

VOL. 3

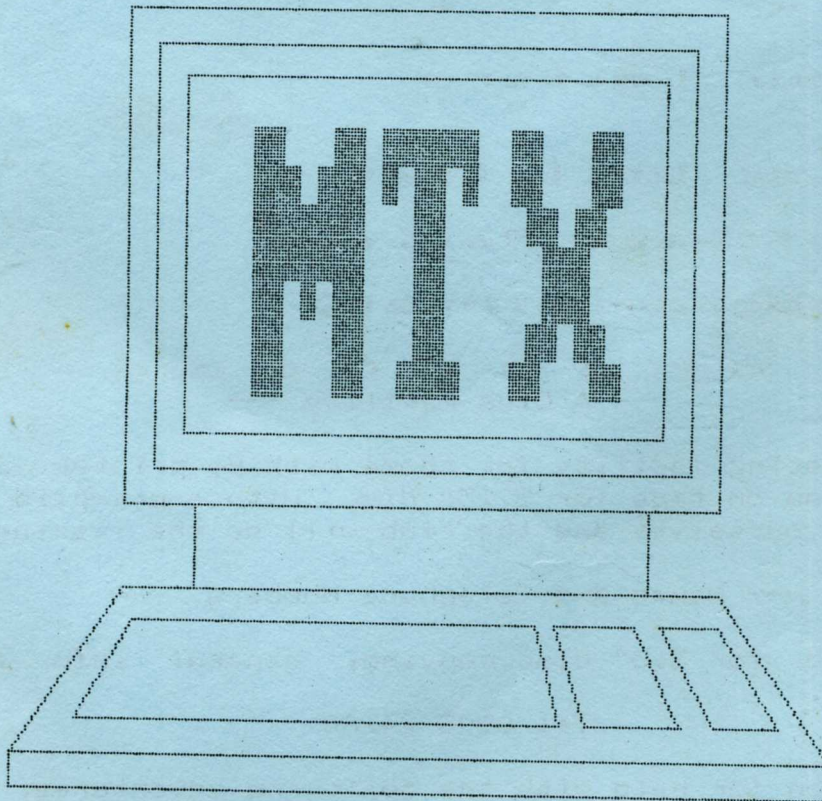
ISSUE 7

MAY 1987

THE
MEMOTECH OWNERS CLUB

MAGAZINE

MEMOTECHNIQUES



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CIRCA ...272

M.O.C.

VOLUME 3 ISSUE NUMBER 7

CONTENTS

1. Editorial
2. Basic Program
3. New for Old
4. Catalog Program
5. " "
6. Hardware and Software
7. FDXB Enhancements
8. " "
9. Your Letters
10. " "
11. Disc Utilities
12. Software Reviews
13. Program Library

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--- A Club Facility ---

A program listing facility for those with no printer. Just send in your program on tape (or 5.25" disc) with a pre-paid envelope addressed to yourselves and the club will do the listing for you.

--- Names and Telephone Numbers. ---

i. Paul Wood for 3.5" disc copying, general info and Comms specific info.

Tel 0905 24260

ii. Alan Dobson for help with the following adventures:

Alice, The ZOO and Man From Granny

Tel 061-980-6288

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

E D I T O R I A L (May 1987)

Phil Eyres
13 Copse Road
Townhill Park
Southampton

This month has seemingly shot by, I have moved into my new house, so please note the new address above and the new phone number below. I have been frantically doing out the spare bedroom so that all the paperwork can be 'thrown about' up there. (I'm already being nagged about the mess (computer) in the front room).

You will have probably noticed the Graysoft leaflet enclosed with the magazine, advertising John's latest programming expedition. I hope that you all find this interesting and decide to buy a copy as it is the first new software to appear for several months. Review on page 12.

I can read/write only disc's in 5.25" format and up to 500K, if anyone with 3.5" systems would like something from the club or has something to offer on 3.5" format please send to Paul Wood, his address is listed opposite.

Paul has now also made these programs available on his bulletin board, the phone number for the BBs is 0905 52536. He will sort out a suitable communications package for file transfers and send it to us for distribution along with a report on the BBs and instructions on how to use it. For now members can use the terminal emulation package in the program library, this will allow users to log on and leave messages etc. The BBs support's baud rates up to 2400 and most common file transfer protocols. Should anyone require any further information then please let him know. Prestel Mailbox 0905524260.

On May the 17th we received a letter from a Mr P.J.Clark informing us that Glenstar Developments Ltd (29 Copse Edge, Barhatch Road, Cranleigh, Surrey) have bought up the entire stock of the old Memotech factory including many spares and a quantity of new computers. They asked us to place an advert in these pages stating that they have MTX500's for sale at £50.00 plus £5 p&p, complete with 5 games. Also that they have 'top quality' joysticks (Fantastic) at a price of £4.75 plus £1.00 p&p.

COMPETITION

$$\begin{aligned} D + G * E - C &= 17 \\ + * + * & \\ A * A - F + B &= 10 \\ - + / - & \\ G + B * E + D &= 28 \\ * - + + & \\ F + C * D / E &= 14 \\ = = = & \\ 12 \ 21 \ 8 \ 5 & \end{aligned}$$

A little logic puzzle.
What are the values of
A - G?

Note Ignore the usual
'Precedence of operators
Rule'

Just do sums from left to right
or top to bottom.

Answers to be received before the next magazine, either just on paper or as a program!. The prizes on offer are two copies of John Grayson's Fruit Machine.

As I am more often than not out playing squash on Mondays between 6 and 7 pm, I feel it would be best to move the Hotline to after 7.40pm. I hope this is ok for everyone. The number to phone now is (0703) 585106, ask for Phil. However, feel free to phone any evening after 6pm.

If anyone would like back issues they are available for the small remittance of 80p each. At present there are 26 back issues, 10 for volume 1, 10 for volume 2 and 6 for volume 3.

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.

ooo 0-0-0 ooo

Software

Software prices for the best and most popular software:-

Zarkos	£7.00	Chamberoids	£7.00
Qogo2	£7.00	26*26 SpreadSht	£8.50
Karate King	£7.00	Son Of Pete	£7.00
S.M.6	£7.00	T.Snooker	£8.005120only
Doodlebugs	£6.00	Super Bike	£6.00
J.J.Flash	£6.00	Ed/Asm	£8.50
Cee-5	£7.00	MTX Asm Lang Cse£10.00	
Highway Encounter	£8.50		

HEX GRID PROGRAM

BY

JOHN SEAMAN

The attached program has, I would have thought, been written and re-written a million and one times already, but I notice that it or something similar has never appeared in your pages, so perhaps it hasn't.

Anyway, the purpose of the program is to produce on the DMX80 printer a 'hex grid' such as is used by the war game enthusiasts. I made it up when I found myself with a spare moment one evening and I thought you might like to keep it on file for filling in an odd gap in your pages.

```
10 REM HEX GRID PROGRAM
20 REM JWS 24-05-86
30 REM *****
40 PRINT "ENSURE THAT THE PRINTER IS"
50 PRINT "SWITCHED ON, CONNECTED AND"
60 PRINT "THAT PAPER IS INSERTED."
70 PRINT
80 PRINT "PRESS THE SPACE BAR TO START"
90 IF INKEY$<>" " THEN GOTO 90
100 LPRINT CHR$(27);CHR$(48)
110 LPRINT CHR$(27);"Y";"A";CHR$(128);CHR$(64);CHR$(32);
    CHR$(16);CHR$(15);CHR$(16);CHR$(32);CHR$(64);CHR$(128)
120 LPRINT CHR$(27);"Y";"B";CHR$(1);CHR$(2);CHR$(4);CHR$(8);
    CHR$(240);CHR$(8);CHR$(4);CHR$(2);CHR$(1)
130 LPRINT CHR$(27);CHR$(48)
140 FOR I=1 TO 16
150 FOR J=1 TO 38
160 LPRINT " "; "A";
170 NEXT J
180 LPRINT " "; "A"
190 FOR J=1 TO 38
200 LPRINT " "; "B";
210 NEXT J
220 LPRINT " "; "B"
230 FOR J=1 TO 38
240 LPRINT "A"; " ";
250 NEXT J
260 LPRINT "A"; " "
270 FOR J=1 TO 38
280 LPRINT "B"; " ";
290 NEXT J
300 LPRINT "B"; " "
310 NEXT I
320 PRINT : PRINT "ANOTHER PAGE? (Y/N)"
330 IF INKEY$="Y" OR INKEY$="y" THEN GOTO 80
340 IF INKEY$<>"N" AND INKEY$<>"n" THEN GOTO 330
350 LPRINT CHR$(27);CHR$(64)
360 REM END
```

NEW FOR OLD

BY

J. HUDSON (1985)

The program is designed to be used to enable 'newed' or crashed programs to be recovered. To use, just load and run the program at the start of all sessions. Then just prior to running the program you are developing do:-
 P.USR(48000) In reply to the Save or Rec question reply S.

This will save the first 8 bytes of your program and various system pointers to \$BFF0-\$BFFF. If the system crashes or you new the prog or do system reset just do :-

P.USR(48000)

Then this time reply R (Recover). Your program should be restored.

10 CODE

```

4007 LD HL, $801C
400A LD A, ($FA7A)
400D AND A
400E JR Z, M500
4010 LD HL, $401C
4013 M500: LD DE, $BB80
4016 LD BC, $9F
4019 LDIR
401B RET
401C START: RST 10
401D DB $6D, $B9, "PROGRAM RECOVERY ROUTINE."
4038 DB $B1, 10, 13, "SAVE OR RECOVER"
404A DB $8D, 13, 10, "TYPE R OR S"
4058 IN2: CALL $79
405B JR Z, IN2
405D CP "S"
405F JR Z, SAVE
4061 LD HL, $BFF0
4064 LD DE, $8000
4067 LD A, ($FA7A)
406A AND A
406B JR Z, LAB1
406D LD DE, $4000
4070 LAB1: LD BC, 8
4073 LDIR
4075 LD HL, ($BFFE)
4078 LD ($FAA4), HL
407B LD ($FAA7), HL
407E LD ($FAAC), HL
4081 LD A, H
4082 AND $3F
4084 LD H, A
4085 LD ($FACC), HL
4088 RET
4089 SAVE: LD HL, $8000
408C LD A, ($FA7A)
408F AND A
4090 JR Z, LAB2
4092 LD HL, $4000
4095 LAB2: LD DE, $BFF0
4098 LD BC, 8
409B LDIR
409D LD HL, ($FAA4)
40A0 LD ($BFFE), HL
40A3 RET
40A4 RET
    
```

TAPE CATALOG PROGRAM

By
Mike Kohnstamm

I have only tried this program on my MTX 500, with a cheap Epson P40 parallel printer. In theory it will work on a 512, and can be amended for a serial printer.

It is for people like me that keep saving things to tape and forget to label the cassette. It prints out a list of the names of programs on the tape, with time since the program started, and a count that approximates my tape counter.

Unlike my father's Spectrum, where LOAD "x" will find a program at the end of the tape, the MTX version of LOAD "x" will only work if x is the first program found, so you can't use load to list the contents of a tape - doesn't anyone else find this a real bind?

The program lets you list the program names to the TV or to a printer, it does miss the odd program, but is much better than nothing at all.

I know it is sloppily written, and I could not explain how it works - it's all done by trial and error, ROM calls and guesswork - especially when it comes to keeping the time going, and not printing things that look like programs but are not!

5 GOSUB 1000	4061	CCF	40A3	JR NEXT
10 CODE	4062	CALL £A72	40A5 DOT1:	LD C,£2E
4011 LD HL,£FD5E	4065	JR NC,NOONE	40A7 NEXT:	CALL CHECK
4014 LD (HL),0	4067	CALL £A9A	40AA	JR C,DOT2
4016 READS: LD HL,£A000	406A	LD A,C	40AC	LD B,A
4019 LD B,£FF	406B	CP £FF	40AD	JR GO
401B CLRLOOP:LD (HL),0	406D	RET NZ	40AF DOT2:	LD B,£2E
401D INC HL	406E	CALL £A9A	40B1 GO:	RST 10
401E DJNZ CLRLOOP	4071	LD A,C	40B2	DB £C0
4020 LD A,1	4072	CALL CHECK2	40B3	DEC DE
4022 LD (£FD68),A	4075	RET C	40B4	LD A,D
4025 CALLOP: CALL £79	4076	LD A,£FF	40B5	OR E
4028 JP NZ,LASTLAB	4078	LD (FOUND),A	40B6	JR NZ,PRTLOOP
402B LD HL,£A000	407B	LD (HL),C	40B8	CALL COUNT
402E LD DE,£10	407C	INC HL	40BB	NOP ; CALL HEX
4031 LD A,0	407D	DEC DE	40BC	RST 10
4033 LD (FOUND),A	407E LDBYT: CALL £A9A	4081	40BD	DB 13
4036 CALL AAE	4081	LD (HL),C	40BE	RST 10
4039 LD A,(FOUND)	4082	INC HL	40BF	DB 10
403C CP £FF	4083	DEC DE	40C0 NOGOOD:	POP DE
403E JR NZ,CALLOP	4084	LD A,D	40C1	POP HL
4040 CALL PRT	4085	OR E	40C2	POP BC
4043 JR CALLOP	4086	JR NZ,LDBYT	40C3	RET
4045 RET	4088	CALL £97F	40C4 CHECK:	LD A,(HL)
4046 AAE: CALL 097F	408B	JP £996	40C5 CHECK2:	CP £20
4049 CALL £B13	408E RETLAB: RET	408F FOUND: DB 0	40C7	RET C
404C EX AF,AF'	4090	NOP	40C8	CP £5B
404D LD A,£90	4091 PRT: PUSH BC	4092	40CA	INC HL
404F EX AF,AF'	4092	PUSH HL	40CB	CCF
4050 STTAGN: CALL £79	4093	PUSH DE	40CC	RET
4053 JP NZ,FINLAB	4094	CALL TIME	40CD FINLAB: POP HL	
4056 LD B,0	4097	LD DE,£07	40CE LASTLAB: LD A,0	
4058 BITLOOP:CALL £A6B	409A	LD HL,£A001	40D0	LD (£FD75),A
405B JR C,STTAGN	409D PRTLOOP:CALL CHECK	40A0	40D3	RET
405D DJNZ BITLOOP	40A2	LD C,A	40D4 TIME:	LD HL,£FD59
405F NOONE: EI			40D7	LD C,(HL)
4060 XOR A			40D8	INC HL

Continued Overleaf

40D9	LD B, (HL)	4131	PUSH AF	Symbol:			
40DA	RST 10	4132	PUSH BC	LDBYT	407E	STTAGN	4050
40DB	DB £C0	4133	PUSH DE	BITLOOP	4058	NOONE	405F
40DC	INC HL	4134	PUSH HL	CLRLOOP	401B	AAE	4046
40DD	LD C, (HL)	4135	LD HL, £FDDE	RETLAB	408E	FOUND	408F
40DE	INC HL	4138	LD DE, £FDDF	PRT	4091	READS	4016
40DF	LD B, (HL)	413B	LD (HL), 0	CALLOP	4025	CHECK	40C4
40E0	RST 10	413D	LD BC, 12	PRTLOOP	409D	NOGOOD	40C0
40E1	DB £C0	4140	LDIR	LASTLAB	40CE	DOT1	40A5
40E2	LD BC, £2020	4142	LD A, (£FD5A)	DOT2	40AF	GO	40B1
40E5	RST 10	4145	AND £0F	NEXT	40A7	TIME	40D4
40E6	DB £C0	4147	SLA A	HEX	40EB	HEXLOOP	40EE
40E7	RET	4149	LD C, A	NUM	4103	CREG	4105
40E8	HEX: LD HL, £A000	414A	SLA A	NUM2	4113	BREG	4115
40EB	LD DE, £08	414C	ADD A, C	097F	411E	CHECK2	40C5
40EE	HEXLOOP: INC HL	414D	LD C, A	FINLAB	40CD	COUNT	4130
40EF	LD B, (HL)	414E	LD A, (£FD5B)	NM	417D	PR	4185
40F0	LD A, B	4151	AND £0F	NN	416D	RETLB	4180
40F1	SRL A	4153	ADD A, C	NO	4187		
40F3	SRL A	4154	SLA A				
40F5	SRL A	4156	SLA A				
40F7	SRL A	4158	LD C, A	100	STOP		
40F9	CP £0A	4159	LD A, (£FD5C)	110	FOR I=40960 TO 41968		
40FB	JR C, NUM	415C	AND £0F	120	PRINT I, PEEK(I)		
40FD	OR £40	415E	SRL A	130	NEXT I		
40FF	SUB £09	4160	ADD A, C	140	STOP		
4101	JR CREG	4161	LD L, A	210	FOR I=40960 TO 41968		
4103	NUM: OR £30	4162	LD H, 0	220	POKE I, 0		
4105	CREG: LD C, A	4164	LD (£FDCB), HL	230	NEXT I		
4106	LD A, B	4167	CALL £0DFE	240	STOP		
4107	AND £0F	416A	LD HL, £FDE5	1000	CLS : CSR 2, 2: PRINT "S - SCREEN OUTPUT"		
4109	CP £0A	416D	LD DE, NO	1002	CSR 2, 4: PRINT "P - PRINTER"		
410B	JR C, NUM2	4170	LD A, (HL)	1004	CSR 2, 6: PRINT "H - HELP"		
410D	OR £40	4171	CP 255	1006	CSR 4, 10		
410F	SUB £09	4173	JR Z, RETLB	1010	INPUT A\$		
4111	JR BREG	4175	CP 0	1012	IF A\$="S" THEN GOTO 1100		
4113	NUM2: OR £30	4177	JR Z, NM	1014	IF A\$="P" THEN GOTO 1020		
4115	BREG: LD B, A	4179	LD (DE), A	1015	IF A\$="H" THEN PLOD "HELP1": GOTO 1000		
4116	RST 10	417A	CALL PR	1016	GOTO 1006		
4117	DB £C0	417D	NM: INC HL	1020	LPRINT "TIME PROGRAM COUNT"		
4118	DEC DE	417E	JR NN	1021	LPRINT "-----"		
4119	LD A, D	4180	RETLB: POP HL	1023	POKE 64143, 1		
411A	OR E	4181	POP DE	1024	POKE 64885, 1		
411B	JR NZ, HEXLOOP	4182	POP BC	1030	GOTO 1200		
411D	RET	4183	POP AF	1100	POKE 64885, 0		
411E	097F: DI	4184	RET	1110	CLS : PRINT "TIME PROGRAM COUNT"		
411F	IM 2	4185	PR: RST 10	1120	PRINT "-----"		
4121	LD A, £FF	4186	DB £81	1200	REM		
4123	LD I, A	4187	NO: DB £30	1205	PAPER 12		
4125	LD A, £03	4188	RET	1210	CLOCK "000000"		
4127	OUT (£09), A	4189	RET	1220	RETURN		
4129	OUT (£0A), A	418A	RET				
412B	OUT (£0B), A						
412D	RETI						
412F	RET						
4130	COUNT: NOP						

HARDWARE AND SOFTWARE PRICE LIST

Basic Computer
256K Computer + Tape operating
System £99.95

System One
1 Mbyte 3 1/2" Drive + I/F £166.00

System Two
1 Mbyte 3 1/2" Drive + I/F
512K Silicon Disc, 80 Col.
+ CP/M + Neword £264.00

HX12 Green Screen Monitor £95.00

Twin RS232 Serial Interface £29.95

We can offer DMX 80 printer ribbons for only £7.00 each, so why not order one today and be prepared for the day your ribbon finally 'bites the dust'!!!

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 (This may vary according to availability).

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

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

Ron Gladwin of UK Home Computers, (Tel 0793 695034) has on offer a Spectrum Loader that will convert your 512 into a 40K Spectrum, this will allow you to type in Spectrum programs, it is also said to load some Spectrum software. At £2.95 you may find it worth a try.

Ron also has some FDx Silicon disc's on offer, he has both 256K and 1Meg boards. The 1 Meg boards are only £100 and are available from us. Just think, you could be running your Supercalc or Neword at 3 to 4 times the speed you are used to.

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

!!! SUPER CHEAPIES !!!
(ONLY FROM STOCK)

DESC	QTY	PRICE	DESC	QTY	PRICE
		(Each)			(Each)
			THE ZOO	3	£4.50
RETURN TO EDEN	1	£7.00	COBRA	1	£4.50
EMERALD ISLE	1	£7.00			
BLOBBO	5	£4.50	MINER DICK	1	£4.50
KILOPEDE	3	£4.50			
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TOADO	4	£3.50			
NEMO	1	£4.50	PONTOON & B' JACK	3	£4.50
SNAPPO	3	£4.50			
PAYROLL	1	£10.00			
PURCHASE LEDGER	1	£7.00			
PHYSICS 1	3	£5.50			
MATHS 1	1	£5.50	TAPEWORM	1	£4.50

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Karate King	£7.00	Son Of Pete	£7.00
S.M.G	£7.00	T.Snooker	£8.00 512 Only
Doodlebugs	£6.00	Super Bike	£6.00
J.J.Flash	£6.00	Ed/Asm	£8.50
Cee-5	£7.00	MTX Asm Lang Cse	£10.00
Highway Encounter	£8.50		

Order a copy today!!!!!!

Remember PRINTER RIBBONS are only £7.00
REVEAL is only £6.00
SM6 II is only £6.00

Don't forget to order your copy of Fruit Machine from Graysoft today!!!!

FDX ENHANCEMENTS

by Geoff Gardiner.

When my original 500K disc drives became temperamental from age I replaced them with 1Meg drives. The 500K drives were Qume, made I think in Taiwan, but the new ones are NEC made in Japan, and seem to be good quality. They are noisier, clanking a lot, because they have head solenoids to bring the heads into contact with the discs, whereas the Qumes had the heads pressed onto the discs by spring pressure only. I would guess that the NEC system causes less wear to discs and heads.

To reduce drive wear even more I had a 1Meg silicon disc fitted. The ability to use silicon discs, or RAM discs as they are now more commonly called, was one of the features that made the Memotech such a fine design, and the feature has been imitated. A silicon disc is a piece of volatile memory made from memory chips but it behaves like a floppy disc except that access to the RAM disc is far, far faster. This is marvellous when using Newword because menus that have to be taken from the overlay file, NWMSG.S.OVR, which remains on disc, appear on screen instantly. Handling a big file is far faster than when the file is on a floppy. Of course the contents of the silicon disc disappear if one switches off, though they do survive a reset. Before switching off one must save to a floppy.

A one meg silicon disc stays one meg when it is formatted, unlike a one meg floppy which is reduced to about 620K. One meg easily holds the Newword program and its overlays, which are about 150K, and 75,000 words of text, a complete book in fact. But even a 1meg disc can be too little if one is trying to handle a file that is several hundred kilobytes long.

The implementation of RAM disc on the Amstrad PCW is more user friendly, and no doubt the Amstrad designer was able to learn from the experience of FDX users. But the FDX is a more flexible system and not only can one make it user friendly but also make it friendly to one's own specific needs and for specific purposes. After some thought and experiment I devised the following means to suit my work pattern.

I decided to prepare for each program a work disc to be used in drive B. I included on it those programs from the CP/M system disc that I was likely to need as well as the application program and its overlays and utilities. So my Newword disc contains NW.COM, NWINSTAL.COM, NW.OVR, NWPRINT.OVR, NWMSG.S.OVR, NWKEY.COM. NW.COM is customised for my needs but I keep NWINSTAL.COM on the disc in case I want to alter some aspect of the program for a special purpose. With 620K available I don't have to economise on disc space. Then there are the system programs STARTUP.COM, CONFIG.COM, FORMAT.COM, SIDISC.COM, SYSCOPY.COM, PIP.COM, STAT.COM, and SUB.COM. There is also WC.COM, which is an assembly language wordcount program that I got from a magazine. Finally there is my SUBMIT program, SETUPNW.SUB. Note that SISPOOL.COM is not on the disc; that is because SISPOOL and SIDISC cannot be used together as they seem to occupy the same space in memory and under my arrangement SIDISC will always be in memory when this disc is in use.

I have used STARTUP to automate the opening procedure. One must take great care when typing in a STARTUP instruction. If you make a mistake, delete the whole line, press return, and start again.

The syntax was as follows:-

```
A> STARTUP SIDISC\CONFIG B:07,C:07,F:43\SUB SETUPNW <CR>
A> STARTUP <CR>
```

The second invocation of STARTUP puts these instructions onto the system tracks and whenever I insert this disc after switching on, SIDISC is automatically installed into high memory. Until that has been done one cannot configure the silicon disc into

the system. Then CONFIG is called automatically and this configures the three drives. Some FDX owners may have a system that requires another program, INITIATE.COM to be called as well.

When initiating a silicon disc there is no need to SYSCOPY it.

After the configuration the SUBMIT file, SETUPNW.SUB, is called as I seem to have exhausted STARTUP's capabilities. STARTUP itself works like a SUBMIT file but of very limited size. The SUBMIT file, which is a non-document, reads as follows:-

```
FORMAT F:
PIP F:=A:NW.COM
PIP F:=A:*.OVR
F:
NW
```

So the first thing that SETUPNW does is to prepare to format drive F, the silicon disc. Then the program pauses to await one's instruction to continue with the formatting or to abort. One could, I assume, use XSUB to give the necessary <CR> automatically, but there are occasions when one does want to abort, after a reset to clear a lock-up for instance. After the formatting, which takes hardly any time at all, the NW program and overlays are copied to drive F; control is switched to drive F; Newword is loaded and as the sign-on text has been set with the installation program to come on for one millisecond only we are quickly faced with the opening menu and are ready to go to work. From the insertion of the disc to the opening menu is about 1' 12".

With Newword a file on another drive can be called simply by putting the disc identifier in front of the file name, but if one does this from drive F; all the file handling takes place on the other drive's floppy disc and one loses the benefit of the speed of the silicon disc. To work on an existing file one should copy it to drive F; and copy it back to floppy disc when one has completed work on it.

I use drive C: to hold a disc with a library of files. If I am writing a book the completed chapters are held on the disc in drive C. To summarise, the applications program, utilities, and temporary files are on drive B, all work is done on drive F, and permanent files are on drive C.

I have another work disc which holds Supercalc. With Supercalc one can load a file straight from a library disc without copying; all one has to do is to prefix the file name with the drive identifier, and the same with saving the amended CAL file. So to save my file "BUDGET.CAL" I will type /S(ave) c:budget.

If there is any problem making a SUBMIT program work, erase and retype. Like STARTUP the programs are temperamental until one gets them right.

If one has 1 meg (80 track) drives one can still read and write 500K (40 track) drives, although the manual gives the impression one can only read them. Assuming CONFIG.COM is resident on your active drive just type after the prompt > CONFIG C:03 <CR> and drive C becomes 40 track. But to write to a disc you must format it for 40 track by putting it in drive C and formatting it there. Unfortunately it took me months to discover I could write to 40 track discs as well as read them.

YOUR LETTERS

Questions

1. Could we have more information about the new range of equipment and advice on the best growth path from my humble original 64K 512. This is still doing sterling service thanks almost entirely to the Brunword word processing package. What I really need is a disk drive, more memory and better software in the form of a more sophisticated WP package and especially a decent spreadsheet on the lines of LOTUS 1-2-3 & Supercalc.

Mr A. Morris, Bristol.

Ed->Upgrading a computer is always very difficult, you have to weigh up what you would like and then trade things off against how much you can afford. Also it is always easy in hindsight to say "oh, I wish I'd bought something else".

You can upgrade your MTX 512 in several ways, but really if you want a good wordprocessor you must go for an 80 column screen and a good monitor. As far as the MTX goes this means you must have a CP/M system. This in itself nullifies the need for more memory, as CP/M 2.2 which comes with the MTX disc systems only supports 64K of memory. When you use the wordprocessor the parts of your document you wish to edit are swapped between disc and memory thus allowing you to have large documents, usually you have about three A4 pages in memory at one time, swapping takes a few seconds when you use floppy discs. This really leads to another good point that if you buy the new 3.5" system you get a 500K silicon disc, this is a disc which is logically made up in memory and as such, is lightening fast and well worth having if you use the WP a lot.

On the spreadsheet front you get Supercalc as standard, this is good as far as it goes, but it is a long way short of LOTUS 1-2-3. I believe you can get Supercalc 2 for the disc systems which would take you a little closer.

On the hardware front it is worth remembering that you have to budget for a monitor or TV that is capable of supporting RGB input.

I find the screen update speed when I'm using SC to be very slow, especially when scrolling, this is the fault of the 80 column board which is now a bit out of date, compared with new standards. All you can really say to justify putting up with it is that you pay for what you get.

Having not really committed myself so far in this reply to Mr Morris, I think a 3.5" system with CP/M is the best Memotech have to offer if you can afford it. You may consider the money you can save, by buying an older style system from one of the vendors selling kit with only limited warranty, to be worthwhile, but please do not complain about paying for maintainance, when they do go wrong.

2.Thanks for the two Library disks. Unfortunately I cannot reconfigure my 1Meg drive in any other way than ROM 03; at least there isn't any way described in my manual. Do you or does anyone else know of such a way?.

Ed-> Well, this is the first time I have come across this problem, and not knowing exactly what the machine configuration is, I cannot offer a definite solution. I would think it is possible to alter your configuration to any other configuration, the only way I know of to do this is to use the CONFIG.COM program. To make a drive 500K the command including parameters is:-

CONFIG C:03

This does bring up another problem which has been showing its head of late, members with 1Meg drives have been sending me discs which they have formatted as 500K, which in theory I can use as normal. In practice they give me a lot of trouble, one minute data appears to be ok, the next all I can get is BDOS errors. Other members experiences would be gratefully received.

3.I purchased a 3.5" disc system back in September and have found the system very good. The documentation for Newword & Supercalc is good, but more information is required on the use of the silicon disc drive, and disc Basic. I have experienced problems with loading/saving of Basic programs. Whilst most programs appear to save faultlessly, others will not load properly. It seems to be a bit of a hit and miss situation! I have made a couple of 54K system discs, but each one hic-ups on the same programs. I'm convinced it is not a hardware problem, as CP/M works like a dream and the majority of my Basic and assembly programs have saved first time. I would be interested to know if any other 3.5" FDXB users have experienced any such difficulties.

Paul Brookes. Southsea, Portsmouth.

4.I have spent many hours trying to program the CUSTOM PRINT fonts of Newword to operate italics and other fonts on my printer (Epson MX and FX). Can you, or any other of the members help?.

Ed-> We printed the solution to this in Vol 2 Iss 6.

Answers

Geoff Gardiner has this to say about the Ascii to Newword program published in a previous issue:-

I do hope you will forgive me for this one:- Unless I have totally misunderstood what you are up to I think your problem over Newword and Ascii files would never have arisen if you had installed Newword with non-justify as the default (as I have). Use VDEB to display the Ascii of a Newword file and you will find that in non-justify mode the file is all Ascii. It is only in justify mode that 80h is added to the byte preceding a space. Obviously the program uses the setting of bit seven to tell where the word ends. Files can be converted from on form to the other by putting the .ojon/off command at the beginning and then CNTRL Q B to align the whole file. Sorry, but it seems to me that your beautiful BASIC program is unnecessary.

...Nevertheless your program is most useful as a masterly example of the use of DISC BASIC. I found the manual very obscure and a few simple explanations of its use would be very welcome. Once understood the file handling commands must be very useful. One also needs an explanation of those remarks in the manual about DISC BASIC being more user friendly, and just what does that comment about LET and GOTO statements being optional mean?.

Ed-> Thanks for the info about Newword, every month I seem to find something new about it, it really is such a useful tool for the club, I don't know how long everything would take without it.

The LET and GOTO being optional in DISC BASIC means that you do not have to type them

Two Reviews By Phil Eyres

Title: ASTRO PAC AUTHOR: A.KEY
Machine: MTX
From: CONTINENTAL SOFTWARE
Price: £7.72 RRP £7.00 MOC

The program loaded well in about 45 seconds, after the usual Continental screen had appeared.

This is a good game reminiscent of all Andy Key games. The graphics are large and not at all complex, so would probably suit an 'average' or 'new' games player.

As with all 'zap-em' games, you have several levels of play (8 in all), lots of obstacles and things to zap and collect. As you proceed you collect treasures, fuel cannisters, radioactive material etc, for your continuing journey.

This all happens in a rather basic predictable fashion, all your 'goodies' slowly sink down from the top of the screen and all the 'baddies' zoom across in front of you. The screen works on a scroll type action whereby if you go off the right you come on to the left, your shots have the added effect of disappearing off the right hand side and appearing on the left, zapping some innocent baddies.

Conclusion

The quality of graphics/sound/features is not as good as Andy's latest games, but it is still very good and should provide several hours of enjoyment for the average games player. The sound does go on a bit, so is probably best turned off.

Graphics, Sound and Playability 7/10

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Title: ADVANCED GRAPHICS DESIGNER AUTHOR: J.GRAYSON
Machine: MTX512 AND SDX 5.25" SYSTEMS
From: GRAYSOFT
Price: £15.85 DISC & 13.99 TAPE.

At last we have some new software!, it comes in the form of an Advanced Graphic Designer. As there is already in existence a graphics generation package in Memosketch, I will were possible compare the two.

Firstly, the package is available in two versions, disc based and cassette based. To use the disc based version you need to have an SDX system that uses ROM 3 to get into

disc basic, this is because you will be needing the full 64K machine to run the program. The cassette version will run on any 64K machine. This does exclude FDX systems from the disc version as they only have 32K memory available in disc basic.

The review is of the disc based version which I had the pleasure of using for an evening the other day. The program is split into several files and initially takes a fair while to load. Once loaded and into the drawing area you can start to make use of some of the many commands you have available via the keypad and function keys, these include all the usual drawing functions and the ability to rub them out, you also have the ability to fill, copy, mirror, invert or reverse shapes.

Although some of these features took a long time to complete their drawing activity on the screen, they were visually accurate and enabled you to do all the things you could not do with Memosketch. I think it is also important to point out that the drawing area has been designed such that circles appear true on screen and very nearly true on paper. A status panel on the right of the screen shows which options are currently in use and where the cursors are. A really good feature is that if you move the cursor anywhere near the status panel, the panel will be moved to the left of the screen out of the way.

Conclusion

This review is really to brief for a package of this size, which has taken some 7 months to program. All I can say is that the program behaved perfectly the whole time and had many useful features.

It is, in my opinion much better at drawing than Memosketch, which had some nice features, but was all but impossible to use because picture generation was so slow. ADB is not the last word in graphics packages, but then again the Memotech is not the last word in computers.

Disc Utilities

By

Paul Brookes, Geoff Gardiner & Phil Eyres

The biggest problem which I faced initially with the 3.5" disc system, was copying the system discs, since this involved tediously copying each file using the COPY command. Now that I have gained some experience with the set up, I have found a way of copying the discs in one go. This is outlined as follows:

Insert system disc.

A>frmdsx b: <RET>

Follow prompts.

(Insert blank disc; then insert system disc when finished)

A>sidfmt f: <RET>

A>syscopy f: <RET>

a>pip f:=*.* <RET>

At the A> prompt remove system disc and insert formatted disc.

A>pip b:=*.* <RET>

End of routine.

...And to take this a little further

I have used STARTUP to modify the startup routine. It now starts by calling SIDISC, and then CONFIG B:07,C:07,F:43. Finally it calls SETUPNW and hands control to it. As all the components of the SUB file are straightforward calls to standard utilities there has been no need to use ENTER. The first item is FORMAT F:. I suppose I could have used ENTER to provide the CR in response to the message FORMAT emits but I preferred to have the option not to format F. For instance one would not want to format after a reset. So after FORMAT F: is called I have to respond with a CR to go ahead or a CNTRL C to abort. After the formatting the program pip's the NW program and overlays to F, and calls Newword. So 1 minute 12 seconds after inserting my work disc I am ready to start work having pressed only one key. I do not use the V or O options with pip because the first slows things down to no proved benefit and the latter is in this instance unnecessary.

A couple of other points to add:-

1. Concerning disc copying, the method above is the easiest method I know of for copying a disc on the 3.5" single physical disc machine. The only warning is to make sure that the silicon disc does not have anything of interest on it before you start, as it will be lost during the format. (It sounds silly, but I've lost data like that before now!).

2. Probably many members have been using the SUB files over the last few months as we published them. If you use the ENTER command in the SUB file and the machine corrupts half way through the procedure, your STARTUP file will be corrupt, so you can no longer start up the machine with that disc. To cure this you need to use the STARTUP.COM program to make startup as it was before. If you startup on a good disc you can see that this will be something like calling SIDISC and then CONFIG. (This fault happens on my machine sometimes when it is cold, and it can be a pain remembering the syntax of STARTUP, so when you get it to work - write it down!).

PROGRAM LIBRARY
£1.20 Per Cassette, 2 Programs per Cassette

This month we have an Elements program and an update to the DBase program that I wrote in about 6 articles in the magazine. Remember that reviews of all the programs are available, just send in an A4 stamped addressed envelope.

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!!).

---- Diskette Three ----

62.Account	The Third Money Manager
63.Mastermind	Another Good Game
64.Connect4	Two Player Game
65.Journey Into Danger	Adventure Game
66.Connect4 Version 2	As for number 64
67.MTX DRAWv1.8	As for number 6
68.Patience	Card Game
69.Life	Curious Puzzle
70.Enigma	Like Mastermind
71.FKEY	Function Key Definer
72.Skydiver	Graphical Game
73.Digger	Graphical Game
74.MPG	Calculates MPG
75.FIG-FORTH (Cass)	RAM Disc
76.Optics/Colours	Educational Programs
77.Elements ***New***	Educational Programs
78.Dbase3 (Cass)***New***	Database

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!!)
- 8.SDX Disc Review.

4. CP/M Programs/Utilities

(!!! Available only on 5 1/4" disc !!!, please send in a formatted disc (stating capacity) for each item and enough postage to cover - £2.50 per disc).

- 1.A simple mail label system for up to 3 across labels, written in EBasic. Disc includes Ebasic compiler and run-time program. Consists of a suite of half a dozen programs. Includes a sort routine.

2.PLOT33 A new graphics plotting package for Turbo Pascal owners. Create and print your own graphics. Set up for DMX type printers but will support most others. Must be seen to be believed. Please ensure you have at least two weeks free when ordering this one, you'll need it!!.

3. Z80.ASM This is a Z80 assembler to replace the ordinary CP/M assembler which uses the 8080 mnemonic command set. Z80.ASM supports all the features of the notable Ed/Asm, especially macro libraries and a slightly more standard Z80 mnemonic command set. The disc also contains a Z8 assembler.

4. SMALL C COMPILER. This is from the Swiss user group, it is however written in English so easily understandable. You will need to buy a Tutorial to use it, but even so it offers unbeatable value for money.

5. BASIC-E PROGRAMS. All the 'good old' text style games, originally designed for teletype style displays, non-the-less some good games. 10 games in all, including Startrek. Disc includes Basic-E compiler and Run time program. Also included are several .PIC files with interesting pictures to print out - including a PINUP.PIC file, I wonder what that could be a picture of?? a drawing pin!!maybe?

5. Program Reviews

77. Elements - Alan Ayre

This is the last in a suit of three programs by Alan on an educational theme. (Colours and Optics reviewed last month).

This program will:-

- 1 Show the periodic table and allow you to interrogate each element. (The table is shown visually broken down into Metals/Non Metals and Transition Metals).
- 2.Allow a comparison of properties.
- 3.Allow the data for each element to be viewed and printed.

This program is very large, and contains lots of useful data.

78.Dbase III - Updated by Alan Hamilton

This program is an enhanced version of the program previously published in several parts in the magazine. It is now really good with changed menus and help screens.