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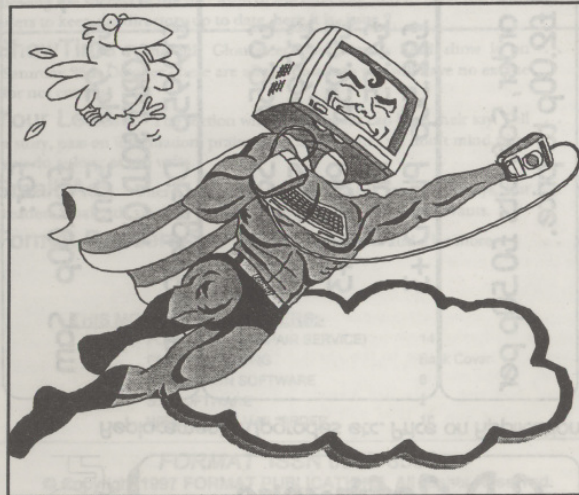


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October 1997.

FORMAT

THE HOME OF Z80 COMPUTING



**FORMAT - THE SUPERHERO
FOR YOUR COMPUTER**

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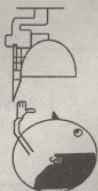
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NEWS ON 4

RICHEST MAN IN WORLD - AND ITS ALL DOWN TO COMPUTERS

The computer industry may still be very young as industries go, but it has just acquired a new distinction, that of creating the richest man in the world.

Yes, Bill Gates, founder and boss of Microsoft in the USA, has now officially earned the status of the richest man in the world - beating the former title holder, the Sultan of Brunei, by a cool £1billion, with a personal fortune set at £26billion.

Gates, at only 41 years old, had topped Forbes magazine's '400 richest Americans' list for the last four years, the famous Donald Trump being a mere pauper by comparison with a nett wealth of only £850million getting him to 115th place on the list.

Just goes to show you what a little bit of programming can do for you if you get to be in the right place at the right time.

WETHERBY DOWN, BUT NOT OUT

Early reports show attendance was down at the Wetherby show near Leeds in September - mostly due to the short notice given for the event.

However, fear not, there are already plans for another one in 1998 and this time the organizers are promising more notice. Although we have not been given the date yet, rumour has it that it will be in February. We will let you know the exact date as soon as we have it.

A QUART INTO A PINT POT

The old adage is that you cannot get a quart into a pint pot, but you try telling that to Quazar.

They have come up with a way of

compressing 16bit sound samples using a modified ADPCM (Adaptive Differential Pulse Code Modulation) technique similar to that used on PCs, to achieve an 8 to 1 compression. This allows 3 minutes of 16bit sound to be played on SAM with a sampling rate of 11kHz with real-time decompression during playback. Without compression there is room for only 22 seconds of sample in memory.

For more details contact Colin Piggot at Quazar or come along to the Gloucester show on the 25th October and see (hear?) for yourself.

FASTER INTERNET

Norweb, one of Britain's biggest electricity companies, has announced its intentions to move into the Internet Service Provider (ISP) field. It plans to use new technology it has developed that uses the electrical distribution system to carry the modem signals at up to 30 times the rate that the current telephone system can cope with.

Until now 'noise' on the system was a major problem but Norweb have now found a way round this.

Norweb say that the new technology will also allow them to provide local telephone calls for a simple one-off monthly payment.

YOUR NEWS HERE...

Come on readers, we need your news. Anything related to computers which you think will interest other SAM and Spectrum owners. Just jot it down on a piece of paper, add your name and membership number, and send it off to us at the usual address. Please mark the envelope 'News' so that we can give it the priority it deserves.

Remember, you get three months extra subscription for every news item we print, so don't rely on others to send in an item you have seen - send it off yourself and earn our thanks as well.

The Editor Speaks

October already and this issue has to be at the printer chappies yesterday so they can get it printed and trimmed and back to us so that we can get it packed and sealed and addressed labelled and sent out to you all in time so that you can all get it before the Gloucester show on the 25th October 1997 so that you will not have any excuse for missing the show will you....

Phew! Got that out. As you can see, I've got to work quick this month - still it does help us to catch up a little. I do promise we will get back to posting **FORMAT** out early in the month - soon.

Right then, the Gloucester show is the big thing this month, hope lots of you will be able to make it. The shows are a chance to meet people as well as the ideal place to see all the software and hardware for your favourite machine. It's hard to believe, but this is the ninth show we have held and I'm sure it will turn out to be the best.

This month also sees the second edition of our Spectrum & SAM Resource Directory. We held it over from last month because: we did not have room for it, we had to chase some entries that had not been returned on time, and because we thought October (with the show) would be a better month for it anyway. The first issue, last year, was very well received and we hope you will find the updated version even more useful.

Speaking of last month, both Jenny and I would like to thank all of you who took the time to ring up to congratulate

us on **FORMAT**'s tenth birthday. Your telephone calls, and the many letters we received, were very heart-warming, it is nice to know so many of you enjoyed the special birthday issue. On the subject of letters, I would be very interested in hearing from readers about how they first came to hear about **FORMAT** and subscribe to INDUG, about what you like in **FORMAT** and what you don't.

Of course, as I should have expected, Jenny's bit last month caused the most titters. Considering I dropped it on her with no notice whatsoever, and told her she had just one hour to fill a page - I was very pleased with the result (ok, she took nearer two hours, but it was worth it). I promised not to censor her efforts (I know, I'm a fool) but she was kind and did not insult me too much.

Roy Burford, a regular contributor to **SHORT SPOT** had an interesting letter published in the Telegraph's Connect weekly computing supplement on Tuesday 7th October. He was defending the ZX81 (and others) from claims that it was "utmost lunacy" to own such machines. Well done Roy, you told 'um.

And to finish off. Congratulations to Jon Nixon, the artist who does most of our front covers, who has just moved to Amsterdam for his new job. He will still be doing the covers for us although I'm not sure as I write this if he will get one to me in time for this issue, if not, normal service will resume next month.

Until next month.

Bob Brenchley, Editor.

SAM GAMES AVAILABLE FROM REVELATION

SOPHISTRY

Our latest & BEST licenced game. Originally produced for the Spectrum by CRL, and now brilliantly converted for SAM, Sophistry is a game that is big, perplexing, colourful, frustrating, musical, bouncy, and above all DIFFERENT (and it even has the Spectrum version built in so you can take a trip down memory lane).

£9-95 (£8-95 to INDUG members)

TNT

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Loosely based on Bomb Jack (the game SAM owners have most requested over the years). As well as the normal one player game, TNT has gone one better by giving you TWO player action - competing against each other, in full glorious technicolour - at the same time. It even has a novel feature in a SAM game - a High Score Table, how many others have that?

Avoid the meanies, collect the bonus points, Jump, Hover, Fly - what more do you want???

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The legendary game at last available on SAM disc. Using the code of the Spectrum version, long thought the best after the original BBC version, this game is a must for everyone who loves action and adventure. Full manuals, story book and packaging.

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GRUBBING FOR GOLD - the most advanced, the most playable, the most enjoyable quiz game since the legendary Quiz Ball. They said it could not be done - they said bringing a TV quiz show to SAM would not work. Well let them eat their hearts out because YOU GOT IT....

Hundreds of questions, on a wide variety of subjects at levels to suit most people, it includes a question editor so you can create your own sets of questions. This is the game you can never grow out of.

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More Games Coming Soon

Send SAE for full list of available games.

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Now Includes FREE Copy Of DRIVER's Extras Disc 1

DRIVER's Extras Disc still available for existing users at £5.95 (INDUG members £4.95)

SCADS PD Yes, at last, we are pleased to re-release SCADS - the arcade game development system for SAM. Previously sold by Glenco at £24.95 we have now placed the software into the Public Domain so the disc costs you Only £2.50. The full manual (over 200 pages) is also available for £12.95 (overseas please add an extra £1 to postage rates below because of weight)

* All prices include UK postage and packing (Europe please add £1, other overseas please add £2).

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SHORT-SPOT

YOUR HINTS, TIPS AND PROGRAMMING IDEAS

Edited By:- John Wase.

It's October, and once again, time for Short Spot. It's difficult, this month, as I'm running short of material again, although as luck would have it Bob only wants four pages this month. But please, be good to me, *send me some stuff NOW. PERLEAZE!*

The first item is from Peter Williamson of Sleaford, of 'Diary' fame - you remember all the hoo-hah over KEYIN, don't you. Anyway, here, just to stir things up quite a bit more, is a new program for SAM, again submitted by Peter, and again using the KEYIN command. This particular program is a gem for programmers, because the idea is to check an existing program to see what variable letters have been used. This is particularly useful if you want to add a subroutine to an existing program.

Peter usually names his variables with single letters - A, B or C and so on. This snippet checks whether variables A to Z have been used. It checks numeric variables, then numeric arrays, followed by strings and finally string arrays.

Normally, if one types in PRINT A, or PRINT A\$ and the variables have not been declared, then an appropriate error message appears on the screen, and one can use this action to check out any variable name. This program effectively does this for the whole alphabet of variable names, using the ON ERROR GOTO command.

In use, the program, called 'checker' is merged with the program under review. The line numbers of 20000 upwards should ensure that merging programs do not overwrite any lines. RENUM LINE ~~xxxxx~~ can, however, be used to set the

program to any sequence of line numbers. In this case, line 20200 does not correctly re-adjust to the RENUM command, and the KEYIN line number in inverted commas must be set to the line number after the ON ERROR command.

Line 20010 sets up the screen for MODE 3 operation, but this is only for Peter's own use. The line can be left out and the program will adapt to whatever mode the program merged to uses.

One interesting point came out in Peter's tests with the program. As you know, a variable named, say, A can co-exist with a program with an array also named A, but a string A\$ cannot do so with a string array of the same name. This shows up on the program when a string, say A\$, is present. It will print out in the string section (sounds like an orchestra), but will also show up in the string array section.

Now here's 'checker'. It's good: get typing!

```
20000 REM VARIABLES IN USE
      "CHECKER PROGRAM"
20010 MODE 3: CSIZE 8,10: BORDER
      1: PAPER 1: PEN 15: CLS
20020 LET TENANTS="ABCDEFGHIJKLM
      NOPQRSTUVWXYZ"
20030 PRINT "VARIABLES IN USE CH
      ECKOUT"
20050 FOR XYZ=1 TO 4
20060 IF XYZ=1 THEN PRINT "NUMER
      IC VARIABLES": PRINT
20070 IF XYZ=2 THEN PRINT "NUMER
      IC ARRAY VARIABLES": PRINT
20080 IF XYZ=3 THEN PRINT "STRIN
      G VARIABLES": PRINT
20090 IF XYZ=4 THEN PRINT "STRIN
      G ARRAY VARIABLES": PRINT
```



```

21000 FOR XXX=1 TO 26
21010 IF XYZ=1 THEN LET HOST$ = "
PRINT INVERSE1;0;"
21020 IF XYZ=2 THEN LET HOST$ = "
PRINT INVERSE1;0(1);"
21030 IF XYZ=3 THEN LET HOST$ = "
PRINT INVERSE1;0$;"
21040 IF XYZ=4 THEN LET HOST$ = "
PRINT INVERSE1;0$(1);"
21050 LET HOST$(16)=TENANT$(XXX
)
21060 IF XYZ=1 THEN PRINT "NUMER
IC VARIABLE ";HOST$(16);
21070 IF XYZ=2 THEN PRINT "NUMER
IC ARRAY"; HOST$(16 TO 17)
+ HOST$(19);
21080 IF XYZ=3 THEN PRINT "STRIN
G VARIABLE "; HOST$(16 TO
17);
21090 IF XYZ=4 THEN PRINT "STRIN
G VARIABLE "; HOST$(16 TO 18)
+HOST$(20);
20220 KEYIN "20220"+HOST$
20210 ON ERROR GOTO 20290
20220 PRINT INVERSE 1;Z$(1);
20240 PRINT " "; PEN 2; INVERSE
1; " IN USE "
20250 NEXT XXX
20260 PAUSE 0: CLS: NEXT XYZ
20270 STOP
20290 PRINT " "; INVERSE 1; "
NOT IN USE "
20300 GOTO 20250

```

You know, life can be very trying - and very serious. In this day and age, when our every second is counted at work, one longs for something to break the monotony. I could do with some real sillies; preferably with some idea as to how they work.

One very simple one is to type something silly on your Spectrum. Like:-

```

10 FOR A=1 TO 9E9
20 PRINT "JOHN WASE IS WONDERF
UL": PRINT: PRINT
30 POKE 23692,255
40 NEXT A

```

And it will carry on printing for ever. The answer, as almost all of us know, is that it does not stop when the screen is full: indeed, since we have POKEd the system variable 'SCR CT' with 255

instead of the default 1, you will get 255 screens or thereabouts. Or would, were the whole thing not in a loop. Because of this it goes round and round, continually POKeing the system variable with 255, so it will carry on printing to the screen until you press the 'Break' keys. All right; then let's for instance, have a routine that is very short and *won't* let the break keys work. This sort of thing should give you all sorts of silly ideas, shouldn't it. C'mon; let's have some!!! Let's break the monotony! Don't let them get you down! Send some for next month!

Next, I have a little snippet from Ettrick Thomson of Grundisburgh, Woodbridge, Suffolk, who wrote quite a while ago, but his letter got caught up in all that honeymooning stuff, and so has been a little late in being printed. Better to have kept it back, however, for, as I mentioned, I've next to nothing this month and nothing at all for next!

Ettrick writes that he once thought he had managed to work out how to use VAL\$ in SAM, but was wrong! He is therefore very grateful to Geoff Bridges in his version of 'Diary' for showing how it can be used. He is wrong, however, in saying that VAL\$ does not work in a LET statement, but you must remember that a LET statement must be of the form:-

LET <name of variable> = <an expression whose value is to be assigned to the variable>.

So you could have:-

```

LET a$+ VAL$( "d"+STRING$(3-LEN
STR$ dn,"0");

```

but this doesn't help in the 'Diary' program. Line 460 uses STRING\$(3-LEN STR\$ x,"0")+STR\$ x to get STR\$ x as 3 digits with leading zeros if necessary; here is a trick that is neater: use (STR\$(x+1000))(2 TO).

Many thanks, Ettrick, and I hope that I now have your address right!

Dean Shepherd of Bristol, a contributor, I think, new to us (bless you, Dean, for saving the day) has written to mention that he encloses a disc containing some items which, he says, might (just) be of interest to me! Not half! Just listen to this! Dean writes that he has tried to include those which he thinks might be of general interest to **FORMAT** readers, but his own interests during the last decade have tended towards typing in and saving lots of Basic and machine code programs from the huge number of magazines which he collected between 1986 and 1993. He does not have them all (I should think not), but to anyone seriously into Spectrum and SAM from a novice point of view, Dean is certain they would regard his collection as treasure trove. And so do I, Dean, for this is just the sort of thing that readers find so useful.

The first program Dean's sent me is called 'labeller', and will print out a small label for you to stick on your 3¼" or 5¼" discs. (Ere we go, folks - this is where I get inundated with letters from folk who don't completely understand the control codes on the printer Dean is using, and can't work out the control codes on the one they have, either!) It caters for a maximum of 80 files; it was written in 1987, and is limited more by physical space than anything else) but at least it works.

Regrettably, Dean has not been able to use it since he changed from GDOS to Uni-DOS in 1990, but this program worked well then, and he cannot think of any reason why it should not work now for GDOSers, as it were. Unfortunately, Dean writes, he has no talent for programming, and has therefore been unable to convert this to Uni-DOS operation, although he has tried. He has ideas for a SAM version, too, but he stumbles because he does not understand the machine code section. Hugh McLenaghan, who was the person

behind the 'Hack Zone' some years ago in **FORMAT**, gave Dean this program, and his name is in the REM at the beginning. Just in case anyone is interested, Dean mentioned that Hugh got his PhD in computing, and the last Dean heard was that he had gone to live in the United States. Here, then, is 'Labeller':-

```

10 BORDER 0: PAPER 4: CLS
20 PRINT AT 10,8; FLASH 1;" LA
BEL MASTER "; FLASH 0
30 INPUT "drive number : ";i
40 IF i<0 OR i>2 THEN LET i=1
50 CLS : CAT i!
60 INPUT "Label this disc? Y/
N ";i$
70 IF i$="n" OR i$="N" THEN CL
S : GOTO 30
80 IF PEEK 65000<>22 THEN GOSU
B 820
90 RANDOMIZE USR 65000: REM d
ir at 40000
100 LET a$="DISCIPLE/H.McLENAGH
AN - LABELMASTER - ©1989"
110 LET b$="-----"
"
120 LET c$="-----"
130 REM initialize printer
140 CLS : PRINT AT 10,6;"PUT PR
INTER "; FLASH 1;"ON-LINE";
FLASH 0
160 POKE @6,1
170 LPRINT CHR$ 15: REM condens
ed
180 LPRINT CHR$ 27;CHR$ 83;CHR$
1: REM subscript
190 LPRINT CHR$ 27;CHR$ 51;CHR$
16: REM 16/216 linefeed
200 POKE @6,0: CLS
210 LET adres=40000: DIM n$(80,
16): LET tel=0
220 FOR p=1 TO 80
230 LET a=PEEK adres: IF a=0 TH
EN GOTO 360
240 LET t$=("B" AND a=1)+("N" A
ND a=2)+("L" AND a=3)+("C"
AND a=4)+("s" AND a=5)+("M"
AND a=6)+("S" AND a=7)+("X"
AND a=8)+("S" AND a=9)+("
O" AND a=10)+("E" AND a=11)
250 LET p$=STR$ p
260 LET n$(p,1 TO LEN p$)=p$: L
ET n$(p,14)=t$: LET n$(p,3)
="."
270 FOR f=1 TO 10

```



```

280 LET i$=CHR$ PEEK (adres+f):
   LET i=CODE i$
290 LET j$=("~" AND i$="#")+("~"
   " AND i$="#")+("~" AND i$="
   ~")+("~" AND i>127)
300 IF j$="" THEN LET j$=i$: LE
   T j=CODE j$
310 IF j>90 THEN LET j$=CHR$ (j
   -32)
320 LET n$(p,3+f)=j$
330 NEXT f
340 PRINT AT 10,7;n$(p): LET te
   l=tel+1
350 LET adres=adres+256
360 NEXT p
370 DIM m$(tel,16)
380 LET a=1
390 FOR f=1 TO 80
400 IF n$(f,1 TO 2)<>" " THEN
   LET m$(a)=n$(f): PRINT AT 1
   2,7;a: LET a=a+1
410 NEXT f
420 INPUT "Sort ? Y/N ";i$
430 IF i$="y" OR i$="Y" THEN GO
   SUB 650: GOTO 440
440 INPUT "3.5" of 5.25" la
   bel ";i$
450 IF i$="3" THEN LET x=3: GOT
   O 470
460 IF i$="5" THEN LET x=4: GOT
   O 470
470 REM etiket
480 POKE @5,255: LET a=1
490 IF x=3 THEN LPRINT a$: LPRI
   NT b$
500 IF x=4 THEN LPRINT a$(1 TO
   37);c$;a$(38 TO ): LPRINT b
   $+c$
510 FOR p=1 TO x
520 LPRINT m$(a);: LET a=a+1: I
   F a=tel+1 THEN GOTO 560
530 NEXT p
540 LPRINT
550 GOTO 510
560 IF x=3 THEN LPRINT : LPRINT
   b$
570 IF x=4 THEN LPRINT : LPRINT
   b$+c$
580 POKE @6,1
590 LPRINT CHR$ 27;CHR$ 84
600 LPRINT CHR$ 18
610 LPRINT CHR$ 27;CHR$ 65;CHR$
   12
620 POKE @6,0
630 FOR f=1 TO 5: LPRINT : NEXT
   f
640 GOTO 10
650 CLS : PRINT ; INVERSE 1;"SO

```

```

RT...on ; "; INVERSE 0
660 PRINT "'1 = filename"
670 PRINT "'2 = filetype"
680 PAUSE 0
690 IF INKEY$="1" THEN LET i=4:
   LET j=13: GOTO 720
700 IF INKEY$="2" THEN LET i=14
   : LET j=14: GOTO 720
710 GOTO 680
720 PRINT " TAB 4;tel; TAB 7;"
   files on this disc."
730 FOR a=1 TO tel
740 FOR b=a TO tel
750 IF m$(a,i TO j)>m$(b,i TO j
   ) THEN LET q$=m$(a): LET m$
   (a)=m$(b): LET m$(b)=q$
760 NEXT b
770 PRINT AT 10,4;a; TAB 7;" fi
   les sorted."
780 NEXT a
790 BEEP 1,10
800 RETURN
810 STOP
820 FOR f=65000 TO 65066: READ
   g: POKE f,g: NEXT f
830 DATA 22,0,33,64,156,30,1,21
   3,229,205,29,254,207,63,225
   ,209,218,16,254,36,36,28,12
   3,254
840 DATA 11,56,236,20,122,254,4
   ,56,228,33,214,27,205,29,25
   4,201,50,28,254,33,214,27,2
   05
850 DATA 29,254,219,187,231,0,1
   ,195,26,183,237,66,219,187,
   34,210,26,211,187,201
860 RETURN
870 STOP
9999 CLEAR : SAVE d*"LABELLER" L
   INE 10

```

Oh, and if anyone manages to convert this to a Uni-DOS version, and/or a SAM version, please let Dean know. And we would love to have some more from you Dean. Many thanks.

Please keep all your snippets coming to me; without them I can't put a column together. Please send them to:-

John Wase,
Green Leys Cottage,
Bishampton,
Pershore,
Worcs,
WR10 2LX.

See you next month.

MINEFIELD

A step by step guide to writing a C program using SAM C.

Part 1.

By:- John Eyre

To really understand how to program in C, you'll need a good tutorial or reference book. They are usually pretty thick, cost an arm and a leg and are unlikely to make good bedtime reading. Fortunately it's possible to produce quite useful software knowing only the basics of the C programming language.

This series of articles is not intended as a tutorial on the C Language or on how to program, it is a step by step guide to the development of an example game using SAM C. It's written around the standard version of SAM C, not SAM Vision. I won't start from absolute scratch but will assume that you already know a little about C, from reading the SAM C manual, and are familiar with programming using something like SAM Basic.

Before starting on the game, just a few points on some common problems experienced with C that are worth a mention. C somehow manages to combine most of the advantages of a high level language with the flexibility and direct access of machine code. At first C may appear very confusing but you can get a long way knowing just a few simple rules. Most of the control structures and there are not many, follow the form:-

Keyword (condition(s))

```

{
   executable statement;
   :
   :
   executable statement;
}

```

The curly braces '{' and '}' are used to identify the start and end of the block of statements to which the keyword applies. If there is only one executable statement then all that's needed is:-

Keyword (condition(s))
executable statement;

The ';' is used to separate executable statements but not the Keyword from it's associated statement(s).

I mention this because the most common error when first learning C is forgetting to put ';' at the end of a line or using it when it's not required. Another common mistake is not matching up opening and closing curly braces. A single omission can cause a large number of error reports from the compiler which then inserts error messages in the source code. If you forgot to save before compiling, the messages will have to be individually deleted so it is worth the effort to check before compiling.

One way of making it easier to check the source code text and identify problems is by using a clear layout with a consistent indenting policy. The system I've adopted and will use throughout this article is a single character space indent, with opening and closing curly braces on a separate line and each statement given its own line. It looks long winded but it pays dividends in the end.

Finally beware of '=' meaning assigns and '==' which means equal to.

When starting a new program, I

| | |
|--|---|
| COMPANY : West Coast Mail Order. ADDRESS : 7, Format Publications, 34, Bourton Road, Gloucester, GL4 0LE. CONTACT : PHONE : 01452 412572 | PRODUCT/SERVICE : The mail order division of West Coast Computers - the manufacturers of the SAM computer and peripherals. |
| COMPANY : Z2 Publications. ADDRESS : 3, Station Road, Stockport, Cheshire, SK12 5BP. CONTACT : Mat Beal. PHONE : 01663 743397 | PRODUCT/SERVICE : Z2 fanzine - A5. Bi monthly for Speccy only. Also Software publication in the form of the FISHPASTE compilations. |
| COMPANY : Zenobi Software. ADDRESS : 26, Spotland Tops, Cutgate, Rochdale, Lancashire, OL12 7NX. CONTACT : John. PHONE : Not available. | PRODUCT/SERVICE : Write, produce and publish adventure games for the Spectrum range of machines. Also produce 'Spectrum-emulations' of these games to suit the following other formats....MAC, Amiga, PC and Atari. |
| COMPANY : Zodiac Magazine/Zedd Soft. ADDRESS : New House, Holbear, Chard, Somerset, TA20 2HS. CONTACT : PHONE : 01460 62118 | PRODUCT/SERVICE : Zodiac Magazine: Bi-Monthly, SAM only, paper based magazine featuring all the latest news, reviews, previews and features. Zodiac PD: SAM's second largest PD Library. Zedd Soft. SAMs only budget Software label: VOID (SamCo Compilations) Joy-stick Power. |

In constructing this directory we sent out entry forms to many companies whose addresses we had gathered over the last few years. However, quite a few did not return their forms and, although we believe many of them are still in business, we are unable to include them in this directory. Of course, we have tried our best to ensure that the data contained in this directory is correct at the time of going to press, we will not be held liable for any errors or omissions however they have arisen.

If any reader finds an error then please let us know, by writing to Format Publications at the usual address, so that we can make corrections in the next issue of the directory. Likewise, if you know of any company that you feel should have been in this directory but is not, then let us have details of the company's name and address and we will try and solicit an entry for the next issue of the directory. Sadly, in reply to the same request last year we only received a handful of letters - come on readers, there must be many more companies we are missing at the moment. Tell you what, as an incentive, we will put any letters we receive telling us about new companies (who subsequently appear in the next directory) into a hat and we will draw two winners who will each receive a *FREE* years subscription to **FORMAT**. As well as Spectrum and SAM software/hardware companies, we also want to know about disc suppliers, printer ribbon sellers, repair companies - in fact anyone who sells anything that will be of interest to Spectrum and SAM owners.

It only remains for us to thank all those who took the time to fill in their entry forms and to express our hope that **FORMAT** readers will find this directory useful, informative - and above all worth keeping.

psuedocode. Psuedocode uses Do, While, If, etc. the same sort of control structures (constructs) used by programming languages but psuedocode avoids formal syntax. It helps the transition from a plain English description to program code.

Initialize (i.e. things that only need to be setup once)

Do

Setup for start of game
while not finished Play game
show result

loop while quit not requested

All rather simple and doesn't help much with the actual gameplay but it does help to keep a good structure. The chances are if you dive straight into programming you'll end up with a very jumbled and badly organized program.

Now we need to put a bit of thought into how the game will work. Something like the following will do to get us started.

Do

Wait for request
if Quit - exit game
if cursor keys - move cursor
if check - and if not already checked:
if mine - flag as finished
calculate number of surrounding mines
set status to checked
if mark mine - toggle mine marker
if all cleared and mines marked - finished

loop while not finished

Right that's enough planning for the moment, now it's time to load up SAM C, select EDIT and start to do some coding. A C program normally consists of the following parts:-

preprocessor instructions

main()

function Definitions

Preprocessor Instructions

I'm sure you already know that we should start our C program with `#include "stdio .h"`. We will also need to use some library functions such as paper, pen, border, cls, etc. so we must declare the libraries to be included, (by specifying the header file, e.g. `graphics.h`) and the functions to be used from each library. The equivalent source code library files (e.g. `graphics.c`) should be included at the end of the source code listing. With a bit of hindsight I can add a few more functions and say that the start of our source will look like this:-

```
#include "stdio .h"
#include "graphics.h"

extern void box (int x, int y, int w, int h);
extern void cls (int a);
extern void mode (int a);
extern void pen (int i);
extern void paper (int p);
extern void border (int b);

#include "conio .h"

extern void window (int a, int b, int c, int d);

#include "stdlib .h"

extern int abs (int x);
extern int rand ();
extern void beep (int d, int p);

// My function prototypes
//Symbolic constants
// External variables
// main ()
// Function definitions
#include "graphics.c"
#include "conio .c"
#include "stdlib .c"

// end of file
```


The statements following // in the above listing are included to show the layout of the source code text and will be explained later.

Function Prototypes

The format for the external function prototype is:-

```
extern type function_name ( parameter list );
```

The extern tells the compiler that the function is from an external library file. The type indicates the type of the data returned by the function e.g. it can be int, char, etc. If the type is void then no useful data is returned. The parameter list shows the parameters (type and name) passed to the function. For the prototype it is the parameter type that is important not the parameter name.

After the external functions it is good practice to declare the prototypes of any functions we write for the program. The format will be the same as for the external library functions except extern is not required. As each new function is written a prototype should be included at this part of the listing. I usually keep the function prototype declarations in the same order as the function definitions in the source code text, so that they act as a coarse index.

Symbolic Constants

Symbolic constants use a name to represent a value in much the same way as a variable. The difference being that a constant remains the same while the program is running where as a variable can be changed. By convention upper case is used for constants and lower case for variables. The advantage of using constants is that as the constant name is used throughout the code rather than a value, only the constant definition needs

to be changed and the compiler will insert the new value at every occurrence in the code at compile time. This saves searching through text trying to find where changes are needed with the risk of missing one or incorrectly altering another value.

So that the background colour for the game window can be changed to suit personal preference, but only before the code is compiled, we will use a symbolic constant as follows:-

```
#define BACKGROUND 5 // background colour for game window will be cyan
```

And that is all I have room for this month. Next time we will look at declaring External Variables, Function Definitions and make some headway with some real coding towards out game.

Back soon.

FORMAT

SAM REPAIR SERVICE

We are pleased to be able to offer readers an official, West Coast approved, repair service for SAM Coupé and SAM élite computers and add-ons.

PRICING Because every fault is different we can't guarantee a fixed rate. When we receive your machine it will be tested and, if it is going to cost more than £35 for the repair then we will contact you for authority to continue.

Pack your machine well (we will use your packing for its return). Please phone us on 01452-412572 for advice on dispatch (we can even arrange UK Mainland collection and overnight delivery for an extra £12.95). In many cases we can also give an estimate over the phone. All repairs returned by overnight carrier so tell us which days there will be someone in to sign for the parcel. Please quote your INDUG membership number and give a evening contact phone number.

Send your machine to:-

Format (SAM Repairs),
34, Bourton Rd, Gloucester, GL4 0LE.

IT'S SHOWTIME

Once again it is time for the Autumn show again and Saturday October 25th will see our 9th Gloucester Spectrum & Sam Show at our usual venue at Quedgely Village Hall, Bristol Road (B4008) Gloucester - close to Junction 12 on the M5. (See the directions printed on page 17 for more details).

The show opens to the public at 10:30am as usual, and runs until 4:30pm. Entry is just £2 per person, with up to two under 14s free if accompanied by an adult - we like to look on this as being a family show so we do what we can to encourage the younger visitors.

Make sure you bring lots of money with you or at least your cheque book (we can always provide the pen).

BRING AND BUY

The Bring and Buy stand is famous with Gloucester Show regulars. It is usually one of the most crowded stands during the day, giving you the opportunity both to rid yourself of those surplus items you have gathered over the years and of course to find that one item you have always been looking for.

If you are selling items then please remember to make sure everything is fully working, complete, and has its instructions or manual. If possible put a small label on each item giving your name and the price you are asking. The Bring and Buy table, in the back room, is not constantly manned, although Derek Morgan does try to keep an eye on things for us if he is not too busy with his SAM PD stand. However, we leave it up to

buyer and seller to get together and do the business. Each show sees many hundreds of items change hands and I'm sure there will be even more this time, but you will understand that we as organizers cannot be responsible for items left for sale, nor can we be responsible for items you purchase. Our recommendation to buyers is to make sure you get the seller's address, just in case.

STAND BOOKINGS

If anyone wants a stand at this show (or for a future show), and has not already had a booking form from us, then ring Jenny on 01452-412572 right away.

HOTELS

If you want to make a weekend of your visit to Gloucester then ring the Tourist Information Centre on 01452 421188 or write to them at St. Michael's Tower, The Cross, Gloucester, GL1 1PD. They will send you a list of local hotels in your price range.

FOOD & DRINK

The most important service at any show. There will be plenty of refreshments and snacks available inside the show, at very cheap prices I will add - not the rip-off prices you find at many shows.

There is also a good pub right next door that sells midday meals and there are plenty of other pubs in the area. Gloucester's main Tesco is also just over the road.

SEE YOU AT THE SHOW

WHO'S THERE

The question everyone asks when they hear about a show is "Who will be there?". Well, I think it is safe to say that nearly all the companies that count in the SAM and Spectrum world will be there and I am sorry there is not room to mention everyone in this write-up.

FORMAT. Yes, we will be in our usual spot, one advantage of organizing our own shows, with all our range and those of REVELATION, WEST COAST, BETASOFT and a limited selection of the EMIGMA range.

SAM PD. I've already mentioned that Derek Morgan will be in his usual place in the back room. As well as the PD software there is also a growing range of commercial software under the F9 label. SAM PD now have some new Comms software for SAM to allow access to bulletin boards of linking two SAM users via telephone lines.

DEMOS & HELP. Carol Brooksbank will be there as usual ready to give help and advice to any who feel a need for it. Anyone wishing to demonstrate something to other people will be very welcome - we will try to get you some time on a machine at the show - if at all possible.

QUAZAR. Colin Piggot will be on hand to fill the hall with incredible sound - if you have never heard the Quazar Surround system in all its glory then make sure you get to the show. Quazar will also be showing several new

software releases including *Stratosphere* their new 3D wire-frame, mode 4, cyberspace battle game.

SAM SUPPLEMENT. Will be showing off their disczine as usual together with growing range of SAM software.

S.D.SOFTWARE. Got your SAM Hard Drive yet? Well if you are behind the times, then this is the ideal opportunity to take that 'giant leap for SAMkind' and attach a hard disc to your machine. From 20Mb to many giga-bytes, all IDE drives work to give you the sort of storeage you thought you could only dream about.

FRED SOFTWARE and SATURN SOFTWARE. Fred's wide range of SAM software and of course the famous FRED disczine. This will be the second show under the management of Darren Wileman (who of course will also be showing his own range of software under the Saturn label). The show also sees the first public outing for Fred's new game - **COLONY**.

Colin McDonald and Colin Anderton should be there as well.

There will be other stands of course, it is simply that we have to go to press far too early to get a full list in and there just is not enough space anyway. What you can be assured of is bargains galore and lots of interesting people to talk too.

Make sure you get there on Saturday the 25th **OR YOU WILL REALLY BE MISSING OUT.**

GETTING THERE

Gloucester is very easy to reach from most parts of the country either by road, rail or coach.

By Car: If you are travelling north on the M5 then come off at junction 12 and follow signs for Gloucester. A few hundred yards from the motorway slip-road you will come to a roundabout with a service station on your left, take the second exit and follow the A38 towards Gloucester for a short distance. Now take the turning on the left, marked B4008 with signs for Quedgeley and the Severn Vale Shopping Centre. Go straight over at the first roundabout and then just before the next roundabout the hall is on the left, set back a bit from the road and often slightly hidden by the mobile fruit & veg stall that uses the forecourt.

For those coming south there are two choices. Junction 12 is not available southbound, so it is easier to continue to exit 13 and then turn north onto the A38 - this only adds about 5 miles to the journey and avoids the traffic around Gloucester. The alternative is to exit at junction 11 (the A40/Cheltenham exit) and follow signs for Gloucester, follow the ring-road around - you eventually get signs for M5 South - until you reach a large traffic light controlled junction (used to be the roundabout if you've been before). This has the local BT offices on the left, go straight across, following signs for Severn Vale Shopping Centre (see above for more details).

Anyone not using the motorway should be able to work things out from their

own road atlas, Quedgeley is to the south of the city.

Warning, anyone with new maps may be tempted to use junction 11a, don't, it is a nightmare and even locals don't know where it goes to.

Parking: Please use the free parking provided, just round the corner, in front of the Tesco Super-store. Remember to lock any valuables safely away out of sight - being a busy car-park your car should be quite safe, but it is better not to take chances by putting temptation in front of thieves.

By Rail or Coach: Gloucester is well served by Rail and Coach services. Buses to Quedgeley run about every 15 minutes from the Bus/Coach station (which is almost opposite the entrance to the Train station) ask at the travel office. On the bus ask the driver for Tesco Superstore - he will know where you need to get off, the journey takes around 12 minutes.

Other Attractions: There are plenty of shops in the city centre. There is also the National Waterways Museum at Gloucester Docks, our famous Cathedral and lots of other historic and interesting places to visit.

Cheltenham, with all its fine Georgian buildings is only a few miles away. There are many picturesque Cotswold villages and beautiful scenery within just a few miles of the hall. Just down the A38 there is the Slimbridge Wild Fowl Sanctuary, a place everyone should visit, so why not bring the whole family.

SAM elite 512

The advanced computer that retains a user friendly appeal which makes even the beginner feel right at home. An easy to learn Basic and disc operating system (no messing with slow tapes here) will allow you to do things you never thought possible before. Your SAM comes with a very easy to read manual and everything you need to get started - it even has some pretty impressive demo software for you to run, just to give you a few ideas for starters.

If you already own a Spectrum then this is the machine for you because you don't have to throw away all you have learnt so far - just be prepared to be amazed at the extra power and features.

POWER AT A PRICE YOU CAN AFFORD...

FEATURES INCLUDE

512K RAM
32K ROM
800K Floppy Disc Drive
6 Channel Stereo Sound (mono through TV)
Z80B 6Mhz Processor
Centronics Printer Port
Joystick Port
MIDI & Networking
128 Colours
4 Screen Modes
SCART Output (for Monitor or TV)
Plus LOTS More....

ONLY £199⁹⁵

Includes 1 year return to base warranty on full computer
PLUS extended 2nd year warranty on main board.

Reconditioned SAM Coupé

We are able to supply a small number of professionally reconditioned SAM Coupé computers. These have been fitted with a modern style disc drive, a version 3 ROM, new keyboard unit, and are supplied with new manuals and DOS system disc. They carry a full 90 day full return to base warranty. Because these are reconditioned machines there may be slight blemishes to case or base.

Has All The Features Of The SAM Elite. Except That There Is No Built-in Printer Port On The Coupé (see the SPI, under interfaces below)

ONLY £139⁹⁵

SAM Coupé Replacement Disc Drives

The original slot-in slim-line drives produced for the SAM Coupé are no longer made. If your existing drive is now showing signs of terminal decline perhaps it is time you gave your SAM a new lease of life by fitting a modern style (PC type) floppy drive.

In most cases we find the faults with old drives are mechanical (due to worn heads, stepper motor failure, etc.) In these cases you need an internal interface Type 1 to which you transfer the 1772 disc controller chip from your old drive - thus making the upgrade as cheap as possible.

If you want to fit a second drive (or first drive, if you don't have one or the 1772 on your old drive is faulty) then order a Type 2. Both types are available in either kit form or ready assembled. For the kit you will need screwdriver, soldering iron, solder and a reasonable level of soldering skills. All you need for the assembled version is a screwdriver. Full fitting instructions are given and the only other thing you need is a standard PC type disc drive from your local supplier (cost about £20 to £25).

If you have any doubts about which type of interface you need, or any questions about the drive fitting in general, then please give the FORMAT hotline a ring on 01452-412572 and they will be pleased to help you.

| | Kit Form | Assembled |
|---|----------|-----------|
| Internal Disc Interface Type 1 (without 1772) | £19.95 | £29.95 |
| Internal Disc Interface Type 2 (including 1772) | £29.95 | £39.95 |

Ordering: Write your order clearly, state your name, full address and phone number and if possible please quote your INDLG number as this will help to speed orders. Payment: Cheques and UK Postal Orders should be made payable to FORMAT PUBLICATIONS. Overseas customers may also pay using FORMAT's foreign exchange scheme. Postage & Packing: Prices include UK p.p.p. Overseas customers please write for a quote. Prices valid until 1st January 1997. E & O.E.

Send Your Orders To:-

West Coast Mail Order,
c/o Format Publications,
34, Bourton Road,
Gloucester,
GL4 0LE.

West Coast Computers

INTERFACES

These interfaces work with both the SAM Elite and the SAM Coupé unless otherwise stated.

SAM MOUSE SYSTEM Interface, High Quality Mouse and the Software to drive it. The interface plugs into the mouse port on the back of SAM so you don't need a spare expansion socket. More and more software now works better if you use a mouse. **Only £39.95**

SAM PRINTER INTERFACE The SPI (Coupé only) allows connection to any standard parallel printer. Allows standard LPRINT, LLIST & DUMP commands to work on compatible printers. Plugs straight into the expansion port. Requires BBC type 26 way ribbon printer cable (see below). **Only £24.95**

TWOUP Allows two interfaces to be connected to SAM's expansion port at same time. **Only £19.95**

NDI The eXternal Disc Interface. Allows external 3 1/2" or 5 1/4" drive to be connected to SAM Coupé. Also includes Parallel Printer Interface. **Only £44.95**

ALSO AVAILABLE: Printer Cable - £7.95, SCART Cable - £7.95, Replacement Keyboard £14.95, Replacement Power Supply - please ring. Plus spare parts service - tell us what you want and we will give you a price.



Dear Editor,

The problem encountered by Mr Peter Williamson (July **FORMAT**) struck a bit of a chord.

I have an 'original' SAM with ROM upgrade, MasterDOS/Basic etc., and about three years ago I fitted a second slim-line drive to the right slot. The situation may not be the same as Peter's, but I did find a similar problem which still exists; that is, SAM does not recognize Device D2 the first time it is entered.

My way round it is, after the first Device D2 I ask for DIR2. SAM immediately responds and drive 2 whirs merrily away. All subsequent commands for D2 during the same session are followed, including Drive changes for copying, back-up etc. It only needs a kick-start after power-down or reset.

This may not solve Peter's glitch, but it is a quirk worth trying. By the way, don't ask me how or why it works - it just does!

Yours sincerely, Roy Gardner.

Could be the same but it is difficult to tell. What error report do you get? If it is 'Check Disc In Drive' then that is possibly a sign that the drive belt on your drive is a bit past its prime. However, if the error is 'No Such Drive' then it is the 'MasterDOS not detecting it' problem. **Ed.**

Dear Editor,

I am seeking the whereabouts of 'early period' SAM Coupé software. Software which is no longer being listed in SAM club software libraries.

YOUR LETTERS

Please could you or someone create a nice library, historical facsimile of SAM Coupé software/hardware, and where to obtain said items (if still available).

Thanks for mentioning my name in your recent publication of **FORMAT**.

Yours sincerely, Charles Roads.

Most of the earlier SAM software is still available although some of it is not advertised these days. Come along to one of the Gloucester shows, that is where you will find the biggest selection.

As to a software library - sorry, but unless the program has been placed into the public domain it would be illegal for someone to rent it out without the permission of the software company - something they would not get. **Ed.**

Dear Editor,

August copy received only today, and blank pages at 13 & 20, what's gone wrong? Hope you get these sorted out and we get an early copy this month, plus of course the missing pages!

I am inclined to agree with member J.Woodhead, a reprint of some of the earlier times, especially the out of print editions of **FORMAT**, I'm sure would not be amiss and of great interest to us 'Specy' owners. There must still be quite a good few of us out here still, and any articles on the PLUS D etc., would be of great interest to me and maybe others as well.

Yours sincerely, Deryck R.J.Morris.

With any printing process you are bound to get some blank pages creep in once in a while. More often than not is two sheets sticking together as they go

through the print machine. Not a real problem to worry about, and Jenny has sent you another copy already.

I've spoken to lots of people about the reprint idea and the balance of opinion, which I must admit I agree with, is that it would be unfair on those who have already purchased a complete set of issues. However, there are some things that could do with being re-written and updated. It is a bit of a mixture really. There are some highly technical articles in the earlier issues which could do with retelling in a slightly more 'user-friendly' fashion. There are also articles which need updating with the benefit of hindsight, in other words to take notice of articles that appeared in later years.

All we really need are a few writers/programmers prepared to have a go. If anyone is interested please get in touch with me. **Ed.**

Dear Editor,

Every time when **FORMAT** arrives I use to greet them as an old friend and I am very curious what kind of new detail, property, tips and tricks I shall find in the new issue. And, I am never disappointed, every month I find some new, or some new possibility or a new side of my favourite Spectrum.

It was the same when I received the August 1997 issue. Just looking on the cover side I greeted the new (mirrored) side of the young lady as an old friend.... did she not discover **FORMAT** already in 1993 February?

Yours sincerely, Istvan Ordog.

Yes <grin>. You caught me out Istvan. Now don't go telling the other readers but I was in a bit of a rush and could not get a fresh cover from Jon Nixon in time, so I scanned and altered the image - and there was me thinking "no one will notice". **Ed.**

Dear Editor,

Please find enclosed cheque as

payment for another twelve issues of your marvellous magazine. I've thoroughly enjoyed every issue received right from when I joined INDUG.

My apologies for not sending in the renewal form, but at present I just cannot find it.

With regard to articles most and least enjoyed, that's impossible, they are all brilliant.

A subject I would like to see covered would be **PC Suite** as I don't remember it ever being reviewed in detail and as I now own a PC as well as a SAM Coupé it would be useful to know what can and can't be done.

Yours sincerely, Peter D. Edwards.

Thanks for your kind words, glad you enjoy **FORMAT** so much, and with kind comments like that how can we possibly complain because you lost your form.

As I have said so many times before, **PC Suite** is invaluable in preparing **FORMAT** each month. I use it to transfer many of the articles and most of the programs from SAM to the PC. Even Spectrum programs follow the same route after being converted to SAM first.

I would be surprised if we did not review it back when it first came out around 1992 - but I must admit I have not had time to search for it yet. **Ed.**

Dear Editor,

I thought I would drop you a line to praise Alan Skillman's extraordinary SAM Coupé emulator program called **Sim Coupé** for the PC and UNIX computers. I was surfing the internet at work a few months ago and came across the **Sim Coupé** for Unix/Linux systems.

So I went out and purchased a giant book on linux (a UNIX clone for PCs) and tried my best to set this operating system up just so I could use **Sim Coupé** on my machine. But I had a lot of problems and left it to a time that my computer knowledge was capable of setting this kind of system up.

I decided to have another look last week to see how **Sim Coupé** was getting along, and found a DOS version of **Sim Coupé**. So I down loaded **Sim Coupé** v0.7 'alpha' and transferred some of my SAM software across using **Samdisk** and I was well impressed.

I haven't really used my SAM Coupé over the last year, because of my PC although I have still followed SAMs progress through **FORMAT**, but I was going to end my subscription to Z80 **FORMAT** and just stick with PC **FORMAT**, but now I will definitely renew my subs to both.

If there are any SAM users out there that own PCs, and thinking of dropping out of the SAM scene, I seriously advise them to get a copy of **Sim Coupé**, because it really has renewed my interest in SAM. I think it's a shame that those like myself that don't have access to the internet on a regular basis, lose out on such an excellent program. There is no other way of contacting the author other than e-mail to praise his efforts and tell him about the software which I have got to work.

I don't know if there is any kind of mail order service to be able to get hold of the **Sim Coupé** for those not on the internet, if there isn't I would be happy to set one up.

Anyway I don't think the **Sim Coupé** for DOS should go unnoticed, and I hope Alan Skillman and Co keep up the good work.

Yours sincerely, Colin Brown.

We have of course known about **Sim Coupé** for some time - it has been demonstrated at a couple of the Gloucester shows although not as a full public demo.

The UNIX version is now very stable but the DOS version is still at the alpha-testing stage so there is still a lot of work to do on it. Alan Skillman has done a wonderful job so far but it will be a while

before he has a fully working version for DOS. We will review **Sim Coupé** as soon as Alan thinks it is ready. **Ed.**

Dear Editor,

Just received the September **FORMAT** and I must say "well done" to you and your team. I've only been a reader for two years and kept putting off purchasing the back issues as I'm a student and do not have much spare money.

However, now I've seen your year by year review of past volumes I think completing the set (at least covering the SAM years) is something I really must do before more issues go out of print.

Happy 10th Birthday **FORMAT**, and many more to come I hope.

Your sincerely, S.R.Fowler.

Glad you liked it, it was well worth the extra effort needed to do the special issue. I'm sure if you get started now you will soon build up your back-issue collection. **Ed.**

Dear Editor,

Is it really ten years? Can it really be that long ago I got my first DISCIPLE?

It was not until Volume 11 N°1 landed on my doormat last week that I realised how long you had been going. And to think I've been receiving **FORMAT** since issue 2. I purchased issue 1 from you at a London ZX Microfair and paid my subscription so issue 2 was the first to be sent to me. I just can't believe it has been so long.

While my Spectrum is now consigned to the loft (I would never part with it) and my SAM is showing signs of needing its second replacement keyboard (how much are they now by the way?) I still feel that I learn something from each issue of **FORMAT**. Your special birthday issue was a wonderful trip down memory lane and it showed me how important **FORMAT** has been to me and to others over the years.

Please keep up the good work.

Your sincerely, Colin Wilton.

OH shucks! You're making me blush Colin, too much praise....

Thanks anyway. It's been a good ten years, but there are many more to come and you ain't seen the best yet.

Replacement SAM keyboards are available at £12.95 (including UK postage and packing) just send an order in to Jenny and she will get one off to you. *Ed.*

Dear Editor,

I really must complain about the latest issue of **FORMAT** (11/1). I know it was your birthday issue and all that but did you really have to waste so much space on your reminiscences?

Surely you could have covered the fact that it was your birthday issue in the editorial and left it at that - as it was there was not a single new article in the issue so there was nothing to interest me at all which I do not think is fair to your subscribers.

What we want is articles on hardware and software. Things that we can get our teeth into. So please make sure that you do not produce anymore 'special' issues like this or I will not be renewing.

Yours sincerely, Martin Heathfield.

Sorry to have upset you Martin, hope you will not hold it against us.

From the letters and telephone calls we have received since the special 10th birthday issue went out I've got to say that you are in a minority of one at the moment. Most people seem to have been very pleased with the special issue and we have even had some of our PC subscribers ordering copies to see what we have been up to all these years.

Still, it proves that you cannot please everyone all of the time.

Anyway, the next big birthday issue is now nearly ten years in the future so I hope we can pack enough into the

forthcoming volumes that you will stay to see our 20th Birthday issue.

Thank you for taking the time to write. Even though it was criticism it was still nice to hear from you. *Ed.*

Letters may be shortened or edited to fit on these pages although we try to edit as little as possible.

This is YOUR letters page so it is up to you to fill it with interesting things. Come on, get writing, any subject even remotely related to computers. Just keep things as short as you can so we can fit in as many as possible each month. Please write clearly or type your letters. Send them to the address on page 3 or email them to us at Formatpub@aol.com.

SMALL ADS

FOR SALE Grey cased Spectrum +2, with PSU, leads and manual. Good condition, + one for spares. £25. Contact Denis Secombe on (01670) 824788.

FOR SALE SAM Coupé hardware and software. Send for list. M.Hildred, 177, Bideford Green, Linslade, Leighton Buzzard, Bedfordshire, LU7 7TS.

WANTED Two cassette recorders. Can be tatty as long as they are working as they will be out of sight. Mr A.J.Harding, 25, Churchdown Lane, Hucclecote, Gloucester, GL3 3QH. 01452-2618243.

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Any PRIVATE advert, subject to acceptance, will be printed FREE in the next available issue. Any software sold MUST be original. The publishers will not be held, in any way, responsible for the adverts in this column.

Due to shortage of space, if your advert remains unpublished after two months then please send it in again. Trade advertisers contact the publisher for rates.

Please note: Adverts now run in both **FORMAT** and **FORMAT PC** to give you twice the market.

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FORMAT

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All issues, from Volume 8 N° 1 (September 1994) to the latest issue, are available separately. To order just quote the Volume and Issue N°.

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