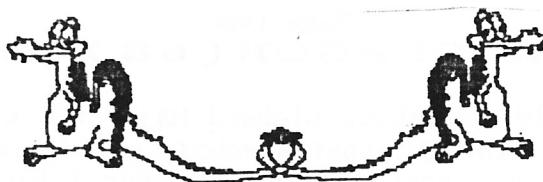


The Newsletter of the National Dragon User's Group

# DRAGON



## UPDATE

\*\*\*\*\*  
CHAIRMAN: Paul Grade. 6, Navarino Road, Worthing, Sussex. Phone: 01903-207585  
EDITOR: Stephen Wood. 52, Downsway, Springfield, Chelmsford, Essex. CM1-5TU.  
S/WARE EDITOR: Mike Stott. 10, Mellor Close, Prescott, Merseyside. 0151-480-7712  
\*\*\*\*\*

ISSUE 112	VOTE FOR THE DRAGON PARTY!	APRIL 1997
-----------	----------------------------	------------

\*\*\*\*\*

THE GAFFER'S BIT . . . . .

There's been nothing at all new on the computer scene lately, and even if there had been none of us would have had a chance to hear about it owing to the total media blackout on all subjects other than politics and which bunch of psychotic corkscrews will be taking over at The Gasworks next month. Damned if I know why anyone is supposed to be interested ... they're all equally-brainless, bent and boring, so who cares?. Only thing that surprises me is that politicians appear to have had access to Virtual Reality systems for so much longer than the rest of us ... they seem to have been using them for so long that they've completely rejected Real Reality and spend their entire lives in their own fantasy VR World. Don't believe me? .... next time one of 'em turns up on your doorstep trying to persuade you to support John Whatsisname or Tony the Twit or Paddy the Prat, ask him how many moons HIS planet has ... I bet it's at least five!. Personally I reckon they ought to leave the electioneering job to a D32 running an old ELIZA type program ..... it would be more amusing and would probably make more sense as well!. OK, so let's ignore the topical topic and talk about something more interesting ... YOU!. As there's nowt worth watching on the box you should have MUCH more time than usual to take a look at that other screen ... the one attached to your computer, and see if you can remember how your word-processor works. Having neglected it for so long you obviously need to refresh your memory, and the best way to do this is by typing several nice interesting articles for Update and mailing them to Stephen. He won't mind, in fact he might even welcome them, so why not give it a try ... Boldly Go Where You Haven't Been For Months, your keyboard, and WRITE SOMETHING!!. PLEASE!!!.

Well, that's it for now, so I'll leave you with thought of the month ... what would happen if they held an election and nobody bothered to vote? ... wouldn't it be fun to find out?!.  
Paul G.

And it's goodnight from him...

Well, it very well could be, unless ~~SOME~~body, ~~SOME~~where writes us ~~SOME~~ material for the next issue. It doesn't have to be a 1,000 page epic, just something you'd like us all to read. I could have filled the rest of the pages up with more material from Tony Shellard and Bob Smith, who have both written series for us with episodes to follow (thank you!) but I wouldn't want to embarrass them by suggestion that no-one else in the Group wants to put anything into it. Yes, we are a dwindling user base, but have we lost our voice already?. Never written for us before? Act now before it's too late!. Written some material for us previously? Many thanks, care to donate some more?

Otherwise, instead of reading Update, you'll have to sit through repeats of The Two Ronnies...

S.W.

## PEEKING THE DRAGON(68).MIKE STOTT

In my last article I told you about Richard Major who was looking for software for the BBC B computer. I thought that somebody would have been able to help him but nobody has contacted me about any yet. However I have heard about the 8-Bit Software Club which supports the BBC, Master and Archimedes. They have a monthly disk which costs 50p plus P&P. I am told you just need to send an SAE to C. J. Richardson, 8-Bit Software, 17 Lambert Park Road, Hedon, Hull, East Yorks., HU12 8HF for your first copy.

I am told that the Wigan Computer Club meets at the Odd Fellows Arms, Bryn near Wigan on the first and third Wednesdays of the month from 7pm to 9pm, supporting BBC, VIC20 and Dragon. If you live in that area why not give it a try.

It is not too far from me so I think I might give it a whirl one Wednesday. Who knows we might even get some more members ourselves out of it.

You will have read in the last Update that Bob Preston was finally disposing of his last Dragon stock and leaving us for pastures new. R. & A.J. Preston took over the software from Blaby of Leicester during 1987 and have been a good supporter of the Dragon since. They even ran the last Ossett Shows for us after the Penns departed from the scene. I cannot write this article without saying a very big thank you to Bob and his wife who I got to know very well at all the shows he attended. He did not sell very much software over the last few years but still came along to a considerable number of shows.

Thank you very much to the pair of you for the work you put in for the Dragon over the years.

Now I must move on to an even sadder note. As you will have read in your last Update Stuart Beardwood died at the end of last year after a very long illness.

Many of you will know Stuart from Ossett. He was always the first to offer help to me in running the group stand. I will always picture him rolling up to Ossett on his motor bike and combination absolutely choc a bloc with computers and speakers. How he ever managed to fit all the bits in I do not know.

I knew Stuart for a good many years having met him at Ossett even before I was running stands there for the group. He was always one of the real characters on the Dragon scene. Before he became ill he worked with handicapped adults and children and tried to use the Dragon as much as he could to help them.

I can remember him adapting the Electronic Book to help them and used it to make games for them to play. He also composed a lot of music for the Dragon and used two Dragons alongside each other to provide stereophonic sound.

For the last few years he ran the PD Library for the group writing many of the programs and routines himself.

He was also very interested in kites and used a program he had written for the Dragon to design some very unusual kites.

I have not seen Stuart since just after the show I ran at my wife's school but I hope that he did not suffer much after that.

My feelings go out to his wife and family and I thank him posthumously for the work he did for the Dragon especially the help that he gave me over the years.

Having nearly finished my article I have just received a letter (through Paul) from Alan Greenwood offering help to Richard Major with regard to the BBC software that he is looking for. Alan has a friend who possess a lot of BBC software although they are mainly games.

He is willing to supply you with some software but will need to know the name (or type) of software that you require. Most of it is on 5 1/4" 80 track disks but he can supply it on 5 1/4" 40 track. He will, of course, need reimbursing for disks and postage & packing.

Richard, I suggest you write to Alan at 132 Wendover Drive, Aspley, Nottingham, NG8 5JN (enclosing a SAE of course) and let him know exactly what you are interested in obtaining and find out how much you will need to send.

Hopefully this will be yet another satisfied customer.

**Time Calculator...Paul Marlow**

This is a BASIC09 program to calculate the number of days between today's date and the start of the next century, 1st January 2001. I wrote it using OS9 level 2 but will work perfectly well with level 1

```

0000      (*SD=START DAY, SM=START MONTH, SY=START YEAR*)
0033      (*FD=TODAYS DAY, FM=TODAYS MONTH, FY=TODAYS YEAR*)
0067      (*TD=TO DAY, TM=TO MONTH, TY=TO YEAR*)
0097      (* MONTH IS AN ARRAY THAT HOLDS THE NUMBER OF DAYS IN EACH MONTH*)
00DA      (* X AND Y ARE USED FOR LOOPS *)
00F8      (* XX IS A GENERAL VARIABLE *)
0116      (*FROMDAYS HOLDS THE NUMBER OF DAYS BETWEEN 1/1/95 AND TODAYS DATE*)
015C      (*TODAYS HOLDS THE NUMBER OF DAYS BETWEEN 1/1/95 AND 1/1/2001 *)
019F      (*DAYS HOLDS THE NUMBER OF DAYS BETWEEN FROMDAYS AND TODAYS *)
01E0      DIM sd,sm,sy,fd,fm,fy,td,tm,ty:INTEGER
0207      DIM month(12):INTEGER
0213      DIM x,xx,y:INTEGER
0222      DIM fromdays, todays, days:INTEGER
0231      FOR x=1 TO 12
0241          READ month(x)
024A      NEXT x
0255      DATA 31,28,31,30,31,30,31,31,30,31,30,31
027D      (* THE FOLLOWING THREE LINES ARE THE REFERENCE DATE 1/1/95*)
02BA      sd=1
02C1      sm=1
02C8      sy=1995
02D0      (* THE FOLLOWING SEVEN LINES GET THE DATE FROM THE INTERNAL CLOCK *)
0314      fd=VAL(MID$(DATE$,7,2))
0231      fm=VAL(MID$(DATE$,4,2))
032E      IF VAL(LEFT$(DATE$,2))<95 THEN
033D          fy=VAL("20"+LEFT$(DATE$,2))
034D      ELSE
0351          fy=VAL("19"+LEFT$(DATE$,2))
0361      ENDIF
0363      (* THE FOLLOWING THREE LINES CONTAIN THE DATE OF THE START OF THE NEXT
CENTURY*)
03B4      td=1
03BB      tm=1
03C2      ty=2001
03CA      (* THIS ROUTINE CALCULATES THE NUMBER OF DAYS FROM 1/1/95 TO TODAY*)
040E      fromday=0
0415      IF sy=fy THEN
0422          FOR x=1 TO tm-1
0436              fromdays=fromdays+month(x)
0445          NEXT x
0450          fromdays=fromdays+fd
045C          GOTO100
0460      ENDIF
0462      FOR y=sy TO fy
0474          FOR x=1 TO 12
0484              xx=month(x)
048F              fromdays=fromdays+xx
049B          NEXT x
04A6      NEXT y
04B1      FOR x=sy TO fy+1
04C6          IF x/4=INT(x/4) THEN
04DB              fromdays=fromdays+1
04E6          ENDIF

```

```

04E8      NEXT x
04F3      FOR x=fm TO 12
0504          fromdays=fromdays-month(x)
0513      NEXT x
051E      fromdays=fromdays+fd-2
052D 100  fromdays=fromdays+0
053B      (* THIS ROUTINE CALCULATES THE NUMBR OF DAYS FROM 1/1/1995 TO
1/1/2001*)
0582      todays=0
0589      IF sy=ty THEN
0596          FOR x=1 TO tm-1
05AA              todays=todays+month(x)
05B9          NEXT x
05C4          todays=todays+td
05D0          GOTO 200
05D4      ENDIF
05D6      FOR y=sy TO ty
05E8          FOR x=1 TO 12
05F8              xx=month(x)
0603              todays=todays+xx
060F          NEXT x
061A      NEXT y
0625      FOR x=sy TO ty+1
063A          IF x/4=INT(x/4) THEN
064F              todays=todays+1
065A          ENDIF
065C      NEXT x
0667      FOR x=tm TO 12
0678          todays=todays-month(x)
0687      NEXT x
0692      todays=todays+td-2
06A1 200  days=todays-fromdays
06B0      IF days>1 THEN
06BC          PRINT "There are "; days; " days until the next century."
06EE      ELSE
06F2          PRINT "There is "; days; " day until the next century."
0722      ENDIF
0724

```

## Affectation Corner...

Can't say I've ever understood why TeleWriter is the most lauded word-pro on the dragon scene. It's all a bit cobbled together really - flipping between the menu and the graphics screen, or even between menu screens with the disc version. The 'constant insert' of text gets to be a pain after a while, and the font is not superbly readable.

Still, I'm speaking from a biased viewpoint too - I'd wave the flag for SuperWriter anyday. Looks gorgeous in any of the modes, even 85\*24 if your TV is big enough, is crammed with features, and is simple to use. It can even be pressed into service to get Update finished (wrath of His Chairmanship pending). And yes, OK, being nicked from cartridge means that you have to jump between the program and BASIC to save anything, but...

I seem to recall some praise for VisiText and Electronic Author at the times of their releases, but from the vantage of point of this hot seat it always seems to be TeleWriter which has users delirious with joy. I just get delirious. S.W



## Favourite Software. G. Tutton

Here are my top four programs, in no particular order:

## TELEWRITER

Well, what can I say about this now legendary program? I've used it since I bought my D32 in late 1982, and have never looked back. The manual was an A4 ring binder, poorly photocopied, but clear enough. The original price was 49.95 from Microdeal, which in 1982 was a lot. I bought the program on a recommendation from a friend and I feel that it is without doubt the best investment I've made for my Dragon.

I needed a good word-processor as at this time I started a degree course at the Open university, and Telewriter saw me through until I graduated...9 years, mind! I also needed it for my family history work and this is on-going. Like most of us, I became frustrated at waiting for the loading of files from tape, and when the disk version arrived, I snapped it up. Give up Telewriter? Never! Ditto for the Dragon.

## F-EDIT V1.0

I just don't know where I'd be without this useful program. I, like many other Dragon users, have a PC and it is very useful to transfer data between my PCs and D64, especially for documents and text for desktop publishing. Yes, I know the NDUG's DTP program is excellent, but my PC customers demand PC DTP format files when creating work for them. Pain, but there we are. It is also useful to write batch files and the like on the D64 and transfer them to the PC.

By the way, F-Edit can transfer small blocks of text from Telewriter! I know that Telewriter does not store its files in an ASCII format, but by simply changing the .TEX extension to .DOC it will transfer. There is one big snag, spaces are lost and capitals are punctuation and other characters, and all other text is capitals! Time consuming, but it works.

Great program, excellently prepared manual, and great value. Only one snag with it, it has a habit of falling over and crashing from time to time. But then, how often does Windows do the same thing?

## BASIC 42/KLIK

Great software which was so much more useful than many people realised. It deserved so much more support than it received. Just goes to show what can be done with a mere 64K. There were competitors to Klik Basic, but I preferred it. It was a clear, attractive Graphical User Interface which was smooth and easy to use. Just after buying this, I had my first taste of GEM on the PC and I feel that Klik gave me a great head start at work.

I used Klik/Basic42 for many years and enjoyed experimenting with its capabilities. Alas, I stopped programming in anger due to work constraints and having to sort out PCs, as well as building the blessed things! Oh, why can't all computer be as reliable as the Dragon? No, I'm not going to enter the Dragon/PC debate. They both have areas where they excel.

## OS9/STYLOGRAPH

OS9 was the first DOS that I came across and when I first hit MSDOS3.20, this knowledge gave me an excellent grounding in DOS and I adapted to MSDOS very quickly. I bought OS9 and Stylograph from Touchmaster towards the end of 1984 at knock-down prices. Why choose stylograph? It was so similar to WordStar, which at the time was THE word-processor for the PC, so you could say it was a tactical purchase. And I did reap the benefits later.

I like Stylograph and found it great to use, if a little quirky at times, but oh for the want of an HP LaserJet II driver - can anyone help? None of my printers support backspacing, so underlining and bold doesn't work! And I can't set up my Mannesmann Tally Sprint printer, which does work perfectly with Stylograph, as well as my other three printer - I just don't have the room!

I have many other utilities, ie Diskdream, Disk Editor etc, but for me these

program have been the icing on the cake and have seen me through 14 years of Dragon taming. I have no doubt, providing the hardware doesn't have any problems that these programs will see me well into the 21st century. One last thought. I've bought and registered the excellent PC-Dragon 2 from Paul Burgin and am enjoying being Dragged back to programming the Dragon (emulator and the real thing). One thing that strikes me as very funny is this: I have a Dragon emulator on my Pentium PC and one of my friends has a Spectrum emulator on his 486DX4 100. Does this seem perverse to you? I mean, we buy this expensive PC hardware and then run our micros on them! Why not simply use the micro instead? Funny world...

## Machine Coding(5)...Tony Shellard

SCNINV7 used a technique called self-modifying code. This is frowned upon because any error invariably becomes self-demolishing code, rarely leaving enough wreckage for de-bugging. I risked it for demonstration purposes because it's short and simple enough to get away with. Another problem is what to do for subsequent executions: if the code has changed itself, does it need to be re-initialised before re-use? SCNINV7 has the good fortune (or good design!) to be self-restoring since the inner loop terminates when the value 0 is returned to the modified byte. The sticking point mentioned in my parting shot is that the self-modifying instruction, INC LP1+1, assembles to an absolute address and therefore fixes the program to its assembled location. To use it elsewhere would require re-assembly if I hadn't created SCNINV7A. No complete listing this time, just changed the errant instruction to INC LP1+1,PCR and away it goes. Table 2 shows why I didn't adopt this deceptively simple strategy in the first place. Although the new version becomes mobile it also slows down, granted that for speed-optimised use we have already exceeded SCNINV7. By comparison, SCNINV4A doesn't run much slower than its inflexible sibling because the additional section falls outside the loop. PCR mode is a form of indexed addressing, hence none too quick. Finally, we come to my fastest ever version, SCNINV8:

```
*      SCNINV8
@      LDX      <$BA      *screen start
      LDDD      £$0300    *initialise counter
LP1     COM      ,X        *COMplement byte
      COM      1,X        *etc
      COM      2,X
      COM      3,X
      COM      4,X
      COM      5,X
      COM      6,X
      COM      7,X
      LEAX      8,X        *Update pointer
      DECB                      *DECrement counter
      BNE      LP1        *Carry?
      DECA                      *if necessary
      BNE      LP1        *until done
      RTS                    *finished
```

This succeeds by sheer slogwork+ it processes 8 bytes per pass with minimal overheads. The idea could be extended, trading more memory for speed, but remember that after 16 COM instructions you'll need an extra byte because the offset used above is only 5 signed bits long, i.e. +15/-16. I assume that the returns diminish but will leave the analysis until next time.

Prog	Time	T%	Bytes	B&	TB	TB%
6	0.072	50	16	133	1.152	67
7	0.109	77	22	183	2.398	141
7A	0.115	81	22	183	2.530	148
8	0.055	39	30	250	1.650	97

**Safety In Numbers 4...Bob Smith**

Last time I promised to give you a program to convert a number in any base (upto 16) into decimal. This is a bit more difficult than the previous program, because BASIC assumes you will be interested only in decimal numbers. It does not recognise, for example, the hex number FF as a number. However, all characters including decimal digits have an ASCII number from 0 to 255. Characters 0-9 have ASCII values 48-57, upper case letters A-Z 65-90, and lower case letters a-z 97-122. If, therefore, all digits and letters are read as characters then the ASCII value can be used to generate the equivalent decimal value. Digits can be converted by subtracting 48 from the ASCII value. Upper and lower case letters differ by 32 (A=65, a=97). The computer sees 65 as byte 01000001 and 97 as 01100001, thus differing only in the sixth position (from the right) which is 2 to the power of 5, or 32. If we mask all the letters by taking a logical OR, then we convert all letters to lower case. A logical OR compares two bytes and if one or both bits are 1 then 1 is the result:

```

01000001
00100001 OR
-----
01100001 =

```

By subtracting 87 from this result the decimal equivalent of hex digit "A" or "a" is the result. Type in the program in BASIC, save it, then run it. Answer the questions and you should get the decimal number for the number you typed in in your chosen base.

```

1000 TRUE=1:FALSE=1
1100 FOR I=1 TO 2
1200 INPUT "WHICH BASE";BASE
1300 IF BASE>16 THEN I=1 :ELSE I=2
1400 NEXT I
1500 FOR I=1 TO 2
1600 INPUT "NUMBER TO CONVERT";NUMBER$
1700 IF LEFT$(NUMBER$,1)="*" OR LEN(NUMBER$)<=0 THEN END
1800 POWER=0:SUM=0
1900 NO$=NUMBER$
2000 FOR J=1 TO 2
2100 X$=RIGHT$(NUMBER$,1):NUMBER=ASC(X$)
2200 IF NUMBER<64 THEN NUMBER=NUMBER-48 :ELSE NUMBER=(NUMBER OR 32)-87
2300 GOSUB 3400
2400 SUM=NUMBER*BASE^POWER+SUM
2500 POWER=POWER+1
2600 NUMBR$=LEFT$(NUMBER$,LEN(NUMBER$)-1)
2700 IF LEN(NUMBER$)<=0 THEN J=2 :ELSE J=1
2800 IF VLID=FALSE THEN J=2
2900 NEXT J
3000 IF VLID THEN PRINT:PRINT NO$:PRINT"TO BASE";BASE;"IS DECIMAL":PRINT
INT(SUM):PRINT
3100 I=1
3200 NEXT I
3300 END
3400 REM CHECK VALIDITY OF INPUT NUMBER
3500 VLID=TRUE
3600 IF NUMBR>BASE-1 THEN PRINT:PRINT"INVALID DIGIT IN NUMBER":PRINT:VLID=FALSE
3700 RETURN

```

## PROGRAMMING THE PC. Mike Collings.

It is possible to write programs for your P.C. in BASIC using P-BASIC a public domain equivalent of GW-BASIC. P-BASIC is the easiest to obtain as it is offered as shareware. There should be no problems using GW or P-BASIC. If anyone is interested in programming in GW-BASIC then I would recommend the book by P.K.McBride, "Programming in GW-BASIC", ISBN 0 7506 0256 2, Newtech Books 1991. I have been using GW-BASIC for a few years and I find it reasonably easy to use. Just to show how easy it is I have written a Lottery Number Generator program which will also work using P-BASIC. The listing is below:-

```

10 REM LOTTERY NUMBER GENERATOR BY MIKE COLLINGS 1996
20 RANDOMISE TIMER
30 CLS
40 PRINT "BRITISH LOTTERY RANDOM NUMBER GENERATOR"
50 PRINT
60 INPUT "ENTER NUMBER OF DRAWS REQUIRED ", D
70 FOR X=1 TO D
80 A=1+INT(RND*49)
90 B=1+INT(RND*49)
100 IF B=A THEN GOTO 90
110 C=1+INT(RND*49)
120 IF C=A OR C=B THEN GOTO 110
130 D=1+INT(RND*49)
140 IF D=A OR D=B OR D=C THEN GOTO 130
150 E=1+INT(RND*49)
160 IF E=A OR E=B OR E=C OR E=D THEN GOTO 150
170 F=1+INT(RND*49)
180 IF F=A OR F=B OR F=C OR F=D OR F=E THEN GOTO 170
190 IF A>B THEN T=A:A=B:B=T
200 IF A>C THEN T=A:A=C:C=T
210 IF A>D THEN T=A:A=D:D=T
220 IF A>E THEN T=A:A=E:E=T
230 IF A>F THEN T=A:A=F:F=T
240 IF B>C THEN T=B:B=C:C=T
250 IF B>D THEN T=B:B=D:D=T
260 IF B>E THEN T=B:B=E:E=T
270 IF B>F THEN T=B:B=F:F=T
280 IF C>D THEN T=C:C=D:D=T
290 IF C>E THEN T=C:C=E:E=T
300 IF C>F THEN T=C:C=F:F=T
310 IF D>E THEN T=D:D=E:E=T
320 IF D>F THEN T=D:D=F:F=T
330 IF E>F THEN T=E:E=F:F=T
340 PRINT A;" ";B;" ";C;" ";D;" ";E;" ";F
350 IF INKEY$="S" THEN STOP
360 NEXT X

```

\*\*\*

Basic is always a good starting point on ANY machine, but we're also supposed to have some "professional" class PC programmers out there, so how about an article or two from some of you on the more "advanced" PC programming as well ..... anyone feel like explaining the mysteries of "C", assembler, or even F83 to us lesser mortals?. Basic listings (of reasonable length, of course) are always VERY welcome, especially as most are easily adaptable to the Dragon, but an occasional piece on the alternatives would be of great interest to quite a few people as well, so how about it?. Paul G.



## GROUP SALES (4)

Sales have dropped off a little since the last issue, and the stock is more or less the same, so far as tapes/books are concerned. However, there is some new hardware:-

**PRINTER SWITCH BOX:** 2 INPUTS AND 2 OUTPUTS, switchable (2 computers can print to one of 2 printers).  
£17.70 including postage and centronics lead from switch box to printer. [Postage = £2.70]

**AMBER 4000 PRINTER:** 40 column printer using 2 inch wide paper (yes! till roll width). Very handy for listings or anything which doesn't need full size paper. Good selection of fonts (Epson type).  
£15.35 including postage and spare ribbon. [Postage = £3.35]

**D32 COMPLETE :** £10.00 (£14.90 including postage)

**TWO D32 MAINBOARDS:** 1 STILL CASED WITH P.S.U. BOARD, 1 UNCASSED.  
SAM chip or C.P.U. dodgy. Good for spares?  
£4 FOR THE CASED UNIT. (postage £2.00)  
£2 FOR THE UNCASSED. (postage £1.00)

**JOYSTICKS :** 1 PAIR UNBRANDED £4. 1 D.D. JOYSTICK £2.

**CARTRIDGES :** EDIT+; A hi-res screen editor with extra commands added to BASIC. Upper and lower case on screen.

**RAIL RUNNER:** Arcade game.

**PRICE:** £5.00 EACH, or offers for both.

**UTILITY TAPES:** FILMASTR(database); SPRINT COMPILER(BASIC compiler); DRAGON DATA UTILITIES:-Personal Finance(2 copies), Special Selection 2; Composer; Composer Companion; The Tape Doctor; TELEMED (improvement patch for Telewriter); Electronic Author

**PRICE:** £0.50 each; will haggle for batches of five and over. (plus post)

**BOOKS:** THE DRAGON COMPANION, M. Jarvis; PROGRAMMING the DRAGON for Sound and Graphics, Geoff Phillips; GUIDE to the D32, Ian Sinclair; All in good condition.

**PRICE:** SPECIAL REDUCTION - £0.50P EACH! (plus post)

There are also 20 original games tapes, including adventures, like Madness and the Minotaur, Backtrack, Golf (P.S.S.), Stockmarket, Interplanetary Trader, Grand Prix, Graphic Animator, Combat Air Patrol and 10 Spanish programs produced by Eurohard.

**PRICE:** £0.20 each, YES! 20 pence!, or offers for lots of 5 and over. (plus post)

As always, reasonable offers considered for any of these.

For more details, phone me on Worthing 207585 most evenings. —Ken Grade.

\*\*\*\*\*

## OK, YOU tell ME!

I've just run into a problem that has obviously existed for years, but one for which I can't find a simple answer, although there MUST be one!. Suppose you write a program (on a PC, of course, the Dragon doesn't suffer from this ailment) using one of the usual Basic variants. Obviously you then save it to disc in the usual manner, and you can easily dump it to printer from within Basic. No problem there, but suppose you want to save it in a format that can be read in and edited/printed by one of the standard word processor or DTP packages ..... how the Hell do you go about THAT?!. There is an ASCII facility in most Basics, I know, but even using that, the "reserved words" still read like Advanced Gibberish, so please, be generous, pass on your undoubted wisdom, and enlighten this ignorant peasant before he does something VERY nasty to this pile of electronic junk that is alleged to be a computer!.

By the way, anyone suggesting printing the listing out from Basic and scanning it back in via OCR software will be putting themselves at great personal risk unless they can also supply an OCR program that has 100% accuracy! ..... all the ones I've got are semi-literate at best!. Paul G.



**The Late, Late Bit . . . . .**

I KNOW it's a mistake to listen to politicians, so it's really my own fault if I get confused, but can ANYONE make sense of the current conflicting claims about that legendary mess known as The Internet?. Try this, for example: "We must have more computers linked to the Internet in every school, and all children should have their own e-mail address" . . . . . and "It is a matter of extreme urgency that our children must be protected from sexual exploitation and exposure to perverts and pornography on the Internet". OK, it doesn't matter whether or not you agree with either claim, they are completely incompatible, so how can the same prats make BOTH statements within a week?!. Fair enough, most don't even know the difference between a Pentium and a Playstation, and haven't a clue what either e-mail or Internet might be . . . . come to that most of them don't even know what pornography is either . . . . they're they sort of prats that think B&Q runs a chain of sex shops because they've seen ads about "everything for the DIY enthusiast", but they are also the prats that make laws about what YOU can or can't be allowed to do (or even think!), and what you can or can't have on your computer . . . . are you SURE that collection of line-art graphics doesn't contain something that an enthusiastic Magistrate (who happens to be a shoe fetishist in his spare time) could claim was pornography?!. Do you realise that several politicians have claimed that "any child with a computer can access the Internet and be exposed to Pornographic Material"?. Personally, I reckon the "child" would have to be old enough to own a major credit card and open an account with Compuserve, AOL, etc, own a fairly rapid and expensive PC type machine with a high speed modem attached, and have parents careless or indulgent enough to ignore regular phone bills the size of the National Debt . . . . in which case, said "child" is quite old enough not to need "protecting" . . . . but of course, it would be unfair to suggest that all this concern about moral welfare might be an excuse for official monitoring of Internet material and mailboxes, wouldn't it?, or that the enthusiasm for all brats to have Net access and use e-mail would provide the excuse for the excuse!. So, it can't possibly be that, and it can't possibly be that Our Glorious Leaders (past, present and future) are so ignorant that they don't know what they're talking about, so what IS the answer?. Suggestions to Downing Street, please, not me!.

Paul G.

**Advertising from the TI Group.**

\*\*\*\*\* FOR SALE \*\*\*\*\*

Dragon 32, no leads or transformer but believed working. Any offers?.  
 New disc drives now in stock. 5.25 40 and 80 track, single or double sided, from £6.00 each. Leads made up as required.  
 The 40 track drives are new Epson beige face SD621L Price including post £28.00 each. The DS 80s are new ex-equipment (ex-IBM), either cream faced ALPS DFC642B09A, or black faced TEAC FD55/GFR and GFV £16.00 each including postage.  
 CUMANA self-powered disc drive cases, fitted with your choice of drives ... phone your specification for price, please.  
 NEW supply of 5.25 floppies for sale, only £2.00 for 10 bulk stock with sleeves but no labels, but including postage, or boxed with labels at £2.50 for ten inclusive. Please phone for large quantity prices.

\*\*\*\*\* WANTED \*\*\*\*\*

62256LP-15 or better cmos memory, new or pulls, in any quantities.  
 TMS 9900, 9901, 9902, 9904, 9929A chips, as used in TI computers urgently wanted.  
 All and any Texas computers, parts, cartridges, anything TI purchased!.

Please telephone Ross Bennett, after 8.00 p.m or at weekends on 0161-430-7298.  
 Fax 0161-483-4516 any time.  
 Ross Bennett. 20, Oak Avenue, Romiley, Stockport. SK6-4DN.

\*\*\*\*\*

## GROUP ADVERTISING PAGES

### **SUTCLIFFE ELECTRONICS**

LETTER WRITER UTILITY PROGRAM NOW FREE!. JUST SEND A DONATION TO COVER COSTS!.  
BASIC 42 FOR DOS V1.0 OR E6 ALSO AVAILABLE,~ SMALL CHARGE FOR PHOTO-COPYING  
MANUALS ..... WRITE FOR FURTHER DETAILS.

QUERIES AND ORDERS TO: J.SUTCLIFFE, 15, WEST STREET, HOTHFIELD, ASHFORD, KENT.

\*\*\*\*\*

### **PHOENIX MIDI INTERFACE .**

IF YOU HAVE A MIDI KEYBOARD OR OTHER MIDI DEVICES, BUT NOT ENOUGH HANDS TO PLAY  
THE VOICES YOU WANT ALL AT ONCE, THEN THIS IS FOR YOU!!.

THE DEVICE HAS STANDARD MIDI IN, OUT, AND THROUGH PORTS, AND CAN BE INTERNAL  
(TOGETHER WITH DOS CARTRIDGE) OR EXTERNAL FITTING. SUPPLIED WITH THE NECESSARY  
NOW SUPPLIED WITH JOHN PAYNE'S FORTH IMPLEMENTATION FOR THE DRAGON WHICH

INCORPORATES SOFTWARE TO PLAY MIDI INSTRUMENTS.

INTERNAL (uncased) .....£30.00

EXTERNAL (cased) .....£35.00

Ian Jones, 2, Rushton Drive, Middlewich, Cheshire. CW10-0NJ.

Phone 0606-834473 evenings only.

\*\*\*\*\*

### **UP-2-DATE COMPILATION DISCS**

THE UP-2-DATE COMPILATION DISCS ARE STILL AVAILABLE!. DISC 1: MAINLY DUMPS FOR  
EPSON PRINTERS AND INCLUDES THE ABILITY TO PROCESS COMPRESSED GRAPHICS. DISC 2:  
COLLECTION OF UP-2-DATE "SHOWCASE" PROGRAMS. DISC 3: COLLECTION OF GRAPHICS  
PROGRAMS, MANIPULATORS, EDITORS, CREATORS, ETC. DISC 4: HUGE COLLECTION OF  
COMPRESSED GRAPHICS, PLUS "PAKKER" PROGRAM FOR COMP./DECOMPRESSING. *PRICE IS*  
*£3.50 INCLUSIVE PER DISC, FULL SET OF FOUR FOR JUST £12.00.* AVAILABLE EITHER  
FROM RAY SMITH, 5, GLEN ROAD, PARKSTONE, POOLE, DORSET. OR FROM PAUL GRADE.  
ALL CHEQUES PAYABLE TO N.D.U.G., OF COURSE. BUY A SET FOR CHRISTMAS!

\*\*\*\*\*

### **FOR SALE .**

DRAGON EPROM PROGRAMMER (WINDRUSH), WITH BUILT-IN ED/ASSEMB/MONITOR. CAN HANDLE  
ALL 25xx/27xx EPROMS UP TO 27256. ALSO 16 DRAGON CARTRIDGES WITH EXTRA  
PROGRAMMED EPROMS (APPX.80 IN ALL - 30 DIFFERENT CART. PROGRAMS), PLUS 6  
DEVELOPMENT CARTRIDGE PCBs AND LOTS MORE BITS & PIECES. £120.00 FOR THE LOT.  
R.MORTON. HONEYBROOK, COOLEA, MACROOM, Co.CORK. EIRE. (PHONE:-00353-2645480).

\*\*\*\*\*

### **WANTED!**

WANTED - URGENTLY!!!. MANUAL, OR ANY INFORMATION AT ALL ON A PANASONIC KX-P3151  
DAISY WHEEL PRINTER!. PLEASE CONTACT:- GARETH TUTTIETT, 2, HOUNDWOOD CLOSE,  
STREET, SOMERSET. BA16-9PU. TELEPHONE: 01458-445684.

\*\*\*\*\*

### **BARGAIN!**

5.25" DRIVE CASE AND PSU, IDEAL FOR USE WITH DRAGON OR AS EXTERNAL CASE/PSU FOR  
PC DRIVE, CD, TAPE DRIVE, OR WHATEVER. CASE SCREWS MISSING, BUT OTHERWISE ALL  
OK: £10.00 INCLUDING POSTAGE. (IT'S HEAVY!).

CONTACT G.J.TUTTIETT ON 01458-445684, PLEASE.

\*\*\*\*\*

### **THIS IS BEYOND A JOKE!**

THIS MONTH STEPHEN MANAGED TO MAKE UP A WHOLE SEVEN PAGES FOR UPDATE, WHICH LEFT  
ME WITH THE INTERESTING OPTIONS OF SENDING YOU AN EIGHT PAGE NEWSLETTER,  
ATTEMPTING TO INVENT EVEN MORE GARBAGE TO PAD THE THING OUT WITH THAN USUAL, OR  
USE MATERIAL THAT SHOULD HAVE BEEN RESERVED FOR THE NEXT ISSUE. NOT AN IDEAL  
SITUATION, AS I'M SURE YOU'LL AGREE. YES, I KNOW SOMEONE SHOULD DO SOMETHING  
ABOUT IT .... BUT GUESS WHO THAT "SOMEONE" IS .... THAT'S RIGHT, **YOU!**..

SO DON'T SIT THERE, GET WRITING!.

\*\*\*\*\*

\*\*\*\*\*

# **NEW LOW PRICES!.**

DRAGON DETOUR ADVENTURE GAME now £2.00  
 EZEE ADVENTURE WRITER UTILITY £2.50  
 EZEE M/C TUTORIAL DISCS 1&2 (ech) £2.00  
 R.A.D FUN DISC (24 progs) now £2.00  
 R.A.D ANITUNES (music & pix) £2.00  
 R.A.D BEST OF INPUT LISTINGS £2.00  
 DISC EDITOR UTILITY £2.00  
 DRAGON/COCO DISC CONVERTER now £2.00  
 COCO/DRAGON DISC CONVERTER now £2.00  
 DRAWEZEE GRAPHICS UTILITY(T or D) £2.00  
 NDUG FORTH OS & ASSEMBLER now £4.50  
 LOTTERY NUMBER GENERATOR now £1.50  
 AMATEUR RADIO UTILITIES(2 discs) £4.00  
 DAVE CADMAN'S POETRY DISC now £2.00  
 EINE KLEINE NACHTMUSIK DISC now £2.00  
 DISC UTILITIES COLLECTION No2. £2.00  
 RAMDISK EXTRA DISC now £2.00  
 NEWCOPY TAPE COPY UTILITY(T) £2.50

DRAGON 32 & 64 CIRCUIT SHEETS £1.00  
 DRAGON/COCO/CUMANA DOS SHEETS £0.75  
 D32 TO 64k UPGRADE MANUAL £1.50  
 HELPLINE LIST (now being revised).  
 DRAGON MUSIC QUIZ DISC. now £2.00  
 DRAGON SUPER QUIZ DISC. now £2.00  
 TETRIS.(PAYNEFORTH VERSION) £2.50  
 PC/DRAGON EMULATORS. .(TWO PROGRAMS  
 TO RUN DRAGON/COCO SOFTWARE ON YOUR  
 PC. ONLY £4.00 THE PAIR!. AVAILABLE  
 IN ANY PC DISC FORMAT). now £4.00  
 (Please state disc format required)  
 \*\*\*\*\*  
 ALL CHEQUES & ORDERS TO PAUL GRADE.  
 AT 6, NAVARINO ROAD, WORTHING, SUSSEX.  
 CHEQUES PAYABLE TO N.D.U.G. PLEASE.  
 \*\*\*\*\*  
 ROTABB ..... £3.50  
 BALLDOZER ..... £3.00

\*\*\*\*\*

## **THE DRAGONART GRAPHICS LIBRARY**

CONTAINS THE BIGGEST SELECTION OF DRAGON GRAPHICS SCREENS ANYWHERE!, PLUS A  
 LARGE SELECTION OF MAINLY GRAPHICS RELATED UTILITIES, SCREEN DUMPS, ETC. ALL  
 AVAILABLE TO YOU AT A SMALL NOMINAL CHARGE. FOR FULL DETAILS AND LISTS WRITE TO  
 THE LIBRARIAN, 5, GLEN ROAD, PARKSTONE, POOLE, DORSET. (enclosing s.a.e please).

## **DRAGON NOTEBOOK**

HUNDREDS OF USEFUL HINTS AND TIPS .... ESSENTIAL READING FOR ALL DRAGON USERS.  
 JUST £3.00 FROM THE DRAGONART LIBRARY AT THE ABOVE ADDRESS.

## **UP-2-DATE DISC MAGAZINE**

THE BI-MONTHLY DISC MAGAZINE FOR ALL DRAGON USERS (ALTERNATES WITH UPDATE).  
 STILL ONLY £2.00 PER COPY AND ALMOST AS GOOD AS UPDATE!.. DON'T DELAY ANY  
 LONGER, SEND YOUR ORDER NOW TO:-

UP-2-DATE EDITOR, 5, GLEN ROAD, PARKSTONE, POOLE, DORSET. CHEQUES PAYABLE N.D.U.G

## **D.T.P. FOR THE DRAGON**

THE GROUP DESKTOP SYSTEM, IN DRAGON OR COCO DOS VERSIONS, WITH DOZENS OF FONTS  
 AND FORMATS, AND HUNDREDS OF USES!. AVAILABLE ONLY FROM THE DRAGONART LIBRARY.

CONTACT THE LIBRARIAN FOR FULL DETAILS AND VERSIONS AVAILABLE.

\*\*\*\*\*

## **UPDATE BACK ISSUES**

Reprinted to order at just 7 pence per side copied. (average cost 98P per issue  
 inclusive.). Please send your cheques & orders to:

ALAN GREENWOOD, 132, WENDOVER DRIVE, ASPLEY, NOTTS.NG8-5JN.

\*\*\*\*\*

## **DRAGSOFT SHAREWARE.**

"DATA MAKER", TURNS M/C INTO DATA FOR BASIC PROGS. "SETTER" ADJUST YOUR DRAGON  
 FOR BETTER COLOUR AND SOUND. "SLOW BUT SURE" EPSON SCREEN DUMPS .. EXTRA SMALL  
 TO A4 .. ALL 5 HI-RES, LOW-RES, AND TEXT. ALL NOW AT £2.00 EACH PLUS A SMALL  
 DONATION TO BE SENT TO N.D.U.G FUNDS. PLEASE STATE DRAGONDOS DISC OR TAPE.

CHEQUES/PO'S MADE PAYABLE TO:-

MIKE TOWNSEND, Basement Flat, 46, HEWLETT ROAD, CHELTENHAM. GL52-6AE.

\*\*\*\*\*

## **WANTED!**

THE EDITOR IS IN NEED OF A DRAGON KEYBOARD IN WORKING ORDER, 32 TYPE WOULD BE  
 OK, BUT A 64 ONE WOULD BE BETTER. CAN ANYONE ASSIST?.

PLEASE CONTACT STEPHEN AT THE USUAL ADDRESS.

\*\*\*\*\*