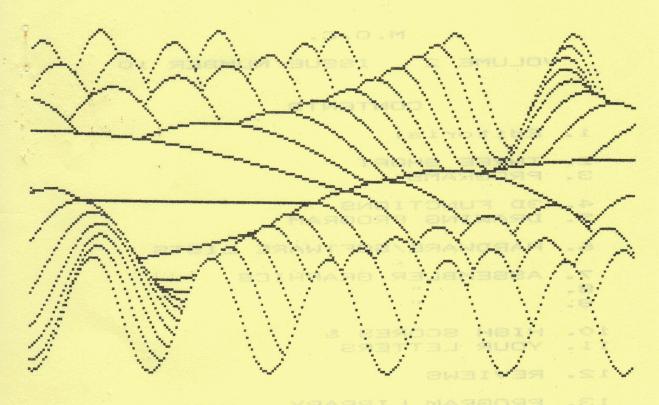
MEMOTECH OWNERS CLUB MAGAZINE



FEATURES: -

- 4 ASSEMBLER PROGRAMS
- 2 BASIC PROGRAMS

HARDWARE PRICES

3 PROGRAMS REVIEWED

PUBLISHED BY MEMOTECH OWNERS CLUB
23 DENMEAD ROAD
HAREFIELD SOUTHAMPTON

CIRCA ... 250

M. O.C.

VOLUME 2 ISSUE NUMBER 10

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If anyone has any good graphics designs for a front cover then we would love to see them!!!

EDITORIAL (August 1986)

Phil Eyres 23 Denmead Road Harefield Southampton SO2 588

This month we have been in contact with Memotech Computers Limited and in particular Mrs M Boyd, they have been very helpful and we have tried to return the compliment. Hardware supplies are available again so please refer to the hardware page for full details, we also have printer ribbons for sale for only £7.00. Mrs Boyd also asked if we would convey this message to all our members:-

Thank you, to all club members from all of us at the New Company especially from our Managing Director, Mr Geoff Boyd, a name that will no doubt be familiar to most. We appreciate the fact that you have all stuck with us and we assure you that we can all look forward to a really bright and exciting future with "Memotech Computers Limited".

It was also suggested that we change the magazine name to reflect the new company. We thought that perhaps the best idea would be to put it to the members in the form of a competition for the month, so I look forward to receiving all your ideas and suggestions.

I have been contemplating buying some sort of 'mouse' or graphics tablet/Digitiser for the club, obviously the software will have to be hand written but if anyone can offer any advice as to some good hardware to buy I would be most grateful.

Thanks to everyone who has used our Hotline on Monday evenings between 6 & 7pm, the number to phone now is (0703) 466106, ask for Phil. If we keep Mondays as Hotline night then I can be sure of being in. However, feel free to phone any evening after 6pm, if I'm not in the my Mum (good old Mum!!) will take any calls.

If anyone would like back issues they are available for the small remittance of 80p each. At present there are 19 back issues, 10 for volume 1 and 9 for volume 2.

It should be noted that all articles are the copyright of the sender and M.O.C., anyone wishing to have articles published elsewhere should inform us first.

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INTERFACING PROJECTS

Why not make your mid-summers(?) resolution one which will lead you into the exciting world of micro electronics. Infact, what better way to start than with an MOC D.I.Y. kit. Everything you need is supplied, except a soldering iron, wire cutters and of course a few hours of your time!!. So why not order now.

Interface price list

A full set of components and instructions for the LED kit -->£6.95 A full set of components and instructions for the Speech Synthesiser kit -->£18.00

Connecting cable for the internal port (needed for projects) -->£4.50

All prices are fully inclusive. Please allow 14 days for delivery and make checks payable to MOC.

THREE SHORT PROGRAMS

Ву Nick Hill

Here are three programs which you might like to try, the first, Flower Power Pattern, is fairly obvious, but gives a pleasent

The second is a pseudo 3D plot of a function as given in line 10. There are also some other suggestions for other functions but be warned that the program can be rather slow at the higher resolutions!!. It has been adapted from a Spectrum program in Popular Computing about three years ago.

The third, however, is completely original and is, I think, the most interesting of the three. It is a way of encoding text - or any other material — so that the result is completely undecipherable, and yet can be decoded very easily with the correct key. It relies on the unusual properties of the XOR function. If one number is XOR'ed with another, it is radically altered yet when XOR'ed with it a second time, it is restored to its original value. In the program (Listing 3) I have taken a message 16 bytes long, starting at £4040, and XOR'ed it with successive bytes from the ROM, starting at 0000. The result is stored at £4050. The second part of the program, starting at £401E, then decodes the coded text and puts the result at £4060. I have included the hex dumps of the results, and there is no obvious relationship between the coded and uncoded text.

Flower Power Pattern

- 30 FOR A=B TO B+2*PI STEP PI/6 Code No. a copy at M car sits of for at 1 to mage

- 40 PLOT 127,96

 50 ANGLE And the second red of the large and control of the second of 70 FOR N=1 TO 20: DRAW 11: PHI PI/10: NEXT N ...
- 80 NEXT A: NEXT B TO ME TO SO THE RESERVE OF THE RE

Listing 1.

Function Plotting Program

- 1 PRINT "RESOLUTION?": INPUT S: VS 4: CLS : GOTO 100
- 10 LET R=A+G+121: LET T=LN(ABS(COS(B*C/800))): LET T=INT(80+A-T*8)
- 20 IF F=-50 THEN LET P(R,2)=T
- 30 IF T(=F(R,1) THEN GOTO 75
- 40 LET P(R, 1)=T
- 50 IF TKO THEN LET T=0 031 and and considerate as but extremognos to see I'ut A
- 60 IF T>191 THEN LET T=191 to the control of the ethenograph to the tipt A
- 70 PLOT R,T: RETURN
- 75 IF T>=P(R, 2) THEN RETURN TO THE STORY SHOWS BELL OF STORY OF STORY OF STORY
- 80 LET P(R,2)=T: G0T0 50
- 100 DIM P(250,2)
- 110 FOR F=1 TO 140: LET P(F,2)=255: NEXT F Continued Overleaf

```
120 FOR F=140 TO 250: LET P(F,2)=F: NEXT F
130 FOR F=-50 TO 50 STEP S
140 LET A=F: LET B=50-ABS(F)
150 FOR G=-70 TO 70: LET C=70-ABS(G): GOSUB 10: NEXT
160 FOR A=F+1 TO F+S-1: LET B=50-ABS(A)
170 FOR G=-70 TO 70 STEP S: LET C=70-ABS(G): GOSUB 10: NEXT
180 NEXT : NEXT
190 IF INKEY$="" THEN GOTO 190
SOME MORE PLOTS TO TRY ...
WITH S=1
10 LET R=A+G+121: LET T=COS(B*C/100): LET T=INT(80+A-T*15)
WITH S=2
LET R=A+G+121:LET T=(B*C/450)^2: LET T=INT(80+A+T) ns inflancialz) it saived share
WITH S=1
LET R=A+G+121: LET T=LN(ABS(COS(B*C/800))): LET T=INT(80+A-T*8)
WITH S=2
LET R=A+G+121: LET T=SGN(COS(B*C/200)): LET T=INT(80+A-T*8)
```

Listing 2.

Data Encoding Using XOR

```
10 CODE
                                                                                                                       HEX DUMPS
4040: 41 42 43 44 45 46 48 49
4048: 4A 4B 4C 4D 4E 4F 50 51
   4007
                                                           LD DE, MESS
   400A
                                                            LD HL, O
                                                            LD IX,M1
                                                                                                                                  4050: B2 ED 62 44 05 85 DC 48
4058: 14 68 1A 6E 87 BC AF AE
4060: 41 42 43 44 45 46 48 49
   400D
   4011
                                                           LD B, 16 1991 = 1
                                                          LD A, (DE) 4060: 41 42 43 44 45 46 48 49

XOR (HL) 4068: 4A 4B 4C 4D 4E 4F 50 51

LD (IX+0), A
  4013 AA:
   4014
  4015
                                                           INC HL
  4018
402A BB: LD A, (DE)
402B XOR (HL)
402C LD (IX+0), A
                                                    XOR (HL)
LD (IX+O),A
INC HL
INC DE
 402F
 4030
 4031
                                                         INC IX ALUM DE BEU
 4033
                                                       DJNZ BB
                                                       4035
 4036
 4040 MESS:
                                                           DB "ABCDEFHIJKLMNOFQ"
4050 M1: DS 16 $1500 0 1600 4060 M2: DS 16 $1500 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 1600 0 
 4070 (48) entropy to RET (48) 1 ASSES JUAN 8-08
```

Listing 3.

3D FUNCTIONS DRAWING PROGRAM

CBY THE RESIDENCE OF COMMENTS AND THE OFFI PETER ERIKSSON

This	program	draws 3	dimensional	graphs	of	mathematical
funct	ions of	the form	1			

z = f(x, y)

You can tilt the graph up or down and turn it left or right to view it from another angle.

The assembler routine will calculate the formulae held in a string and store the result in a numerical variable.

To use it, first use USER 0 to store the string in memory. For example :-

USER O, address, "formulae"

USER 0,40960, "10+45/6*sin(16+5*ALPHA)

Then use USER 1 to calculate and store the result:-

USER 1,address,variable

USER 1,40960, RESULT

(The reason for using two seperate commands is that this approach will speed up the program when calculating the same formulae many times).

The front cover was produced using this program with the following function and data :-

FunctionSIN(XXY)

X-start 4 Model Tau Fighted-A=9 Tau

Y-end 4

Resolution .. 20

Y-start -4

Y-end 4

Y-offset5

Z-start -4

Z-end 4

Z-offset5

The axis are Z = vertical

Y = horizontal [C]

x = Depth | | | | | |

The Listing - -

15 CODE

4007 SETUP: L	D HL, USERTAB		402C		
400A L	D DE, £FA87		4020	INC HL FRANKE COLL 3	
			402E	INC DE CONSIDER CL	
		Redirect USER command	402F	or accused	
		to USERCOM	4031	USERCL1:LD (HL), £D4 ; £D4 = Tokenised form of '=	104
4013 USERTAB:D	B £C9,7 :	Select no syntax checking	4033	INC HL (SG) . A G.J 188 A	
		for USER command			
4018 USERCOM:R		Read number / variable (CMDNO)		CD UjD	
	D A,C			LD E,C	
	USH AF		4037	USERCL2:LD A, (DE)	
		Read number / variable (ADDR)	4038	LD (HL),A X 1 3M1	
	OP AF		4039	CP 255	
	RA		403B	JR Z,USERCL3	
	R Z,USERSTO		403D	INC HL G S SG	
4020 L			403E	INC DE GOODAN HO SEEDIN O	
4023 USERCLO:L			403F	JR USERCL2	
	P "A"		4041	USERCL3:LD DE, BUFFER1 at ad ssm 0	
	R C,USERCL1		4044	CALL £29DA ; Call to let routine (BASI	(3)
	P "["		4047	POP DE	
	R NC,USERCL1		4048	RET	
	,	Continued	Overl	eaf	

Continued Overleaf

```
4049 USERSTO: PUSH BC
404A
          RST 28
4048
          DB £BB
                    ; Find first byte after string
404C
          PUSH DF
404D
          RST 28
                  ; Move string to
404F
          DB £B9
          EX DE, HL ; tempoerary buffer
404F
          LD (£FAB1),HL
4050
4053
          LD DE, BUFFER1
4056
          LDIR
4058
          EX D
4059
          LD (E,HL
          LD HL, BUFFERO
405B
          CALL £398C ; Call to BASIC interval
405E
4061
          POP DE ; tokeniser routine
4062
4063
          EX DE, HL
4064
          PUSH HL MAY THE
4065
          LD HL, BUFFER1
4068 USERSLO:LD A, (HL)
    LD (DE),A
4069
          CP 255
406C
          JR Z,USERSL1
406E
          INC HL
406F
          INC DE
          JR USERSLO
4070
4072 USERSL1:POP DE
4073 RET
4074 BUFFERO:DB £90 ; £90 = Tokenised form of print
4075 BUFFER1:DS 254 ; Common buffer
4173 RET
16 LET SCRXMAX=255
20 LET SCRYMAX=191
30 LET CALCADR=40960
40 DIM ZMAX(SCRXMAX+1)
40 DIM ZMAX(SCRXMAX+1)
100 VS 5: CLS
110 PRINT "-----
120 PRINT "*** MTX GRAPH-3D, VERSION 2.00 * ***
140 PRINT
150 PRINT "(C) PETER ERIKSSON 1986"
160 PRINT
170 PRINT
180 INPUT "PLEASE ENTER THE FUNCTION: "; FN$
190 USER O, CALCADR, FN$
200 PRINT
210 INPUT "START OF X-AXIS:"; XL
220 INPUT "END :";XH
230 INPUT "RESOLUTION
240 PRINT
250 INPUT "START OF Y-AXIS:":YL
260 INPUT "END :";YH
270 INPUT "OFFSET
                    :";YT
```

```
280 PRINT
290 INPUT "START OF Z-AXIS:"; ZL
r string
300 INPUT "END :"; ZH
310 INPUT "OFFSET :"; ZT
320 LET DY=(YH-YL)/SCRXMAX
330 LET DX=(XH-XL)/N
360 LET X=XH
370 FOR I=0 TO N
380 LET YC=YL
390 FOR J=0 TO SCRXMAX
400 LET Y=YC+YT*X
410 USER 1, CALCADR, Z
420 LET Z=Z-ZT*X
430 LET TX=0.5+SZ*(Z-ZL)
440 LET DJ=J
450 IF ZMAX(DJ+1)<TX AND TX<=SCRYMAX THEN PLOT DJ, TX
455 IF ZMAX(DJ+1)<TX THEN LET ZMAX(DJ+1)=TX
460 LET YC=YC+DY
470 NEXT J
480 LET X=X-DX
490 NEXT I
500 CSR 4, 23: PRINT "PRESS <RET> TO CONTINUE"; CHR$(30);
510 IF INKEY$=CHR$(13) THEN PRINT CHR$(31);: GOTO 100
ELSE GOTO 510
```

000000 THE END 000000

5

HARDWARE AND SOFTWARE PRICE LIST

At last we have very good news about the 'new' Memotech, we are able to supply hardware again at very competitive prices as Memotech have kindly continued our dealer discounts scheme. There are two items which have been dropped, the MTX 500 and the DMX80 printer. This streamlining of the products, will hopefully mean new product arrivals in the very near future, in fact, as you can see below there will be available in 8 weeks a 1meg 3 1/2" drive and interface for only £129.00, also 1meg, 2meg and 4meg silicon discs for the SDX range. If you would like to order now to ensure that you are the first to receive one of these new units then please get in touch. Remember our phone number is 0703 466106.

We have found a supplier of DMX80 ribbons thanks to John Friis from Bristol. Having tested a ribbon out over the past month, we have found that it has behaved very well and it appears to be lasting as long as the genuine ribbon, it's only slight fault could be that the printing goes slightly lighter when it is used for really heavy printing, it does however return dark when used intermittantly. For anyone who has ever had a DMX ribbon to bits, this ribbon employs a slightly different inking technique, a tube of ink presses against a wheel around which the ribbon is passed over thus inking it ready for its next pass through the print head.

We can offer them for only £7.00 each, so why not order one today and be prepared for the day your ribbon finally 'bites the dust'!!!

The club has decided to start selling software of it's own, written by members or from people outside of the club, the now famous Andy Key has proposed two new games which are already written, the music to one was composed by Ian Heath who is one of our ardent members, he has also semi-finished a Spectrum Emulator that only requires the software and not the hardware RDM. We will try and get more news on this for next month, but in the mean time, if anyone has good commercial quality software, then please get in touch.

The MTX FIG-FORTH requires an MTX512 or expanded 500, the dictionary associated with Forth is held as part of the Ram-Disc which can be saved separately, fairly quickly. The Ram-Disc allows for 24 'edit' screens to be created and in memory simultaneously. A tutorial will be necessary for the beginner, for this the club has obtained a quantity of the publication Fundamental Forth. The prices are listed opposite:-

Fig-Forth Program £6.00
Tech Data Sheets £2.00
Tutorial Book £7.50
(240 pages)

Cheques payable to MOC please, orders from stock normally despatched by return, else please allow 2 working weeks.

All 'SUPER CHEAPIES' will be despatched by return of post.

!!!SUPER CHEAPIES!!!

		(ONLY	FROM STOCK)		
DESC	QTY	PRICE	DESC	QTY	PRICE
		(Each)			(Each)
DUNGEON ADV.	•	67.00	THE 705		44 50
	2	£7.00	THE ZOO	3	£4.50
ADV. QUEST	i	£7.00	COBRA	1	£4.50
EMERALD ISLE	1	£7.00	ALICE	2	£3.50
BLOBBO	5	£4.50	FIRST LETTERS 1	1	£4.50
KILOPEDE	2	£4.50	BASIC BUSINESS	1	£5.00
REVERSI	3	£4.50	HELI-MATHS	2	£4.00
MINEFIELD	3	£4.50	SPELLI-COPTER	1	£4.00
BACKGAMMON	2	£4.50	FIRE HOUSE FREDDIE	2	£4.00
TOADO	3	£3.50	ASTROMILLON	1	£4.50
MEMO	1	£4.50	PONTOON &B'JACK	3	£4.50
SNAPPO	3	£4.50	DRAUGHTS	3	£3.50
PAYROLL	1	£10.00	GOLDMINE	1	£4.50
PURCHASE LEDGER	1	£7.00	KNUCKLES	1	£4.50
PHYSICS 1	3	£5.50	JOHNNY REB	1	£4.50
MATHS 1	2	£5.50	TAPEWORM	1	£4.50

Software prices for the best and most popular software:-

Zarkos	£6.00
Qogo2	£6.00
Karate King	£6.00
S.M.6	£6.00
Dood!ebugs	£6.00
J.J.Flash	£6.00
Cee-5	£6.00
Star Command	£6.00
Downstream Danger	£6.00
Memosketch	£7.95
Mission Alphatron	£6.00

ASSEMBLER GRAPHICS

By Leif Mortenson

		40EA 40EB 40EC	SUB B LD B,A	
4014 LD IY, 4018 LD (IY 401C LD (IY 4020 LD (IY	TABEL ;SET SPRITE POSITION			
401B LD (IY- 401C LD (IY- 4020 LD (IY-	TABEL ;SET SPRITE POSITION	40EC	OFT	
401B LD (IY- 401C LD (IY- 4020 LD (IY-	TABEL ;SET SPRITE POSITION		RET	
401C LD (IY- 4020 LD (IY-		40ED HJDE:	LD A, (IX+4)	;CALCULATE HEIGHT
4020 LD (IY-		40F0	INC A	;FOR CHANGE
		40F1	LD B,(IX+2)	
	+£02),0	40F4	SUB B	
	+£03),2 ;PATTERN	40F5	LD B, A	
	+£04),1 ;AND COLOUR	40F6	RET	
402C LD HL,	POS1	40F7	RET	
402F LD B,6		40F8 UPDATE	: LD B,£7E	;SEND DATA FOR
4031 SLET: LD (HL),0	40FA	CALL VRAM	SPRITE ATTRIBUTE
4033 INC HL		40FD	DI; TABLE	0.A 00k
4034 DJNZ SI	LET	40FE	DEC A	
4036 CALL UI	PDATE ; SET SPRITE ON SCREEN	40FF	OUT (2),A	
4039 LD IX,	PQS1	4101	CALL PAU	
403D CALL S	TED ;SET CSR	4104	LD A, B	
4040 RST 10	;PRINT TEXT	4105	OUT (2),A	
4041 DB £9C	"FIND TOP LEFT "	4107	LD HL, TABEL	
4050 DB "COF	RNER "	410A	LD B,6	
405E RST 10		410C U1:	LD A, (HL)	
405F DB £83,	3, 3, 21	410D	INC HL	
4063 RST 10		410E	OUT (1),A	
4064 DB £98,	"USE ARROW "	4110	DJNZ U1	
	/S + >HOME< "	4112	EI	
407D CALL ST		4113	RET	
4080 CALL ST	FED .	4114 VRAM:	LD A, (£FF58)	
4083 RST 10		4117	AND A	
4084 DB £9C,	"FIND TOP RIGHT"	4118	JR NZ, VRAM	
4093 DB "COR		411A	RET	
40A1 INC (I)	(+3) ; NEW SP. PATTERN	411B STYR:	LD IY, TABEL	; THIS ROUTINE
40A4 CALL UF		411F ST2:	CALL £79	; TAKES CARE OF
40A7 CALL ST		4122	JR Z,ST2	WHICH KEY IS PRESSED
40AA CALL ST	ED	4124	CP 11	3 373 4 31
40AD RST 10		4126	JP Z,OP	
40AE DB £9C.	"FIND BOTTOM RI"	4129	CP 10	
	CORNER .	412B	JP Z, NED	
40CB INC (I)	(+3)	412E	CP 8	
40CE CALL UF		4130	JP Z, VENS	
40D1 CALL ST	YR	4133	CP 25	
40D4 JP FARV		4135	JP Z,HJRE	
40D7 DEST: LD A, ()		4138	CP 26	
40DA ADD A, £		413A	CALL Z,POS	
40DC LD D, A	4.5 35812		CALL UPDATE	
40DD LD A, (1	X+1)	4140	JP STYR	
40E0 LD E, A	1 1 10 10 10 10 10 10 10 10 10 10 10 10	4143 OP:	NOP	
40E1 RET		4144	LD A, (IY+1)	
40E2 BRED: LD A, (1	X+3) ; CALCULATE WIDTH	4147	SUB 8	
40E5 ADD A, 8		4149	LD (IY+1),A	
40E7 LD B, (I		414C	DEC (IX+0)	
KIADA E KESAD	Continue			

```
414F
            JP STYRI
                                                        421A BEGYND: PUSH BC
 4152 NED:
            NOP
                                                        421B
                                                                   CALL DEST
 4153
            LD A, (IY+1)
                                                        421E
                                                                   DEC E
 4156
                                                        421F
                                                                   CALL VRADR
                                                                                  ; SEND ADDRESS TO VDP
 4158
            LD (IY+1),A
                                                        4222
                                                                   LD HL, DATA
            INC (IX+0)
JP STYR1
 415B
                                                        4225
                                                                   INC HL
415E
                                                        4226
                                                                   CALL BRED
            NOP
4161 VENS:
                                                        4229
                                                                   CALL YRDIN
                                                                                  GET COLOUR FROM VRAM
4162
            LD A, (IY+2)
                                                        422C
                                                                   CALL BRED
4165
                                                                   LD A, (FARVE)
                                                       422F
4167
            LD (IY+2),A
                                                                   CP "F"
                                                       4232
            LD (IX+1), A
416A
                                                                   CALL Z, FORG
            JP STYRI
416D
                                                       4237
                                                                   CP "f"
4170 HJRE:
                                                       4239
                                                                   CALL Z, FORG
4171
            LD A, (IY+2)
                                                       423C
                                                                   CP "B"
4174
            ADD A,8
                                                       423E
                                                                   CALL Z, BAGG
4176
            LD (IY+2),A
                                                                   CP "b"
                                                       4241
            LD (IX+1),A 6.612 6.62
4179
                                                                   CALL Z, BAGG
           JP STYR1
NOP ;PLACE THE POS. OF THE
LD A,(IX+0) ;SPRITE IN THE
LD (IX+2),A ;LABEL POS1
417C
                                                                   CALL DEST
                                                       4246
417F POS:
                                                       4249
                                                                   DEC E
4180
                                                       424A
                                                                   CALL VRADR
4183
                                                       4240
                                                                   CALL BRED
4186
           LD A, (IX+1)
                       ; AND UPGRADE
                                                       4250
                                                                   LD HL, DATA
                        ; IX REG. COO A GI
4189
            LD (IX+3),A
                                                                   INC HL
418C
           INC IX
                                                                             ; SEND NEW COLOUR TO VRAM
                                                       4254
                                                                   CALL VRDUD
418E
           INC IX
                                                       4257
                                                                   INC (IX+0)
           CALL UPDATE
                                                       425A
                                                                   POP BC
4193
           INC SP
                                                       425B
                                                                   DJNZ BEGYND
4194
           INC SP
                                                                   RET
                                                       4250
4195
           RET
                                                                   RST 10
4196 FARVEV: CALL STED
                                                                   DB £83,3,3,20
                                                       425F
           RST 10
4199
                                                                   RET
                                                       4263
           DB £9C, "FOR- OR BA"
                                                       4264 BAGG:
                                                                  NOP
41A5
           DB "CKGROUND F/B)
                                                       4265
                                                                   LD IY, FARVE
           LD IY, FARVE
41R7
                                                       4269
                                                                  LD HL, DATA
41BB FELB: CALL £79
                                                       426C SKBG:
                                                                  LD A, (HL)
                                                                                 ; PUT COLOUR IN A
41BE
           JR Z, FELB
                                                                               RESET FOREGROUND
                                                       426D
                                                                   RES 7,A
41C0
           LD (IY+0),A
                                                       426F
                                                                  RES 6,A
                                                                           ; COLOUR
4103
           INC IY
                                                       4271
                                                                  RES 5, A
41C5
           CALL STPAU
                                                       4273
                                                                  RES 4,A
           CALL STED
4108
                                                       4275
                                                                  CP (IY+1)
                                                                                 ; IS IT SAME COLOUR?
41CB
           RST 10
                                                       4278
                                                                                 ; IF NOT
                                                                  CALL Z,SKB62
           DB £9C, "CHANGE COL"
41CC
                                                      427B
                                                                  INC HL
                                                   427C
                                                                                 GET NEXT
4107
           DB "OR NO.(USE £ A=10)"
                                                                  DJNZ SKBG
                                                                                 ; SAME COLOUR
           CALL INP
                                                      427E SKB62: NOP
                                                   427F
41EC
           CALL STPAU
                                                                  LD D, (HL)
                                                                                 STORE OLD COLOUR
41EF
           CALL STED
                                                       4280
                                                                  RES 0,D
                                                                                  ; ERASE OLD BACKGROUND
41F2
           RST 10
                                                                  RES 1.D
                                                                                 ; COLOUR
           DB £9C," NEW COL"
41F3
                                                       4284
                                                                  RES 2,D
41FC
           DB "OR NO. (USE £)
                                                       4286
                                                                  RES 3,D
4210
           CALL INP
                                                       4288
                                                                                 PUT NEW COL IN A
                                                                  LD A, (IY+2)
4213
           LD IX, POS1
                                                                                 ; NEW COLOUR IN A - OLD IN D
                                                       428B
                                                                  ADD A,D
4217 START: CALL HJDE
                                                       428C
                                                                  LD (HL),A
                                                                                 STORE BOTH COLOUR S AGAIN
                                       Continued Overleaf
```

```
4280
            RET
                                                           42F1
                                                                       RET
                                                           42F2 VRDUD: DI
428E FORG:
            NOP
428F
            LD HL, DATA
                                                           42F3 IGEN2: LD A, (HL)
4292
            LD IY, FARVE
                                                           42F4
                                                                       OUT (1),A
4296 SKFG:
            LD A, (HL)
                                                           42F6
                                                                       CALL PAU
4297
            SRL A
                                                                       INC HL
                                                           42F9
            SRL A
4299
                                                           42FA
                                                                       DJNZ IGEN2
429B
            SRL A
                                                           42FC
                                                                       ΕI
            SRL A
4290
                                                           42FD
                                                                       RET
429F
            CP (IY+1)
                                                           42FE PAU:
                                                                       PUSH BC
42A2
            CALL Z,SKF61
                                                           42FF
                                                                       NOP
42A5
            INC HL
                                                          4300
                                                                       LD B.20
42A6
            DJN7 SKFG
                                                           4302 PAU2:
                                                                       NOP
42A8 SKFG1: LD D, (HL)
                                                           4303
                                                                       DJNZ PAU2
42A9
            RES 7,D
                                                           4305
                                                                       NOP
            RES 6,D
42AB
                                                                       POP BC
                                                           4306
42AD
            RES 5,D
                                                           4307
                                                                       RET
42AF
            RES 4,D
                                                          4308 STPAU: NOP
42B1
            LD A, (IY+2)
                                                          4309
                                                                       PUSH BC
42B4
            SLA A
                                                          430A
                                                                       LD B,£3F
4286
            SLA A
                                                          430C STPAU2: HALT
42B8
            SLA A
                                                                       DJNZ STPAU2
42BA
            SLA A
                                                          430F
                                                                       POP BC
42BC
            ADD A,D
                                                          4310
                                                                       NOP
42BD
            LD (HL),A
                                                          4311
                                                                       RET
42BE
                                                          4312 POS1:
                                                                      DS 8
42BF INP:
            CALL £79
                                                          431A TABEL: DS 4
4202
            JR Z, INP
                                                          431E FARVE: DS 3
42C4
            SUB £30
                                                          4321 ADRES: DS 2
4206
            CP 9
                                                          4323 DATA:
                                                                      DS 254
4208
            CALL NC, INP2
                                                          4421
                                                                      DS 10
42CB
            LD (IY+0),A
                                                          442B
                                                                      RET
42CE
            INC IY
42D0
            RET
                                                          20 GOTO 50
42D1 INP2:
            SUB 7
                                                          30 PRINT " THIS ROUTINE CHANGES THE COLOUR ON VS 4.":
            RET
42D3
                                                            PRINT " YOU HAVE A SPRITE YOU CAN "
42D4 VRADR:
            DI
                                                          32 PRINT " GUIDE OVER THE SCREEN, AND SO ": PRINT "DEFINE
42D5
            CALL VRAM
                                                          A QUADRANT, IN WHICH YOU"
4208
            LD A,E
                                                          34 PRINT " WANT TO CHANGE THE COLOUR.": PRINT "YOU CAN
            OUT (2), A
4209
                                                           CHANGE THE COLOUR SEPERAT - ELY."
42DB
            CALL PAU
                                                          36 PRINT " REMEBER TO MAKE THE INPUT IN HEXIDECIMAL":
42DE
            LD A,D
                                                             PRINT "E.G. 10=A, 11=B AND SO ON"
42DF
            OUT (2), A
                                                          38 PRINT " DO NOT CHANGE THE SPRITE NUMBER IN THE GENPAT
42E1
                                                             STATEMENT, UNLESS YOU KNOW WHY."
42E4
            EI
                                                          42 GENPAT 3, 2, 255, 128, 128, 128, 128, 128, 128, 128
42E5
            RET
                                                          44 GENPAT 3,3,255,1,1,1,1,1,1,1
42E6 VRDIN:
           DI
                     46 GENPAT 3,4
48 GOSUB 10
50 CSR 3,20:
52 IF S$="Y"
                                                         46 GENPAT 3,4,1,1,1,1,1,1,1,255
42E7 IGEN:
            IN A, (1)
42E9
            LD (HL),A
                                                          50 CSR 3,20: INPUT "ONE MORE TIME Y/N
            CALL PAU
                                                          52 IF S$="Y" THEN GOTO 10
42ED
            INC HL
                                                          54 STOP
42EE
            DJNZ IGEN
42F0
                                                                         000 000 The End 000 000
```

YOUR LETTERS

***** Cames High Table #:#:

AGROVATOR	89615	A.DOBSON			L OF TIME	950	R.SIDDALL	
ASTROMILON	30830	T.NEAL			MAXIMA	501250	R.SIDDALL	
ASTROPAC	69390	A.DOBSON			MINER DICK	22520	R.SIDDALL	
BLOBBO	71233	T.PICKSTONE			MISS ALPHA	53320	P.CRIGHTON	
B.BILL	219610	A.DOBSON LEVEL	1 38 381		M OMEGA	4400	T.NEAL	
B.BILL	158334	A.DOBSON LEVEL	9		NEMO	14650	P.CRIGHTON	
C-5	9918	*V.STEPNEY			O.ZONE	35620	A.DOBSON	
CHAMBEROIDS	19 MINS	P.ERIKSSON			OBLOIDS	80110	P.CRIGHTON	
COBRA	5634	A.DOBSON			PHAID	5285	M.FIDLER	
CONT RAID	10810	M.GILL			P PETE	41190	A.DOBSON	
CRYSTAL	35507	A.LYNCH			QUASI	1200	*G.CAMPBELL	
DR FRANKY	14925	N.CRIGHTON			QUAZZIA	41020	V.STEPNEY	
D.DANGER	8627	A.DOBSON			0060	11440	M.FIDLER	
D.DESTROYER	3380	T.NEAL			Q060 2	255000	R.SIDDALL	
EMERALD ISLE	725	R.SIDDALL			ROLLA BEAR	27741	V.STEPNEY	
E. ZARKOS	90 OBJ	R.SIDDALL			SEPULCRI	6175	V.STEPNEY	
F. DEEP	1420	A.LYNCH			S.M.G.Rt	26280	V.STEPNEY	
FELIX	20600	P.COUGHLAN			S.M.6.Lt	11830	V.STEPNEY	
F.FREDDIE	15560	M.FIDLER			SNAPPO	79300	P.ERIKSSON	
FLUMMOX	25700	T.NEAL			SNOWBALL	1000	P.COUGHLAN	
GOLDMINE	6308	M.FIDLER			S OF PETE	10542	P.ERIKSSON	
HAWKWARS	15850	P.CRIGHTON			STAR COMM	131690	P.CRIGHTON	
H. ENCOUNTER	14030	*V.STEPNEY			SUPERBIKE	20.7KM	A.FIDLER	
HI-LO	£120	*6.CAMPBELL			S M/FIELD	829	M.GELDER	
HUNCHY	5681	T.NEAL			S SCANNER	7340	A.DOBSON	
ICEBURG	17431	A.DOBSON	F 26		T FIGHTER	3260	V.STEPNEY	
JUMP' J FLASH	2970	T. NEAL	8.80		TAPEWORM	168515	A.DOBSON LEVE	L 1381-1-30
KARATE KING	1300	T.NEAL			TAPEWORM	150500	A.DOBSON LEVE	L 9
KILOPEDE	35275	N.CRIGHTON			T ZONE	7610	P.ERIKSSON	
KNUCKLES	488650	P.CRIGHTON			TOADO	107549	N.GOODING	
					TURBO	23030	M. GELDER	
					THE WALL	2310	*P.ERIKSSON	
						*	Denotes new hi	gh score
1 Fin-Forth								6. 4113

1.Fig-Forth

Dave Thompson, the author of the clubs Fig-Forth has supplied us with an updated set of user notes and some new words to be incorporated into Forths dictionary, these words are :-

DEPTH, Leaves a count of the 16 bit numbers on the stack Loads a contiguous set of screens given the lowest and highest screen numbers

Halt program execution and display the stack.

List without being in Editor L,

List screen above current screen

List screen below current screen Z, WITHIN, Range check

@EXECUTE, Vectored Execution

Please send in a S.A.E. if you require the update sheets.

To all you forth owners - May The 'FORTH' be with You!!!.

2.Questions

Over the past month we have had a flood of members asking about upgrading their MTX 500's to 512's, and not by the normal method of the expansion board, but by removing their system board RAM chips and replacing them with 64K chips.

Has anyone undertaken this change, if so, could you please get in touch !!. So far, this is what Peter Eriksson had to say about expanding his expansion card:-

A week ago I decided that I would try to expand my MTX 512 to 128Kbyte RAM (My MTX 512 isn't really a true one, it's a MTX 500 with a 32K RAM card.) by installing eight 4164 DRAM chips into the eight empty IC-sockets on the expansion card.

It almost worked! The only fault was that I only got half Continued Overleaf

the RAM I installed. (That is the computer only recognizes 32K, making a total of 96K) By doing this, I made it possible to install another expansion card inside the computer. (Else the RAM expansion would have taken that place.)

3.Software hints By Peter Eriksson

My high score on 'The Wall' is 2310 points. This game was written by a friend of mine and I really can recommend it. It's really worth it's money (4.95 in Memopad). It isn't like some other 4.95:ers by SyntaxSoft, it's a lot better! (I can't understand how SyntaxSoft can sell 'Superbike' for 4.95, I wouldn't sell it for more than 2.95, if I would sell it at all...)

4. Hardware

Some members are having problems finding room for all their expansion cards when they upgrade to a CP/M SDX system, especially if they have a MTX 500, whereby they are required to have the expansion card fitted somewhere. This problem arises because the SDX controller box that fits on the left hand bus connector does not continue the bus connection on it's lefts hand edge, thus, this severely limits expansion once an SDX is installed. There is room in the SDX controller box for a single width expansion board (namely a RAM expansion) to be fitted. This involves securing the board to the underside of the cases to cover using a couple of small nuts and bolts. Then using a piece of ribbon cable make the bus connections from the board to the inverted expansion board, taking care to ensure that the correct lines are soldered together, as we found we had to twist the cable 180 degrees to obtain the correct fitting.

You should note that this is a risky business, as you can easily 'blow' chips with the static transmitted just by touching them. It is however, possible, as it works with my brothers SDX system.

5.<u>Magazine Ideas</u> Victor Stepney has this to say:-

The reviews page is probably the most important fo me, low wages force me to choose software carefully as ± 6 for a game which lays around collecting dust is not funny.

Whilst the reviews are generally quite good it does seem that there are too few for a games player. A useful guide when choosing what to buy is the authors name. Writers such as C.Sawyer, A.Key and Butterfield, Wills etc are well featured amongst my collection of Megastar games, and are of high quality. Among the latest purchases are Highway Encounter - Cee 5 and Miner Dick, of which Highway Encounter and Cee-5 are very good.

Ed-> It is true that we do not have enough reviews to fill a page each month, we will try and rectify this by buying new software as and when we can find it. If anyone hears/has or sees some new software let us know so that it can be reviewed and passed on, as the reviews page does make for informative reading.

Gordon Clay has this to suggest:-

What about a gallery for Memosketch pictures, also, would it be possible to start an adventure page, where reviews, hints and help is given. I have completed SNOWBALL but I am now stuck in LORDS of TIME and CAVES of ORB.

Ed-) We can print Memosketch pictures, probably the best place would be the front cover as they tend to be large (and we are always short of front covers!!). Try to make sure there is not too much black as this tends not to duplicate too good. As for an adventure help line, the letters page seems like the idea! place for it.

6.Contacts

Gordon Clay has asked us to print his address as he would like to get in contact with MTX owners in the North Shields, Whitly Bay and Tynemouth area, his address is:-37 Netherton Ave, North Shields, Tyne and Wear. Tel 2583320

.. and a letter from Lieselotte Foeller
How about a small social corner in the mag??
Members could introduce themselves and in case someone is
interested they could get in touch with each other maybe
by writing letters. Or, for instance, if I had the address
of a member in England or Switzerland 1 could visit them
next time I am there. Or, I would love to read something
about people living in Australia or Brunei.

If you need somebody to start with, take me:I'm German, single, 54 years old, I love flowers and other
plants. I am not rich and live in a one-room apartment. I
work in an office, I like travelling and sunshine. I'm
very lazy but I like getting letters. For me, the MTX is
only a small part of my life. I use it, but I still think
people are more interesting than a computer!!!.

Lieselotte's address is:-Platanenstr. 10 D-6230 Frankfurt/m 83 Germany

000 000 000

REVIEWS...REVIEWS...REVIEWS...REVIEWS...REVIEWS...

The SOFTWARE Page

Title : Tornament Snooker Reviewed By : Richard Siddal!

Software House : Magnificent 7 Software

The producers of this new game, Magnificent 7 Software have produced games for the Commadore 64 and Spectrum and seem to be very experienced in producing high quality software for most home computers, but this snooker simulation for the MTX is probably the best for any home computer that I have seen in all my seven years of using computers.

The game is so precise, the cue adjustment is correct to 0.17 of a degree and the ball spin makes it possible to do a number of shots that Steve (Exceedingly Boring!!) Davis would be proud of!. The game also has an 'instant reply' which repeats shots that have previously been taken, showing how good or bad it was.

Conclusion

The demo shows a game being simulated by the computer, this shows how good the game is. The only other thing I can say is 'Get out and buy it!!' you will not regret it.

Marks 10/10 Comments - Excellent

000 000 000

Title : Karate King
Reviewed By : Richard Sidda!!

Software House : Megastar

I must say that this game is really good, so I cannot pick a great deal of fault.

The main objective of the game is to collect a number of lanterns from around 'Bluces' town, whilst beating the hell out of Yamoto, your enemy.

The graphics are good, probably a bit small but good, and the colour also suits the game to a 'tee'. The only major problem is the sound which only consists of a few bleeps.

Any former Spectrum owners will probably have seen this game before under the title BRUCE LEE, I myself have seen the Spectrum version and think that the MTX version knocks spots off of it!!.

All in all a great game for all ages. Thanks Megastar.

Graphics 8 Sound YUK!! Value 8 Colour 9 Addictiveness 9

PROGRAM LIBRARY £1.20 Per Cassette, 2 Programs per Cassette

This month we have an excellent applications program from Richard Page, called CHEMEMENTS, it should help any 'O' level Chemistry students understand the Periodic Table. The program is fully documented within itself, making full use of NODDY pages. If you're interested in Chemistry and in particular the elements, then this is well worth a look at.

We could really do with some more programs for the library as Chemements is the only program we have had in two months!!.

1.Basic & Assembler Programs All programs available on cassette, 2 programs per cassette, £1.20 per cassette. Or on disc, £2.50 per disc, please enclose a disc, stating capacity. (Some programs are only available on cassette!!). Reviews of all programs are available, please send a large SAE. All Swiss User Group programs are prefixed with 'Sw'. 1. Hex-Dec-Bin (Binary Bit In Assembler) 2. CGEN Sprite Generator. 3.3D-Draw Rotate a skeleton of a cup & saucer in 3D. 4. Whist. The Card Game 5.Mem-Save. This Utility will Save a block of memory to tape and retrieve it. 6.MTX-Draw Two basic drawing boards, MTX DB has more 7.LOGO-Draw extensive commands. 8. Simplex Tablaeux. Applications Program. 9.Breakeven. Applications Program. 10.Statistics. Applications Program. 11.An Unsolved Prbm Applications Program. 12.Radio Routines Applications Program. 13.Light Cycles. Arcade Game 14.Hex/Dec/Bin Conversions using USER commands! 15.Renumber II Renumbers Including GOTO's etc (14 & 15) are Utilities and as such reside high in memory transparent to the user. 16.RELOC Relocs Assembler Properly!! 17. Character Editor Yepp!! Another Sprite Gen!! 18.Quasimodo Excellent Arcade Game 19.Planner YASG (Yet Another Sprite Generator) 20. Hanni Classic Puzzle (Brilliant simple use of

Simple Text Game

Applications Program

Applications Program

Utility

Utility 28.Money Manager Applications program

31.Full Time Football Manager Game

Word-nro

Word Processor

Panel extensions

Strategy Board Game

-- The Second Disc Starts Here ---

Our First Sound Generator!!

21.Noble

22.Hi-Lo

24. Annva

27.Merge

29.Word

30.Reversi

32.PANEL3

33. Texted

23.Composer

25.CASHFLOW

26.RenumIII

Graphics) Just like Bruce's Play Your Cards Right !!!26,27 & 28 cassette only!!!

34.SwMice Swiss Arcade game Written in Basic 35. THITIM Assembler arcade game. 36.Sw3D-FUNC.1 First of two. Saturn!!! 37.5⊌3D-FUNC.2 Second of Above. Sinpr?. 38.SwSpr-Ed YASE. 39. SwZ-Wandl Number Base Convertion Prog. 40.0XO Noughts & Crosses. 41.Solitaire Strategy Game. 42.Cross-Num Excellent strategy game!! 43. Avoid Seven Dice Game 44.Numerology Analyse your name!! 45.Chemin Another Dice Game! 46.Dice Another, Another Dice Game!! 47. SwMathe Arithmetic Tester. 48.Reversi2 Assembler of no. 30. Great!! 49.ISOT A really good maze game. 50.DBaseI Simple Data Base 51.DBaseII Requires MTX Util Tape 52.Money 2.1 An update of no 28 53.Ram Disc Better than sliced bread 54.RDisc Source Source of above. 55.Diary Diary & Address program 56. Terminal Em. Comm's via Rs232 & Modem. 57.Skittles Keeps league tables 58. Card-Ind Produces Card Index's 59. Chemements *** NEW *** Applications (Chemistry)

3. Articles From Previous Magazines

(Available as listings, please provide sufficient postage to cover club costs. TA!) 1.PANEL2 Utility. An updated version of PANEL1, which includes a second feature. 2. Undocumented Neword dot commands. (Vol1 Iss.7) 3. Hisoft Pascal Review (vol1 Iss.8) 4. Neword Rom Review (Vol1 Iss.5) 5.RST10 Codes Explained (Vol1 Iss.3) 6.VDP Explained Using assembler (vol1 Iss4,5,6) 7. System Variables (Not Previously Published!!)

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