# 

HW WZ USERS GROUP \* MEW ADDRESS \*

PRODUCED BY HV VZ USER'S GROUP A NON PROFIT PUBLICATION EDITOR: JOSEPH P LEON



### APOLOGIES . . .

MY SINCEREST APOLOGIES TO ALL VZ JOURNAL READERS FOR THE VERY, VERY LATENESS OF THIS ISSUE. AS MENTIONED IN LAST ISSUE I HAVE A MEDICAL PROBLEM WHICH GOT MUCH WORSE NEAR COMPLETION OF MY NEW HOUSE. IT AFFECTED ALL MY JOINTS AND MADE LIFE UNBEARABLE FOR MANY MONTHS.

I had to be out of my last address by a certain date and so I pushed myself and am still paying for it now. I had many relapses since then but thankfully I'm starting to feel near normal. The next issue should be on time as I've learned my lesson and am taking things easy.

## NEXT/FUTURE ISSUE/S . . .

FINAL PART OF VZ FREQUENCY.

MULTIPLE USR CALL ROUTINE (USED IN VZ FREQUENCY).

MACHINE CODE DIRECTORY ROUTINE (USED BY VZ FREQUENCY).

MINI AMPLIFIER FOR THE VZ.

MANUAL DATA INPUT FOR VZ LOTTO.

JOURNAL INDEX PART II

#### FOR SALE - FOR SALE . .

1 OFF VZ 300
2 OFF DISK DRIVES
1 OFF DISK CONTROLLER
1 OFF PRINTER INTERFACE
1 OFF GREEN SCREEN MONITOR
1 OFF LIGHT PEN
1 OFF MODEM AND INTERFACE
1 OFF DR20 TAPE DATA RECORDER
BOX OF ASSORTED DISKS, BOOKS, MAGAZINES AND MANUALS

\$250.00 ONO. WILL SEPERATE BUT WOULD PREFER TO SELL AS ONE LOT.

ALSO FOR SALE SPARE PARTS INCLUDING:

APPROXIMATELY  $6\ VZ's$ , expansion cases, modems, joysticks, memory, CPU chips (some new), monitors (going).

BEST OFFER FOR ABOVE . . .

BEN HOBSON PO BOX 255 QUIRINDI 2343 (067) 462 076 AFTER 6.30 PM

## PUBLIC DOMAIN SOFTWARE

IT HAS BEEN SUGGESTED TO ME THAT I ASSEMBLE A NUMBER OF DISKS CONTAINING PUBLISHED PROGRAMS, PUBLIC DOMAIN SOFTWARE, ETC AND OFFER TO READERS AT MINIMAL COST TO COVER EXPENSES. PLEASE LET ME KNOW YOUR IDEAS ON THIS AND WHAT TYPE OF SOFTWARE YOU WOULD LIKE. ED.

#### BACK ISSUES . . .

MOST BACK ISSUES ARE IN STOCK AND AVAILABLE AT FOLLOWING PRICES.

CURRENT ISSUE - \$3.50 EACH - INCLUDES POSTAGE 1 - 5 ISSUES - \$3.00 EACH - INCLUDES POSTAGE 6 OR MORE ISSUES - \$2.75 EACH - INCLUDES POSTAGE OUT OF STOCK ISSUES - \$3.50 EACH - INCLUDES POSTAGE

#### FRONT COVER

IT SAYS IT ALL. I HAVE MOVED AGAIN, BUT NOT VERY FAR AND HAVE NO PLANS MOVING AGAIN UNLESS I WIN LOTTO OR SOMETHING SIMILIAR. IT IS VERY NICE HAVING A PLACE OF MY OWN AGAIN AFTER BOARDING FOR A COUPLE YEARS WITH MY BROTHER.

HELP - SELL & .ELL

APOLOGIES, NEXT/FUTURE ISSUES, FOR SALE, PUBLIC DOMAIN SOFTWARE AND BACK ISSUES.

IST UTILITY BY L MILBURN PAGES 4-6 LIST IS A SMALL ROUTINE WHICH CAN BE CALLED FROM A BASIC PROGRAM AND LISTS A BASIC PROGRAM STORED ON DISK TO THE PRINTER (OR SCREEN AFTER A SMALL MOD) AND THE BASIC PROGRAM WILL KEEP RUNNING AFTER THE CALL.

DOS BUGS 2 BY L MILBURN PAGE 6 THIS TIME LES HAS FOUND A BUG WITH THE DCOPY COMMAND AND SHARES HIS DISCOVERY WITH OTHER VZ USERS.

#### BASIC COMMAND ABBREVATIONS PAGE 8 BY BOB KITCH

THERE ARE A NUMBER OF UNDOCUMENTED COMMAND ABBREVATIONS WHICH BOB BRINGS TO OUR ATTENTION AND CAN BE USED BY PROGRAMERS.

# INVERSE CHARACTER SET PAGES 7-10 BY BOB KITCH THE SHAPES OF THE VZ INVERSE CHARACTER SET IS HELD IN ROM AND CONTAIN

SOME ERRORS. IF YOU STUDY PAGE 10 YOU'LL SEE THEM. THE PROGRAM WILL ALLOW YOU TO A HAVE A LOOK AT YOUROWN ROM AND SEE FOR YOURSELF.

#### BASIC & SOURCE CODE TO PAGES 10-14 WP FILE BY D MITCHELL

THIS PROGRAM WAS NORMALLY AVAILABLE WITH DAVE MITCHELL'S E & F DISK WP PATCH3.3. IT CONVERTS BASIC PROGRAMS AND SOURCE CODE FILES TO DISK WP FILES. IT IS VERY FAST AND VERY EASY TO USE AND VERY USEFUL.

VZ NUMBERS FREQUENCY PAGES 14-18 THIS PROGRAM IS DESIGNED TO KEEP TRACK OF WINNING AND/OR SUPPLEMENTARY NUMBERS IN POOLS AND GO LOTTO. WITH SOME MINOR MODIFICATIONS THIS PROGRAM COULD BE ALTERED TO KEEP TRACK OF OTHER NUMBER FREQUENCIES. OZ LOTTO MODS IN NEXT ISSUE.

## VZ-EPSON PRINTER PATCH V1.4 PAGE 19 BY L TAYLOR - PUBLIC TAYLOR THE INSTRUCTIONS FOR ABOVE ARE REPRODUCED FOR THOSE WHO HAVE PROGRAM

BUT NOT THE INSTRUCTIONS.

#### NEW PUBLIC DOMAIN SOFTWARE PAGE 20 USER GROUPS CONTRIBUTIONS SUBSCRIPTIONS

DISCLAIMER: EVERY EFFORT IS MADE TO INSURE THE ACCURACY OF INFORMATION CONTAINED WITHIN BE IT GENERAL, TECHNICAL, PROGRAMMING, ETC. NO RESPONSIBILITY CAN BE ACCEPTED BY HUNTER VALLEY VZ USERS GROUP OR AUTHOR AS A RESULT OF APPLYING SUCH INFORMATION IN PRACTICE.

```
063 LD A,(HL)
064 INC HL
065; IF STRING LEN=0, RETURN
066 CP 0
067 JR Z,ERR
   001 ;*************
  002 :* MACHINE CODE ROUTINE *
003 :* PRINTS A BASIC PROGRAM *
   005;
                                                                                                                       006 ; NOT RELOCATABLE CODE.
  007 :
  008 ;************
  009 ; ROM SUBROUTINES.
  010:
                                                                                                                           073 INC HL
074 LD D,(HL)
075 EX DE,HL
  011 PCHR EQU 032AH
  012 PINT EQU ØFAFH
012 PINT COUNTY OF THE PROOF OF THE POWER 
                                                                                                                           076 ; COPY FILENAME TO BUFFER
                                                                                                                           077 LD DE,(DOS)
078 INC DE
079 LD C,A
080 LD B,0
081 LDIR
                                                                                                                           082 ; SAVE STACK POINTER
  021;
                                                                                                                          083 LD (STCK), SP
084; SET STACK PTR TO FREE MEM
 022 ;***************
 023 ;BASIC PROGRAM POINTERS
                                                                                                                           085 LD SP,STAK
086 ;SAVE IMPORTANT BASIC PTRS
 024
                                                                                                                          086; SAVE IMPORTANT BASIC PIRS
087 LD HL, (SBAS)
088 PUSH HL
089 LD HL, (EBAS)
090 PUSH HL
091 LD HL, (BPTR)
092 PUSH HL
093; SET FILETYPE TO BASIC TYPE
 025 DVCE EQU 789CH
  026 SBAS EQU 78A4H
 027 BPTR EQU 78A7H
 028 RTYP EQU 78AFH
029 EBAS EQU 78F9H
030 ARG EQU 7921H
 031;
 032; ****************
                                                                                                                           094
                                                                                                                                                      LD (IY+9),FTYP
                                                                                                                           095 ; LOAD FILE SPECIFIED FROM
 033 ; CONSTANT DEFINITIONS
 034;
                                                                                                                           096 ; DISK IN CURRENT DRIVE
 035 VINT EQU 2
                                                                                                                           098
                                                                                                                                                    CALL PWON
                                                                                                                           098 CALL LOAD
099 ;SAVE ERROR CODE.
 036 VSTR EQU 3
 037 SDEV EQU 0
 038 PDEV EQU 1
039 FTYP EQU "T"
040 STAK EQU 7700H
                                                                                                                          100 PUSH AF
101 CALL PW
                                                                                                                                                    CALL PWOF
                                                                                                                          102 ; RESTORE THE ERROR CODE
 041;
                                                                                                                         103 POP AF
104 ; WAS THERE A DISK ERROR?
 042 ;*************
                                                                                                                          105 CP 0
106 JR N
 043;
044 ;CHECK ARG IS A STRING
045 CP VSTR
046 JP NZ,ERR
047 ;CHECK IF IMMEDIATE MODE
048 CALL IMOD
049 ;SAVE DOS VECTOR
050 LD (DOS),IY
051 ;CLEAR FILENAME BUFFER
052 LD DE,(DOS)
114 LD (BPTR),HL
055 INC DE
116 ;PROGRAM LINE
117 LD DE,0
055 INC DE
056 INC DE
057 LD (HL),32 119 ;SAVE FOUND LINE PTR
058 LD BC,7 120 PUSH BC
059 LDIR 121 LOOP POP HL
060 ;GET STRING ARG (FILENAME) 122 ;BC = PTR TO NEXT LINE
061 LD HL, (ARG) 123 LD C, (HL)
062 ·A=STRING LENGTH 124 INC HL
```

LIST IS A SMALL ROUTINE WHICH LISTS A BASIC PROGRAM STORED ON DISK TO THE PRINTER (OR SCREEN AFTER A SMALL MOD).

SO WHATS NEW? I HEAR YOU ASK.

WELL, THE BEAUTY OF THIS UTILITY IS THAT IT CAN BE CALLED FROM A BASIC PROGRAM AND DOES NOT RE-ENTER IMMEDIATE MODE AFTER LISTING THE PROGRAM, (I.E. THE CALLING BASIC PROGRAM KEEPS RUNNING).

WHAT'S THE USE?

THE MAIN USE OF LIST IS TO PROVIDE AN EASY WAY TO LIST MANY BASIC PROGRAMS IN A "BATCH LIKE" PROCESS WITHOUT REQUIRING INTERVENTION BY THE USER.

HOW TO USE LIST.

- (1) A CONTROLLING BASIC PROGRAM IS REQUIRED. IT MUST LOAD THE ROUTINE, SET UP THE USR ADDRESS AND PROVIDE THE FILENAMES OF THE PROGRAMS TO LIST.
- (2) THE CONTROLLING BASIC PROGRAM MUST BE RELOCATED SUCH THAT ITS START ADDRESS IS ABOVE THE END ADDRESS OF ALL OF THE BASIC PROGRAMS IT IS LISTING.
- (3) X=USR("FILENAME") IS THE SYNTAX REQUIRED TO LIST A FILE. AFTER THE CALL, X INDICATES WHETHER AN ERROR OCCURRED (NON-ZERO = ERROR).

RELOCATING A BASIC PROGRAM

THE EASIEST WAY TO RELOCATE A PROGRAM IS TO USE THE EXT12 UTILITY. AN ALTERNATIVE IS TO MOVE THE START OF BASIC POINTER AS DESCRIBED IN THE TECHNICAL MANUAL.

RUNNING A RELOCATED BASIC PROGRAM

IF YOU TRY TO RUN A RELOCATED BASIC PROGRAM AND YOU GET A SYNTAX ERROR TRY THE FOLLOWING:

SOB=(PEEK(30884)+256\*PEEK(30885))-1 POKE SOB,0 or POKE SOB-65536,0 IF SOB > 32767

NOW TYPE RUN

HERE IS AN EXAMPLE OF A CONTROLLING BASIC PROGRAM (NOTE THAT LIST.BIN IS LOCATED AT 29184)

- 10 BLOAD"LIST.BIN"
- 20 POKE30862,0:POKE30863,114
- 30 POKE29282,0 'FOR SCREEN LIST
- 40 X=USR("FILE1")
- 50 X=USR("FILE2")
- 60 X=USR("FILE3")
- 70 X=USR("ETC ")
- 80 X=USR("ETC ")

#### LIST SOURCE CODE ON NEXT 2 PAGES

# 44-7 BASIC COMMAND ABBREVIATIONS BY BOB KITCH

A NUMBER OF ABBREVIATED FORMS OF BASIC COMMANDS WILL RUN ON THE VZ. THESE SHORTENED FORMS ARE NOT FULLY DOCUMENTED IN THE MANUALS ACCOMPANYING THE MACHINES; SO I HAVE SET THEM OUT BELOW. TRY THEM, AS THEY SAVE A LITTLE SPACE ON THE 32 CHARACTER LONG LINE. THEY SHOULD BE USED WITH CAUTION AS THEY CONTRIBUTE LITTLE TO PROGRAM READABILITY.

FULL	COMMAND
------	---------

#### ABBREVIATED COMMAND

10 REM A NON-EXECUTABLE LINE	10 ' A NON-EXEC
20 PRINT"SEE THIS""	20 ?"SEE THIS"
30 SOUND 1,3:SOUND 2.5	30 SOUND 1,3;2,5
40 LET A=23	40 A=23
50 IF A=1 THEN GOTO 999	50 IF A=1,GOTO 999
	OR
	50 IF A=1,999
60 PRINT"ENTER VALUE": INPUT A	60 INPUT"ENTER VALUE";A

TO PUT THE INPUT "?" ANY WHERE ON THE SCREEN USE:

70 PRINT@488::INPUT A

MULTIPLE NEXT STATEMENTS ARE NOT REQUIRED IF THEY FOLLOW EACH OTHER IN THE PROGRAM.

EDITOR'S NOTE:

THE USE OF (') INSTEAD OF REM SAVES TWO CHARACTER SPACES ON THE PROGRAM LINE BUT USES 3 BYTES OF MEMORY INSTEAD OF 1 BYTE.

THE USE OF (?) INSTEAD OF PRINT SAVES CHARACTER SPACES ON THE PROGRAM LINE, BUT ONCE ENTERED THE VZ CONVERTS IT TO THE PRINT STATEMENT. EACH NUMBERED LINE ON THE VZ CONSISTS OF 64 CHARACTER SPACES INCLUDING THE LINE NUMBER.

IT IS POSSIBLE BY USING (?) MANY TIMES ON A LINE TO FORCE THE VZ TO EXCEED THE 64 CHARACTER LIMIT. THE VZ WILL DISPLAY IT, BUT WILL NOT ALLOW EDITING OF THE EXTRA CHARACTERS/LINES AND IF YOU PRESS RETURN ON THE LINE THE EXTRA CHARACTERS/LINES WILL DISAPEAR.

WHEN RENUMBERING YOUR PROGRAM THE USE OF (') INSTEAD OF REM CAN CORRUPT YOUR PROGRAM AND BRING ON STRANGE RESULTS WHICH COULD BE DIFFICULT TO CORRECT FOR THE NOVICE PROGRAMMER. AS BOB MENTIONED USE THE ABREVIATED COMMANDS WITH CAUTION.

#### DISPLAY INVERSE CHARACTER SET BY BOB KITCH

WHEN INVERSE CHARACTERS ARE SENT TO A DOT MATRIX PRINTER THE PRINTER SHIFTS TO GRAPHICS MODE AND REQUIRES A ROUTINE TO SUPPLY THE APPROPRIATE SHAPES TO THE HEAD. (NORMAL CHARACTERS ARE HELD IN THE PRINTERS ROM). IN THE VZ COMPUTER A TABLE OF SHAPES IS LOCATED AT 3B94H TO 3CD3H (15252 TO 15571 IN ROM.

THERE ARE 64 CHARACTERS, EACH USING 5 BYTES TO DEFINE THEIR GRAPHIC SHAPE. THE SHAPES MAY BE DECODED AND OUTPUT TO THE SCREEN AS IS DONE IN THIS PROGRAM. NOTE THERE ARE ERRORS IN THE ROM. THE 5 BYTES DEFINE A 5 BY 8 DOT MATRIX WHICH IS THE SHAPE OF THE CHARACTER, WHICH INCIDENTLY ARE NOT ORDERED ACCORDING TO THE ASCII CODE.

```
160 ERR LD HL,1
161 JR LEX1
162 ERR2 EQU $
163 ; 205 ; 164 ;RESTORE IMPORTANT BASIC 206 IBUF DEFS 100 165 ;PROGRAM POINTERS 207 STCK DEFW 0 166 POP HL 208 DOS DEFW 0
```

### DOS BUGS REPORT 2 IN (DSE) DOS V1.2 BY LESLIE MILBURN

I HAVE FOUND YET ANOTHER BUG IN DOS V1.2. THIS TIME IT IS TO DO WITH THE DCOPY COMMAND. IF DCOPYING A SINGLE FILE USING TWO DRIVES AND THE DESTINATION DISK IS WRITE PROTECTED, THE DESTINATION DRIVE IS LEFT SPINNING AND NO ERROR MESSAGE IS DISPLAYED.

IF ANYBODY HAS FOUND ANY OTHER BUGS IN ANY DOS SYSTEM, PLEASE INFORM THE EDITOR WHO CAN PASS THE INFORMATION ON TO OTHER USERS.

NOTE: IF WRITING TO EDITOR PLEASE NOTE NEW ADDRESS AND PHONE NUMBER WHICH IS SHOWN ON FRONT COVER.

#### 44-9 INVERSE CHARACTER SET CONT.

```
460 COLOR BT%(I%) :'***SET COLOUR OF BIT.
470 SET(HP%,VP%+I%) :'***PLOT BIT.
480 NEXT I%
490 :
500 '***PREPARE FOR NEXT BYTE.
510 HP%=HP%+1 :'***INCREMENT HORIZONTAL POSITION.
520 IF BK%=5 THEN BK%=0 :HP%=HP%+CW% :'***NEW CHARACTER.
530 NEXT AD%
590 GOTO 590
```

#### EDITOR'S COMMENTS:

THE VZ AS SOLD HAS A TANDY PRINTER COMPATIBLE BASIC ROM. FOR THOSE PERSONS WHO HAVE AN EPSON PRINTER COMPATIBLE EPROM THE ABOVE PROGRAM WILL PRINT THE INVERSE CHARACTERS UPSIDE DOWN. TWO MINOR CHANGES ARE REQUIRED TO FIX THE PROBLEM:

OLD LINE: 230 VP%=3 OLD LINE: 470 SET(HP%.VP%+I%)
NEW LINE: 230 VP%=11 NEW LINE: 470 SET(HP%,VP%-I%)

DISK USERS: ENTER THE FOLLOWING LINES FOR EXTRA FUNCTIONS.

TAPE USERS: ENTER ONLY THE FOLLOWING LINES AFTER LINE 610.

ON THE NEXT PAGE YOU'LL SEE TWO HI-RES SCREEN PRINTOUTS PRODUCED BY THIS PROGRAM. THE LEFT ONE IS OF A STANDARD VZ ROM WHILE THE RIGHT ONE IS OF A MODIFIED VZ ROM (EPROM). IF YOU STUDY THEM CAREFULLY YOU'LL NOTE THE ERRORS IN THE LEFT ONE THAT BOB MENTIONED. ANOTHER ADVANTAGE OF THE MODIFIED EPROM IS THAT IT WILL PRINTOUT TO AN EPSON COMPATIBLE PRINTER ALL THE VZ'S INVERSE AND GRAPHIC CHARACTERS.

#### MODIFIED VZ ROM (EPROM):

BESIDES ALLOWING LLISTING AND LPRINTING OF ALL INVERSE AND GRAPHIC CHARACTERS THE EPROM ALSO PROVIDES ALL THE EXTENDED BASIC FUNCTIONS HOBBLED IN THE ORIGINAL VZ ROM WHICH MEANS IT IS NO LONGER REQUIRED TO LOAD ANY EXTENDED BASICS.

WHEN INVERSE CHARACTERS ARE SENT TO A DOT MATRIX PRINTER THE PRINTER SHIFTS TO GRAPHICS MODE AND REQUIRES A ROUTINE TO SUPPLY THE APPROPRIATE SHAPES TO THE HEAD. (NORMAL CHARACTERS ARE HELD IN THE PRINTERS ROM). IN THE VZ COMPUTER A TABLE OF SHAPES IS LOCATED AT 3B94H TO 3CD3H (15252 TO 15571 IN ROM.

THERE ARE 64 CHARACTERS, EACH USING 5 BYTES TO DEFINE THEIR GRAPHIC SHAPE. THE SHAPES MAY BE DECODED AND OUTPUT TO THE SCREEN AS IS DONE IN THIS PROGRAM. NOTE THERE ARE ERRORS IN THE ROM. THE 5 BYTES DEFINE A 5 BY 8 DOT MATRIX WHICH IS THE SHAPE OF THE CHARACTER, WHICH INCIDENTLY ARE NOT ORDERED ACCORDING TO THE ASCII CODE.

THE FIRST BYTE DEFINES THE LEFT HAND EDGE OF THE CHARACTER WHICH IS THE FIRST PRINTED DURING A PASS OF THE PRINTER HEAD. IN TANDY PRINTERS THE MSB IS THE LOWERMOST PIN OF THE HEAD AND LSB IS THE UPPERMOST PIN. THE PINS ON EPSON PRINTER HEADS ARE ARRANGED IN THE OPPOSITE SENSE. THIS REQUIRES THAT THE BITS IN EACH BYTE BE REVERSED.

```
020 '*** DISPLAY INVERSE CHARACTER SET IN ROM
030 '***
                   AS USED BY DOT MATRIX PRINTER
                     BY R. B. KITCH 27/9/86
050 '********
100 DIM MK%(7): '***VECTOR OF BIT MASK VALUES - POWERS OF 2
110 DIM BT%(7): '***VECTOR OF DECODED BITS FROM ROM VALUE.
130 '***FILL MASK VECTOR WITH POWERS OF 2 FOR DECODING.
140 FOR I\%=0 TO 7 :MK%(I\%)=2^I\% :NEXT I\%
150 :
160 '***INITIALIZE PARAMETERS - MAY BE CHANGED TO VARY SCREEN.
170 CC%=4 : '***CHARACTER COLOUR. (1-4)
             : '***BACKGROUND COLOUR. (1-4)
180 BC%=2
             :'***COLOUR SET. (0-1)
190 CS%=0
             : '***COLUMN WIDTH BETWEEN CHARACTERS.
200 CW%=3
             : '***ROW SPACING FOR CHARACTERS.
210 SP%=16
220 HS%=0 : '***STARTING HORIZONTAL POSITION ON HI-RES SCREEN.
230 VP%=3 : '***STARTING VFRTICAL POSITION ON HI DES COSES'
            : '***STARTING VERTICAL POSITION ON HI-RES SCREEN.
240 HM%=127 : '***MAXIMUM HORIZONTAL POSITION. (0-127)
250:
260 ****SET UP MAIN LOOP TO STEP THROUGH ROM FROM 3B94H-3CD3.
270 BK%=0
                          : '***BYTE COUNTER FOR EACH CHARACTER.
                           : '***SET HORIZONTAL POSITION TO START
: '***SET HI-RES SCREEN AND COLOR SET.
280 HP%=HS%
290 MODE(1) :COLOR,CS%
300 FOR AD%=15252 TO 15571 : '***ROM ADDRESSES FOR SHAPE TABLE.
310
                           :'***DECIMAL VALUE IN ROM.
      DV%=PEEK (AD%)
320 :
    '***DECODE THE INDIVIDUAL BITS OF DV% AND STORE IN BT%().
330
   '***THE MASK VALUES IN MK%() ARE "ANDED" WITH THE VALUE.
340
350 '***THE RESULT STORED IN BT%() IS THE "COLOUR" OF THE BIT.
      FOR I%= 0 TO 7 : "***PROCEED FROM LSB TO MSB.
360
370
        IF DV% AND MK%(I%) THEN BT%(I%)=BC% ELSE BT%(I%)=CC%
380
      NEXT I%
390:
400 '***CHECK THAT THERE IS ENOUGH ROOM TO PLOT CHARACTER.
      IF BK%=0 AND HM%-HP%<4 THEN HP%=HS% : VP%=VP%+SP%: '*NEW ROW
410
420
                           : '***INCREMENT BYTE COUNTER.
430 :
440 ****OUTPUT BYTE TO SCREEN.
450
    FOR I%=0 TO 7
```

## 44-11 BASIC & SOURCE CONV. CONT.

```
DJNZ RC
POP DE
LD (7200H),DE
LD (7200H),DE
LD HL,HO
POP BC
LDIR
POP IY
LD HL,ERR
LD (79ADH),HL
LD A,0C3H
LD (79ACH),A
LD (79ACH),A
LD (78A4H),HL
LD HL,7AE9H
LD (78A4H),HL
LD HL,(7200H)
LD HL,(7200H)
JP (HL)
DEFW L1+1

109
JR S1
LD A,(IY+10)
LD A,(IY+10)
LD A,(IY+9)
LD A
                                                                                                                    LD
                     048
                      049
                     050
                      051
                      052
                      053 L1
                      054
                      055
                   056 LD (79ACH),A
057 LD HL,7AE9H
058 LD (78A4H),HL
059 CALL 1B4DH
060 LD HL,(7200H)
061 JP (HL)
062 LT DEFW L1+1
```

QABCOEFGHIJKLMNO QABCOEFGHIJKLMNO PQRSTUVWXYZ[x]f+ PQRSTUWWXYZC%Jt+ 1"#\$%&^()\*+#-0128456789\*;<=>? 

# BASIC & SOURCE CODE TO WP FILE CONVERTER BY DAVE MITCHELL

UTILITY WHICH SOME OF YOU MAY KNOW AS BSTWP.F (BASIC AND SOURCE THIS CODE TO WORD PROCESSOR FILE CONVERTER) IS USED IN CONJUNCTION WITH MITCHELL'S PATCH3.3 (DISK VERSION OF E & F WORD PROCESSOR). IT CAN ALSO BE USED WITH RUSSELL HARRISON'S VERSION OF DISK WORD PROCESSOR (WORDPRO).

AS THE NAME SUGGESTS THIS UTILITY CONVERTS BASIC PROGRAMS AND EDITOR ASSEMBLER ('S' FILE TYPE ONLY) SOURCE CODE FILES INTO WORD PROCESSOR FILES WHICH CAN BE LOADED INTO EITHER DISK WORD PROCESSOR. CONVERTING IT'S JUST A MATTER OF ENTERING THE BASIC OR COULD'NT BE SIMPLER, SOURCE CODE FILENAME AND ONCE LOADED ENTERING THE WP FILENAME. PRESSING RETURN WITHOUT FILENAME WILL PRESENT USER WITH DISK DIRECTORY IN 3 COLUMNS.

CONVERTING IS VERY FAST, DO'NT BLINK OR YOU MAY MISS IT. THE WP FILES ARE SAVED TO DISK WITH A 'W' FILETYPE WITH AN END ADDRESS OF D000H. BOTH BASIC AND SOURCE CODE FILES ARE PADDED OUT TO 5 DIGITS WITH LEADING ZEROES WHICH YOU MAY HAVE COME ACROSS IN THE JOURNAL ON NUMEROUS OCCASIONS.

AS YOU ENTER THE SOURCE CODE SAVE IT EVERY SO OFTEN SO YOU WON'T LOSE ALL YOUR TYPING. SAVE THE SOURCE CODE AS CONV.SRC AND THE OBJECT CODE AS CONVERT.

WARNING: YOU SHOULD BE AWARE THAT ANY GRAPHIC CHARACTERS IN YOUR CONVERTED BASIC PROGRAM WILL PRINT OUT AS GARBAGE AND IS A LIMITATION OF THE WORD PROCESSOR.

ANYONE WHO HAS TRIED THE PRINTER FUNCTION OF THEIR EDITOR ASSEMBLER WILL FIND THIS UTILITY VERY HANDY FOR PRINTING OUT SOURCE CODE FILES AS IT CAN TAKE ADVANTAGE OF ALL THE PRINTER FUNCTIONS OF PATCH3.3 OR WORDPRO HAS TO OFFER.

#### CONVERT VERSION 3.1A:

Brian Greeve of WA has modified convert by adding extra functions MAKING IT VERY VERSATILE INDEED. THANKS BRIAN. CONV3.1A WILL CONVERT SOURCE CODE FILETYPES, EG: S. A & W AS WELL AS QUICK WRITE ' PROCESSOR FILES. OTHER OPTIONS ARE NUMBER OF DIGITS SELECT, 1-5 AND D000 OR FE00 WP FILE END ADDRESS FOR PATCH3.3 OR WORDPRO.

# 44-13 BASIC & SOURCE CONV. CONT.

249 250 251 252 253 254 255 256 257		PUSH POP INC LD EX POP LDDR INC LD	HL BC BC HL, ØCFFFH DE, HL HL DE (78A4H), DE	311 312 313 314 315 316 317 318 319	LD LD INC PUSH POP INC LD LDIR RET	A,20H (DE),A HL IY DE DE BC,8
262 263 264		LD LD CALL	HL,0D000H (HL),0 (78F9H),HL HL,M2 (ADD),HL HL,MES2 2B75H	320 DIR 321 322 323 324 325 L23 326 D1 327	CALL XOR LD LD LD CALL DI CALL	01C9H A (IY+11H),A (IY+12H),A (7AAEH),A DLY
268 269 270 271	L20	CALL LD CALL IN BIT JR LD	IPUT (IY+9),"W" DLY A,(13H) 7,A Z,S4 A,4	328 329 330 331 332 333 334	CP JR OR JP LD LD	11H Z,D7 A NZ,400EH L,(IY+31H) H,(IY+32H) B,8
272 273 274 275 276 277 278	EI L21	JP CALL OR JP CALL EI JP	400EH 4044H A NZ,400EH 400BH	335 D2 336 337 338 339 340 341	LD OR JR PUSH CP JR LD	A, (HL) A Z,D7 BC 1 NZ,D3 DE,16
280 281 282 283 284 285	BTA L22	LD CALL DEC LD INC RET	BC,0606H HL,(BUF1) 132FH HL (HL),20H HL	342 343 344 D3 345 346 D4 347	ADD JR LD EI LD INC	HL,DE D6 B,10 A,(HL) HL
287 288 289 290 291 292	DLY BR	DI CALL LD CALL RET PUSH POP	4008H BC,0032H 4038H IY HL	348 349 350 351 352 353 354	DJNZ LD ADD AND JR LD	033AH D4 A,(7AAEH) A,10 20H NZ,D5A A,20H
295 296 296 297 298 299 300 300 306 306 306 306 309 310	IPUT	DEC LD LD LD LD LD LD LD CALL JP CALL JR CP JR CP JR	HL (78B1H), HL BC,65485 HL,BC (78AØH), HL HL,7AE9H (78A4H), HL A,0C9H (79ACH), A 1B4AH 1A19H HL,MES3 2B75H 053AH C,BR A,(DE) 20H Z,DIR	355 356 357 D5A 358 359 360 361 D5 362 363 D6 364 365 366 367 368 367 368 369 D7 370 371 372 ERR	CALL JR LD CALL LD CALL LD ADD POP DJNC LD CP JR CALL POP LD	033AH D5 A,0DH 033AH A,1BH 033AH DE,6 HL,DE BC D2 (IY+11H) A,(IY+11H) 0FH NZ,D1 400BH BC BC,(ADD)

. 125 126 127 128 L5 129 L6 130 131 132 133 134 135 137 138 139 L7 141 142 1443 1445 A1 147 148 149 151 152 153 154 156 157 161 162 162	LD DE,4 LD HL,(78F9H) ADD HL,DE LD (BUF1),HL LD (BUF2),HL LD HL,(78A4H) CALL EXIT LD A,(HL) INC HL LD (7921H),A LD A,(HL) INC HL LD (7922H),A PUSH BC PUSH HL CALL BTA LD (BUF1),HL LD (78A7H),HL POP HL CALL 2B7EH LD HL,(78A7H) LD A,(HL) OR A JR Z,A3 CP 40H JR C,A2 CP 5BH JR NC,A2 ADD A,20H LD (HL),A INC HL JR A1 LD (HL),ODH INC HL LD (BUF1),HL	187 188 189 L13 190 191 L14 192 193 L15 194 195 B1 196 197 198 199 200 201 B2 202 203 204 205 B3 206 207 B4 208 209 210 211 212 L16 213 214 215 C0 216 217 218 219 220 221 222 223 224 C1	JR Z,B1 LD B,5 CALL C0 LD B,5 CALL C0 LD B,12H CALL C0 JR B4 LD CP JR Z,B4 CP JR NC,B3 ADD A,20H JR A,0DH LD DE INC HL JR B1 RES 6,A JR A,0DH LD (DE),A INC DE INC HL JR B0 LD (BUF1),DE INC HL JR B0 LD (BUF1) JR B0 LD CP Z,C2 CP JR A,0DH C3 RES 6,A
16 <b>0</b> 161 L9 162 163 164 165	INC HL LD (BUF1),HL LD HL,79E8H LD (78A7H),HL POP HL JR AØ	222 223 224 C1 225 226 C2 227	ADD A,20H JR C3 RES 6,A JR C3 LD A,20H DEC HL
166 BØA 167 168 169 170 171 L10 172 L11	LD HL,(78F9H) LD (HL),0 INC HL LD (HL),0 LD HL,8000H LD (BUF1),HL LD (BUF2),HL LD HL,0A280H	228 C3 229 230 231 232 233 234 235 EXIT	LD (DE),A INC DE INC HL DEC B JR NZ,C0 INC HL RET
174 BØ 175 176 177 178 L12 179 180 181 182 183 184 185	CALL EXIT INC HL LD (7921H),BC PUSH HL CALL BTA EX DE,HL POP HL LD A,(HL) CP 7BH JR Z,B1 CP 7AH JR Z,B1 CP 6AH	236 237 238 239 240 241 242 L17 243 L18 244 245 246 247 248	INC HL LD B,(HL) INC HL LD A,B OR C RET NZ LD DE,(BUF2) LD HL,(BUF1) LD (HL),0DH PUSH HL OR A SBC HL,DE JR Z,EI

#### 44-15 VZ FREQUENCY CONTINUED

```
10 GOTO1000
12 ERA"----": RETURN
14 REN"----",
16 OPEN"-----,0
18 IN#"----", YR, WK, R, L$, P$: RETURN
20 FORI=1TOR
22 IN#"-----",C(I):NEXT
24 CLOSE"----":RETURN
25 SAVE"----":RETURN
34
  ,,職務可能務果(西海勒斯夫)兩種共同學數 極端的 125年基礎 表 255年1528
36
38 :
40 FOR O=0 TO 7:POKE AD+0,ASC(MID$(N$+"
                                            ",0+1,1)}
42 NEXT:RETURN
44
46 FOR O=0 TO 2:POKE AD+O,ASC(MID$(X$,O+1,1)):NEXT:RETURN
48 :
52 IF M>0 THEN RETURN: '32 INVERSE SPACES: ^^
54 PRINT@9, FR$: RETURN
58:
60 PRINTa275, "N":PRINTa258, "ARE YOU SURE "::RETURN
62 :
64 PRINT@487,M$;:RETURN
66
68 PRINT@226, "SELECTED DRIVE >";D:RETURN
78 :
80 ND=0:FOR I=1 TO R:IF C(I)>0 THEN ND=1:I=R:" 测量回觸 医管理管理管理管理
82 NEXT: IF ND=1 THEN RETURN
88
90 IF R=44 THEN PL$="LOTTO" ELSE PL$="POOLS"
91 PRINTa481, PL$; : PRINT" YR
92 PRINT@490, USING "##"; YR;
93 PRINT@496, USING "##"; WK;
94 PRINT@499,USING"% %";L$;
95 PRINTa503,P$;:RETURN
98 :
100 AD=31535:GOSUB 40: 'POKE LINE 16 FILENAME
106 AD=31555:GOSUB 40: POKE LINE 18 FILENAME
108 AD=31600:GOSUB 40: POKE LINE 22 FILENAME
110 AD=31627:GOSUB 40: 'POKE LINE
                               24 FILENAME
112 AD=31551:GOSUB 46:'POKE LINE 18 IN#/PR#
114 AD=31596:GOSUB 46: POKE LINE 22 IN#/PR#
116 POKE 31545,X
                   :'POKE LINE 16 0 OR 1
118:
120 IF U=2 THEN AD=31483:GOSUB 40:GOSUB 12: 'POKE LINE 12 F'NAME
122 GOSUB 16:GOSUB 90:GOSUB 20
124 IF U=0 THEN 500 ELSE 400
148
152 PRINT@247,YR:PRINT@226,"ENTER YEAR (94-99) ";
154 INPUT YR:IF YR=0 THEN 300
156 IF YR<94 OR YR>99 THEN 152
158
160 PRINT@279,WK:PRINT@258,"ENTER WEEK (00-52) ";:INPUT WK
162 IF WK=0 THEN 300
164 IF WK>52 THEN 160
168:
170 PRINT@312,L$:PRINT@290,"ENTER (MON MID SAT) ";:INPUT L$
172 IF L$="" THEN 300
174 L$=LEFT$(L$,3):GOTO 300
```

373 PUSH BC 374 RET	386 * WRITTEN BY D.MITCHELL* 387 DEFB 0DH
375 ADD DEFW 0	388 NOP
376 BUF1 DEFW Ø	389 MES1 DEFB 0DH
377 BUF2 DEFW 0	390 * ENTER B/S *
378 MESØ DEFB 1FH	391 NOP
379 * THIS PROGRAM WILL MAKE WO	392 MES2 DEFB ØDH
380 *RD*	393 * ENTER WP. *
381 DEFB ØDH	394 NOP
382 * PROCESSOR FILES FROM*	395 MES3 EQU \$
383 * BASIC AND EDITOR ASSEMBL*	396 *FILENAME :*
384 *ER SOURCE CODES*	397 NOP
385 DEFB ØDH	398 END NOP

#### VZ NUMBERS FREQUENCY

THIS PROGRAM IS DESIGNED TO KEEP TRACK OF WINNING NUMBERS IN POOLS AND GO LOTTO. THERE IS A CHOICE OF PRIME NUMBERS ONLY OR CAN INCLUDE SUPPLEMENTARY NUMBERS AS WELL. WITH SOME MINOR MODIFICATIONS THIS PROGRAM COULD BE ALTERED TO KEEP TRACK OF OTHER NUMBER FREQUENCIES.

THE LEFT PRINTOUT BELOW SHOWS GO LOTTO FREQUENCY NUMBERS FOR THE YEAR OF 1994 UP TO THURSDAY, WEEK 7 WHILE THE ONE ON THE RIGHT IS FOR THE SAME TIME PERIOD, BUT INCLUDES SUPPLEMENTARY NUMBERS AS WELL.

THERE ARE TWO INPUT CHOICES:

- 1) INSERT This allows you to insert numbers as they are drawn and/or add to existing numbers.
- 2) EDIT IF YOU HAVE BEEN KEEPING TABS OF NUMBERS USING PENCIL AND PAPER THEN THIS OPTION WILL ALLOW YOU TO ENTER NUMBERS IN THE RANGE FROM Ø TO 9999 MAXIMUM.

ALSO TO THE BEST OF MY KNOWLEDGE THIS IS THE FIRST TIME THAT A 4 BYTE MULTI USR CALL ROUTINE HAS BEEN USED IN A PUBLISHED PROGRAM WHICH WAS DESCRIBED IN ISSUE # 31, PAGE 14. IT SIMPLIFIES THE CALLING OF M/C ROUTINES WHICH ARE:

- 1) VZ SOUND BEEPER.
- 2) M/C CLS (CLEAR PART SCREEN 14 LINES.)
- 3) M/C DIRECTORY ROUTINE WHICH WILL BE PUBLISHED IN NEXT ISSUE.

20111111111111111111111111111111111111	45067000044444 30000000444444 41-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	+040000+0400
PRESS LOTTO YR 94	(:) FOR MEMU WK 7 MIO PRIME	i

1-1-1-40-00 1-000-00-00-00-00-00-00-00-00-00-00-00-0	200+24000+5005 1111111111111111111111111111111	90009174-0001- 	######################################	
	RESS (:) R 94 WK	FOR MEN	HU PRIME+	

#### 44-17 VZ FREQUENCY CONTINUED

```
356 IF C$="E"THEN 900
358 IF C$="D"THEN 500
360 :
362 IF C$="P"THEN 550
364 IF C$="C"THEN RUN
366 IF C$="Y"THEN 150
368
370 IF C$="Q"THEN 680
372 IF C$=";"THEN 960
374 IF C$=":"THEN 400
378
396 GOTO 350
398 :
402:
404 PRINT@073, "L) LOAD
                            DATA"
406 PRINT@105, "S) SAVE DATA"
408 PRINT@137, "U) UPDATE DATA"
                           DATA"
410:
412 PRINT@201, "E) ERASE FILE"
414 PRINT@233, "R) RENAME FILE"
416 PRINT@265, "I) INIT DISK"
418 :
420 PRINT@329, "D) DIRECTORY"
422 PRINT@361, "1) DRIVE 1/2"
424 PRINT@393, ":) MAIN MENU
428:
430 DRIVE D:PRINT@361,USING"#";DR
444 GOSUB 90:SOUND 25.1
446 POKE 30777,35
448 :
450 D$=INKEY$:D$=INKEY$:IF D$=""THEN 450 ELSE X=USR(13392)
452 :
454 IF D$="L"THEN U=0:GOTO 650
456 IF D$="S"THEN U=1:GOTO 650
458 IF D$="U"THEN U=2:GOTO 650
459
460 IF D$="E"THEN 600
462 IF D$="R"THEN 620
463
464 IF D$="D"THEN 850
466 IF D$="I"THEN 780
470 IF D$="1"THEN D=1:DR$="雠":GOTO 430
472 IF D$="2"THEN D=2:DR$="12":GOTO 430
474:
476 IF D$=":"THEN 300
494:
496 GOTO 450
498
502 M=0:GOSUB 50:GOSUB 90
508
510 Es="##":Fs="#### ":PRINT@64,"";
518:
520 IF R=38 THEN X1=10:Y1=30:ST=10
522 IF R=44 THEN X1=11:Y1=33:ST=11
524 FOR X=1 TO X1:FOR Y=0 TO Y1 STEP ST
526 IF R=38 THEN IF X+Y>38 THEN PRINT:GOTO 534
528
530 PRINT USING E$; X+Y; :PRINT"-";
532 PRINT USING F$;C(X+Y);
```

```
198 :
202:
204 IF R=44 THEN PRINT@243, "L" ELSE PRINT@243, "P"
206 PRINT@226, "LOTTO OR POOLS ":: INPUT Y$
208:
210 IF YS="L"THEN R=44:P=8:PRINT@481,"L國國繼載到";:GOTO 216
212 IF Y$="P"THEN R=38:P=7:PRINT@481,"圖順豐";:ELSE 204
214 :
216 PRINT@275, "N":PRINT@258, "PRIME #'S ONLY ";:INPUT P$
218
220 IF P$="Y"THEN P$="PRIME ":P=6:GOTO 230
222 IF P$="N"THEN P$="PRIME+":GOTO 230 ELSE 216
224
230 X=USR(31348): 'CLEAR PART SCREEN
232 L=98:FOR A=1 TO P
234:
236 IF A<7 THEN PRINTOL, "ENTER WINNING #";A;"-> ";
238 IF A=7 THEN L=322
240 IF A>6 THEN PRINTAL, "SUPPLEMENTARY NUMBER ";
242
244 INPUT N(A)
246 IF N(A)=0 THEN A=P:GOTO 300
248 IF A<7 THEN IF N(A)>R THEN 236
250 IF A>6 THEN IF N(A)>R THEN 240
252 T=0:IF A<>1 THEN FOR I=1 TO A-1:T=T-(N(I)=N(A)):NEXT I
254 IF (T) THEN 236
256 L=L+32:NEXT
258:
260 PRINT@441,"Y":PRINT@418,"ARE NUMBERS CORRECT
262
264 INPUT Y$:IF Y$="Y"THEN 270
266 IF Y$="N"THEN 232 ELSE 260
268
270 FOR I=1 TO P: " IN TO SEE THE PROPERTY OF THE PROPERTY OF
272 C(N(I)) = C(N(I)) + 1 : NEXT
274:
276 PRINT@441,"Y":PRINT@418,"ENTER MORE NUMBERS  ";:INPUT Y$
278 :
280 IF Y$="Y"THEN 230
282 IF Y$="N"THEN 500 ELSE 276
298 :
302 :
304 PRINT@073,"I) INSERT 306 PRINT@105,"E) EDIT
                                                                DATA"
                                                                DATA"
308 PRINT@137, "D) DISPLAY DATA"
310
312 PRINT@201, "P) PRINT
314 PRINT@233, "C) CLEAR
316 PRINT@265, "Y) ENTER
                                                                DATA"
                                                                DATA"
                                                              YR/WK"
318
320 PRINT@329,"Q) QUIT & PARK"
324 PRINT@361,";) SUB MENU"
326 PRINT@393,":) DISK MENU
342
344 GOSUB 90:SOUND 25.1
346 POKE 30777,35
348 :
350 C$=INKEY$:C$=INKEY$:IF C$=""THEN 350 ELSE X=USR(13392)
352:
354 IF C$="I"THEN 200
```

## 44-19 VZ-EPSON PRINTER PATCH V1.4 BY LARRY TAYLOR - PUBLIC DOMAIN

These same characters can also be dumped to the printer from the LO-RES screen, when the COPY command is used. In MODE(1), use of the COPY command will dump the HI-RES screen to the printer. In addition, an extension of the COPY command has been provided. The new command is COPYA. If COPYA is used in MODE(0), a dump of the LO-RES screen will be made without the usual linefeeds, whilst in MODE(1), a larger than normal dump of the HI-RES screen will be printed. To cater to differences in line feeds between printers, both commands may be used in the form COPYA and COPYAN, where n is a value ranging from 4 to 8. Changing n allows selection of a line feed setting apppropriate to the printer being used. Should COPY or COPYA not be followed by a line feed value, then a default setting of 6 will be used.

Three additional commands, LTAB(n), PAGE(n) and FEED(n) have also been added. The LTAB(n) command is used to set a left margin for any output to the printer, whether from an LPRINT statement, during LLISTing of a BASIC program or when doing a screen dump. The value n may be in the range O to 63, indicating the number of spaces in from the left that printing will occur. A printout of the disk directory at the current LTAB(n) position can be obtained by first setting the output device code to printer, followed by the DIR command. eg. POKE30876,1:DIR

PAGE(n) sets the page length and n may be in the range O to 127. FEED(n) sets the number of linefeeds between the end of printed text and the end of the page. It can be in the range from O to 127, but unless it is less than the page length, it will be ignored. Setting a valid linefeed value, causes a form feed to occur automatically. If n is set to O then the automatic form feed is switched off. LTAB(n), PAGE(n), FEED(n), LLIST, LPRINT and both the COPY commands may be entered either directly from the keyboard, or used from within a program, but will only function correctly whilst the PRINTER PATCH is present.

The utility locates and protects itself according to available memory, allowing BASIC programs to be loaded and worked on normally. When LLISTing a BASIC program, the routine is also able to recognize all of the hidden commands, which may have been entered using an EXTENDED BASIC. Although not dependent on it, the routine can be used with Steve Olney's EXTENDED BASIC already resident in memory and will not interfere with it in any way. To use it in this way, first load the extended BASIC and then the PRINTER PATCH. Once the READY message appears you will have access to both the EXTENDED BASIC and the improved printer commands.

```
534 NEXT Y:NEXT X
  536 E$="":F$=""
  542:
  544 PRINT@455,M$
  546 IF INKEY$=":"THEN 300 ELSE 546
  548:
  552 M=1:GOSUB 50:PRINTall,"過煙機關電腦電腦:(GOSUB 90
  554:
  556 GOSUB 60: INPUT Y$
  558 IF Y$="N"THEN 300
  560 IF Y$="Y"THEN 564 ELSE 556
  562
  564 E$="##":F$="**## "
 566 LPRINT TAB(10) "VZ ";PL$; " YR ";USING E$:Y:
  568 LPRINT" WK "; USING E$; W; : LPRINT" "; USING "% %"; L$;
  570 LPRINT USING"%
                                                        %";P$:LPRINT
 572 :
 574 IF R=38 THEN X1=10:Y1=30:ST=10
  576 IF R=44 THEN X1=11:Y1=33:ST=11
 578 FOR X=1 TO X1:FOR Y=0 TO Y1 STEP ST
  580 IF R=38 THEN IF X+Y>38 THEN 590
 584
 586 LPRINTTAB(10)USING E$;X+Y;:LPRINT"-";
 588 LPRINT USING F$;C(X+Y);
 590 NEXT Y:LPRINT
 594 NEXT X:LPRINT
 596 E$="":F$="":GOTO 300
 598
 600 M=1:GOSUB 50:PRINT@10,"回题回题题里图";:GOSUB 68:PRINT@258,EF$;
 602:
 604 SOUND 30,1:INPUT N$
 606 IF N$=""THEN 400
 608 IF LEN(N$)>8 THEN 600
 610 AD=31483:GOSUB 40:GOSUB 12
 612 GOTO 400
 618 :
 622:
624 PRINT@258, "OLD FILENAME > ";:SOUND 30,1:INPUT N$
626 IF N$=""THEN 400
628 IF LEN(N$)>8 THEN 620
630 AD=31503:GOSUB 40
632 :
634 PRINT@290, "NEW FILENAME > ";:SOUND 30,1:INPUT N$
636 IF N$=""THEN 400
638 IF LEN(N$)>8 THEN 634
640 AD=31514:GOSUB 40
642 GOSUB 14:GOTO 400
648:
650 IF U>O THEN GOSUB 80: IF ND=O THEN 424: " THE COSUB SO: IF ND=O THE COSUB SO
652 M=1:GOSUB 50
654 IF U=O THEN PRINTO11,"回面则";
656 IF U=1 THEN PRINTO11,"回面测量";
658 IF U=2 THEN PRINTO10,"回回面测量";
660 PRINT"臘町淵町":GOSUB 90:GOSUB 68
662
664 PRINT@275, NS: PRINT@258, EFS:
666 INPUT NS:IF NS=""THEN 400
668 IF LEN(N$)>8 THEN664
```

DAVE MITCHELL

E & F WP PATCH 3.3 MENU & FILE COPIER EXTENDED DOS V1.3 MONITOR 60000H DISK FILER & CATALOGUER

E & F WP PATCH 3.4 MENU & FILE COPIER 6000H EXTENDED DOS 6000H DISK FILE COPIER 6000H

#### MARK HARWOOD

MARK 32 DATABASE DISK EDITOR ASSEMBLER MARK 64 DATABASE VZ USER NEWSLETTERS - 22 ISSUES

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VZ EPSON PRINTER PATCH 1.4 COPYPRO 4: FILE COPIER/PROTECTOR COPYPRO 5: TWO DRIVE DISK ONLY DISK COPY 2: SINGLE DRIVE COPIER

ESCAPE RIVER FACTORY NAME THE TOWNS (EDUCATIONAL)

(LO/HI-RES ADVENTURE) (EDUCATIONAL GAME) TOWER OF HANOI (EDUCATIONAL GAME)

FILE SEARCH 2 (DISK/TAPE CONTENTS) MICROSCOPE DISK MENU (MEMORY RESIDENT)

SNERTLE

(EDUCATIONAL) (EDUCATIONAL MATHS)

BRIAN GREEVE: MACHINE CODE DATA 2

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