

# TPUG NEWS

Volume 2 Number 2

For TPUG inquiries, call (416) 733-2933

## President's Report

It is my sad duty to inform you that the January 1988 issue of the Transactor (which you should now have) will be the last you receive as a member of TPUG. Contract negotiations with the TRANSACTOR have failed to produce a positive outcome for all parties concerned. In order to keep you informed, this newsletter is perhaps a temporary measure. To service your needs, please reply to the survey contained herein by January 1, 1988. On the other hand, I am overjoyed to announce that TPUG will be presenting **Fred Fish of Public Domain Amiga Fame** at this year's World of Commodore Show. Look for Fred giving seminars in the French Room or at the TPUG booth throughout the show. Other notables that you can see around the TPUG booth will be: Jim Butterfield, Peter & Paul Hughes of FLEXI and GEOS applications. For more detailed information please see the Conference Report. While at the WofC show, do drop in after hours to our Hospitality Room, The SIMCOE ROOM, at the Skyline Hotel. There one will be able to meet other User Group members, as well as our speakers, board members, and notable guests.

## LIBRARY NEWS

It seems that somehow, many TPUG disks produced during the past year have never been publicized in the insert. We apologize to our C128 and CP/M members for this oversight. As a stop gap measure, this newsletter contains as many of those directories as space permits. For a more detailed and complete listing of the C128 and CP/M libraries, these have been included on a double sided 128/CP/M library catalogue disk. For this catalogue, send \$3.00 for postage and handling, to TPUG, 128/CP/M catalogue, 5300 Yonge Street, etc, or use the handy order disk form enclosed. The Amiga catalogue as well, is on disk. Same instructions apply, except specify Amiga Catalogue in your order.

## Condolences

To Jane Parris and family on the sudden, unexpected death of her father.

Season's greetings from all of us to all of you. May the New Year bring you and yours more health, prosperity and happiness than last year.

## OOPS!

Any news or articles you have written regarding Commodore computing, from PET to Amiga, may be forwarded to TPUG c/o TPUG NEWS, 5300 Yonge Street, Toronto, Ontario, Canada, M2N 2R5. It will still earn you \$50.00 (Can) per accepted page.

## Success breeds .....

Looks like there is a variation on a theme by Commodore USA. The latest offer to our American brothers is \$100.00 of EPYX software, free, with the purchase of a C64 computer. Limited time offer.

## TPUG CONFERENCE SCHEDULE

TPUG will be featuring a full schedule of **FREE** seminars on the Saturday and Sunday of the World of Commodore show to be held at the International Centre December 3 to 6, 1987. All TPUG seminars will be held in the **French Room** (follow the arrows). Please see the TPUG booth or the show guide for the speaker timetable. Below is our list of scheduled speakers:

### Saturday

Paul & Peter Hughes (Useful graphics with C= computers)  
Don White (MS DOS)  
Fred Fish (Public Domain Software Fame)  
Brian Niessen  
Jim Butterfield (Computer guru)  
Don Gray (Computing for the Absolute Klutz)

### Sunday

Chris Smeets (ARC author)  
John Moore (sprites and sound)  
Steve Punter (self described "programming genius")  
Jim Butterfield  
Fred Fish

**Library disks and other show specials will be available at the TPUG Booth at remarkably low prices.**

## THE TPUG BOARD OF DIRECTORS

The following are all members of the TPUG Board of Directors, each is serving the club as a volunteer. Their responsibility is to you the member first and foremost. They have in the past and will in the future uphold TPUG's record as the world's largest, oldest and best Commodore User's Group.

### MEYER TOOLE

Meyer Toole has been on the TPUG Board of Directors for 2 years. He has been a member of TPUG for many years, being member #133. He has been associated with Commodore computers for almost 9 years. He currently manages Electronics 2001 which is a major Commodore dealer in Toronto and a big booster of TPUG. It used to be the home of the TPUG Bulletin Board. Meyer is quite familiar with all Commodore hardware. Meyer is presently serving the second year of his two year term.

### RICHARD BRADLEY

Richard Bradley is 22 years old, married to Sandi, and his first child is due December 10, 1987. Richard works in the Computing Communications Department at Ryerson Polytechnical Institute. Richard's involvement with TPUG is now entering its 8th year. Richard has seen the club grow from 1100 members to 16,000 members and back to the present level of 5200. Richard has SYSOPed the TPUG BBS, organized the Trader's Corner, copied thousands of disks and talked to hundreds of people. Richard is now entering his second two year term as a Director of the club and would like you to write to him in care of the TPUG office with your ideas regarding any new services you would like to see the club provide.

### JOHN EASTON

John Easton is a photographer and works for the Ontario Ministry of Education. He is co-ordinator of the Westside Chapter, a member of the TPUG Board of Directors since 1982, and served as recording secretary from 1985 to 1987. John uses various Commodore computers and is interested in church applications for microcomputers. John is now entering his 5th term as a Board member.

### DAVID BRADLEY

David Bradley is 22 years old and he is married to Jane Parris. David writes a monthly column for RUN Magazine. David is the Co-SYSOP of the TPUG section on Quantum Link. As well David has been SYSOPing various Bulletin Boards since 1982. David has been involved with TPUG since 1980 and has served on the Board of Directors since 1984. David also served as a C64 librarian. David now resides in Sarasota, Florida but still maintains close ties with TPUG. David is now serving the last year of his second term on the Board of Directors.

### ANNE GUDZ

Anne joined TPUG in March of 1984 after buying the first of her many VIC 20's. Anne bought the VIC as a way of determining the feasibility of computerizing her full-time chiropractic office. She became the VIC meeting announcer in October 1984 and in March 1985 took her the responsibilities of co-ordinator. By October of 1985 she was appointed to the Board of Directors and became President October 1986. To say that she has natural leadership abilities combined with a caring, loving attitude would be appropriate. Anne's concerns for TPUG include continued support for the orphan machines, and, being a "people person" she is always looking out for the members' interests. Anne is now serving the last year of a two year term on the Board of Directors.

### CARL EPSTEIN

Carl Epstein has been a member of TPUG since its inception and has served four years as a Board of Director. Two of those years he has served as Vice-President. Carl was a driving force in establishing lower prices for disks and he firmly believes that being a member of a computer club is very important to learn all you can about your machine and enables you to share your knowledge with others. Carl is now completing his second year of a two year term as a Board member.

### GEORGE DAVIS

George Davis is a retired Chartered Accountant that has brought to TPUG a wealth of financial experience. He is presently in his second year on the Board of Directors and is a co-librarian for the C64. George can often be found at the C64 meeting presenting the monthly disk. George used Commodore PETs in the business world for eight years prior to his retirement.

### KEN POULTON

Ken Poulton is a newly elected member to your Board of Directors. He comes to us with vast knowledge of CP/M, telecommunications, the C128 and is now an avid AMIGA user. Ken is the co-librarian for the C64 as well as the Chairman of the Librarians Committee. Ken's technical knowledge aids many distraught members that phone or write in problems.

### WILFRED MEISSNER

Wilfred Meissner comes to TPUG with a colourful and varied past. Wilf has been a practising doctor of Chiropractic since 1951. Wilf joined TPUG in 1983 after he purchased his C-64. Wilf was a founding member of the Bathurst Manor Computer Club and is a former member of the Board Of Governors of the Avenue Road Business Association. Wilf is also past President of the Toronto Midtown Lions Club. Wilf has been an avid hobbyist and craftsman for years and now pursues and active interest in business applications for the C-64.

### AL FARQUHARSON

Al and TPUG go back a long way, in fact he was one of the first 100 club members! Al owns and uses most Commodore products from the PET to the AMIGA. Al is a software developer for pre-school and illiterates on the C-64. Al has served on the board in the past and is now in his second year of a two year term.

### \*\*\* UNCLASSIFIED ADS \*\*\*

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FOR SALE: CBM 8032, 8050 & 8300P Diablo Printer, Equipt. used 1 year. 1-(617)-288-0326  
FOR SALE: CBM 2040 dual floppy disk drive, \$300 neg.  
Write to: J. King, 7 Sqn RMC, Kingston, ON, K7K 5L0

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### TPUG BBS

(416)-273-6300  
(416)-252-8481  
24 hours per day  
7 days per week  
The Password is...

### WORLD

TPUG OFFICE  
5300 Yonge Street  
Toronto, Ontario  
M2N 5R2  
416-733-2933

**Membership Info:**

Regular Member (attends meetings) \$35.00 Cdn.  
Student (full-time, attends meetings) \$25.00 Cdn.  
Associate (Canada) \$25.00 Cdn.  
Associate (U.S.) \$25.00 U.S.  
Associate (Overseas - air mail) \$45.00 U.S.

**Board of Directors 1987/88**

President	Anne E. Gudz	c/o 416-733-2933
Past President	Chris Bennett	c/o 416-733-2933
Vice-President	Carl Epstein	416-492-0222
Vice-President	Meyer Toole	416-229-2700
Secretary	J. Allan Farquharson	c/o 519-442-7000
	David Bradley	c/o 416-733-2933
	Richard Bradley	416-492-5280
	George Davis	c/o 416-733-2933
	John Easton(evgs)	416-251-1511
	Wilfred Meissner	c/o 416-733-2933
	Ken Poulton	c/o 416-733-2933
Office Manager	Judy Bella	416-733-2933

**More Contacts:**

COMAL	Donald Dalley	c/o 416-733-2933
SuperPET	Avy Moise	c/o 416-733-2933
VIC 20	Anne E. Gudz	c/o 416-733-2933
Hardware	Frank Hutchings	c/o 416-733-2933

**Meeting Coordinators:**

C-64	Ken Poulton	c/o 416-733-2933
	Anne E. Gudz	c/o 416-733-2933
Eastside Chapter	Don Farrow	c/o 416-733-2933
	Jim Hamilton	c/o 416-733-2933
Westside Chapter	John Easton(evgs)	416-251-1511
	Al Farquharson	519-442-7000
Brampton Chapter	Norman Frost	c/o 416-733-2933
C128	George Skinner	c/o 416-733-2933
Amiga West Chapter	Mike Donegan(evgs)	416-639-0329

**Librarians:**

COMAL	Victor Gough	416-677-8840
PET	John Easton(evgs)	416-251-1511
SuperPET	Bill Dutfield	416-224-0642
VIC 20	Ernie Chorney	c/o 416-733-2933
Commodore 64	Ken Poulton	c/o 416-733-2933
	George Davis	c/o 416-733-2933
B-128	Paul Aitchison	c/o 416-733-2933
Amiga	Syd Bolton(evgs)	519-753-6120
	Adam White(evgs)	416-279-9162
Commodore 128	James Kokkinen	c/o 416-733-2933
MS/DOS	Colin Justason	c/o 416-733-2933
CP/M	Ray Whidden	c/o 416-733-2933

**TPUG Telecommunications Lines**

<b>Quantum Link</b>		
Sysops	David Bradley	ID: DavBradley
	Jane Parris	ID: JaneParris
Contacts:	TPUGMAIL, TPUGPRES.	
<b>TPUG Bulletin Board</b>		
Sysop(Weekdays)	Sylvia Gallus	c/o 416-896-1446
Assistant Sysop	Steve Punter	c/o 416-896-1446

C128: 1st Tuesday of the month:  
1987: Dec1  
1988: Jan5 Feb2 Mar1 Apr5 May3 Jun7

Amiga Central: 2nd Tuesday of the month:  
1987: Dec8  
1988: Jan12 Feb9 Mar8 Apr12 May10 Jun14

C64: 4th Tuesday of the month, except Dec.:  
1987: Nov24 **DEC15**  
1988: Jan26 Feb23 Mar22 Apr26 May24 Jun26

All of the above meetings commence 7:30 pm in the York Public Library, 1745 Eglinton Ave. W. (just east of Dufferin), in the Auditorium or Story Hour Room

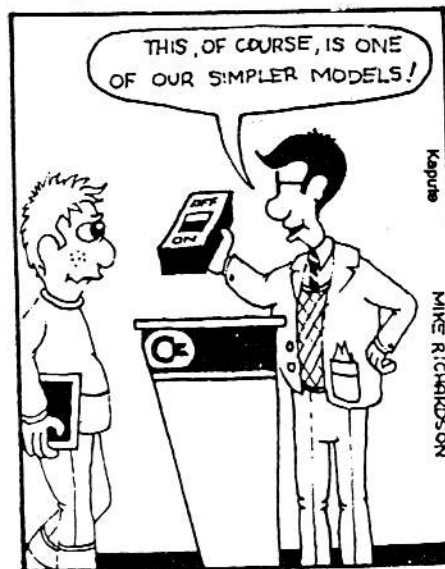
Westside: **2nd\*** Thursday of the month  
1987: Dec10  
1988: Jan14 Feb11 Mar10 Apr14 May12 Jun9

Amiga West: **2nd\*** Thursday of the month  
1987: Dec10  
1988: Jan14 Feb11 Mar10 Apr14 May12 Jun9

\* Formerly 3rd Thurs. The above two meetings take place at Clarkson Secondary School, Bromsgrove Rd. just east of Winston Churchill Blvd, Mississauga, in the Little Theatre.

Eastside: 2nd Monday of the month  
1987: Dec14  
1988: Jan11 Feb8 Mar7 Apr11 May9 Jun13  
at Dunbarton High School, in the computer room (north on Whites Road from the traffic lights at Highway 2 and Whites Road to next traffic lights; turn left to parking lot.

Brampton Meeting: 3rd Thursday of the month  
1987: Nov19 Dec17  
1988: Jan21 Feb18 Mar17 Apr21 May19 Jun16  
at 4 Silver Maple Court, Bramalea in the Hospitality Room.



# COMPATIBILITY

By Jim Butterfield

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I was recently asked whether I did much programming on the Commodore 128. My answer was: yes, and no. The C128 is a fine machine, especially for a Basic programmer. But unless there's a need, I see no reason to limit my programs to the 128 only.

The Commodore 128 has a number of marvellous features: more memory, greater capacity disk, faster disk using burst mode, 80 column screen, extra speed with the FAST clock, and a significantly expanded Basic language. (I've probably missed a few). The Basic interpreter, in particular, is very friendly to the program developer.

As an example: after reading a data file, my program under development stops for some reason. Perhaps there's a syntax error; perhaps I don't like the numbers that are being printed, and press the STOP key. As with other Commodore 8-bit machine, I can examine the variables of the program and try to establish what's wrong.

Many beginning programmers forget that a stopped program can "squeal on itself" by typing the contents of variables and arrays. Something wrong with average A? Then command PRINT A; and you might like to print other variables such as T (total) and N (number of items) and see what's causing the problem. Or if there's an array that should contain the names of the months, print selected values: for example, PRINT M\$(3) should probably yield MARCH. You can explore to see where the trouble has come from.

But the 128 has an extra. I can change part of the code .. and the variables are STILL there (they are kept in a separate "bank" from the program itself, so that changing the program won't disturb them). With a suitable GOTO command, I can then have the program pick up and continue from a place that I choose.

The 128 has other nice features, such as a RENUMBER command, or a DELETE to get rid of a group of lines. I don't use TRACE much, but it will tell you where a program is running, as it runs. It's a wonderful development machine.

Here's the point: when I use these "development" commands, the program can still run on other machines, such as the Commodore 64.

The 128 has other commands and features that can be marvellous if you need them. The commands and functions cover many areas. There's graphics, with such commands as COLOR or CIRCLE; animation, with SPRDEF or MOVSPR; disk, with DOPEN or SCRATCH; interface, with JOY or KEY; computation, with HEX\$, INSTR, or PRINT USING; structure, with DO or WHILE; and music, with PLAY or VOL. The keywords just named are just a small sample of what's available. The whole set is great for quickly creating a given effect.

But I think of it this way. If the program I write doesn't NEED 80 columns, and doesn't NEED the extra memory, and doesn't NEED super speed or disk capacity ... then I can write one program to run on many machines. The Commodore 64, for example, can't use the advanced commands of the 128, but it can do most functions - within the size of its screen, memory, and disk drive.

Instead of DOPEN#1,"FILE", I'll write OPEN 1,8,2,"0:FILE,S,R". Instead of PRINT USING, I'll write a subroutine to put things in columns. Instead of CHAR to a text screen, I'll use cursor positioning followed by PRINT.

The programs that are produced in this manner will probably run on almost any Commodore 8-bit computer. Sure, you won't get colour on a PET, and you won't get music the same way on a VIC-20, but most stuff will work. And that will save me writing multiple versions for various computers.

But I still benefit by the 128's superior editing and testing features. I save myself time and effort in putting together a program and testing it. And when the program is finished and checked out, I know that it's likely to run on other machines.

Don't misunderstand me, though. If I need to do quick graphics (say a graph or pie chart), I'll reach for the 128. For a quick business report, I'd grab the PRINT USING feature of the 128. And if I wanted to put together a quick piece of music, I'd certainly grab the 128 and code as follows (note the alphabetic 0 in lines 100 to 130; it's not a zero):

```
100 data "o3ccdecedr"
110 data "ccdecro2br"
120 data "o3ccdefedc"
130 data "o2bgabo3crcr"
200 for j=1 to 4
210 read x$
220 play x$
230 next j
```

It would take just a tad longer to do the same thing on a Commodore 64.



april '87 (y)aa1

```

run-me (y)aa1 prg
market survey prg
inventory prg
jfguardian.lion prg
jjview to kill prg
jj44 magnum prg
jj45 automatic prg
jjsatellite prg
jjspaceship prg
jjsagan prg
jjvespa prg
jjcaesar prg
jjbones prg
jjuhura prg
jjwinged dragon prg
gghowdy doody prg
jjviking axeman prg
jjchurhill prg
ebbs menu prg
ebbs utility prg
p-ebbs128 prg
npx.128 prg
mls.128 prg
128.fm prg
128.config prg
ddpagoda prg
ddnatalie.c prg
dd136 colors prg
cslide show 128 prg

```

BLOCKS FREE = 29

tpug (y)saa

```

run-me(y)saa prg
kalai-kalai prg
about the author prg
protector prg
money matters prg
decisions prg
seq file writer prg
seq file reader prg
label maker prg
check mate prg
super converter prg
mini-wordpro prg
dominoes prg
master mind prg
yahtzee prg
simon prg
tic-tac-toe prg
nightmare prg
othello prg
pharoah's needle prg
explosion prg
quatro prg
fifteen prg

```

BLOCKS FREE = 16

tpug may.ctu

```

list-me ctu.1 prg
ponzo tutor-5.c prg
ponzo tutor-6.c prg
ponzo tutor-7.c prg
bach fugue.c prg
entertainer.c prg
terminal.64.2.c prg
term.64.c prg
nightmare park.c prg
wheel fortune.c prg
yesterday.c prg
c-64 grapher.c prg
64 h-r plot m/1 prg
blackjack.c prg
birthday.c prg
twin bagels.c prg
submarines.c prg

```

BLOCKS FREE = 160

sept '87 (y)aan

```

run-me (y)aan prg
sdir31 prg
sdir.doc seq
recipe v1.0 prg
catfile.rec seq
headings.rec seq
yahtzee.128 prg
stranded prg
s-p-c prg
disk goody v5 prg
twin bagels prg
c128 disk logger prg
blackjack prg
petals prg
d.petals seq
d.blackjack seq
d.c128disklogger seq
d.twin bagles seq
disk doc.c-128 prg
128dirsleeve prg
floppy disk edit prg
fde.doc prg

```

BLOCKS FREE = 90

Drive 0:tpug (y)aam

```

tpug august 1987 seq
disk (y)aam seq
prepared by seq
jane parris seq
128 lister prg
copy 64-128.doc prg
copy 64-128 prg
database-labeler prg
directory plus prg
disk doctor 128 prg
disk menu.128 prg
dual 1571 backup prg
fast copy 128 prg
format mfm.128 prg
formatter prg
lottery128.80 prg
mode changer 128 prg
purge128 prg
timeout128 prg
travelmed c-128 prg
unit to unit.p prg
multi128 3.6-m1 prg
multi128 3.6docs seq
multiterm128 3.6 prg
menu prg

```

BLOCKS FREE = 48

tpug march 83.cts

```

list-me cts.1 prg
montana.c prg
monopole.c prg
labyrinth.c prg
piano.c prg
diskview.c prg
sprite-boot.c prg
scroll.c prg
sprite ed.c prg
dos.boot.c prg
dos 5.1.c prg
dos.inst.1 prg
copy-all.c prg
1541 backup.c prg
supermonv1.1.c prg
sprite manip.c prg
terminal.c prg
term.c prg

```

BLOCKS FREE = 203

Drive 0:mar '87 (y)aah

```

read-me(y)aah prg
seefile 128 prg
seefile notes seq
striper prg
seefile notes/s seq
striper notes seq
keys prg
one line seq prg
bargraph.80 prg
sprite seasons prg
halloween prg
hween.spr prg
birthday prg
bday.spr prg
valentine prg
valen.spr prg
christmas prg
xmas.spr prg
nezterm v9.0 prg
nez.m12 v9.0 prg
nez.m11 v9.0 prg
gdump mps1000 v prg
read.me-mps1000 prg
gdump roland v4 prg
read me-roland prg
cslide show 128 prg
ggblue jays prg
pic a balls prg
jttiger tank prg
jttour de franc prg
jj77 prg
jjairwolf prg
ggbugs bunny prg
jjconcorde prg
ggbloom county prg
jjkirk/spock prg
jjoolala prg
jjsudden impact prg
jjpirate prg

```

BLOCKS FREE = 96

may '87 (y)aaJ

```

run-me (y)aaJ prg
clock 128 prg
bridge.song prg
gglaunch prg
gglove prg
gglincoln prg
ggwater castle prg
color demo.80 prg
nightmare.80 prg
nerdcopy.x prg
disknosser.x prg
drug alert seq
jddome prg
morsentences.80 prg
dos128 prg
+dos128 prg
validate w/boot prg
typeofsystemtest prg
bootmaker prg
punter 128/1670 prg
xt.cl prg
term128 prg
term128.v1 prg

```

BLOCKS FREE = 182

(c)c10.tpug term

```

term word.boot prg
term word v2.0 prg
twml.v20 prg
welcome to prg
/e seq
/h seq
help seq
helpw/pro seq
terminal seq
download seq
f3 load seq
format load seq
printout seq
read-me seq
----- usr
cesar's term.64 prg
c-term docs seq
-t2 prg
-t3 prg
-t4 prg
set 0 prg
set 1 prg
set 2 prg
set 3 prg
set 4 prg
set 5 prg
set 6 prg
type set prg
bubble set prg
gothic set prg
italic set prg
roman set prg
script set prg
sketch set prg

```

BLOCKS FREE = 100

(c)u5.tpug utils

```

super.aide prg
pre-auto prg
auto prg
xmon.c3d7-cefe prg
xmon.74cc-8003 prg
edit.c000-c43e prg
screen.move prg
1 prg
2 prg
3 prg
doc.driver prg
wedge.doc prg
nm1.doc prg
topics.doc prg
comp.doc prg
credits.doc prg
editor.doc prg
xmon.doc prg
jake's edit prg
----- usr
superdisk 1f prg

```

BLOCKS FREE = 14

July '87 (y)aa1

```

run-me (y)aa1 prg
nez1.editor5 seq
nez1.xmodem24 seq
casino128 prg
file manager prg
file manag.doc seq
minidos prg
minidos/exp seq
ddboot prg
docu-disk prg
docu-disk.title prg
dd-instructions prg

```

BLOCKS FREE = 54

best editors.cx2

```

list-me (c)x2.1 prg
sprite boot.c prg
scroll.data.d prg
sprite editor.d prg
sample sprites.d prg
sprite instr.c prg
sprite maker.c prg
spritmaker.c prg
spredit.c prg
sped.c prg
char boot.c prg
rotate.data.d prg
standard.set.d prg
char editor.d prg
char instr.c prg
chred.c prg
char display.c prg
1525 char.edit.c prg
chargin peek.c prg
character gen.c prg

```

BLOCKS FREE = 333

(c)aap.tpug oc87

```

autoboot prg
printbootdata prg
autodoc seq
condir 1000 prg
copy-all.64 prg
bodycalc prg
food seq
bodycalc.docs seq
disk log 64 prg
conversions prg
brake prg
the helm prg
astronomy prg
ast1 prg
ast2 prg
ast3 prg
ast4 prg
ast5 prg
condir.docs seq
flash quiz64.b prg
fl telecom trm seq
fl hist dates seq
state capitals seq
copy-all.docs seq
disk log.doc seq
cupid loader prg
cupids revenge.2 prg
snoopy run.2 prg
backgammon prg
conversions.doc seq
locksmith prg
boot.data seq

```

BLOCKS FREE = 51

June'87 (y)aak

```

run.me (y)aak prg
nezterm 9.disk2 prg
nez1.disk prg
80charedt.m1 prg
80chr.ldr11 prg
nezterm9.20.help seq
scripset1 usr
charset1 usr
nez1.term45 seq
nez1.disk1 seq
80chr.2000.5 seq
nez1.asm notes seq
nez1.screen5 seq
nez1.punter11 seq
fldbin3 prg
CONFIG.old seq
CONFIG seq
nez1.defs15 seq

```

BLOCKS FREE = 106

nov. '87 (y)aap

```

run-me (y)aap prg
flash quiz 128 prg
fl trivia 1 seq
fl hist dates seq
state capitals seq
quiz scores seq
formatter prg
money manager prg
wheel/fortune prg
puzzle making prg
pz. base seq
ddwhtitle prg
ddwhtitle.1 prg
whset prg
pz. 15 seq
vw.1 prg
pz. 1 seq
pz. 2 seq
pz. 3 seq
pz. 4 seq
pz. 5 seq
pz. 6 seq
pz. marker seq
vw.2 prg
pz. 16 seq
pz. 7 seq
pz. 8 seq
pz. 9 seq
pz. 10 seq
pz. 17 seq
pz. 11 seq
pz. 12 seq
pz. 18 seq
pz. 13 seq
pz. 14 seq
pz. 19 seq
pz. 20 seq
depth charge prg
3rd sprite prg
3rd sprite prg
sprite two prg
copy all 128 prg
sort 128 prg
tokens128 prg
body prg
128 invaders prg
.id list seq

```

BLOCKS FREE = 141

Jan 87 (y)aaf

```

list-me(y)aaf prg
biplane game prg
reverse.40 prg
sprite editor.40 prg
label directory prg
drive alignment prg
unit to unit prg
go64autoboot prg
diskedit c128.40 prg
library 128v1 prg
letterwriter.80 prg
t-par prg
hi prg
texte3 prg
texte7 prg
texte8 prg
texte9 prg
character1 prg
m.demol seq
demo seq
m.demo.fl seq
texte4 prg
texte5 prg
texte6 prg

```

BLOCKS FREE = 18