menu of the disk programs.  
 DISK LOGGER.P Log a disk with start and end address.  
 EXPANSION PRES.P PET - external ports explained.  
 FUNCTION GRAPH.G Graph demonstrating various functions.  
 HIBYTE DEMO.G Demonstrating the value of the hibernate.  
 IEEE WATCH 2.Z Monitor the IEEE bus.  
 KEYPRINT@027A.8 Screen print for the 8032 use \ to execute at \$027A  
 KEYPRINT@027A.F Screen print for the F40 use \ to execute at \$027A  
 KEYPRINT@7F6E.8 Screen print for the 8032 use \ to execute at \$7F6E  
 KEYPRINT@7F6E.F Screen print for the F40 use \ to execute at \$7F6E  
 LST TRUE ASCII.Z List ASCII files.  
 MACHINE TYPE Identify the machine type - 8032,F40,2001,C64 etc.  
 PET AGENDA.4 Program to run a daily agenda (uses tape).  
 PRINT USING.Z Add a print using function to your machine.  
 PROG CONVERTER.Z Adjust BASIC linkages for VIC and C64 programs.  
 RPN CALCULATOR.P Turn your PET into a reverse polish calculator.  
 SCROLL MESSAGE.P Scroll messages horizontally.  
 STRING THING.Z A screen input editor.  
 WP-BUSTER/PET.P List output files from word processors.

**(P)UB - UTIL: AIDS 11  
(1 disk/tape)**

LIST-ME(P)UB.L Contains information about the programs on (P)UB.  
 \*\*\*\*\* PGM BUILDER.8 - program builder for the 8032  
 PGM BUILDER GT.8 Petspeed version (faster)  
 PGM BUILDER.8 BASIC version  
 \*\*\*\*\* Files for PGM BUILDER.8 \*\*\*\*\*  
 R1.51000 FILE.P-left, center, or right justify a text field.  
 R1.51200 FILE.P-string input from disk.  
 R1.51500 FILE.P-blinking cursor GET routine.  
 R1.51600 FILE.P-hyper print routine.  
 R1.51700 FILE.P-print and underline routine.  
 R1.51800 FILE.P-sliding print routine.  
 R1.51900 FILE.8-print-at routine.  
 R1.52000 FILE.P-kernal for file i/o, get text, and pagination.  
 R1.53500 FILE.P-flashing cursor routine for use with "GET".  
 R1.54000 FILE.P-pop the stack to remove a return address.  
 R1.54200 FILE.P-translate table for use with an ASCII printer.  
 R1.55000 FILE.P-print using routine - relocatable.  
 R1.55400 FILE.P-convert decimal to hex, and vice-versa.  
 R1.55500 FILE.P-format financial data neatly.  
 R1.55800 FILE.P-print using simulation in BASIC  
 R1.56000 FILE.P-erase remaining lines from program.  
 R1.56100 FILE.P-save screen image.  
 R1.56500 FILE.P-line input routine.

R1.58000 FILE.8-draw a border around the screen.  
 R1.58100 FILE.8-draw a border around the screen - different.  
 R1.5820Q FILE.8-draw any shape box or window anywhere.  
 R1.58600 FILE.8-miscellaneous 8032 pokes.  
 R1.58800 FILE.8-8032 cursor facilities as subroutines.  
 \*\*\*\*\* Programming Aid Programs \*\*\*\*\*  
 BAID440AB.4 BASIC AID for 40 column PET graphic keyboard.  
 BAID480CB.8 BASIC AID for 80 column 8032.  
 BAID4F40A-16K.F BASIC AID for Fat 40 - 16k machines.  
 BASICAID INS.Z Instructions for BASIC AID for ASCII printers.  
 BASICAID INST1.W First word pro file of instructions for BASIC AID.  
 BASICAID INST2.W Second word pro file of instructions for BASIC AID.  
 AID/LIST TLKIT.P BASIC AID/toolkit type program.  
 AID/LIST TLKIT.W Word pro file of instructions for AID/LIST TLKIT.P  
 G.AID 4.P A file program for GRAPHIC AID 4.P  
 GRAPH AID INST.P Instruction program for GRAPHIC AID 4.P  
 GRAPHIC AID 4.P Graphics drawing program for 40 column PET.  
 PROGRAMMER AID.8 A program to carry out some common programmer calculations.  
 PLOT DEMO1.P Demo 1 for <-PLOT.4 or <-PLOT.8  
 PLOT DEMO2.P Demo 2 for <-PLOT.4 or <-PLOT.8  
 PLOT DEMO3.P Demo 3 for <-PLOT.4 or <-PLOT.8  
 PLOT INSTR.P Instructions for <-PLOT.4 or <-PLOT.8 - list it!  
 PLOT PIK2.P Program file used by <-PLOT.4 and <-PLOT.8  
 <-PLOT.4 Plotting PRG for 40 col PETs.  
 <-PLOT.8 Plotting PRG for 80 col CBMs.

**(O)X1 -**

BEST UTIL!  
**(1 disk/tape)**  
 UNIVERSAL WEDG.  
 COPY ALL  
 COPY/ALL  
 BAID4F40C  
 BAID4F40A  
 BAID440C  
 BAID440A  
 BAID240C  
 BAID240A  
 BAID480C  
 BAID480A  
 BASIC-AID.INST1  
 BASIC-AID.INST2  
 AID4  
 AID2  
 CHANGE DISK  
 DISK MOD  
 DISK CHECK  
 DISK VIEW  
 DISK NAME (R)  
 DISK ID CORRECTOR  
 DISK PEEK  
 BAM MAP  
 APP/REN24.REL  
 CASS.LABELER  
 DISK FILE RECVRY  
 KEYPRINT2@826  
 KEYPRINT4@826

TAPE.TO.DISK  
 X-REF 24576.ML  
 WORD COUNT 9  
 DISK MASTER V2  
 DELETE ALL  
 EP4 SYS32000/1  
 EP4XSYS32000/1  
 VICLOAD4.REL  
 VICLOAD2.REL  
 VIC WEDGE  
 BACKUP 2031 1.0  
 SET-UP  
 AUTO DISK BOOT  
 CBM 4032 V2.1  
 WORD PRO PRINTER  
 WP LIST/SCREEN  
 DATA WRITER  
 LOCKDISK  
 LOWCASE LIST V3  
 UN-NEW/SYS826  
 COPYCAT!SYS934  
 COPYCAT'SYS934  
 COMPACTOR  
 UNCOMPACTOR  
 CROSS-REF  
 DISK APPEND-M.B.  
 DUMP2/SYS826  
 DUMP4/SYS826  
 STRINGTHING.BIN  
 WPRO BUSTER  
 UTILITY 2.0

UTILITY 4.0  
 DEMO

**(O)X2 -  
BEST UTIL. 2  
(1 disk/tape)**

SUPERMON4.REL  
 SUPERMON2.REL  
 SUPERMON1.REL  
 SUPERMON1/2/4INS  
 EXTRAMON4@7000  
 EXTRAMON4@1000  
 EXTRAMON2@7000  
 EXTRAMON2@1000  
 EXTRAMON.INS9.3  
 MICROMONC@1000  
 MICROMONC@7000  
 MICROMON++@5B00  
 MICROMON.INS1  
 MICROMON.INS2  
 MICROMON.ADD  
 TINYMON1 FOR VIC  
 TINYMON INST  
 SUPER VICMON2  
 8K  
 ERIC ASSM  
 UNASSEMBLER.MAE  
 UNASSEMBLER.CBM3  
 DATA WRITER  
 WP LIST/SCREEN

# Education...

PET Library

## (P)EB - EDUCATION 5 (1 disk/tape)

LIST-ME(P)EB.L Contains information about the programs on (P)EB.

BALANCEADD/SUB.Z Mathematics, addition/subtraction exercises, grade school level.

CRYPTOGRAM.Z Cryptography, run letter frequency counts on entered code.

CRYPTOGRAMS.P Codes and cyphers.

EAR.P Learn about the ear, uses the hangman game format.

ELIZA.Z Humorous artificial intelligence program of a computerized psychiatrist. People who run this program quickly start muttering and talking to the machine.

ENGLISH GRAM.Z Practice English grammar, grade school level.

EYE.P Learn about the eye, uses the hangman game format.

FRENCH VERBS 1.Z Conjugate French verbs, instructions in English, has 3 chapters, 1 and 2 run through various verbs with English equivalents, 3 is an exercise with simple graphics.

FRENCH VERBS 2.Z Conjugate French verbs, instructions in French, and run through declension exercises.

GRADEBK-GRADES.Z Teachers gradebook, student grades.

GRADEBK-NAMES.Z Teachers gradebook, student names.

DP106-3.Z Teachers gradebook, sample data file.

IDEALBODY MASS.Z Calculate body mass, surface area, and body water.

LIFESCORE.Z Calculate your lifescore, estimating your lifespan.

MYSTERY SPELL.P Game - guess the mystery letters, with graphics.

N Z QUIZ Learn New Zealand places, hangman type game.

NAMING CMPDS.4 Naming chemical compounds.

REACTION.P Test your reaction time, brake your car before you crash.

SCHOOLMARM255.P Quiz program needs tape file from 255QUEST MAKER.P

255QUEST MAKER.P Program to make questions file for SCHOOLMARM255.P

STORYWRITERV11.P Write stories on your computer, designed for grade school but very useable by adults, a word processor for young people.

TURTLE PILOT.P Pilot programming language, with turtle function.

T PILOT DEMO.D TURTLE PILOT.P demo, sequential data.

T PILOT INST-A.Z Instructions for TURTLE PILOT.P, ASCII printer.

T PILOT INST-C.Z Instructions for TURTLE PILOT.P, Commodore printer.

TRAIN - CHIEF.P Math and time estimation program.

TURTLE.4 Learning game for 40 column machine, write a program to control the turtle cursor.

TURTLE.8 Run the turtle language program on the 8032.

TYPING DRILL.Z Practice your typing skills.

WORD-SEARCH Find words in the puzzle.

## (P)EC - EDUCATION 6 (1 disk/tape)

LIST-ME(P)EC.L Contains information about the programs on (P)EC.

AUDIOTEACH RET.P Run an audio cassette with your PET.

BRILLE.Z Produce braille characters on your printer.

CALENDAR YYYY.Z Print a calendar for any year, uses file DDATE.D

DDATE.D Data file for CALENDAR YYYY.Z

CB2SOUND SCHEM.P Simple CB2 sound schematic.

CDN PROV.P Questions and answers about the Canadian provinces.

DEAD MAN MATH.4 Simple mathematical exercises, grade school level.

FORMULAS.P Calculate electronic formulas.

MISSING #.4 Fill in the missing numbers, preschool level.

MULT-CHOICE+.P Program to build a multiple choice questionnaire.

MULTIQUIZ.P Demo program from - MULT-CHOICE+.P

MUSICTHEORY.P Music - learn music theory.

NAME NOTES!.P Music - learn to read the notes on the staff.

NS.CITIES+.P Learn about Nova Scotia cities, Canada.

NS.COUNTIES.P Learn about Nova Scotia counties, Canada.

NS.ERLY SETL.P Learn about Nova Scotia early settlements, Canada.

PET FLASHCRDS+.P Flashcards on the PET.

RPN CALCULATOR.P Turn your pet into a RPN calculator.

SOUND EFFECTS.P Make sound effects on your PET.

THE EVALUATOR.P Evaluate student marks, class marks, and averages.

DISP/AVG/LIST.P Programs called by - the EVALUATOR.P program.

FILE CREATE.P Creates a file for - the EVALUATOR.P program.

Note: The following are word-pro files. You can use WP LIST/SCREEN to get a listing if you don't have a word processor.

EVALUATOR P1.W Instructions for:  
 EVALUATOR P2.W :  
 EVALUATOR P3.W :  
 EVALUATOR P4.W :  
 EVALUATOR P5.W the EVALUATOR.P program  
 EVALUATOR P6.W :  
 EVALUATOR P7.W :  
 EVALUATOR P8.W :  
 EVALUATOR P9.W :  
 EVALUATOR P10.W pages 1 through 10.

## (P)ED - EDUCATION 7 (1 disk/tape)

LIST-ME(P)ED.L Contains information about the programs on (P)ED.

The following programs were given to TPUG by Commodore.

1 BELLOWS EXT.Z Bellows extension calc, exposure changes for close-ups, information and exercises.

2 BELLOWS EXT.Z

1 HYPRFCL DIST.Z Hyperfocal distance calc, information and exercises.

2 HYPRFCL DIST.Z

1 FOCUS DEPTH.Z Depth of focus, information and exercises

2 FOCUS DEPTH.Z

1 PROCES CNTRL.Z Photographic process control, information and exercises.

2 PROCES CNTRL.Z

continued



## Education...

LIGHT 1.Z	Electromagnetic radiation, photons and wave nature.	FREQUENCY MET.4	for pulse-gated timer. Measure frequency using photocell.
LIGHT 2.Z	Photographic properties, reflection and refraction.	TIMER FIG 4B.W	Wordpro file, source code list for frequency meter.
LIGHT 3.Z	Colour transmission, absorption and dispersion.		
NEGATIVES.Z	Negative exposure calc.		
FIELD DEPTH 1.Z	Depth of field, information and exercises.	(P)XB -	L
FIELD DEPTH 2.Z		BEST EDUC. 1	M
DECISION MTRIX.Z	Decision process in taking pictures.	(disk only)	N
METER READING.Z	Using a light meter for exposures.	(8032 only)	O
		LIST-ME (P)XB.L	P
		SCREEN PRINT	Q
		FILE MAKER	R
		A	S
		B	T
		C	U
		D	V
		E	W
		F	X
		H	Y
		I	Z
		J	SCREEN
		K	HOME ROW
Original files from article that appeared in COMPUTE! April, 1982 titled "Using The PET In The High School Physics Lab" from P. Spencer.			ALL ROWS
			G
			FLASH
			FILE MAKER II
			HIGH WRIST
			LOW WRIST
			SHIFT LOCK
			# SIGN
			\$ SIGN
			% SIGN
			NUMBERS 1-5
			NUMBERS 6-0
			EACH NUMERAL
			ALPHA PROGRESS
			DUM 3.4
			KEYBOARDING
			COVER
TIMER ARTICLE.W	Wordpro file, text of article.		
DARK TIMER.4	Time a photo cell connected to user port.		
DARK STOPWATCH.4	Time a switch on the user port.		
PULSE-GATED T.4	Time pulses on the user port.		
TIMER FIG 3B.W	Wordpro file, source code list		

## Assembler...

Most of the programs on these disks need the **MAE assembler** for the **PET**. Some run with the Commodore PET assembler. The **MAE assembler** for the **Commodore 64** can read these assembler disks correctly, but because the disks are for the PET, all zero page and basic entry points will have to be converted in order to run on the Commodore 64.

<b>(0)A1 - ASSEMBLER 1</b> (1 disk/tape)	EXMON.M01	V40.4.S	FORMS.M1	<b>(0)A5 - ASSEMBLER 5</b> (1 disk/tape)
UNIVERSAL WEDGE	EXMON.M02	V80.4.S	FORMS.M2	UNIVERSAL WEDGE
COPY ALL	EXMON.M03	V40.2.0	FORMS.CT	MICROMON.CTC
MAE/DOS	EXMON.M04	V40.4.0	REAL.CT	MICROMON.M01
EXTRAMON.EXE9.0B	EXMON.M05	V80.4.0	REAL1	MICROMON.M02B
EXTRAMON.EXE9.0G	EXMON.M06	SCI.S I/O FIX	REAL2	MICROMON.M03
DOS.ASM	EXMON.M07	SCI.S - OLD	JUMPTABLE	MICROMON.M04
MAE/DOS.ASM	EXMON.M08	BMBSTRINGTHING	JUMP2	MICROMON.M05B
MLMACROS.MLIB	EXMON.M09		MICROMON.CTB	MICROMON.M06
PET.LIB	EXMON.M0A		MICROMON.M01	MICROMON.M07A
IEEE.LIB	MAE.PAT.ASM		MICROMON.M02B	MICROMON.M08A
KEYSORT.ASM	<b>(0)A2 - ASSEMBLER 2</b> (1 disk/tape)	<b>(0)A3 - ASSEMBLER 3</b> (1 disk/tape)	MICROMON.M03	MICROMON.M09.5
SECTOR.CTL	UNIVERSAL WEDGE	UNIVERSAL WEDGE	MICROMON.M04	MICROMON.M09B
SECTOR.PGM	COPY ALL	COPY ALL	MICROMON.M05	MICROMON.M10B
SECTOR.EXE	MAE/DOS	BASIC AID 4	MICROMON.M06	MICROMON.M11B
L.C.LISTER.ASM	BASIC.AID.EXE	AID INSTRUCTIONS	MICROMON.M07A	MICROMON.CT+
PET16.ASM	AID.CT	BAID4.CT	MICROMON.M08A	MICROMON.M01+
PET16.MAC	AID.M01	BAID4.M1	MICROMON.M09	MICROMON.M02+
UART.CT	AID.M02	BAID4.M2	MICROMON.M10	MICROMON.M03+
UART.M01	AID.M03	BAID4.M3	MICROMON.M10.5B	MICROMON.M04+
LEARNING.AID1	USERS.LETTER	BAID4.M3+	MICROMON.M11B	BASIC-AID.CT
LEARNING.AID2	EXTRAMON9.3B	BAID4.DOS	LITTLEMON.ASM	BASIC-AID.M1A
LEARNING.AID3	EXTRAMON9.3G	BAID4.M4	WEDGE/BASIC4.ASM	BASIC-AID.M1B
LEARNING.AID4	APPEND.ASM	ERIC ASSM	PGMR.UNIV.ASM	BASIC-AID.M2A
LEARNING.AID5	APPLE.LOADER.ASM	LITTLEMON.ASM	PRINT TIME.ASM	BASIC-AID.M2B
LEARNING.AID6	BASIC.AID.INS	LITTLEMON+.CT	TIM.CTL	BASIC-AID.M3A
LEARNING.AID7	PGMR.UNIV.ASM	LITTLEMON.M01	TIM.M01	BASIC-AID.M3B
UNASSEMBLER/CBM	PGMR4.0.EXE	MUSIC.ASM	TIM.M02	BASIC-AID.M3C
UNASSEMBLER/MAE	SCREENPRINT.ASM	INSTRUCTIONS	USEIZE.ASM	BASIC-AID.DOS
CBM.TO.MAE	SCREENPRINT.EXE	UNASSEMBLER	AID4.ASM	BASIC-AID.D0LLA
MAE.TO.CBM	UN-NEW.ASM	UNASSEMBLER/C	KEY.PRINT3&4.ASM	BASIC-AID.ROLLB
EPROM.PRGM.ASM	UNASS.EXE60C	UNASSEMBLER.MAE	L.C.LISTER.ASM	BASIC-AID.M4
EPROM.PRGM.EXE	UNASS.INS.WP	UNASSEMBLER.CBM	MEAN 14/PET.ASM	BASIC-AID.ASM
EPROM.PRGM.INS	MINI-COMPILER		SET.KEY.ASM	TOKEN ML SOURCE
3D.PLOT.ASM	TINY.PILOT.ASM	<b>(0)A4 - ASSEMBLER 4</b> (1 disk/tape)	SRC.EX HELLO.ASM	WP LISTER.SRC
FREQ.CTR.ASM	TINY.PILOT.EXE	UNIVERSAL WEDGE	MXCL.SRCE	ADDCOMS.PAL
UART.M02	TINY.PILOT.INS	COPY ALL	NECCL.SRCE	
UART.M03	V40.2.S		ASM CONV MOS	
EXMON.CT			COM	
			APP LOAD SOURCE	

# Assembler...

## (P)A9 - ASM/ML 9 (1 disk/tape)

**Note:** Most of the programs (actually files) on the "A" series disks are source files from assembler programs such as "PAL", "Commodore Assembler", and "MAE Macro Assembler". These files will not RUN!!!! You need an assembler program.

LIST-ME(P)A9.L Contains information about the programs on (P)A9.  
 DISASSEMBLER.P Util-disassemble or unassemble machine code will convert hexadecimal machine language code into assembler source code (if possible).  
 BAS-PATCH.GEN Patch a function into BASIC (source code)  
 IRQ-PATCH.GEN Patch into the IRQ service code (source code)  
 DEFINE KEYS-0.8 M/L-machine code- define 17 uppercase keys on 8032  
 DEFINE KEYS-S.Z ASM-source code for define key program

Donated by Commodore  
 A Tutorial to Machine Language  
 See also - texts on machine language

INITIALIZE 6502 machine language concepts, self-instruction  
 UNIT - 1 cpu registers- acc, x, y, sp, sr(flags) and irq  
 UNIT - 2 addressing modes  
 UNIT - 3 store command  
 UNIT - 4 programming asm fundamentals  
 UNIT - 5 transferring info in the 6502  
 UNIT - 6 status register  
 UNIT - 7 comparing registers to memory  
 UNIT - 8 branch instructions  
 UNIT - 9 addition and subtraction  
 UNIT - 10 jump, jump subroutine and return  
 UNIT - 11 the stack- push and pull  
 UNIT - 12 logic instructions- and, or  
 UNIT - 13 multiply and divide by shifting left or right  
 UNIT - 14 rotate (shift with carry) left or right  
 test - 3 test of knowledge - after UNIT 3  
 test - 9 test of knowledge - after UNIT 9

# Math & Science...

(0)N1 - RANK CORRELATE (0)N2 -  
 MATH/SCI 1 REDUCTION MATH/SCI 2  
 (1 disk/tape) 3D PLOT (1 disk/tape)  
 UNIVERSAL WEDGE PRESSURE CURVE UNIVERSAL WEDGE  
 CURFIT-BTTRFLD PROGRAMMER RPN BAR GRAPH 2.4  
 TRIANGLE-BTTRFLD GRAPHICS.DEMOS-G FREQ GENERATOR!  
 METRIC-BTTRFLD METRIC CONVER'N CRYPTARITHMETIC  
 TREND-BTTRFLD REG'D PWR SUP DE COMPLEX NUMBERS  
 FACTORS-BTTRFLD ROOT FINDER AUDIO DESIGNER  
 MATH TEST-BTTRFLD OHMS LAW FILTER  
 METRIC TEACHER CRITICAL PATH 2A POWER SUPPLY  
 SORT PLOTTING NET1  
 DEMO SORT PLANET POSITION3 BONE TUMOR DIAGN  
 HEAPSORT DEMO SORTING DEMO PHYSIOLOGIC WT  
 EDU-TILITIES NATAL CHART PLEURAL EFFUSION  
 GLOBAL BIOPRINTER 6.3  
 WEATHERMAN BIORHYTHM 1.5  
 LISTENER LEAST SQUARES  
 ELECTRONICS.CALC POLIFIY  
 LAT+LON.DISTANCE SQUARE ROOT TEST  
 FUNCTION.MACHINE SIMEQ SOLVER  
 ROULETTE.THEORY CHI SQUARE  
 CROUT ALGORITHM LIFE EXPECTANCY  
 DERIVATIVE WEIGHT WATCH 4.0  
 NEWTONS ZERO  
 QUADRATIC  
 INTERMOD  
 QUARTIC

π

## (P)N5 - MATH/SCIENCE 5 (1 disk/tape)

LIST-ME(P)N5.L Contains information about the programs on (P)N5.  
 ANCOVA.8 Stats - analysis of variance.  
 ANOVAMS.8 Stats - analysis of co-variance.  
 CALL PREFIXES.P Ham radio - find the country from the call prefix.  
 CB2SOUND SCHEM.P Electronics - a simple schematic for CB2 sound.  
 COIL DESIGN.Z Electronics - radio amateurs handbook coil design.  
 DUPE.P Ham radio - check files for duplicate call signs.  
 ENCLOSURE SI.Z Music - hi-fi speaker enclosure

FACTORS.PET calculation.  
 Find the prime factors of integers up to 19 digits.  
 FILTERS.Z Electronics - calc bypass filter component values.  
 FORMULAS.P Electronics - calc many electronic formulas.  
 HAM UTILITY.P Ham radio - many ham utilities.  
 HARMONIC 3.8 Math - fourier analysis of any waveform.  
 IDEAL BODY MASS. Medicine - calc ideal weight based on body size.  
 INTEGRATION.8 Math -simple integration program  
 INTERMOD STUDY.Z Radio - intermodulation interference calc program. For engineers and technicians computes the 3rd, 5th, 7th, and 9th order 2 frequency intermod products and compares them to any number of receiver window frequency limits.  
 LIFESCORE.Z Medicine - calc longevity from your lifestyle.  
 LONGLEY REG.D Data - data file for MULT REGR ANAL.8  
 MULT REGR ANAL.8 Stats - multiple regression analysis program.  
 OPAMP DESIGN.Z Electronics - linear op-amp design calc. Use poke 59468,12 for graphics on CBM keyboards.  
 POWER SPECTRUM.P Electronics - calc the power spectrum of a signal.  
 R-MATRIX.8 Stats - regression analysis. Generates the matrix.  
 REGRAN.8 Stats - regression analysis. Uses data from R-MATRIX.  
 SPHERES.8 Math - calc the numbers related to spheres.  
 STANDARD.8 Stats - standard stats tests.  
 STARS BAS PR.8 Astronomy - identify and log heavenly objects.  
 TV SATELLITES Calc compass bearing of geostationary satellites.  
 WATERCONSUM SI.Z How much water do you use? The answer is suprising!!

# Business...

**(O)B1 - BUSINESS 1 (1 disk/tape)**  
 UNIVERSAL WEDGE  
 MORTGAGE-BTTRFLD  
 DATES-BTTRFLD  
 MILEAGE-BTTRFLD  
 MARKS-BTTRFLD  
 PORTFOLIO-BTRFLD  
 TAX ONT 1978 V3  
 GROWTH RATE  
 FINANCIAL CALCS  
 DAY OF THE WEEK  
 TAX 79 ONT V0.2  
 APARTMENT.INCOME  
 BUS.PR\CASH\ROI  
 CAR.COST\MILE  
 DECISION.MAKER  
 STOCK.OPTION.VAL  
 GROWTH.CALC  
 INVESTMENT.ALT  
 IRREG.CASH.FLOW  
 LOAN.ALT  
 SALES.ANAL-OP  
 CURRENCY.CONV  
 STOCK.LIST  
 RECIPE.SIZER  
 TYPEWRITER.ALT-0  
 TYPER.ALT2  
 TYPING TEST  
 PRICE.LIST  
 HOME.ACCOUNTS.IN  
 HOME.ACCOUNTS.SU  
 JAN 80  
 FEB 80  
 MAR 80  
 APR 80  
 MAY 80

DYNATEXT  
 DYNATEXT.INS  
 V40.2.B  
 V40.4.B  
 V80.4.B  
 DEMO 8032  
 E.G SET-UP 80COL  
 WP3/4 INST1  
 WP3/4 INST2  
 TEXT EDITOR  
 TEXT  
 TAX 80 ONT V1.0

**(O)B2 - BUSINESS 2 (1 disk/tape)**  
 UNIVERSAL WEDGE  
 MAIL LIST 4.1  
 MAIL LIST 2.0  
 FORMAT  
 UPDATE  
 PRINT  
 MENU  
 MAIL BACKUP  
 JOURNAL  
 TAX 80 ONT V3.0  
 MAIL LIST 4040  
 4040 UPDATE  
 4040 FORMAT  
 4040 PRINT  
 4040 MENU  
 MAIL LIST 8050  
 8050 FORMAT  
 8050 UPDATE  
 8050 MENU  
 8050 PRINT  
 INTEREST

**(O)B3 - BUSINESS 3 (1 disk/tape)**  
 UNIVERSAL WEDGE  
 MORTGAGE  
 MORT SCHED  
 MORT CALC  
 TAX 81 ONT V1.0  
 CRITICAL PATH  
 LUMP-SUM INV 82  
 BKEEPING.ALT  
 FINANCE  
 INTEREST  
 INVENTORY CONTRO  
 WORD PROCESSOR  
 MINIWORDPRO



PHONE BOOK.Z  
 J&K LEE INST.D  
 SIMCAL INSTR.W  
 SIMCAL.Z  
 TAPE DATABASE.P  
 TAX 82 ONT V1.0  
 TAX83 VISICALC.D  
 TRIAL BAL #2.8  
 TRIAL BAL INST.W

Phone directory  
 - see J&K LEE INST.D  
 Instructions for MULTI-REC II.Z  
 and PHONE BOOK.Z  
 Word pro file - instructions for  
 SIMCAL.Z  
 A column calculator program  
 Simple tape data entry  
 - instructions in program  
 Income tax calculations (Canada)  
 for 1982  
 A visicalc data-file for  
 83 income tax (Canada)  
 Trial balance program  
 Word pro file - instructions for  
 trial balance

**(P)B6 - BUSINESS 6 (1 disk/tape)**

LIST-ME(P)B6.L  
 83 ONT TAX V1.Z  
 AGENDA.Z  
 AUTO LOAN.8  
 BAR GRAPHIC.8  
 BETTER FILE.Z  
 CONSUMER LOAN.8  
 FLYING CHARGES.8

Contains information about the  
 programs on (P)B6.  
 Income tax calculations (Canada)  
 for 1983.  
 Daily activity or agenda  
 - uses tape.  
 Calculate the true costs of  
 various auto loans.  
 Run bar graphs on the 8032 and  
 Star printer.  
 Telephone file program.  
 Calculate the true interest rate  
 on loans.  
 Calc the unit or per hour cost  
 of flying.

----- Time Series Forecasting -----

**(P)B5 - BUSINESS 5 (1 disk/tape)**

LIST-ME(P)B5.L  
 40 COLUMN TAX.4  
 80 COLUMN TAX.8  
 AUTODISK BOOT.Z  
 BANNER.P  
 BAR CHART.P  
 BAR PLOT.P  
 BILLBOARD  
 BUDGET.P  
 CURVE FIT.P  
 DISK DATABASE.P  
 ECONOMIC ANAL.8  
 FAMILY BUDGET.P  
 FINANCE 1.Z  
 INVOICER  
 LOAN AMORT.8  
 MORTGAGE.Z  
 MULIT-REC II.Z

Contains information about the  
 programs on (P)B5.  
 82 Ontario Income Tax  
 - J. Butterfield  
 82 Ontario Income Tax  
 - J. Butterfield  
 Produces a menu of the disk  
 directory.  
 Print a banner message.  
 Plot data on screen or printer.  
 Plot yearly (monthly) data on  
 screen or printer.  
 Display a message on the screen.  
 Home budget and checkbook  
 control.  
 Fit data to one of log, exp,  
 lin, or power.  
 Simple disk data entry  
 - instructions in program.  
 Analysis of investment economics  
 including the effects of time on  
 returns.  
 Keep track of the family budget.  
 Calc future value, annuity  
 and loans.  
 An invoicing program ???  
 Load amortization calculations  
 for 8032  
 Mortgage - calc princ, rate, yr,  
 pay or bal  
 Filing system  
 - see J&K LEE INST.D

**Note:** See also TPUG Magazine May/84 to Dec/84

FORCST DATA.8  
 FORCST DEMO.D  
 FORCST EXP.8  
 FORCST GLM.8  
 FORCST INFO1.W  
 FORCST INFO2.W  
 FORCST INFO3.W  
 FORCST INFO4.W  
 FORCST MA.8  
 INV ANAL DECV1.8  
 LOAN PAYMENT.8  
 PAYLOAD.8  
 PET PLAN.P  
 PRNT USING ML.Z  
 RECONCILE.Z  
 RETIREMENT.8  
 SAVINGS ACCNT.8  
 SUPER STORE.8  
 WP LIST/SCREEN.Z

Data file - for forcst program.  
 Demo for forcst program.  
 Forcst program - exponential  
 smoothing routines.  
 Forcst program - general linear  
 model routines.  
 Word Pro Files  
 Forcst program - info 1.  
 Forcst program - info 2.  
 Forcst program - info 3.  
 Forcst program - info 4.  
 Forcst program - moving averages  
 routine.  
 Analysis of capital investments  
 uses PRINT USING ML.Z routine.  
 Loan calculations and payments.  
 Calculate the flying time and  
 payload capacity of an airplane.  
 A simple electronic spreadsheet.  
 Print using routine, used in  
 INV ANAL DECV1.8 program.  
 Balance your check book.  
 Calculate the present payments  
 to get a defined monthly benefit  
 in the future (annuity).  
 Compare savings accounts.  
 Updated MULTI-REC II program,  
 uses Star printer, business data  
 filing system.  
 List word processor files  
 eg. FORCST INFOX.W

# Tape/Disk of the Month Club

PET Library

There are now 4 libraries which have monthly releases - VIC 20, Commodore 64, PET/CBM, SuperPET.

Monthly releases can be obtained at a special price by those attending a club meeting. In addition to a selection of programs submitted by members from all around the world, a monthly release often contains programs demonstrated at the meeting. (At the VIC 20 meeting a version on tape is available for \$5.00.)

These tapes and disks of the month may be obtained individually by members from the club office. To save the necessity of constantly having to order the current monthly disk/tape, members can order any number of months in advance and the disks or tapes will be sent automatically.

The request must include:

1. Membership number.
2. Return address.
3. State tape or disk plus disk format.
4. Which library is desired.
5. Sufficient payment for the # of disks or tapes ordered.

These monthly disks/tapes are coded with a "T". With the advent of this new library listing, the monthlies released before September 1984 have been retired and their contents merged into appropriate category disks.

This summer, the 10 monthly "T" disks (Sept. '85 to June '86) can be ordered under this program for a substantial saving. (Final details will be available by June 1, 1985.)

## Monthly Releases...

- (P)TB - SEPT 84**  
**(1 disk/tape)**
- LIST-ME(P)TB.L Documentation for disk (P)TB.  
UNICOPY 4.P Utility - Copier, single disk (or tape) from Jim Butterfield, BASIC 4 commands - very similar to Copy-All. See "UNICOPY INST.Z" for more information.
- FILESORT 4.P Utility - Sequential file sort & other features, BASIC 4, from Jim Butterfield.
- UNICOPY 2.P Utility - Copier, single disk (or tape) from Jim Butterfield, BASIC 2 commands - very similar to Copy-All. See "UNICOPY INST.Z" for more information.
- UNICOPY INST.Z Utility - Unicopy program instructions, just LOAD and RUN.
- FILESORT INST.Z Utility - Filesort program instructions, just LOAD and RUN.
- BIGFILE.D Data - Output data file from "FILESORT 4.P" program. Do not LOAD!
- PROG LOAD.P Utility - Loads disk directory (ML code), 27 per screen, press letter to LOAD and RUN a program.
- ALIGATOR MATH.P Educational - Math drill and practice, 8 levels, alligator tries to eat problem before it is solved. Speeds up with correct answers.
- ARTILLERY.8 Game - Fire cannon, trajectory of shot shown.
- COPY ALL+.P Utility - Copy utility, changes disk device number, alphabetizes files, and copies between drives.
- FRENCH VERBS.P Educational - French practice on 'ir', 're' and irregular verbs.
- NIGHT WAR.8 Game - Turn to see target, estimate angle and fire.
- NIGHT WAR DATA Data - "NIGHT WAR.8" file, lowest and highest scores.
- ORBITSTREAK.8 GAME - Dodge objects or fire, but firing costs points.
- PROG CHR PRTR.P Utility - Epson MX80 Printer, programmable characters.
- ROADRACE 500.P Game - Road racing game.
- SCREEN INVERT.8 Utility - Inverts lower case characters. Instructions in code.
- SEQ SORT EDIT.8 Utility - Sequential file editor, reads, alters and saves files.
- 6 SORT DEMO.P Educational - 6 different sort methods are demonstrated.
- ULTRASORT ML.8 Utility - Machine code sort, used in "6 SORT DEMO.P" and "COPY ALL+.P".
- CATALOG PRT.8 Utility - Prints the disk directory (4 columns). Can also load or scratch a file, using the program number.
- PAPER WRAPPERS.P Miscellaneous - Puts repeated messages on printer like those on wrapping paper.
- The "NOS TRANSLATOR" is a program to help transfer software from one brand of machine to another. There are some demo programs but only in Dutch. If there is interest, I will put them on a category disk. M. Donegan.
- NOS ARTICLE1.W Language - Word Pro File - article on NOS Translator.
- NOS ARTICLE2.W Language - Word Pro File - article on NOS Translator.
- NOS CBM 348.P Language - NOS Translator for CBM machines.
- NOS PET 2001.P Language - NOS Translator for PET 2001 machines.
- WP LIST/SCREEN.4 Utility - can be used to list the NOS Article.w files.
- (P)TC - OCTOBER 84**  
**(1 disk/tape)**
- LIST-ME(P)TC.L Contains information about the programs on (P)TC.
- KRAUSE IEEE-- Programs from E. Krause - Saskatoon, Saskatchewan.
- D-MENU D-IEEE D-FCP D-DISK D-XXXX Programs to operate Nicolet scope on IEEE bus. These programs were demonstrated at the 1984 TPUG Conference.
- H-MENU-OSC H-MENU-PROG H-IEEE H-IEEE-FR H-IEEE-TR H-IEEE-CT H-IEEE-DK H-FCP H-XXXX Help files for Nicolet scope programs

continued

DIR File for D-XXXX programs.  
**--KRAUSE MISC--** Other programs from A. E. Krause  
 SERIAL POLL IEEE serial poll program.  
 3-MODE HTR CNTLR Three mode (P I D) controller  
 simulation program for feedback  
 controller design - requires MTU  
 graphics support for graphics  
 display.  
 AIM16 V1.2 Data acquisition program for  
 Connecticut Microcomputer Co.  
 model AIM16 A/D.  
 FIND TYPE Identify computer type - VIC,  
 C-64, or PET.  
**-- 8050 ONLY --** Program from B. O'Dell.  
 MAINT-B 8050 utility - handy program to  
 do directory work and labels  
 etc. for your disks.  
 MAINT-B-INSTR For "MAINT-B".  
 MAINT-B-CHOP For "MAINT-B".  
 DISK-DATA For "MAINT-B".  
**-- OTHER PROG --**  
 TINY FORTH.8 Language - version of FORTH for  
 the 8032 from John Bos.  
 R65C02 ASSM1 Assembler - for CMOS 6502  
 (Rockwell) - Basic version.  
 R65C02 ASSM1.GT Assembler - for CMOS 6502 -  
 compiled on PETSPEED.

**(P)TD - NOVEMBER 84  
(1 disk/tape)**

LIST-ME(P)TD.L Contains information about the  
 programs on (P)TD.  
 CLASS HISTOGRM.P Education - Histogram of class  
 marks.  
 DATA CREATOR.P Education - Creates BASIC lines  
 and appends to program already  
 in memory.  
 OTHELLO FOR 2.P Game - Game board for 2 players  
 of Othello. Program will edit  
 input moves. A wrong move can be  
 cancelled if the opponent types  
 a "9". If no move is possible,  
 type a "0".  
 SEQ EDIT INST.P Utility - RUN for editor  
 instructions.  
 SEQ EDITOR 1.P Utility - Sequential file editor.  
 Fast but ends a line if a comma  
 or semi-colon appears in data.  
 SEQ EDITOR 2.P Utility - sequential file editor.  
 Slow but can handle commas and  
 semi-colons in data.  
 MICROEDIT INST.P Utility - RUN for instructions  
 for "MICRO-EDITOR.P".  
 MICRO-EDITOR.P Utility - ??????????????????????  
 GENERAL EDINST.P Utility - RUN for instructions  
 for "GENERAL EDITOR.8".  
 GENERAL EDITOR.8 Utility - An editor derived from  
 the Pascal editor of the SuperPET  
 has "Wedge" & BASIC 4 commands.  
 mands. Can convert SuperPET to  
 CBM files.  
 SOURCE CREATOR.8 Utility - disassembler,  
 instructions included.

**TEN LINE PROGRAM - CONTEST ENTRIES**

ANTI-LOCKSMITH.P Utility - Unlock programs from  
 "LOCKSMITH".  
 GRAPHIC DEWAR+.P Demo - Graphic patterns using  
 Commodore characters.  
 JUMPY.P Game - Froggie - 4=left, 6=right  
 8=up, 2=down.

KILL THE BIRD.P Shooting game - RUN 100  
 MACHINE CODE.P Assembler - Convert hex machine  
 code to DATA statements.  
 MORSECODE KEY.P Ham Radio - Practice Morse Code  
 (need Sound Box).  
 OTHELLO.P Game - Play Othello against the  
 computer. RUN 100 to start.  
 TAPE INDEX.P Fast tape forward program - set  
 for 3.5K programs. Use this pro-  
 gram to SAVE and LOAD to and  
 from tape. By resetting the pre-  
 set fast forward time larger  
 programs can be stored.  
 TYPEWRITER 1C.F Electronic typewriter for 4032  
 and 2022.  
 TYPEWRITER 1D.P Electronic typewriter for 4022/  
 4023/8023.  
 TYPEWRTR-INST.Z Instructions for the Electronic  
 Typewriter.

Northcastle Structured BASIC - A Structured BASIC  
 that is similar to Waterloo Structured BASIC.  
 + VERSION 1.7 + - See "STB INSTRUCT.Z" for  
 instructions.

+ JUNE 1984 + - This program will RUN Waterloo  
 BASIC programs. Some Waterloo  
 BASIC bugs are fixed.

STB PET 3800 .P PET Structured BASIC at \$3800  
 SYS 3\*4096+8\*256  
 STB PET 7000 .P PET Structured BASIC at \$7000  
 SYS 7\*4096  
 STB PET 6000 .P PET Structured BASIC at \$6000  
 SYS 6\*4096  
 STB PET 9000 .P PET Structured BASIC at \$9000  
 SYS 9\*4096  
 STB 3800 RUN .P PET Structured BASIC at \$3800  
 RUN

STB 6000 RUN .P as above.  
 STB 7000 RUN .P as above.  
 STB 9000 RUN .P as above.  
 STB INSTRUCT.Z Northcastle Structured BASIC  
 instructions - RUN  
 FAST COPY-ALL.P Utility - Another copy program.  
 SIMPLE.Z NCSTL Structured BASIC simple  
 sample program.

QUIT FOR-NEXT.Z NCSTL Structured BASIC FOR-NEXT  
 program.

LINE RESTORE.Z Another sample program.  
 BINARY SEARCH.Z Another sample program.  
 QUICKSORT.Z Another sample program.

**NOTE: Versions are also available for the C-64  
 and VIC 20.**

STB PAL 3800.P NCSTL PAL Assembler file at  
 \$3800.  
 STB PAL 6000.P NCSTL PAL Assembler file at  
 \$6000.  
 STB PAL 7000.P NCSTL PAL Assembler file at  
 \$7000.  
 STB PAL 9000.P NCSTL PAL Assembler file at  
 \$9000.  
 STB INITIAL.A NCSTL Initialize source code.  
 STB COMMAND.A NCSTL Command Analyser source  
 code.  
 STB SETUP.A NCSTL Setup source code.  
 STB LOOPING.A NCSTL Looping source code.  
 STB SELECTION.A NCSTL Selection source code.  
 STB PROCEDURE.A NCSTL Procedure source code.

LIBRARY LOGA.P Utility - List your disk direc-  
 tories (needs dual drive). Uses an  
 upgraded version of disk logger  
 to produce a disk log print and

continued

# Monthly Releases...

TDOTPUG NOV.84.P a data file. Merges these data files into larger files with a listing if desired. Lists the data files produced previously. Sequential data file - example file of this disk from "LIBRARY LOGA.P" program.

## (P)TE - DECEMBER 84 (1 disk/tape)

LIST-ME(P)TE.L Contains information about the programs on (P)TE.  
----- Utility Programs -----  
2031-COPY/ALL.Z Single disk copy - for the 2031.  
CHECK FORMAT.Z Checks disk for drive source whether disk produced on a 1541 or 4040. Based on article by E. Deal TORPET Oct/83.  
HI-RES PLOT.P Demo program for PLOT ML 634.P  
PLOT ML 634.P An assembler plot program - see HI-RES PLOT.P plot double-density pixels on 40-col screen.  
REL FILE FIX.P Read and modify RELative files.  
REL-SEQ CONV.P Convert RELative to SEquential files or vice-versa.  
SEQ READ/PRINT.P Read SEquential data files.  
SORT DEMO.P Demo program for ULTRASORT ML.P  
ULTRASORT ML.P An assembler sort program.  
USR DEF KYBRD.P Redefine keys on your keyboard.  
WPRO BUSTER.P Convert Wordpro instruction (.W) files to a listable file.  
SQUEEZER.Z Modified compactor - squeezes BASIC programs.

### ----- Ham Radio Programs -----

HAM REGISTER.P Call sign and name register. Type in the call sign to get the operator's name and other info.  
MORSE-BTRFLD.P Practice your code - send and receive.  
QSL.Z Print your own QSL cards.

### ----- Sports Medicine Programs -----

POWER JUMP 80.P Calculates energy required to power jump from a crouch, especially useful in badminton.  
POWERJUMPINST.W Word pro file of instructions for POWER JUMP 80.P or STEP TEST 80.P

**NOTE:** WPRO BUSTER.P can be used to get a listing if Wordpro or Paperclip programs are not available.

STEP TEST 80.P Calculates energy consumption using aerobic step test method.  
----- Business Programs -----

The following 3 business programs work together using the 6 data files (.D) that follow. Instructions are included in each program but some knowledge of accounting is assumed.

ACCOUNTING.P Accounting for the 8032.  
BUDGET.P Budgeting program for the 8032.  
CHECKBOOK.P Checkbook record program.  
CHECKDATAFILE.D These data files are used by:  
SAVINGS.D ACCOUNTING.P  
TEMP.D BUDGET.P  
ACCOUNTING.D and  
BUDGET INCOME.D CHECKBOOK.P  
BUDGET.D  
DISKFILE.P Simple database program.

### ----- Miscellaneous Programs -----

PCLIP TO WPRO.P Convert Paperclip files to Word Pro. The Word Pro word processor will not read files produced by

PETLOAD 64.P Paperclip. This program helps solve the problem. Change C-64 programs to load into a PET. You can LIST the C-64 programs but may not be able to RUN them on a PET or CBM.  
STEPWISE.Z Stepwise multiple regression calculation from J. Butterfield.  
LIBRARY LOGB.P Log the programs on your disks. Also produces an alphabetic list of all entries. Updated version of LIBRARY LOGA.P  
There are 3 sections: log your disks, merge the logged files, and list any file. You can list on your screen or print.  
**NOTE:** The program requires a dual drive.

## (P)TF - JANUARY 85 (1 disk/tape)

LIST-ME(P)TF.L Contains information about the programs on (P)TF.  
BASICDISKBOOT.P LOAD and RUN - This program reads the directory, puts it on the screen and numbers each entry so that you can choose one by its number - it ignores SEquential files.  
MX80 CAS LABEL.Z Prints cassette box labels on an MX80 printer.  
PHONE LIST 2.8 Produce a company phone directory. The list uses first and last name, dept., and phone. It will sort by any of the above subjects including separate listings by departments.  
RET LABELS.8 Print return address labels.  
SORT NAMES.8 Sort a list of names entered from the keyboard.  
SORT NUMBERS.8 Sort a list of numbers entered on the keyboard.  
TEST SCORES.8 Document the scores of a class and its average.

### ----- Keyboarding -----

KEYBOARD LOADER.8 Learn to touch type on the 8032.  
KEYBOARDING This program was written for a school board in Renton, WA by:

A  
B  
C  
D  
E  
F  
H  
I  
J  
K  
L  
M  
N  
O  
P  
Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z

D. Johnson, 16518 126th SE, Renton, WA

This upgraded package was originally released on disk (P)XB.

There is an instruction booklet and disk updates available from:

Computer Corner  
Continental Avenue  
Mount Vernon, WA  
(206) 428-1840

**NOTE:** There is a nominal charge for the service.

There were two other files in this package, PAPERMATE and PAPER SCREEN which are not public domain programs and therefore are not included on this disk. PAPERMATE is a commercial word processor available from:

AB Computers  
Montgomeryville, PA

Files A through Z are for skill improvement exercises.

continued

# Monthly Releases...

SCREEN  
FILE MAKER  
HOME ROW  
ALL ROWS  
G  
PAPERMATE SCHOOL  
FLASH  
INPUT  
COVER  
COPY DISK FILES  
HIGH WRIST  
LOW WRIST  
SHIFT LOCK  
# SIGN  
\$ SIGN  
% SIGN  
NUMBERS 1-5  
NUMBERS 6-0  
EACH NUMERAL  
ALPHA PROGRESS  
-----  
DON  
TEMP  
123  
KB/COMPACTOR

File used by KEYBOARDING  
Teachers can make up their own  
student data file.  
For skill improvement.  
Specially modified PAPERMATE  
program for schools - see note  
above re updates etc.  
Files used by KEYBOARDING  
A disk file copying program.  
For skill improvement.  
Files used by KEYBOARDING  
A compacted version of  
KEYBOARDING can be used instead  
of KEYBOARDING (makes it harder  
for students to break into and  
modify).

**(P)TG - FEBRUARY 85  
(1 disk/tape)**

LIST-ME(P)TG.L Contains information about the  
programs on (P)TG.  
This group of miscellaneous farm programs and the  
LIST-ME are from D. Underwood.

I gathered this info from a lot of people across  
the country. I especially thank Mr. William  
Gladstone of Gladcrest Farms, Worth, MO 64499. He  
was very helpful. Some of them came from various  
state universities and extension services. Some  
were written on Apples and TRS-80's. I translated  
them over to CBM 8032 format. Some of these use a  
screen dump to copy to a printer. I have a special  
chip in my 8032 to do this (among other things). It  
uses a SYS(37765) to copy the screen...do not use  
it or you will crash your CPU.

Dan Underwood 4-24-84  
3202 W. Roma Ave.  
Phoenix, AZ 85017  
242-6683  
TPUG # 5818

PEARSON SQR.Z This program uses the famous  
"Pearson Square" method to mix 2  
or 3 types of feeds.  
TRACTOR.Z Compares different brands and  
models for you. The data came  
from the "Nebraska Tests".  
CORN HERBICID.Z Written by college professor in  
Worth, MO. Mr. Hardy translated  
to CBM. Write college in Worth,  
MO for possible update.  
CROP COMPARE.Z Compares the relative economic  
merits of corn and soybeans (big  
crops in MO)  
IMPLEMENT.Z Written by high school boys in  
Worth, MO. Gives info about  
different tillage implements.

HOG ODDS.Z

HOG RATION.Z

RATION MIX 1.Z

RATION MIX 2.Z

L-C RATION MIX.Z

Data based on study done at the  
University of Missouri.  
Is based on a chart of  
information that was carried in  
"National Hog Farmer" a long time  
ago. Chart had used figures based  
on 20 years of price cycles. It  
tries to predict how hog prices  
are liable to move at different  
times of the year.  
Similar to dairy RATION MIX 1 &  
2. Calculates a balanced hog  
ration and the cost of same.  
Calculates the daily feed  
requirements of a milk cow,  
depending on her weight, milk  
production, fat content of the  
milk and supplemental hay and  
silage. Evaluates a daily ration  
for nutritional adequacy and  
return over feed cost. From:  
Dept. of Agricultural Econ.  
Extension Farm Management  
Oklahoma State University  
A free program for TI computers  
(I translated to 8032) from:  
Agricultural User Group  
11606 Oakshire #219  
Dallas, TX 75243  
(214) 349-1024

Smaller type of program as MIX 1  
This program is not finished and  
is not working right...I  
translated it from an Apple  
program sent to me by Oklahoma  
State University. I could never  
get it to work right. I'm sending  
it along in hopes that some  
math/computer brain out there can  
fix it. See info in beginning of  
program. It is a great linear  
equation program that uses  
"Gaussian reduction" to solve a  
large matrix.

3-INTEREST.8  
40 ON 80.8

CALENDAR.4

Other submitted programs for Feb. 85:  
DIARY.Z

DIARY/TAPE.Z

EVENTS  
MOON'S PHASES.P

NOT B-A BOOT.Z  
NOT BASIC AID.P  
NOTES.8

NOTES INST.8  
TAX84ONT 1-2.P  
INVASION.F  
MAZES.Z

Three interest calculations.  
Run this to execute 40-column  
programs on an 8032.  
Get a monthly calendar for any  
month of any year using the  
Julian calendar.

An events diary, uses EVENTS  
file on disk.  
An events diary, uses EVENTS  
file on tape.  
Used by DIARY.Z  
Get any phase of the moon from  
1900 - 2099.

Loader for NOT BASIC AID.P  
A special version of BASIC AID  
Keep notes, database style.  
Instructions for NOTES.8  
Ontario, Canada tax calc prog.  
Invaders type game, in BASIC.  
Try to get out of the maze.

**(P)TH - MARCH 85  
(1 disk/tape)**

LIST-ME(P)TH.L

Contains information about the  
programs on (P)TH.  
The latest version of the Electric Pencil word  
processing program by: Rick Illes. The data files  
(.W) can be viewed by the PENCIL word processor.

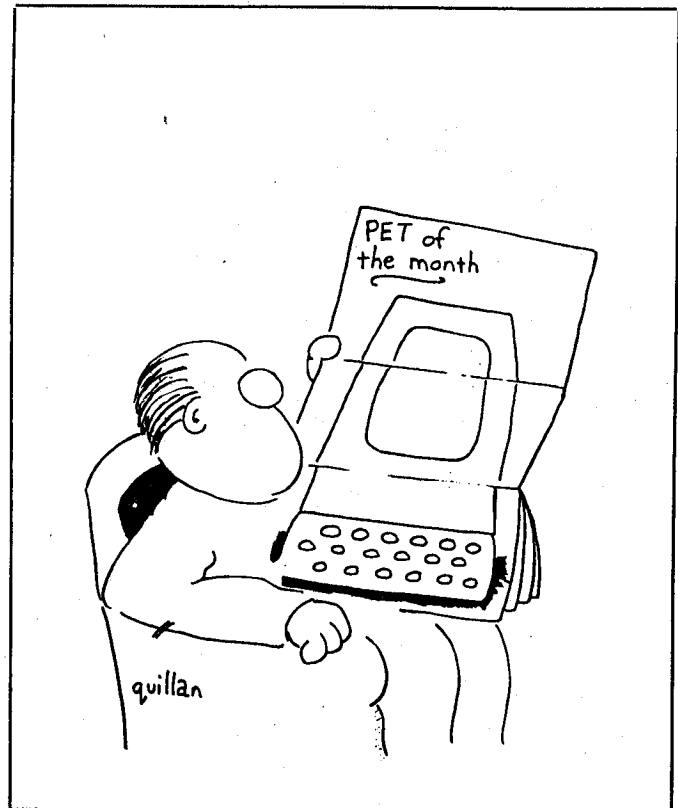
continued

# Monthly Releases...

PENCIL BOOT 29.P Loader program for the Electric Pencil.  
 QUICK-REF80.W Short reference file for Electric Pencil  
 REF-GUIDE80.W Reference file for Electric Pencil  
 These programs are loaded by PENCIL BOOT 29.P  
 4032 PENCIL.F Fat40 Electric Pencil program  
 4032S PENCIL.4 Skinny40 Electric Pencil program  
 8032 PENCIL.8 8032 Electric Pencil program  
 Other programs:  
 DON'T LOAD ME.P BASIC - Try this program! It has unusual results.  
 ILLES BOOT3.P A RUN/only program from J. Butterfield, modified by R. Illes, protects programs by making them auto/RUN.  
 MX-80 HI-RES.P Download your own characters or do hi-res prints on an MX-80.  
 RESISTOR/CAP.Z Calc standard resistor values.  
 WARLORDS+.Z An upgraded warlords game.

--- Freeware ---  
 MEMOCAL - a program to produce a monthly calender, with up to 10 entries per day, for further info RUN the menu.

MENU Loader for MEMOCAL freeware  
 INSTRUCTIONS **NOTE:**  
 MEMOCAL 4.3.PET This version doesn't work properly with the Commodore 152x and 80x series printers. For these use the non-dot-matrix mode in the setup module. The fix (version 4.4) is available from the author (see program).  
 MEMOCAL 4.3.64  
 ACCESS 4.3.PET  
 ACCESS 4.3.64  
 RTL-64  
 FOOTNOTES File used by MEMOCAL program



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## B-128 Library

(B)U1 - UTILITIES 1    bm8  
 Start8432.21    -mon extension-  
 t1    extra mn instr  
 td.alt    extra monitor  
 t2    extra monitor.s  
 td    list-me.bu  
 8432.21    sample boot.b  
 bank F.20 '1024    txram obj  
 instructions8432    sample obj  
 bm1    test.basic  
 bm2    hex dumper.z  
 bm3    flash.bas.b  
 bm4    flash.obj  
 bm5    flash.8.1  
 bm6    chg ld addr v1.2  
 bm7    mem dump.b  
       err\$ list.b