
LE'VZ 200 OOP

JANUARY 1985. #5

J.C.E.D'ALTON.

\$1.00.

Hullo computing friends (OOP's). I hope 1985 is going OK for you so far. As this year is International Youth Year I would like to see some of our "expertise" in the field of computing to contribute in some way to IYY.

First I must thank John Waters for advertising LE'VZ in his VEE ZEE newsletter, as I now have quite a few more OOPs on my database. Some folk have sent me money for issues prior to #4 which were sent out on a SASE basis. If I have back copies I include them in with the now chargeable issue but, do not charge you for them.

If you have asked for these issues (#1 to #3) and have not received them, just keep reminding me. I have not had much feedback from OOPs, with regards to software tapes, contributions or what YOU would like to see in LE'VZ. As John Waters said, I can only assume that you are happy with the newsletter's content.

Did many of you try the little M/L Programmes in #4??

Enclosed with this issue is your record on a small slip of paper. Please correct any data and add more information ie; amount of RAM, do you have a Printer?, your interests, your VZs BASIC Version etc..

This issue should be OK regards to print quality and copying. I trust you could read the inserted sections in #4, and the crinkles on a few were not too bad. John and Gordon would repeat my words, that putting together a newsletter is no mean task, so please forgive me for any errors or problems, in fact if there are any errors, let me know.

For those who do not obtain the electronics magazine, ELECTRONICS AUSTRALIA, there is an article in the November's issue written by Neville Williams whereby he gives the VZ200 a good wrapup, in that he uses it to write his segment called "FORUM".

If you do have trouble with any software or hardware make sure you indicate which version of BASIC is in your ROM. This is the information at the top of VDU (tv), VIDEO TECHNOLOGY BASIC V2.0, or what ever, when the computer is first switched on.

One difference is the POKE 30744,1 to inverse the VDU is OK for VERSION 2.0 but not V 1.0.

One error I must correct in LE'VZ #4 is regards the Sandcrofters club, I gave Russell Harvey of KARRINGUP as the contact for WAVZ. Contact ANDRE SCHOEN, 31 Edinboro St., Mount Hawthorne, WA, 6016.

The fees are five dollars (\$5) per year or on joining and one dollar (\$1) per meeting, which is held every second week.

I welcome advertisers in this issue. [REDACTED] Mr. W Obrist of ST. KILDA VIC, and Mr. S. Diney of NORTH RICHMOND NSW, I trust you may find their products very useful in the implementation of the great little VZ 200.

Many people have enquired as to the availability of the 64K RAM Pack. Unfortunately our supply line to VIDEO TECHNOLOGY in Hong Kong is still not open, but I will keep you informed when the packs are

available. In outward appearance they are the same as the 16K unit but with the LASER name on top.

The mem map 0000h to FFFFh is in triplicate so if the other two blocks are required they are software switched. The unit has a 5volt regulator and the RAMs are HM4864P. If you are going to Singapore or Hong Kong you should be able to purchase one (or more).

~ ~ Programming ~ ~

BMC BX-80 Printer

Larry Taylor sent this short routine to allow the BX-80 too work from the COPY command.

```
100 REM OPERATE BMC BX-80 PRINTER IN COPY MODE
1000 LPRINTCHR$(15);
1010 LPRINTCHR$(27);"A";CHR$(6);
1020 FOR Y%=0 TO 63
1030 FOR X%=0 TO 127
1040 P=POINT(X%,Y%)
1050 IF P=1 THEN LPRINT " "; : NEXT X% : GOTO 1070
1060 LPRINT "*"; : NEXT Y%
1070 LPRINT : NEXT X%
```

Programming for the VZ Joysticks. Machine Code / Assembly Language.

```
001 ; JOYSTICK PROGRAMMING
002 ; READ 1ST ROW
003 JSK IN A,(2EH)
004 OR 0E0H
005 CPL
006 LD B,A
007 ; READ 2ND ROW
008 IN A,(2DH)
009 BIT 4,A
010 JR NZ,JST1
011 SET 5,B
012 ; READ 3RD ROW
013 JST1 IN A,(2BH)
014 OR 0E0H
015 CPL
016 LD C,A
017 ; READ 4TH ROW
018 IN A,(27H)
019 BIT 4,A
020 RET NZ
021 SET 5,C
022 RET
```

the brilliant
VZ-200

This routine reads the status of both joysticks and returns with the results in the B and C registers. The appropriate bit is set to logic 1 if that joystick is enabled, except that the "fire" switches are transferred to bit 5.

```

1 REM JOYSTICK PROGRAMMING
5 R#="RIGHT JOYSTICK " : L#="LEFT JOYSTICK "
10 A=INP(32)AND31 : IFA=31 THEN 10 : REM WAIT FOR SOME ACTION
20 A=INP(46)AND31 : IFA=31 THEN 100 : REM CHECK FIRST ROW
30 IFA=26 THEN PRINTR#+"LEFT+UP" : GOTO200
32 IFA=25 THEN PRINTR#+"LEFT+DOWN" : GOTO200
34 IFA=22 THEN PRINTR#+"RIGHT+UP" : GOTO200
36 IFA=21 THEN PRINTR#+"RIGHT+DOWN" : GOTO200
40 IFA=30 THEN PRINTR#+"UP" : GOTO200
50 IFA=29 THEN PRINTR#+"DOWN" : GOTO200
60 IFA=27 THEN PRINTR#+"LEFT" : GOTO200
70 IFA=23 THEN PRINTR#+"RIGHT" : GOTO200
80 IFA=15 THEN PRINTR#+"ARM" : GOTO200
100 A=INP(45)AND16 : REM NOW CHECK SECOND ROW
110 IFA=0 THEN PRINTR#+"FIRE" : GOTO200
120 A=INP(43)AND31 : IFA=31 THEN 190 : REM CHECK 3RD ROW
130 IFA=26 THEN PRINTL#+"LEFT+UP" : GOTO200
132 IFA=25 THEN PRINTL#+"LEFT+DOWN" : GOTO200
134 IFA=22 THEN PRINTL#+"RIGHT+UP" : GOTO200
136 IFA=21 THEN PRINTL#+"RIGHT+DOWN" : GOTO200
140 IFA=30 THEN PRINTL#+"UP" : GOTO200
150 IFA=29 THEN PRINTL#+"DOWN" : GOTO200
160 IFA=27 THEN PRINTL#+"LEFT" : GOTO200
170 IFA=23 THEN PRINTL#+"RIGHT" : GOTO200
180 IFA=15 THEN PRINTL#+"ARM" : GOTO200
190 A=INP(39)AND16 : REM CHECK 4TH ROW
195 IFA=0 THEN PRINTL#+"FIRE"
200 FORI=1 TO 300 : NEXTI : GOTO10

```

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 utor on the understanding the mater-
 ial is for private use of readers
 only. Copyright is retained by the
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Disc Drives.

I have seen the LASER units, which are quite nice. An expansion socket is fitted so that a printer etc. can remain in circuit. The unit is SEQUENTIAL operation with it's operating system address at the intended RAM area as in the VZ200 manual.

DSE may have released them by the time you read this. JD.

Variation to INKEYS.

INKEYS is used to allow entry of a key without having to Press the <RET> key. In a menu if a letter is asked for the instructions are thus....

```

5 CLS
10 REM VARIATION TO "INKEY#" CONVERT TO ASCII FOR MENU SELECT
50 PRINT"A = AAA"
55 PRINT"B = BBB"
60 PRINT"C = CCC"
90 PRINT"TYPE IN A - C FOR SELECTION"
100 A#=INKEY#
110 A#=INKEY# : IFA#="" THEN 100
120 AS=ASC(A#)
130 IFA#65 THEN PRINT"YOU SELECTED AAA" : END
135 IFA#66 THEN PRINT"YOU SELECTED BBB" : END
140 IFA#67 THEN PRINT"YOU SELECTED CCC" : END
145 IFA#>67 OR A#<65 THEN PRINT"SELECT AGAIN" : GOTO100

```

line 120 AS=ASC(A\$) changes the string variable to a numeric variable. A check is done to Prevent entry of a numeral or a letter Past "C" in line 145.

Software Library

I have altered the headings to show the owner of the tape. If you do not know where to obtain a tape then write to myself as I am now distributor for some of the writers.

1 tape code, 2 name of Programme, 3 owner of tape, 4 whether (C) copyright or (PD) Public domain, 5 who owns the copyright, 6 Price if any, 7 memory required.

02	Disassembler	J.D'Alton	(C) DSE.	Exchange	24K
01	Learjet	F.Halliwel	(C) DSE.	Exchange	24K
01	VZ Cashbook Ledger	J.D'Alton	(C) J.D'Alton	\$20.00	24K
02	VZ Database	J.D'Alton	(C) J.D'Alton	\$20.00	64K
03	Mailing List	J.D'Alton	(C) DSE.	Exchange	

03	Flight Deck	F.Halliwel	(C) DSE.	Exchange	24K
04	Colour Graphics	P.Mc.Lennan	(C) P.Mc.Lennan	\$10.00	24K

A menu driven BASIC Programme based on analytic geometry and trigonometric equations, with interaction on a number of subroutines and tips on using the others. You get help on the way.

01	Keyboard	L.Taylor.	(C) L.Taylor	\$8.00	6K
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A keyboard familiarization Programme with 6 speed levels.

02	Wordmatching	L.Taylor	(C) L.Taylor	\$10.00	
04K	Practice in Homonyms, Synonyms and Antonyms.				
03	MeatPies	L.Taylor	(C) L.Taylor	\$10.00	
024K					

Educational decision making business simulation.

04	VZ Monopoly	S.Le Brun	PD	Free	
04K					

03	Utilities	I.Webber	(C) I.Webber	\$15.00	
04K					

This is THE software that many of you have been waiting for. Has a menu of 8 options. Create new Programme List mem in ascii
 Poke ascii into mem Enter statements into mem Transfer control
 to Programmes Renumber Find the address of a BASIC line
 Copy a Programme to another location in memory. It is written in BASIC for the advanced Programmer to enable relocating Programmes and if required to merge them. SUPPLIED with the tape are three Pages of instructions.

05	Weaving Drafts	R.Harvey	(C) R.Harvey	\$10.00	
0K					

This great little Programme in basic is for those into designing weaving Patterns. You enter in the harness lifts in sequential order, then the threading from left to right, the number of Pattern repeats and the number of harnesses in each lift. The Pattern is drawn in low res. then after you enter the number of repeats it is drawn in high res.

SOME THOUGHTS.

by Keith Woodmass.

This is a routine to read and display a Programme, character by character.

```

64010 CLS:NL=PEEK(30884)+256*PEEK(30885)
64020 FORI=NLTONL+999:CD=PEEK(I)
64030 PRINTCHR$(CD),CD
64040 FORL=1TO100:NEXTL
64050 IFCD=0THEN64070
64060 NEXTI
64070 NL=I+1:GOTO64020

```

This has some implications:

1 The routine can also modify the Prog. on a byte for byte basis by POKEing chars or tokens.

2 It might be possible to modify DATA statements embedded in a Prog., under Prog. control.

3 It might be possible to write new DATA stats. at the end (say) of the Prog., under Prog. control.

Im not saying this has any Practical value at the time of writing. (Oct '84 ed.)

My objective at this stage is a data base but the details are still vague. I may only Prove that elaborate data structures aren't much value in dealing with small volumes of data-- but thats a long way off. I envisage a number of string variables used as input/output registers, and I want to avoid reading ALL the data into arrays at the one time because that amounts to holding data in two areas of RAM simultaneously, ie. in DATA as well as in the array. end

Well as I haven't spoken to Keith for some time I wonder what Progress he has made. Perhaps some one else may like to add to his thoughts.

* * * PROGRAMME BUGS * * *

There appears to be a lot of bugs (or typing errors) in the DSE books, as I receive many 'Phone calls from irrate VZ owners. I usually do not hear from the Person again to let me know the "fixes". PLEASE if you find any bugs at all in any software let me know. Time does not allow me to investigate such things, so I am relying on users and OOPs.

* * * SOFTWARE PREVIEW * * *

SUPERSNAKE.

This is the DSE one, simple High Res graphics, but very challenging. in fact I wonder if anyone has ever completed the highest level. The snake comes from the left at such a speed that one's reaction is too slow to turn it.

LADDER CHALLENGE.

'Another DSE one, similar to Donkey Kong but without the gorilla at the top. Best Played with the joysticks. After getting through the first four levels, the speed of the barrels is increased to make things rather hectic.

WORDPROCESSOR.

PTO

5

I use this to Print this newsletter, and I grade it as excellent. The only bugs that I have found is the one mentioned by Neville Williams of EA. To operate on blocks of text two markers are inserted as required. If a third one is inserted all text after (below) it is deleted.

The other bug is that after LOADING or VERIFYING a warning message is given "checksum error". To my knowledge no one has ever seen a different message. I suggest that the writers got the IF THEN ELSE around the wrong way.

VZ200 INSTANT LETTER TYPE PROGRAMME.

This originated from Gordon Browell and was modified and submitted by Henry Maassen.

Two lines on the VDU are typed in and printed at a time. You change the letterhead to suit your requirements. There is no Tape Save Facility.

VZ-200 + 80 Col. PRINTER

INSTANT LETTER TYPE PROGRAM

```
2 PRINT " SET CORRECT DATE -RUN 10" : PRINT LIST430
```

```
10 CLS : GOTO 600
```

```
20 CLS : GOSUB 560
```

```
30 PRINT@224, " *****"
```

```
40 PRINT@320, " *****"
```

```
60 PRINT@224, "" : INPUT Z$
```

```
70 FOR I=1 TO LEN(Z$)
```

```
80 A=ASC(RIGHT$(LEFT$(Z$, I), 1))
```

```
90 IFA)=64 AND A <= 95 THEN A=A+32
```

```
91 IFA)=192 AND A <= 223 THEN A=A-128
```

```
92 IFA)=224 AND A <= 255 THEN A=A-192
```

LOWER CASE ROUTINE

```
100 NEXT
```

```
110 PRINT@98, Z$ : PRINT
```

```
120 GOSUB 500
```

```
130 GOTO 20
```

```
260 PRINT@197, "LETTER HEAD G. BROWELL"
```

```
270 FOR I=1 TO 1000 : NEXT
```

```
280 FOR I=1 TO 21 : PRINT@197, CHR$(127) : NEXT
```

```
290 FOR I=1 TO 1000 : NEXT
```

```
390 CLEAR 1000
```

```
400 Z$="GORDON BROWELL
```

HENRY MAASSEN"

```
405 GOSUB 500
```

```
410 Z$="7 ABBOTT RESCENT
```

60 BLUE HILL DRIVE"

```
415 GOSUB 500
```

```
420 Z$="WALAK
```

WARRINGTON WLD. 4203"

```
425 GOSUB 500
```

```
430 Z$="MAGNIFICENT 5793
```

18. OCTOBER 1984"

```
435 GOSUB 500
```

CHANGE
TO SUIT
YOUR
LETTER HEAD

```
436 LPRINT CHR$(10)
```

```
440 Z$="NEAR GORDON "
```

```
445 GOSUB 500
```

```
446 LPRINT CHR$(10)
```

```
450 CLS : GOTO 30
```

```
500 FOR I=1 TO LEN(Z$)
```

```
510 A=ASC(RIGHT$(LEFT$(Z$, I), 1))
```

```
520 IFA)=64 AND A <= 95 THEN A=A+32
```

```
521 IFA)=192 AND A <= 223 THEN A=A-128
```

```
522 IFA)=224 AND A <= 255 THEN A=A-192
```

LOWER CASE ROUTINE

```
530 LPRINT TAB(10); CHR$(A);
```

```
540 NEXT : LPRINT : RETURN
```

```
550 FOR I=1 TO 1000 : NEXT : RETURN
```

```
560 PRINT@98, Z$ : PRINT : RETURN
```

600 PRINT@97,"~~1002100233~~ - ENTER 1" ← TO TYPE LETTER HEAD
610 PRINT@129,"~~1002100233~~ - ENTER 2" ← BY PASS LETTERHEAD
620 PRINT:INPUTN
630 IFN=1THEN260
640 IFN=2THEN660
650 IFN<1OR>2THEN620
660 CLS:CLEAR 1000:GOTO30

LETTERHEAD SAMPLE

Gordon Browell
7 Abbott Crescent
Malak
DARWIN N.T. 5793

Henry Maassen
60 Blue Gum Drive
MARSDEN Qld. 4203
18. October 1984

Dear Gordon

CONTINUE TO TYPE LETTER.....

* * * HINTS and KINKS * * *

SOUND. I notice some Programmers are still entering (SOUND) for each statement ei,

SOUND20.5:SOUND25.7

The shortcut way is

SOUND20.5:25.7

PRINTER. To return the GP100 to NORMAL mode after being in DOUBLE WIDTH mode a Print of a GRAPHIC character will also do the job ei,

LPRINT"█"

If you have any such hints Please forward them in to me.

* * * TRIP TO ROCKHAMPTON * * *

At the end of March Marie and I will be travelling up to Rockhampton, calling in to various Dick Smith Electronics stores as well as the resellers. For those in the region you may like to contact the closest to you and enquire about my whereabouts. I will be demonstrating the software that I distribute as well as others.

These will be for sale as will be various hardware items. If you can arrange another meeting place for nighttimes I would appreciate it if you would let me know fairly soon.

* * * D'ALTON SOFTWARE SECURITY * * *

This service is available to BASIC Programmers who wish to protect their Copyright Software. I must have proof of ownership of the Software as many of you know that I believe in Copyright. Please contact me for details as the charges depends on quantities.

* * * NEXT ISSUE * * *

A listing of BATTLESHIPS, a game by Gordon Browell.

An article about the construction and operation of the ETI RTTY unit.

An article on a voice synthesiser.

Cheerio for now, happy computing.

GOD BLESS.

John D'Alton.

John