

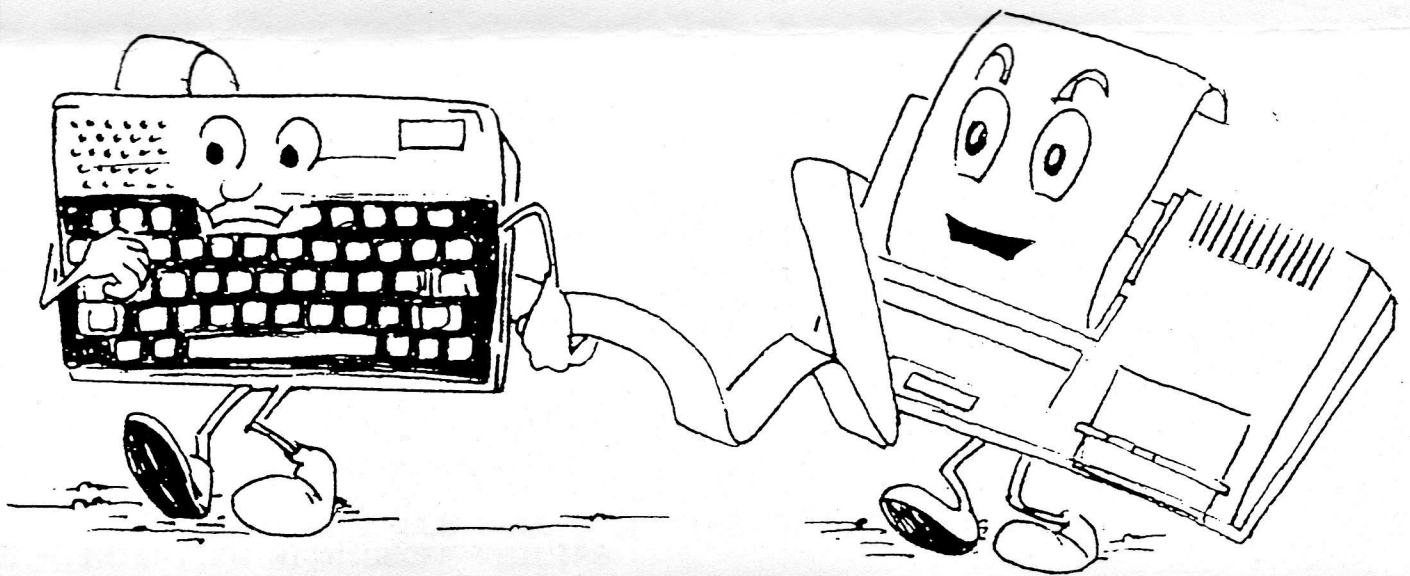
ORIC

USER MONTHLY

Europe's longest running
Oric magazine

Number 39
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All roads lead to ...



The Alternative Micro Show

Edited and Distributed by Dave Dick, 65 Barnard Crescent, Aylesbury, Bucks HP21 9PW

THE EDITORIAL

HELLO, AND WELCOME TO ISSUE 39. IT IS SUNDAY AFTERNOON, LIVERPOOL HAVE JUST HAMMERED TOTTENHAM AND ALL GAZZA CAN DO IS SING "FOG ON THE TYNE", MORE LIKE FOG BETWEEN HIS EARS.

THE RADIO IS ON AND I AM TYPING TO THE SOUND OF THAT GREAT GROUP 'THE CURE'. IT IS THE CHART SHOW AND I AWAIT MY FAV OF THE MOMENT. IT IS 'GOOD MORNING BRITAIN' BY AZTEC CAMERA WITH THE INCREDIBLE MICK JONES FROM 'BIG AUDIO DYNAMITE'. ROCK ON TOMMY!!

A PACKED ISSUE THIS MONTH - LOTS OF ARTICLES ETC. THE DECEMBER ISSUE WILL BE A LITTLE LIGHTER READING, INCLUDING AN IN-DEPTH LOOK AT SOME OF MY SOFTWARE. ARTICLES FOR INCLUSION FOR ISSUE 40 SHOULD BE WITH ME BY NOV. 24th.

HANG ON A MD! SORRY IT WAS THE 'DOG AND BONE'. NOTE TO NORWEGIAN READERS: "DOG AND BONE" IS COCKNEY RHYMING SLANG FOR "STONE". I BET YOU DON'T HAVE A STONE THAT RINGS, ANYWAY IT WAS HENRY FROM PORTSMOUTH ON THE PHONE. HE IS RINGING UP TO SAY HE HAS RECEIVED "GREDEL" AND THINKS IT IS TREMENDOUS. HENRY AND HIS WIFE ARE BOTH IN THEIR SIXTIES, WHICH PROVES IT IS NEVER TOO LATE TO ENJOY A GOOD ARCADE GAME. ANYWAY BACK TO THIS - MUST FINISH IT AS THE WIFE WANTS TO GO TO BINGO. HANG ON; SORRY IT'S THE PHONE AGAIN. IT'S MY BROTHER-IN-LAW. HE WANTS AN ATMOS FOR HIS NEICE FOR XMAS. ANOTHER USER - GREAT. I'LL SEE IF I CAN SELL THEM ONE OF MY JOYSTICK INTERFACES AS WELL.

WELL HERE WE GO, FOREVER ONWARD AND OH! YES; THE BAD NEWS IS THAT I WILL AFTER ALL BE AT THE STAFFORD SHOW THIS SATURDAY NOV. 10th. SEE YOU THERE!!

THIS ISSUE
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- P1 - THE FRONT COVER - A LA JON
- P2 - THE EDITORIAL - LIKE ALL MY PAGES THIS TIME, IT IS DONE VIA 'VORTEX'
- P3 - NEWS/NEWS/NEWS - DISC DRIVES AVAILABLE SOON.
- P4 - TWO PROGRAMS FROM ANDRE MIDHANI OVER THERE IN GERMANY. THE FIRST IS A ROUTINE TO STOP THE CURSOR FLASHING. NEXT TIME HOW TO STOP THE VICAR FLASHING. THE SECOND IS A SUBROUTINE TO PUT INTO YOUR OWN PROGRAMS.
- P5 - BITS AND BOBS - INTRODUCING 'SHAKY'.
- P6/7 - RAMBLING IN THE ROM WITH JON.
- P8 - READER'S LETTERS; EXCLUDING THE RUDE ONES.
- P9 - NOT PAGE THREE - DISASSEMBLY OF PAGE TWO. PERSONALLY I WOULD RATHER DISASSEMBLE PAGE 3 OF "THE SUN".
- P10 - INTERVIEW WITH GEOFF PHILIPS
- P11 - VORTEX - THE FULL MANUAL IS IN FRENCH AND JON'S IS ONLY A BRIEF RESUME. SO AFTER MY TEACH-IN FROM ANDRE I MADE NOTES AND THIS MONTH THE FIRST PART. I HOPE YOU FIND IT OF INTEREST, ESPECIALLY TWO READERS WHO ASKED FOR COPIES OF MY NOTES. PLEASE NOTE - IN THE ARTICLE I STATE A4 SIZE TO BE 69; IN FACT I FOUND 70 WAS BETTER. ALSO WHEN I SAY CTRL'R' TO RESUME PRINT, I SHOULD OF MENTIONED TO DO A CTRL'P' FIRST.
- P12 - THE LAST WARRIOR. CHRIS ALSO INFORMS ME HE DID THE MAP BEFORE HE WENT TO THE PUB AND HIS LETTER TO ME AFTERWARDS - I AM NOT SO SURE.

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DISC DRIVES

As we go to Press, news is formulating with the regard of the supply of disc drives for your ORIC. As you may be aware, David Utting was at one time selling CUMANA interfaces. At the same time Steve Hopps at OPELCO was selling his single/twin drives. Then 2 things happened. David ran out of interfaces. Secondly, Mr. Hopps was very slow at answering his mail & in fact some readers probably never have got answers. Well Steve says he has changed his habits - he has more time on his hands. To Prove this, he will make Public his home telephone number. O.K. that's the background and now for the news. Steve has bought up all the ORIC bits and bobs from CUMANA.

He is going to offer certain options e.g. Interface only, UNCASED I/Face, with drive - 3", 3.5", 5.25" etc. PLUS his standard OPELCO single/twin drives. Prices are being finalised. It depends a lot on what you, the buyer want. Recently the Price for the OPELCO single drive was \$150 and a while back David Utting's interfaces were \$50. Well now you know the sort of Price we are looking at, make up your mind. You can if you wish, send all your enquiries relating to drives to me and I will Pass them on to Steve. Let me know what sort of Package you want; some will want the complete works, whilst others will build cases etc. themselves. Also let me know the Price area you are Prepared to negotiate. Get this to me fast - be first in the queue - BUT WHAT'S THE RUSH. Well, an boxed advert appears in the NEW COMPUTER EXPRESS this or next week. Steve is offering the above Packages to the world under his OPELCO banner. So be first.

NEWS FROM LEAMINGTON SPA

Rob Kimbrenley informs me that he and Jon Haworth hope to 'cook up' something for 'O.U.M.' on the BYTE DRIVE 500 system, which will hopefully be of interest to the 'regular' Oric guys. (Are the 'regular' guys the one's who eat their All Bran - The Ed). The BD500 has a nasty little hybrid circuit (which is all potted up, and no circuit details are available); but Rob hopes to hook up a logic analyser to see if he can discover the boot-up sequence, and hopefully use that information to (if it's possible!) build a compatible version of the hybrid with readily available components.

NEWS FROM NORWICH/BRISTOL

David Goodrum has been having 'fun' recently with his newly purchased MODEM. He says that the modem business was/is a real Pain - the BBC system doesn't seem to care whether V25 exists or not. The ORIC modem (or software) seems to require this. Obviously, unless the ORIC end can be amended; it does mean that the number of bulletin boards that can be accessed is small (or at least smaller).

NOTE - NOTE - NOTE - thanks to Alan Whitaker, David Goodrum and Scott Davies; we now have a BULLETIN BOARD DIRECTORY for ORIC users with a Modem. Send an S.A.E for a copy.

NEWS FROM AYLESBURY???

Recently in Computer Express was a letter from a William Hurst from Aylesbury - he had 240 Programs, wrote his own software, a mouse driver etc. Does this guy exist or is it a wind up!

SEDORIC users have the option to make the cursor non-flashing. Here comes a small program (for all who don't use SEDORIC), which prevents the cursor from flashing :

```
10 I = #2D0
20 REPEAT : READ A$ : A = VAL(A$)
30 POKE I,A : I = I+1 : UNTIL A$ = "*"
40 IF PEEK(#FFE7) = 0 THEN 60
50 DOKE #24B,#2D0 : POKE #24A,76 : NEW
60 DOKE #231,#2D0 : POKE #230,76 : NEW
70 :
100 DATA #48          ' PHA
110 DATA #A9,#00     ' LDA #$00
120 DATA #8D,#71,#02 ' STA $0271
130 DATA #68        ' PLA
140 DATA #40        ' RTI
150 DATA *
```

This program works by intercepting the interrupt routine and sets the cursor on/off flag (memory location \$271) to zero (e.g. cursor is visible).

Works on any ORIC.

Use the following subroutine in your program :

```
63000 REM *** CHARACTER SET ***
63001 :
63002 I = #B800
63003 REPEAT : READ A$ : A = VAL("#"+A$)
63004 POKE I,A : I = I+1 : UNTIL A$ = "*"
63005 CALL #B800
63006 RETURN
63007 :
63010 DATA A2,00
63011 DATA BD,00,B5,4A,1D,00,B5,9D,00,B5
63012 DATA BD,00,B6,4A,1D,00,B6,9D,00,B6
63013 DATA BD,00,B7,4A,1D,00,B7,9D,00,B7
63014 DATA CA,DO,DF,60,*
```

Type GOSUB 63000. The address in lines 63002 and 63005 can be changed to any other suitable address.

A. WIDHANI

H.G.C

Following up to the story of Alan Whitaker and H.G.C. we have some more news. People obviously want arcade games etc. for their ORIC and so I am currently negotiating with Alan to take over the bulk of his software sales side. This will free Alan to concentrate on hardware/peripherals/books/and the serious software - utilities etc. Alan will trade under a different and more apt name. Final negotiations will take place at Stafford. Full report in the next issue.

ALTAI JOYSTICK INTERFACES

The ALTAI is PASE compatible and will therefore work with the likes of XENON III, PASTA BLASTA, ATTACK OF THE CYBERMEN, SPACE SHUTTLE (use the Left Hand Port) and LOKI (use R.H. Port). BEST OF ALL is the fact that it works with the Great tennis game ROLAND GARROS which was given with the last JEO. I have been playing 2 Player on it, but found the following: a) keep the sound off as it distorts, b) if loading from disc, only insert 1 joystick, then load the game and finally insert the second joystick. My OPELCO seems not to be able to fully boot with 2 joysticks in. I am told that ZEBBIE and LONE RAIDER will work on either the ALTAI or DK'TRONICS, unfortunately I cannot remember which.

COMPETITION

Response to last month's competition was PATHETIC. Only 1 entry and he got it wrong. Do you want competitions or they to hard. A last chance this month. Win the #5 software voucher from MIRAGE. The question is: How do you spell ORPHEUS? I will give you a clue - the word appears in the Geoff Philips interview.

GRENDEL

Sorry but the tip for GRENDEL in the last issue was wrong. It should read SHIFT + and NOT CTRL +.

SHAKY

Matthew Shakeshaft has been busy lately. He looked at the Pools Program from ORIC OWNER that I sent him and decided he could do better. Look out for it soon in the PUBLIC DOMAIN. Matthew is also currently working on THE BOSS from PEAKSOFT. He is speeding the program up and improving it all round and hopes to use graphics in it.

HISTORY OF THE ORIC

The story of the ORIC so far is a 23 page publication from Jon Haworth in a nice binder at #2 incl. Post. I recently sent it to the N.C.E and they gave it a nice plug. A very good read is Jon's book.

ISSUE 38 of O.U.M WENT OUT TO 64 SUBSCRIBERS - AN INCREASE OF 50% IN THE LAST 5 MONTH'S. WITH THE INTEREST I HAVE RECEIVED IN THE LAST FEW DAYS; THIS ISSUE SHOULD REACH 70. THE CLUB EUROPE ORIC HAS 93 SUBSCRIBERS - WE ARE BOTH GROWING FAST - A MERGER - SEE NEXT ISSUE !!

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RAMBLING IN THE ROM - 20AMS4

There will be no less than four Oric stands at the Alternative Micro Show at Stafford on the 10th, and I shall be there representing C.E.O. It should be a good day out - do make the effort to come along!

Club Europe Oric

All members should have received the Summer edition of the J.E.O., let me know if you haven't. The next JEO-MAG is imminent, and will include a request that you give your views on the continuation of the JEO on disc/cassette. The amount of work involved in producing the magazine on disc/cassette is enormous, I know, and I only duplicate them! There are two suggestions - firstly to opt for the printed magazine only; secondly to rely on the printed magazine for news, articles, etc., and to send with it quarterly a disc/cassette of software. My own view is that the second option is very acceptable, particularly now that the quality of the printed mag makes the disc/cassette mag rather redundant. What do you think?

Cassette relay control

There've been quite a few disc-based articles in RAMROM recently, so I thought it was time to turn my attentions to those of you using cassettes. If you use the relay lead to stop/start your recorder, you'll have found that when saving a program, the relay starts the motor too late for it properly to record the start of the program you're saving. It works fine, of course, for loading. Wouldn't it be nice to be able to control the cassette recorder motor independently of the CSAVE command? Well here goes...

This short machine code routine permits control of the remote facility using the FUNCT key on the Atmos. It is poked into £400 by the Basic loader program, but can be easily located anywhere in free memory by changing line 130 by a DOKE £23C, address. RUN the program, and when 'Ready' reappears, the message 'REMOTE ON OFF' appears at the top of the screen. If you press the FUNCT key, the word 'ON' is lit up, and the recorder will run. otherwise 'OFF' is lit and the recorder stops.

There is a modification for the ORIC 1 which uses the CTRL key to operate the facility.

Over the page for the listing...

```

5   F=#400
10  REPEAT:READ A: IF A=1000 THEN 15
12  POKE F,A: F=F+1
15  UNTIL A=1000
20  DATA #48                                'PHA
21  DATA #AD, #09, #02                      'LDA $209
22  DATA #C9, #A5                            'CMP 'Funct'
23  DATA #F0, #13                            'BEQ 'on'
24  DATA #A9, #04                            'LDA #$04
25  DATA #8D, #92, #BB                      'STA $BB92
26  DATA #A9, #06                            'LDA #$06
27  DATA #8D, #95, #BB                      'STA $BB95
28  DATA #A9, #F7                            'LDA #$F7
29  DATA #8D, #02, #03                      'STA $0302
30  DATA #68                                'PLA
31  DATA #4C, #78, #EB                      'JMP $EB78
32  DATA #A9, #06                            'LDA #$06
33  DATA #8D, #92, #BB                      'STA $BB92
34  DATA #A9, #04                            'LDA #$04
35  DATA #8D, #95, #BB                      'STA $BB95
36  DATA #A9, #07                            'LDA #$07
37  DATA #8D, #02, #03                      'STA $0302
38  DATA #68                                'PLA
39  DATA #4C, #78, #EB                      'JMP $EB78
50  DATA 1000
100 A$="REMOTE on off"
110 FOR F=1 TO LEN(A$)
115 POKE #BB8B+F, ASC(MID$(A$,F,1))
120 NEXT F
125 POKE #BB8B,5: POKE #BB92,3
130 DOKE #23C, #400

```

Modifications for Oric-1

```

line 130 - DOKE #229, #400
line 31  - DATA #4C, #03, #EC                'JMP $EC03
line 39  - DATA #4C, #03, #EC                'JMP $EC03
line 22  - DATA #C9, #A7                    'CMP 'Ctrl'

```

The REM statements give the assembler mnemonics.

Tail-ender

'Tetris' has now been converted to cassette, and as soon as I get a copy from France will be available to Club members for 3.99 including p.&p. It's easily the best piece of Oric software since 'Willy', and thoroughly recommended.

Jon Haworth

READER'S LETTERS
=====

DAVE,

a couple of questions that perhaps you or D.U.M readers could answer for me:

- 1) I have nearly completed screen 2 of WILLY, but nearly is not enough. Do you know any cheat modes?
- 2) I have that dreadful BASIC compiler from 'Program Factory Ltd', named 'T-COMP' (the one that only compiles half a dozen statements). I seem to have lost the instructions. I wrote to 'Program Factory' several months ago, but no reply - another vanished company! Do you know where I could obtain a copy?
- 3) Do you know if 'MICROPRIDE LTD.' still exist? They used to sell the ORIC Joystick and various hardware kits.

- David Goodrum (Norwich)

ANSWER: Well david here we go:

- 1) Monsieur Talvas (Club Europe Oric) sent me the cheat version of WILLY. That's how I know screen 6 is such a teaser. Perhaps Jon could make this version available to those who bought an original.
- 2) You have stumped me on 'T-COMP', perhaps someone out there can help.
- 3) The latest "REGISTER OF COMPANIES" in your local library should tell you if 'MICROPRIDE' are still trading. I, in fact, recently acquired an ORIC Joystick - it is rather a rigid one compared to the QUICKSHOT II TURBO.

DAVE,

Can you take sound direct from the ORIC to tape; for example when using COMPOSER; as obviously placing a microphone next to the computer does not give a good recording?

Also can the sound be made to come out of the T.V. speaker?

- Robert Cook (Birmingham)

ANSWER

Well Rob, just recently I saw an article in either a magazine or book to solve the first problem. Unfortunately I cannot remember where. To save me wading through everything; can someone out there please, please HELP.

Also I have somewhere a diagram from a 'THE ORIC' magazine which allows Stereo Playback.

NEW COMPUTER EXPRESS

Just recently I have been in contact with Keith Pomfret - Technical Editor of 'N.C.E'. Thanks to him, we are now getting some interesting articles and letters printed. Response from ORIC users who did not know of the existence of a user group has been very good.

Keith now needs some help from us. He wants the sort of technical information, which is not found in the MANUAL. I, of course, will pass on anything that I have (e.g.: Disc Drive info, utilities, bugs, circuit diagrams, lists of peripherals etc.). BUT, I NEED YOUR HELP. Please, if you have anything, which you may think relevant; send 2 photocopies to me at D.U.M. I will pass one on to Keith and keep one on file, so that other users can benefit.

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MINITEXT

Alan Whitaker has withdrawn from sale the disc version of MINITEXT from OPELCO, due to a bug in the program.

FRENCH SOFTWARE

If you require instructions for any French titles; send an S.A.E

NOT PAGE THREE

Disassembly of Page Two (continued)

278-279	1.1		Address of second screen line (#BBDO/#BF90 Text/Hires)
	1.0		Unused
27A-27B	1.1		Address of first screen line (#BBA8/#BF68 Text/Hires)
	1.0		Unused
27C-27D	1.1		No. of characters to scroll (normally #410,1040)
	1.0		Unused
27E	1.1		No. of lines to scroll, normally 27
	1.0		Unused
27F-28F	1.1		Name of program to be loaded
	1.0		Unused
290-292	1.0	1.1	Unused
293-2A3	1.1		Name of program found
	1.0		Unused
2A4-2A7	1.0	1.1	Unused
2A8-2B1	1.0		Unused
2A8	1.1		Header, unused
2A9-2AA	1.1		Header, program start address
2AB-2AC	1.1		Header, program end address
2AD	1.1		Header, program type (#00 Basic, #80 MC, #40 Str)
2AE	1.1		Header, Auto (0 if not)
2AF	1.1		Header, array flag
2B0	1.1		Header, integer flag
2B1	1.1		Header, errors during loading flag
2B2-2BF	1.0	1.1	Unused
2C0	1.0	1.1	Mode flag Bit 0 - 0=text, 1= hires 1 - 0=grab, 1=release
2C1-2C2	1.0	1.1	Himem top in RELEASE mode(#9800) Character set start address in Hires mode
2C3	1.0	1.1	Addr. mode of hires cursor (1=relative, 0=not)
2C4-2DE	1.0	1.1	Unused
2DF	1.0	1.1	Last key pressed Bit 7=0: no key pressed Bit 7=1: bits 0-6 contain key ASCII code

(to be continued)

INTERVIEW WITH GEOFF PHILLIPS
=====

THOSE OF YOU WHO ATTENDED THE "ORIC MEET" IN AYLESBURY WILL HAVE MET GEOFF; OTHERS WILL KNOW OF HIM BY USING HIS SOFTWARE AND READING HIS BOOKS; GEOFF HAS BEEN RESPONSIBLE FOR THE LIKES OF: 'ORICMUNCH', 'TROUBLE IN STORE', 'ZODIAC', AND 'MEGABASE'; THIS MONTH WE PRINT THE FIRST PART OF THE INTERVIEW.

Q.1
--

WHEN YOU WERE WRITING SOFTWARE AND BOOKS FOR THE ORIC; WERE YOU ALSO DOING OTHER THINGS TO SUPPLEMENT YOUR INCOME?

A.1
--

The main reason I became self-employed in 1983 was because of the anticipated work foreseen on the ORIC. UP until then, I was involved with Paul Kaufman and the MICROTAN which could be said to be a forerunner of the ORIC in many ways. My intention was to do work for other computer companies as well as for TANGERINE/TANSOFT, (I did not work for ORIC at any time, but rather for TANSOFT). In actuality apart from a tiny bit of consultancy, most of my work in the first year and a half was for either TANSOFT or MCGRAW HILL. For MCGRAW HILL I wrote a book about the DRAGON 32, and accompanying cassette, and later the ORIC book. I also did a fair amount of reviewing for MCGRAW, for example the viability of computer books. When ORPHEUS took off in '84 I diversified onto the other 8 bits and later to the 16 bits.

Q.2
--

WHY DID YOU AND PAUL KAUFMAN START UP 'ORPHEUS', AND WHY IN THE END DID IT CEASE TRADING?

A.2
--

I only had a small part in the creation of ORPHEUS, since it was largely the conception of Paul Kaufman and Cathie Burrell, who with Geoffrey Guy were the major shareholders. Paul and Cathie were not treated very well by Tansoft, and it seemed a logical choice to create a new software company. At the time, ORIC software was at it's peak, so ORPHEUS was starting off with 4 ORIC titles: TROUBLE IN STORE which I had partially written for Tansoft, KRILLYS, HELLION, and MEGABASE. It also had some Commodore 64 titles in production: CAD 64, MEGABASE, and ELECTRO SOUND. Almost immediately the ORIC market seemed to diminish to nothing, and ORPHEUS practically abandoned the ORIC.

Q.3
--

TODAY, I BELIEVE YOU WORK FOR THE FRENCH SOFTWARE HOUSE "UBISOFT" PRODUCING FOR THE ATARI ST. YOUR 'SADDLEBACK SOFTWARE' ADDRESS IS THE SAME AS THAT OF THE OLD 'TANSOFT GAZETTE'; IS THERE ANY CONNECTION?

A.3
--

I am in FOREHILL, half way up the hill at the foot of which used to be TANGERINE's offices (now demolished). The connection is a bit obscure: I worked for Tansoft and later for Orpheus. I moved to ELY to be near Orpheus when they moved from Hatley St George (2 Forehill). The office I chose to rent is in Forehill. These days I am freelance again. I have recently done work for UBISOFT, indirectly through a company in Leicester. I also have done work with a company in London.

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NEXT ISSUE WE LEARN FROM GEOFF: HIS BEST SELLERS, THE ODDEST PRODUCT HE DID FOR TANSOFT, THE LAST GAME HE WROTE FOR THE ORIC (never released), HIS VIEWS OF THE FUTURE, THE ORIC BUGS, AND LOTS LOTS MORE.

VORTEX

When you load VORTEX; you are shown a top row which consists of :Page, Line, Col, 'P', 'J', 'M' and a blue box with a flashing dot in the corner. Press any key to initialise and your start points appear: Page 1, Line 1, Column 1. 'P' = Insert mode for a Page. 'J' = auto right justification (VORTEX does not have word-wrap) & 'M' denotes CAPS off.

The blue square is the Page and the dot your Position. Beneath this top row is the cursor, which has Pretty Pink Patterns flowing. To insert a Page; you need first to format. Press 'ESC' to main menu and 'ESC' and then 'R' to reset. Cursor to 'RESET TEXTE' on 'RESET' menu and 'RETURN'. N.B. One 'ESC' instead of two would of took you to a menu with 'REPLACE' etc. - these we will look at later. Back on your original screen; Press 'ESC' again and then 'M' to format your margins. You set up: WIDTH, LENGTH, LEFT & RIGHT MARGINS, TOP & BOTTOM. When you try to change Parameters, message appears: 'CARACTERE NUMERIQUE ATTENDU' - you are in the wrong mode for numerals. Try 'CTRL/SHIFT' or hold down the left 'SHIFT'. I have used :80,69 (A4 size), 5,5,2,2. Cursor to 'VALIDATION' & 'RETURN'. If you now try and enter some text, you will get: 'ECRIURE DANS LA MARGE HAUTE'; because you are in the margins. I can only start at line 3, column 6; so I Press 'RETURN' twice and 'voila' text will go in. In fact I hit 'RETURN' four times as I want to box in my heading. My heading is 'VORTEX' and unlike with 'EASYTEXT', I can't centre a heading, so I need to start at column 37. I get there faster by holding down the left 'SHIFT' as I depress the right cursor. Using the right 'SHIFT' and the cursors would put me to the 4 corners of the Page. Alternate between caps on/off with 'CTRL/SHIFT' or 'SHIFT'. Text scrolls from right to left allowong 80 characters Per line as opposed to 2 rows of 40. Of course if I type in the word 'VORTEX' & Press 'RETURN'; all I see is 'VO' on the right of the screen. What's that bell at column 66? It is to warn me that I have room for 9 more characters to the end of the line. I fit in my word(s) and Press 'RETURN' - the Program will space out my line so that I get right justification.

Now to box my heading in. I Position the cursor to the top left of the word 'VORTEX' & Press 'CTRL A'. Message shows: 'Origine enregistre Next I cursor to bottom right of the word 'VORTEX' & Press 'CTRL L'. Now 3 options: 'B' for BOX, 'D' for LINE (horiz. or vert.) & 'S' for SUITE. Neither Vincent or I know what SUITE does. Press 'B' and it has boxed the word. It's a little wrong, so 'CTRL D' to destroy the text and do it again.

Well I am at line 49 and want to Print before saving it. At least I will have a hard copy if I'm not successful in saving it. 'ESC' to the main menu and Press 'I' for IMPRESSIONS, which means Printing. Options are: 'TOUTES PAGES' - all Pages, 'PAIRS' - even numbers, 'IMPAIRS' - odd numbers, and NO. OF COPIES.

Let's first off number the Page. Whilst in text mode; cursor to where you want the Page number to be; Press 'CTRL A' and enter the Page number. If, for instance, you have 10 Pages and only want to Print Pages 2, 3 & 4; you use 'CTRL P' to mark the last Page required. You can Print odd or even number Pages. When you have decided which Pages and how many copies you want; you are returned to the text. To Print use 'CTRL P' and M (arche).

'CTRL P' and 'S' will suspend Printing. To restart use 'CTRL R'. 'CTRL P' and 'A' will Arret (STOP/SUSPEND) Printing. A blue 'P' on the status line lets you know when Printing is taking Place. A 'DING' signals the end. VORTEX has a Printer buffer, which allows you to continue typing whilst printing is in progress.

We all know that 'THE LAST WARRIOR' to be one of the best Graphic adventures written for the ORIC;but were you aware of the bug in it. Well,Chris Hearn has some info for you. This issue Part one of the solution and the 'bug'. Final Parts and the full map later. However,if you can't wait;Just send a large S.A.E to 'O.U.M'.

I have written the solution in 3 Parts. This is so as not to spoil the game for those who may be stuck on one or more Parts but would like to try and solve the other sections before resorting to the full solution. The first Part is for those who have found 70 or more rooms, but still can't find the items they need to finish the game. The 2nd Part is the key to the map, as it shows items which serve no purpose, and rooms/items which kill;but does not show how to use the other items. The 3rd Part is for people who have got totally frustrated with the game and have started to swear at the wife and kick the dog. It is the total solution.

PART ONE

----- In the room with the MELL (E7 on the map);you need to EMPTY the FLASK to kill the monster of the well and find the last item that you will need to escape. However, due to a fault in the Program;you will not find the flask. Just go to the room with the MELL and type : EMPT FLAS. This will kill the monster and you should then be able to search and find the last item.

=====

ZURGON'S REVENGE

A nice little tip from Brian Kidd on the classic ZURGON. When you have completed one of the screens;you find yourself on the PRINCESS ROZ screen. At this point quickly hold down the 'Z' key and keep it down. You will gain the bonus and not lose a life.

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'MIRAGE'

Latest sales figures from MIRAGE SOFTWARE are as follows:

THE HAUNT (Quilled text adventure)	- 33
GALATOSMASH (Alistair's GREAT shoot 'em up)	- 21
LEAGUE SOCCER (Play the role of Cloughie)	- 18
GRENDDEL (destined for numero uno)	- 16
CRICKET (Botham as youv'e not seen him)	- 14
INSECT INSANITY (Excellent arcade)	- 8
GRAND PRIX (should be selling better)	- 6
KRYSTAL WORLDS (text adventure - NEW)	- 4

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STOP PRESSSTOP PRESS.....STOP PRESS.....STOP PRESS.....
 The second 'ORIC MEET' will be held at the same AYLESBURY venue on SAT. FEB 9th, 1991.....STICK IT IN YOUR DIARY.