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CBM 64

46 A huge stack of new games reviewed including three PCG hits
92 Type in *Convoy* and defend Britain from the enemy armada

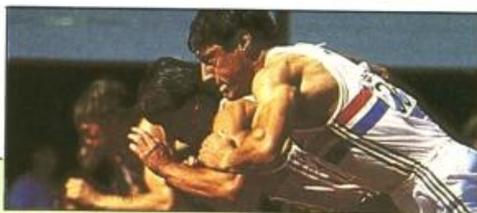
SPECTRUM

96 Breathe fire into your micro with this dragon-infested listing
54 A hit called *Trashman* - it certainly isn't junk



BBC

72 Thrilling 3D action in our Game-of-the-Month
94 Bombs away with an explosive program you can enter



VIC 20

88 Join the race to enter a great hi-res athletics listing
62 *Aaaagh!!* Look out for the Vic Video Nasties

36 CHESS CHAMPIONSHIP

We play 11 chess programs against each other and name the winner.

45 GAME REVIEWS

Page after page of them, together with screen shots and detailed ratings.

77 ORIC HIT

A great new game in which you fly to the rescue of space scientists.

110 COMPETITION

Win yourself a box of 30 games for your micro. We've got five to give away!

119 DRAGON CLASSIC

Jungle adventure is the theme of this famous Dragon 32 game.

REGULARS

If you don't like page numbers, you can use these round logos to track down your favourite section!



NOTICE BOARD 19

Laden this month with prize-winning riddles, plus our letter to you.



BUZZ 20

Amstrad prospects, new releases, charts, Whispering Horace and the hottest news.



BYTE-BACK 27

A page of lively letters, including the *Manic Miner* controversy.



FINAL CONFLICT 28

Launch of the cataclysmic war game everyone can play.



SCREEN TEST 45

New games reviewed in detail, complete with PCG hits, Game-of-the-Month, and Video Nasties.



PROGRAM LIBRARY 88

Four game listings for Vic 20, BBC, Commodore 64 and Spectrum.



CHALLENGE CHAMBER 100

Your highest game scores, and a play-off between two *Lunar Jetman* experts.



ADVENTURE-WORLD 106

Words of wisdom from the White Wizard for all adventure lovers.



COMPETITION 110

This month you can win 30 games by naming the five you like best.



PCG HOTLINE 115

Commander Chance reveals your comments on rip-off games and other matters.



GOOD BUY 116

The games which have won the PCG seal of approval.



BOOK TEST 123

The low-down on some of the latest books for games addicts.

To date, Atari's most astonishing game is Pole Position... If you are only going to buy one game, then this is the one you should get.

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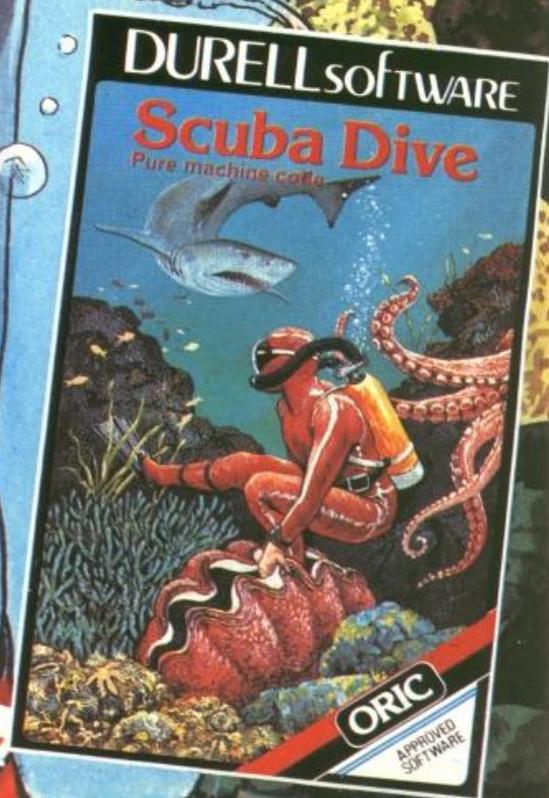
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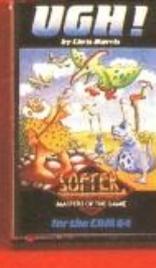
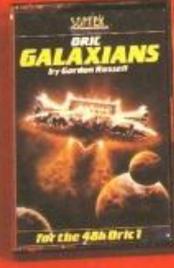
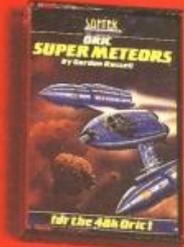
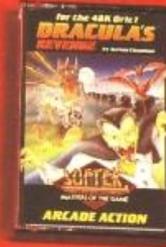
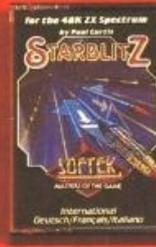
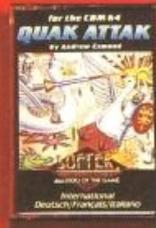
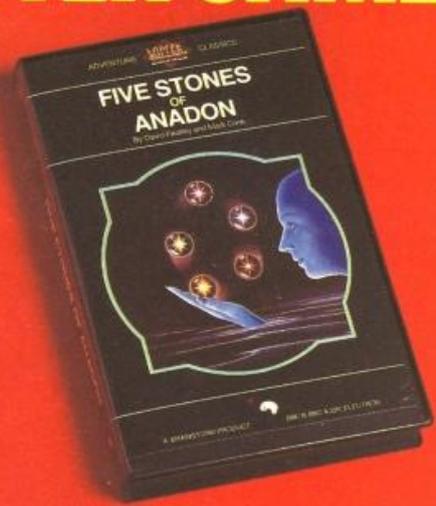
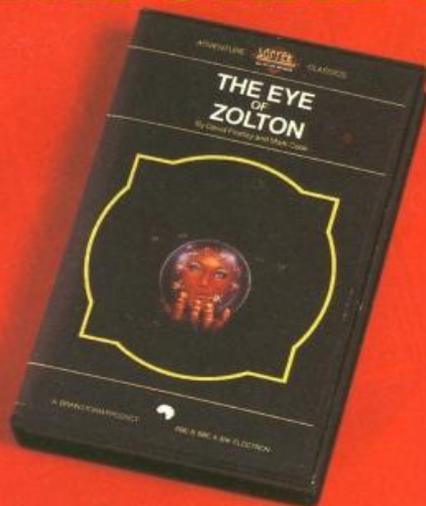
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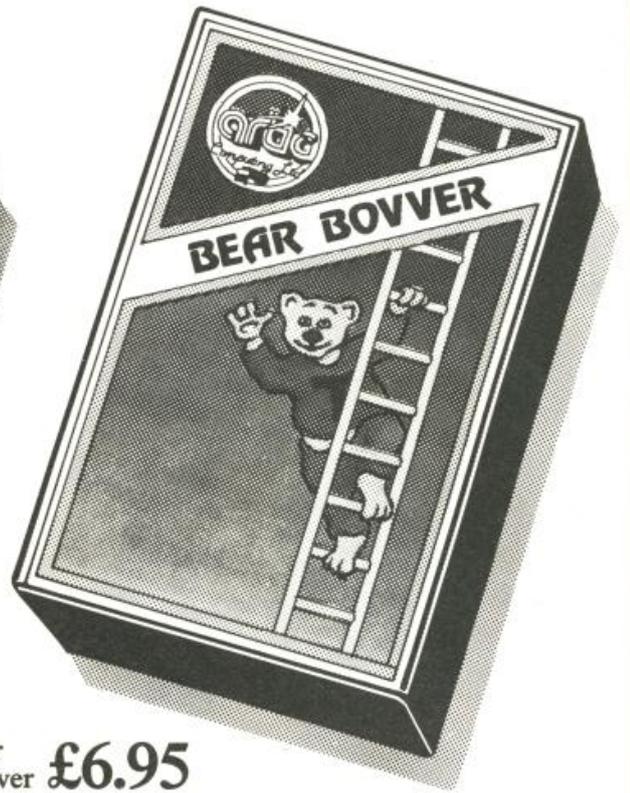
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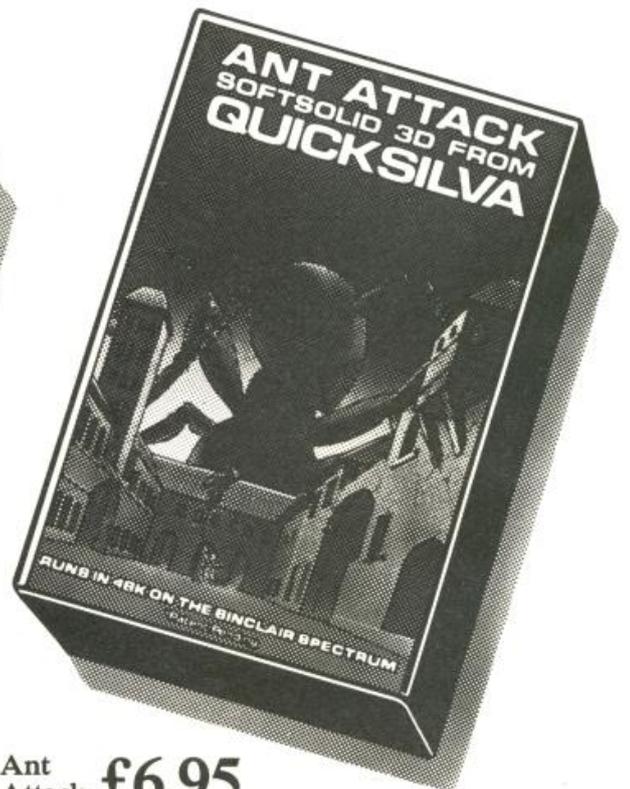


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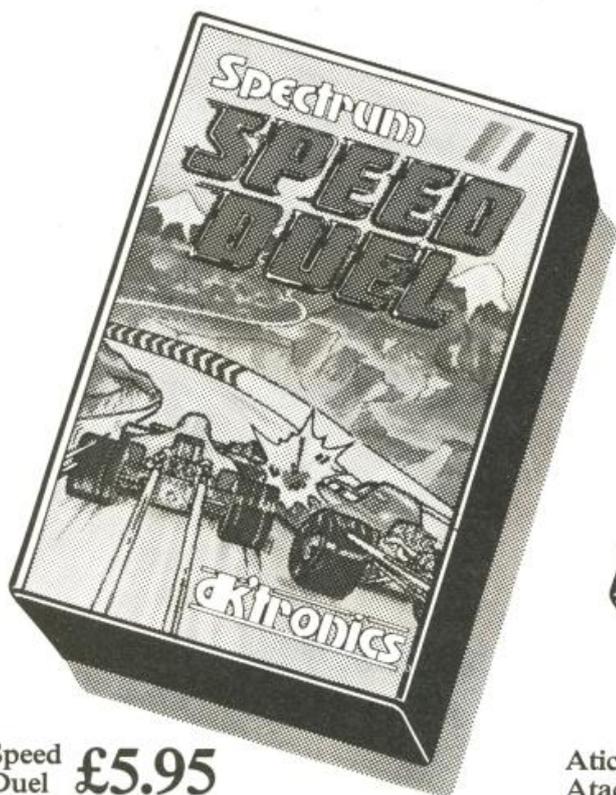
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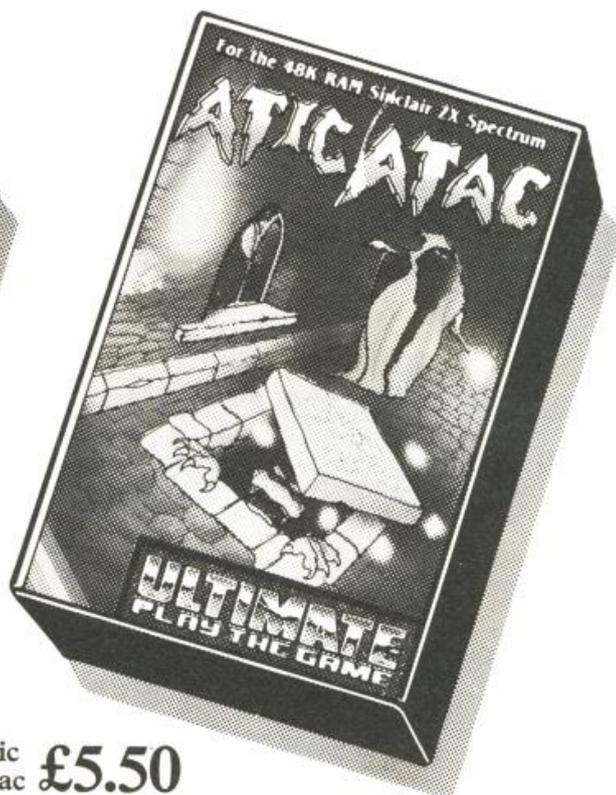
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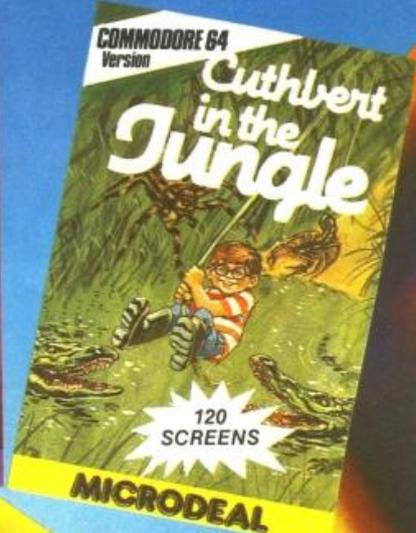
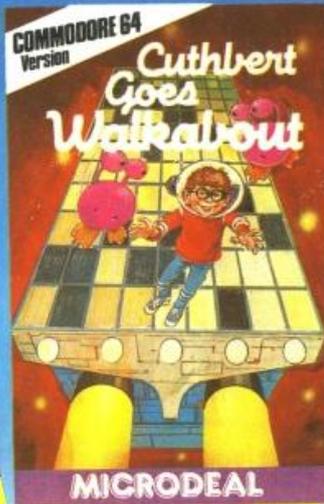
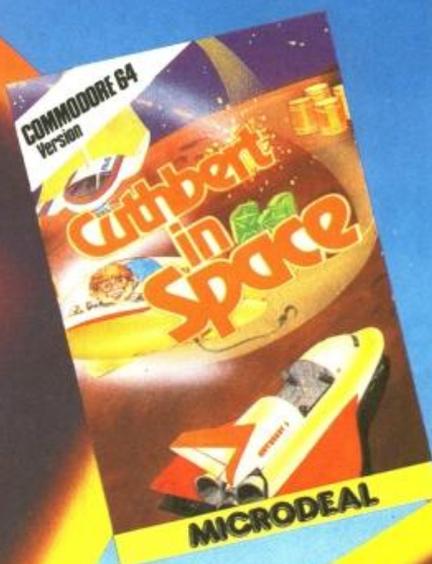
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Dear Readers

As you well know, computer games are just about the world's greatest delight. Why? Because they're continually improving. The pictures, the sound, the challenges get ever more intricate, ever more exciting. Will this continue? you ask.

Some people think it won't. They say that until a new generation of ultra-fast 16 or 32-bit computers with vast memories flood the home micro market, computer games will stay where they are.

Ah, but they've forgotten the ingenuity of programmers. Take the Spectrum. It was launched way back in 1981, but it's only now the machine's potential is being realised with games like Atic Atac and Jet Set Willy. Who knows how much it's capable of?

As for the other big-selling machine, the Commodore 64, we have no doubt that despite the avalanche of amazing games already available for it, the best is yet to come. No doubt it won't be long before a new home computer floods the market - astonishingly, there hasn't really been a major success since the 64's release over a year ago. When it comes it'll bring a new generation of games with it.

But owners of existing machines need have no fears. The astonishing ability of today's games programmers will ensure a continuing stream of ever-more brilliant creations to keep you entertained for years to come. And we'll be telling you all about them.

Chris Anderson

WINNING RIDDLES

Oh what fun we've had, sifting through your entries to our March riddle contest. From hundreds of entries we've selected 70 people who've each won two Softek games for their micro. We don't quite have room to print all the winning entries - but maybe you'll think that's a good thing! Now, read on...

What film did the lovesick gorilla go to see?
'Kong with the Wind.'
Lee Andrews, Wembley, Middlesex.

What's President Reagan's Favourite Computer?
Elect-Ron!
R Stewart, Ulster, Edinburgh.

What comedy act partners a home micro with the computer that selects premium bonds?
Oric 'n' Ernie.
Lee Marriott, Bradford, West Yorkshire.

What do you call a thief who pinches Vic 20s and Commodore 64s?
A ComVic.
Tony Pullen, Havant, Hants.

What do you call a fly in an Irishman's Brain?
A Space Invader.
Arthur David, Streatley, Bedfordshire.

What do you call an alien that climbs inside a Scotsman's Ear?
A Space Invader.
Pierce Nagle, Cork, Ireland.

What did Mario say when he was knocked over by a barrel?
AAAAARRRRRRRRGGGGGHHH...
Steven Denn, Chorley, Lancs.

What happens when you play with Tolkien's famous computer adventure?
It becomes a Hobbit.
Michael Nicholson, Woodthorpe, York.

Please Miss can I GOSUB the TOLET?
Only if you RETURN.
David Dean, Holmes Chapel, Cheshire.

What would you get if you crossed the 5th round of Manic Miner with Cookie?
Eugene's Layer Cake.
Michael Wickstone, Bradway, Sheffield.

What did Wally Kong say when he reached the top?
I've Kongquered it!
Steven Chesterman, Broxbourne, Herts.

What is 32, has lots of keys but can't undo any locks?
A Dragon.
Carl Foulser, Chingford, London.

Why did the Irishman send back his Sinclair Microdrive?
Because he thought he was getting a little car.
Michael Davison, S. Bretton, Peterborough.

What do you get 28 days after ordering a new Sinclair QL by mail order?
NOTHING.
D. O'Callaghan, Southampton, Hants.

Why didn't the spiders write a letter to Horace?
Because they dropped him a line instead.
Sergio Ronito, Crystal Palace, London.

What do you get if you cross Lunar Jetman with Atic Atac?
The Ultimate Lunatic.
Colin Flesher, Bradford, W. Yorkshire.

What is an Irish de-bugging tool?
A fly swatter.
Nathan Rawlinson, Bredons Norton, Glos.

Why does Thor prefer fighting to playing Valhalla?
You can lead a Norse to slaughter but you can't make him think.
Graham Laurence, Maidenhead, Berks.

Which policeman prints the best computer programs?
P.C. Gee.
Steven Taylor, Ongar, Essex.

The other winners are:-

J. Tomkinson; Mansit Rai; Geoffrey Spinks; J. Coates; Jamie D. Skeates; William Amedume; Edward Flannigan; Daniel Walker; Neil Shipman; Graham Pullen; Paul Brookes; Stephen Collier; David Barton; Diana Theodosiou; Richard Ackrill; Gavin Pearson; Paul Hudson; Tim Utton; Elliot Mair; G.R. Slides; Roderick Muller; Brendan Parker; James Parker; S. Tully; Paul Berry; Wayne Smith; Simon McConnell; Alistair Mackintosh; T. Adams; Paul Smart; Darryll Taylor; Birbal Chopra; Lee Russell; David Carter; A.R. Tankard; Gregory Gallagher; Adrian Keasey; George Fox; Renato Labi; D. Taverner; Adrian Taylor; Ryan Cunningham; Richard Hutchinson; S. Chapman; Steven Kingstone.



Chris



Stuart



Rod



Ian



Steve



Pete



Sam



THE NEW AMSTRAD computer leaps into the shops this month complete with colour monitor, in-built cassette monitor, excellent graphics, stereo sound, and professional keyboard – all for £329. The prospect looks even brighter for games players, with no less than 40 titles available at the time of launch. Many of these are from well-established companies. Durell, Romik, Postern, and Ocean are all planning Amstrad releases for the summer.

Software on show at the launch included Durell's *Harrier Attack* and Romik's *Alien Break-In*. Both graphics and sound were excellent. The Amstrad looks capable of generating some exceptional software for

games enthusiasts.

The CPC 464 follows Amstrad's custom, already implemented with great success in the hi-fi market, of using proven technology in a down-to-earth, plug-in-and-power-up format. Despite this the specification of the machine remains impressive.

There are four different models ranging from the basic system with mono monitor at £229 to the top-of-the-range model with disk drive, colour monitor, and Personal CP/M, changing hands at a very competitive £529.00.

AMSTRAD ARRIVES

Spectrum games for 64

Commodore 64 owners should soon be able to load and run Spectrum software on their machines.

Video Vault International are bringing out the Commodore Emulator for £12.95. Once loaded into your machine, it emulates the Sinclair operating system and allows you to run your favourite Sinclair games.

That means you could soon be playing the likes of *Atic Atac*, *Fighter Pilot* and

Stonkers on your 64. 'The system works on 95% of Spectrum games,' claimed Mr Riad Kaffar of Video Vault, but exact details of the program's performance were not available at the time of going to press.

Programmed by an employee of IBM, the Emulator took a year to perfect. It was originally planned for release in April, but was delayed due to development problems. Video Vault are confident that it will be available by the time you read this.

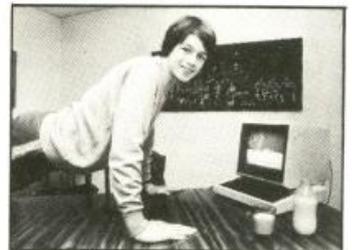
Pressing for a video record

Derek Creasey hopes to be the first computer games player to enter the Guinness Book of Records. Derek, 14, claims to have set a new world endurance record by playing computer games non-stop for 23 hours and 5 minutes on his BBC.

Games played included MRM's *Castle Assault* and Optima Software's *Omega Probe*.

At one point, Derek was ferried by the organisers, Database Publications, across London in a taxi to the BBC User Show in Westminster. Even then he didn't stop playing, but grabbed a portable video game and hammered away at it in the back of the cab.

Unfortunately a spokesman for the Guinness Book of Records was uncertain



whether Derek's claim to fame would make it into print: 'There are a very comprehensive set of ground rules covering endurance records' said Colin Smith from Guinness Superlatives, who publish the book. Once a set of regulations covering the new area of computer games has been agreed upon, then entries may be accepted.

Adam's Arrival

The Coleco Adam from CBS should make its UK debut this month. It will be priced at £625 which includes the computing module and basic Coleco games unit.

The Adam computer will be able to run the new super game-packs, the first of which, *Buck Rogers and the Planet of Zoom*, is included with the purchase of the computer. These games promise to set new standards for the home arcader with over 72K of game code (as against the current maximum of 24K).



These are not mutant camels, but the real thing. On top are Jeff Minter, author of the hit Commodore 64 game *Revenge of the Mutant Camels*, and Justin Hudd from Fleet, Hampshire. He notched up the top score at the London exhibition when *Revenge* was released, so Jeff invited him on a day-trip to Cairo aboard Concorde. Purpose of the visit? To ride a real camel. 'It was a great day,' enthused Justin.

PCG's software consultant Tony Takoushi has produced two paperback guides, covering software for the Spectrum and Commodore computers. Each book includes reviews of more than 100 games along with black and white screen shots and ratings. **The Best Software Guides** are published by Pan/PCN at £3.95 each.



humming world of micro games

A 4MHz Z80 chip runs alongside 32K ROM and 64K RAM, of which 42K is available to the user. There is no hardware sprite facility, but Amstrad say both the Basic and the screen handling have been designed for speed and ease of use. There are outputs for a Centronics printer, joystick, and stereo sound.

A brief preview of the machine revealed a standard Basic with added commands to give easy control of sound and hi-res graphics. There are three display modes, with up to 27 colours and a hi-res screen of 640 x 200 pixels.

The graphics set includes, unusually, musical notes, small human figures, and a couple of cartoon faces in addition to the usual squares and lines. Text is presented in a bold yellow-on-dark-blue format with a particularly

attractive typeface.

The colour display is excellent, but if you go for the mono green screen option you can buy a modulator attachment to plug into your colour TV. Alternatively you could later upgrade to colour, using a colour monitor and the RGB output from the computer. Unfortunately you would have to get this from another supplier as Amstrad will not be marketing the system components separately.

Production is now under way and advance orders of 200,000 units have already been placed by retailers. The predicted June output of 5,000 units is planned to be steadily increased to 50,000 units monthly by November. The machine will be available over the counter in Boots, Dixons, Laskys, and Rumbelows, as well as by mail-order.

Valhalla Game of 1983

The highly innovative graphical adventure *Valhalla* has won the PCG Game-of-the-Year award for 1983.

The game, published for the Spectrum by Legend, was selected by a panel of four independent judges from a short-list which included *Manic Miner*, *The Hobbit* and *Ultimate's Pssst!*

The judges were impressed by the way *Valhalla* depicts moving characters actually carrying out the various events which happen during the adventure.

After being presented with the award during a glittering ceremony in London, Legend's John Peel said the game had already sold well over 100,000 copies.

It's the only game Legend has released, and was produced by a team of seven, none of whom had written a computer game before.

'We set out to produce something that could credibly be called a computer movie,' said Peel. 'It's astounding that *Valhalla* has been popular with the mainstream games market.'

The game is now being released on the Commodore 64, and Legend are pressing ahead with a new mega-game about which Peel will say

little except: 'It'll be released during 1984.'

The PCG Game-of-the-Year award is one of a series of prestigious awards sponsored by the Sunday Times and our publishers VNU. They're being described as the Oscars of the micro industry.

The home computer of the year award went jointly to the BBC and Spectrum computers.

PCG's editor Chris Anderson (left) presents the cut-glass Game-of-the-Year trophy to John Peel.



Imagine games at £30!

Imagine's new releases *Psycholapse* and *Bandersnatch* should be available in July, but at a price of around £30.00.

'We're confident that at that price they'll be a bargain,' maintained Imagine's Bruce Everiss. Imagine have just had to abandon plans to reduce their current titles to £3.95 because of 'adverse industry reaction'.

The high price of these new 'mega-games' (as Imagine call them) is apparently justified by their use of new technology. What exactly this entails is not clear at present, but Mr Everiss hinted strongly that the software packages would include some kind of hardware add-on.

'We've gone as far as we can on these machines given their hardware capabilities, and we have come up with a way of increasing the power of the machine ... It is not done through software.'

As for the games: 'You don't have a score, you don't have levels, you've gone completely beyond all that,' declared Bruce, 'You wait and see - you'll be phoning me up when you get them, saying "Bruce was right!"'.

NEW RELEASES

BARGAIN ZAPS

Software prices take a dive to an astonishing £1.99 with new releases from Mastertronics for the Spectrum, Commodore 64, Dragon, Vic 20, and BBC. Spectrum titles include a version of *Centipede*, *Spectrepede*, and *Tank Trax*, where you try to blast the computer's vehicle into oblivion and stay alive at the same time. A brief look at two Commodore 64 games showed graphics of reasonable quality but simple gameplay.

STARS ON 64

For the first time Melbourne House are launching a game on the 64 before bringing it out on the Spectrum. *Star Trooper*, a relentless shoot-em-up, will cost £6.95. *Penetrator* - a very successful Spectrum version of *Scramble* - also makes its appearance on the 64 at £6.95, as does *Horace Goes Skiing* (at £5.95).

NEW MINTER GAME

Jeff Minter's new blockbuster, *Sheep in Space*, looks like a winner for Commodore 64 owners at £7.50. There's a smooth-scrolling background no less than 51 screens long, which sets the scene for an all-out mega-zap with 30 different attack waves. When your sheep runs out of juice, just zoom down to the pastures for a quick snack.

MANIC MANAGER

Mutant hoovers and giant hamsters have it in for you in Tansoft's *Harridges*, a *Manic Miner*-type game for the Oric/Atmos coming out next month. You take the part of a department store manager who moves from floor to floor emptying cash tills. You could also try swatting flies and chasing ants in *Insect Insanity* or flying helicopter rescue missions in *Rig Runner*. All three programs change hands for £7.95.



WILLY JETS TO NUMBER 1

Jet Set Willy, our May game-of-the-month, has shot straight to number one. The incredible success of its predecessor *Manic Miner*, still at number 4, ensured that thousands of copies were snapped up as fast as Software Projects could supply them.

Quicksilva's *Bugaboo (The Flea)* has hopped up to number five following its release on the Commodore 64. This program has already notched up huge sales on the Spectrum, and it looks even better on the Commodore machine as you hop about the screen avoiding Pterodactyls and scaling cliffs.



Classic Adventure from Melbourne House is a surprise entry at number 38. Not only is this a text-only version of the oldest computer game around, but it's not even a new version at that.

Originally programmed by Abersoft two years ago, it's been given a dramatic new lease of life by Melbourne House, who bought up the distribution rights and reissued it to obvious public satisfaction.

The June charts mark the end of an era, with the disappearance of *Valhalla* from the top 50, for the first time since it was launched. *Valhalla* fans should take heart from the recent release of the program for the Commodore 64, which should push it back into the charts in the near future. Meanwhile *The Hobbit* hangs on by its woolly toes at number 45, still one of the most enjoyable adventures on the market.



Price of success

I hear that the follow up to *Valhalla* is going to cost software house Legend £250,000 in development, almost four times as much as they invested in *Valhalla*. Why the huge increase? Have they purchased a Cray computer to write it on perhaps? No. It's just that *Valhalla's* success has prompted a round of rather large pay rises for Legend staff. Well done, chaps.

Jet Set Wallies

I am outraged at the behaviour of Software Projects over their huge new game *Jet Set Willy*. Having stupidly duplicated thousands of tapes before debugging the program properly, they are now trying to pretend the game's glaring bug doesn't exist! They're putting it about that the fault which develops when you enter the attic is quite deliberate and all part of the game. Well, chaps, you don't fool Horace.

At least they haven't tried to pretend that the bug in their BBC adventure *Legion* is deliberate. Every time you try to go down from a location, the program restarts from the beginning. Software Projects' Chris Cannon would not tell me whether attempts were being made to rectify this. 'I can't stand adventures,' he said.

I can't stand bugs.

PCG SOFT HITS

THIS MONTH	LAST MONTH	• GAME TITLE	• PUBLISHER	SPECTRUM	VIC 20	CBM 64	BBC	ATARI	DRAGON	ORIC	OTHER
1 (-)		<i>JET SET WILLY</i>	SOFTWARE PROJECTS	•							
2 (3)		<i>FIGHTER PILOT</i>	DIGITAL INTEGRATION	•							
3 (1)		<i>CHEQUERED FLAG</i>	PSION	•							
4 (2)		<i>MANIC MINER</i>	S/W PROJECTS/BUG-BYTE	•	•						
5 (41)		<i>BUGABOO THE FLEA</i>	QUICKSILVA	•	•						
6 (7)		<i>HUNCHBACK</i>	OCEAN	•	•					•	
7 (4)		<i>ATIC ATAC</i>	ULTIMATE	•							
8 (12)		<i>CHINESE JUGGLER</i>	OCEAN			•					
9 (6)		<i>3D ANT ATTACK</i>	QUICKSILVA	•							
10 (11)		<i>FLIGHT</i>	PSION	•							
11 (24)		<i>FRED</i>	QUICKSILVA	•							
12 (8)		<i>REVENGE OF THE MUTANT CAMELS</i>	LLAMASOFT			•					
13 (-)		<i>NIGHT GUNNER</i>	DIGITAL INTEGRATION	•							
14 (35)		<i>PINBALL WIZARD</i>	CP SOFT			•					
15 (50)		<i>BLUE THUNDER</i>	RICHARD WILCOX	•							
16 (15)		<i>LUNAR JETMAN</i>	ULTIMATE	•							
17 (19)		<i>WHEELIE</i>	MICROSPHERE	•							
18 (28)		<i>BLAGGER</i>	ALLIGATA			•					
19 (9)		<i>ALCHEMIST</i>	IMAGINE	•							
20 (5)		<i>SCUBA DIVE</i>	MARTECH/DURELL	•	•					•	
21 (36)		<i>FORBIDDEN FOREST</i>	COSMI			•					
22 (33)		<i>TWIN KINGDOM VALLEY</i>	BUG-BYTE	•	•						
23 (-)		<i>SPACE PILOT</i>	ANIROG								
24 (40)		<i>SUPER PIPELINE</i>	TASKSET			•					
25 (16)		<i>STONKERS</i>	IMAGINE	•							
26 (37)		<i>BEAR BOYVER</i>	ARTIC	•							
27 (34)		<i>SNOOKER</i>	VISIONS	•	•	•	•			•	
28 (-)		<i>POGO</i>	OCEAN	•							
29 (17)		<i>SKULL</i>	GAMES MACHINE	•							
30 (13)		<i>DEATH CHASE</i>	MICROMEGA	•							
31 (-)		<i>HORACE AND THE SPIDERS</i>	PSION/MELBOURNE	•							
32 (-)		<i>ESKIMO EDDIE</i>	OCEAN	•							
33 (22)		<i>JET PAC</i>	ULTIMATE	•	•						
34 (-)		<i>PILOT 64</i>	ABBEX			•					
35 (30)		<i>POOL</i>	CDS	•							
36 (14)		<i>MR WIMPY</i>	OCEAN	•	•						
37 (18)		<i>SPACE SHUTTLE</i>	MICRODEAL	•							
38 (-)		<i>CLASSIC ADVENTURE</i>	MELBOURNE HOUSE	•							
39 (20)		<i>WIZARD AND PRINCESS</i>	MELBOURNE HOUSE		•						
40 (-)		<i>ODYSSEY</i>	K-TEL			•					
41 (-)		<i>KILLER WATT</i>	ALLIGATA			•					
42 (44)		<i>CHINA MINER</i>	INTERCEPTOR MICROS			•					
43 (32)		<i>FALCON PATROL</i>	VIRGIN			•					
44 (38)		<i>CHUCKIE EGG</i>	A & F SOFTWARE	•	•	•				•	
45 (10)		<i>HOBBIT</i>	MELBOURNE HOUSE	•	•	•					
46 (-)		<i>HUNTER KILLER</i>	PROTEK	•							
47 (46)		<i>FOOTBALL MANAGER</i>	ADDICTIVE	•							
48 (-)		<i>HARRIER ATTACK</i>	MARTECH/DURELL	•	•						
49 (-)		<i>PEDRO</i>	IMAGINE	•							
50 (-)		<i>TRASHMAN</i>	NEW GENERATION	•							

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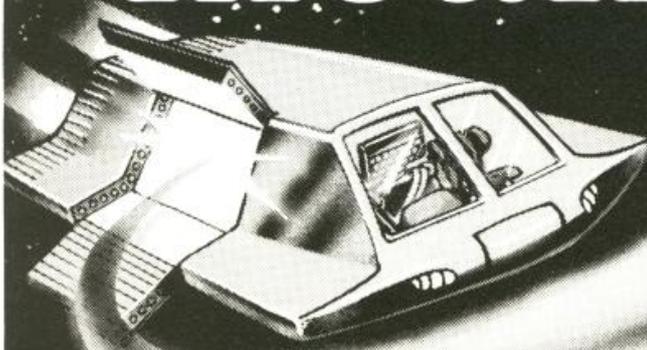
1	<i>ZYLOGON</i>	BIG G			•						
2	<i>ANDROID II</i>	VORTEX			•						
3	<i>REBEL STAR RAIDERS</i>	RED SHIFT				•					
4	<i>TRIBBLE TROUBLE</i>	SOFTWARE PROJECTS			•						
5	<i>PLUMB CRAZY</i>	TERMINAL					•				
6	<i>HELL GATE</i>	LLAMASOFT				•	•				
7	<i>THE BOSS</i>	PEAKSOFT					•				
8	<i>FORTRESS</i>	PASE						•			
9	<i>CODE NAME MAT</i>	MICROMEGA			•						
10	<i>SOLO FLIGHT</i>	MICROPROSE						•			

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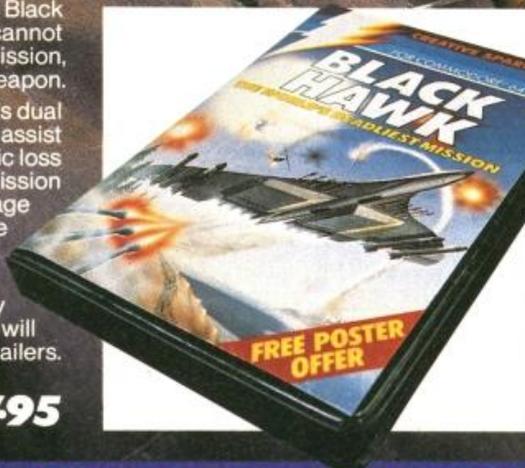
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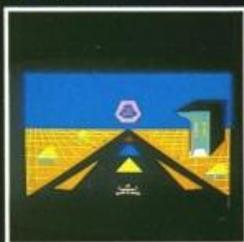
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(Screen 2)



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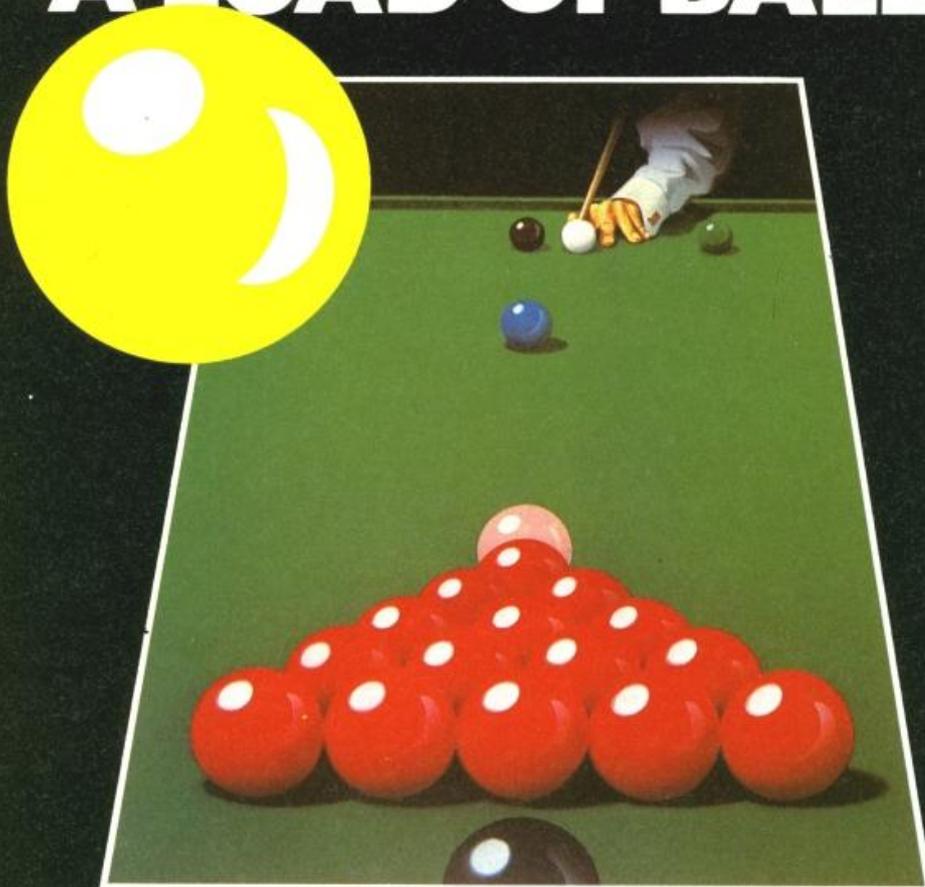
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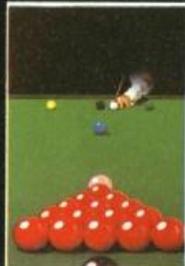
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ALL THE SNAPPIEST LETTERS...

Write to: Byte-back, Personal Computer Games, Evelyn House, 62 Oxford Street, London W1A 2HG

Scuba Dive disappointment

As a relatively new but avidly enthusiastic owner of the Commodore 64 I feel compelled to express my views to you mainly through frustration but also because I feel I have been somewhat cheated.

I won't pretend I bought my machine to run my business or do my accounts. I bought it purely for its entertainment value. What a wonderful idea I thought on reading your PCG Screen Test reports. At last, no more mistakes through knowing nothing about the game I was purchasing except for its amazingly inviting front cover.

The first game that appealed after your review was *Scuba Dive*, which had quite a hefty write-up. A 'must' you said. 'Wonderfully realistic graphics' you said, 'also available on Commodore 64' you said. What you didn't say was that if you buy it for the Commodore 64 all your comments now mean nothing. It was unrealistic, unimaginative and boring.

Another example was *Megahawk* which, incidentally, looks more like a rather portly seagull. In your own words, 'spectacular', 'impressive', 'superior'. I found it extremely dull and after just a few screens, very boring. I eventually lost my three lives not in my 'mega-excitement' but because I threw myself into the path of a large flying ginger biscuit (?) in a desperate suicide bid. I wonder also how long you test these games for. This game was given a lasting interest score of 8. (Does this mean 8 minutes?)

May I add rather sheepishly that you were right about *Hunchback* and *Twin Kingdom Valley*. I am about to purchase *Forbidden Forest* and *Aztec Challenge*. Please be right about these.

Miss P Martins, S Devon

We are right about those, and most of us here stand by Megahawk as a fine 3-D shoot 'em-up. But you're correct in saying that Scuba Dive for the 64 bears no comparison to the Spectrum

Invisible Spirit

Please will you give me any information on Spirit Software, 2 Pembroke Mews, London W8.

On the 1st March I sent a cheque for £8.95. About three weeks after I had not received software, so I sent a letter asking why. I have not had a reply. Are these people rip-off artists, dead slow, or have they gone out of business? Because by hook or by crook I'm going to get my £8.95 back.

C G Tyrrell, Southampton

Several other people have complained about Spirit Software who are no longer advertising with us. We have been unable to contact them.

Buffoons? Not us

I happened to be flicking through your mag and I came across a review on *Dinky Digger* - a game written by two programmers, not one as you assumed. These two people just happen to be my brother and I. Neither him nor I wish to be referred to as 'buffoons'.

You seemed to think the crystal ball is the only way of defence, but if you happened to read the instructions properly you would see - 'A second defence is to run beneath an apple allowing it to fall on a pursuing monster'.

Another point to raise is that you do not 'get the same again only more unplayable'; there happen to be 7 different screens and the action does not speed up until you go through all 7.

Gary Jones, Gloucester

Thanks, Gary, but we still think it's unplayable.

version. We hadn't seen the 64 game when we made the Spectrum Scuba Dive our Game-of-the-Month, and we certainly don't particularly recommend it.

Missing joystick

I am somewhat confused about your review on *Cyberton Mission* in the April edition. You say *Cyberton Mission* does not have the choice of joystick. In my version of the game it does. I'm afraid you've made a mistake or your game is faulty!

D Chamberlain, Hampshire

Bug of eternal life

I have found a bug in Llama-soft's brilliant game *Matrix* for the Vic 20. I believe that it was deliberately left in for Jeff Minter to check that all screens were functioning correctly.

It is possible for one to clear a screen simply by pressing the following keys: RUN/STOP, SHIFT, CTRL and the Commodore symbol key all at the same time. Thus you can have an unlimited supply of lives.

I, however, never use this 'function' as I feel it would detract from my enjoyment of the game and my high score, under normal conditions, is 217,506 reaching level 18.

Mike Davies, Dyfed, Wales

Loud complaint

As I was looking through your assessments on each of the Vic 20 games in your Screen Test section, I noticed that you said Anirog's *Star Defence* has no sound. Was your copy faulty, or should you have turned up the volume? My friend has bought this excellent game - it has the noisiest sound effects for any game I know for the Vic.

Tim Dargie, S Glamorgan

Dragon advice

I am writing to you with a tip for all Dragon 32 owners who have problems saving and loading their own games on tape. If you type POKE 144,3 before you save then the output of the computer is boosted so it is easier to load the game off the tape.

Scott McRae
Aberdeenshire

Unfair to Emax

I would like to comment on your write-up of our joystick the Arcade Professional (April). The price of the joystick is £28.95 and has been since 1st January 1984. The major benefits of the joystick module were overlooked, namely genuine two handed control and gate interchange

giving choice of 4 or 8 directional micro switching.

Additionally, it must be explained that the Arcade Professional has been carefully market tested and endorsed by leading software house programmers, details of which can be supplied on request. The style of writing used to describe the Arcade Professional was heavily weighted towards sarcasm leading us to ponder what we did not do to ensure the correct write up.

It would appear that the review was not carried out in a particularly careful manner and based on the final comments concerning left hand, right hand players, would point up that the the reviewer has extremely limited experience when it comes to playing arcade games.

When one wishes to set oneself up as both judge and jury and then nationally broadcast the results, the best one can do is to get one's facts straight.

DA Jervis
Emax Computing

Quite so, Mr Jervis. But you'll be interested to know that everyone here in the office agreed with Peter Connor's criticisms.

Miner disagreement

I was shocked to see in the April edition on the Screen Test section that *Manic Miner* for the Commodore 64 was given such low marks. What's up with Chris Anderson? Doesn't he know when he sees a good game?

Elliot Weedon
Luton, Beds

The fact is, that if you compare the graphics and sound in Manic Miner with other recent Commodore 64 games they're not particularly impressive.

We gave it a very high rating on lasting interest but were disappointed that Software Projects simply did a straight translation of their classic game without making full use of the 64's potential. No-one could be impressed by a straight translation of a ZX81 game onto the Spectrum.

THE FINAL CONFLICT



This page features one of the most ambitious games ever attempted. It's one which every reader of PCG can take part in. Already hundreds of you have entered the game, and this month you must make your first move.

On the planet Helix, tension has been mounting for months. The four superpowers have been mobilising armies, building missiles, and expanding factories. A final attempt at negotiating peace has failed. All communication between the powers has been terminated. The Final Conflict is about to erupt.

The map shows the situation. As a member of the ruling council of your power, you must study it carefully and plan your move.

The choices before you are complex. You must decide what each country your power controls must do. Should you build more factories to increase your future weapons production? Or is it time for a quick pre-emptive missile attack on another country? Are any of your own countries particularly vulnerable? What are the other powers likely to do?

When you're ready to cast your vote, use the voting form printed on this page. But you can do this only if you have already entered the game, been assigned to one of the powers, and given a code number and full copy of the rules. To enter, post off the entry form and a stamped addressed envelope. It costs you nothing else.

● How the game works

Four superpowers are at war:

- The Union of Golathic States
- The Rorkian Federation
- The Commune of Margrand
- The Lorkonist Dominion

Each of the four powers controls a certain number of the planet Helix's 32 countries. Their aim is to capture more countries – any power which can control more than half – ie 17 countries – has won.

Individual players are all allocated to one of the four sides. They must then decide how each of their side's countries should move and vote accordingly. The possible moves are:

- BUILD ARMIES
- BUILD MISSILES
- BUILD SHELTERS
- BUILD FACTORIES
- SUPPLY
- REINFORCE
- LAUNCH (missiles)
- ATTACK (using armies)

After the votes have been received our computer will tot them up. For each power the move which gets the most votes is acted on.

Once all four powers' moves have been worked out, the computer will use the game's detailed rules to calculate what happens. This will be revealed in our next issue.

But a key feature is that having worked out

	DOMINION		FEDERATION
	COMMUNE		UNION
	MISSILES		FACTORIES
	ARMIES		SHELTERS
	BATTLES		

Entry form

Yes, I want to join the Final Conflict.

Name

Address

.....

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.....

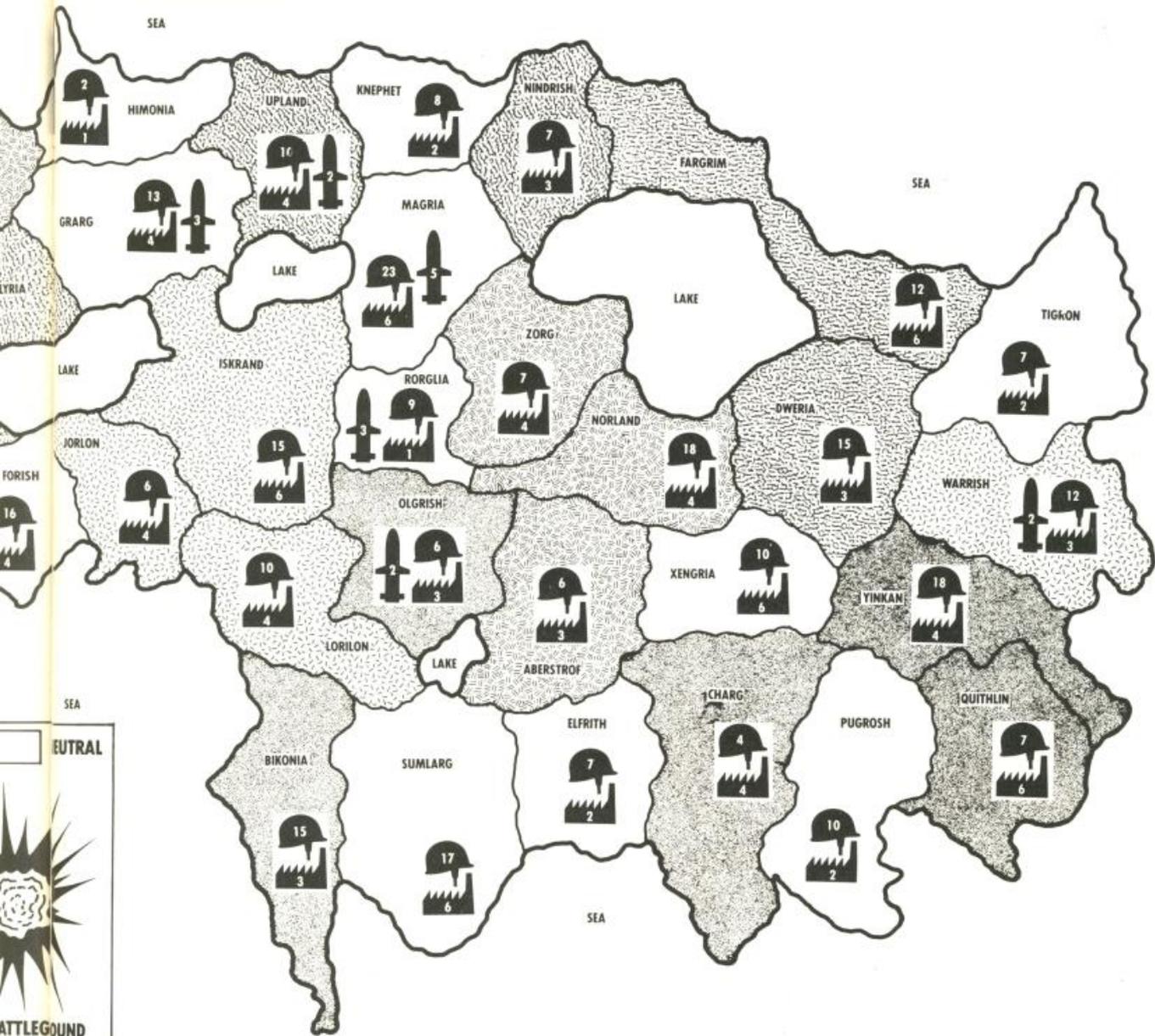
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self-addressed envelope

the most popular moves, the computer then goes back and studies each individual's votes to see what would have happened if his team had moved as he suggested. The ten players for each team who submitted the moves which would have been most successful will gain extra votes, ranging from 100 for the most successful to 10 for the 10th most successful.



war-machines start to rumble



● How to vote

You must enter one vote for *every* country that your power controls. At present, each power controls FIVE countries, so you must make five votes.

First of all write down the list of your countries ALPHABETICALLY in the voting form. Then make your vote. It's possible to represent all the possible moves using just two letters.

BUILD ARMIES = BA
BUILD MISSILES = BM
BUILD FACTORIES = BF
BUILD SHELTERS = BS

For the ATTACK, LAUNCH MISSILE, REINFORCE, and SUPPLY orders, you use the letters A, L, R or S followed by the first letter of the country to be attacked, supplied, etc. So if you want the country Charg to ATTACK its neutral neighbour Xengria, you should vote AX. Similarly SUPPLY YINGAN would be SY.

Although some countries start with the same first letter, these are on different sides of the map, so there is no risk of confusion.

Name

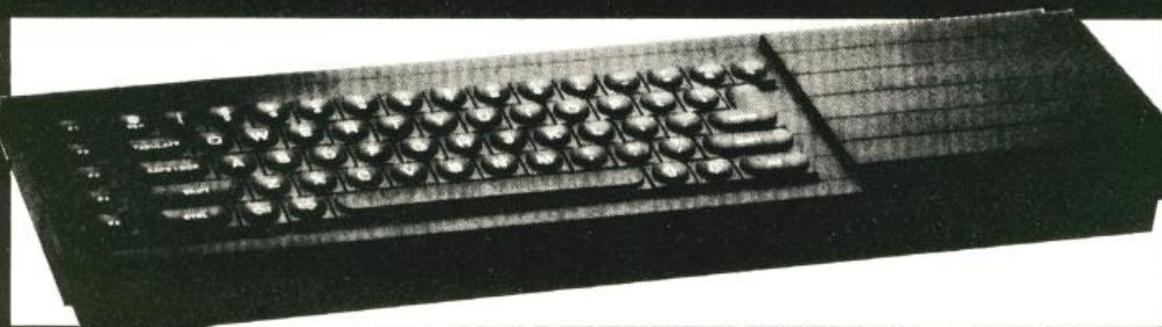
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Membership code

Country	Vote
1.	
2.	
3.	
4.	
5.	

Post this form to The Final Conflict, Personal Computer Games, 62 Oxford Street, London W1A 2HG. All votes must arrive by first post on **May 31st** to allow us time to process them.

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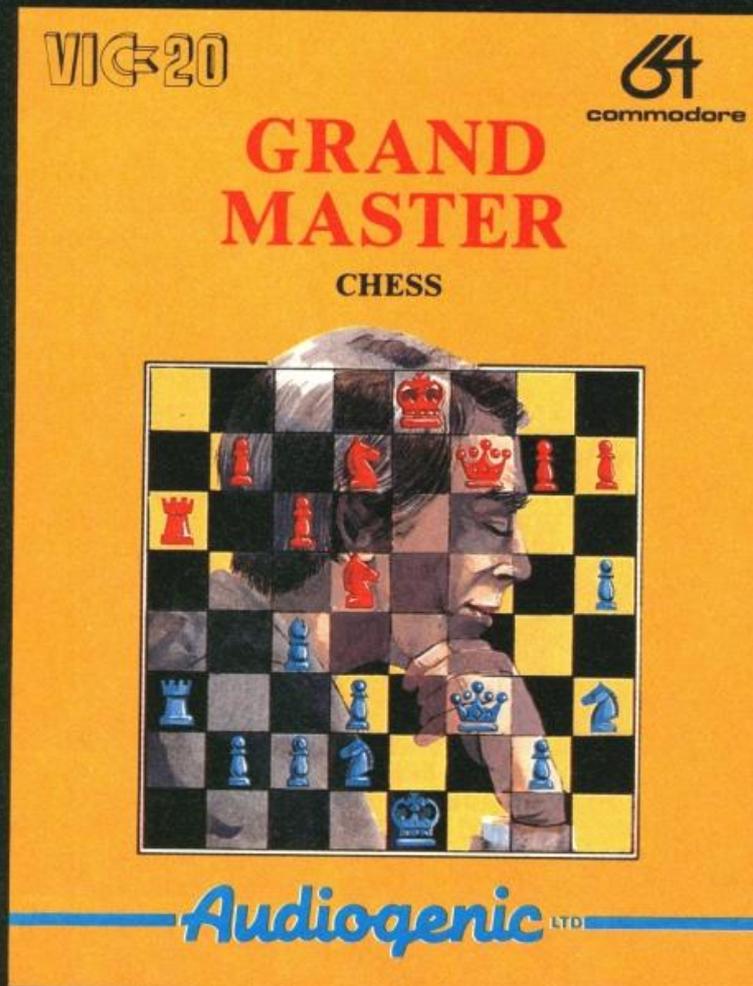
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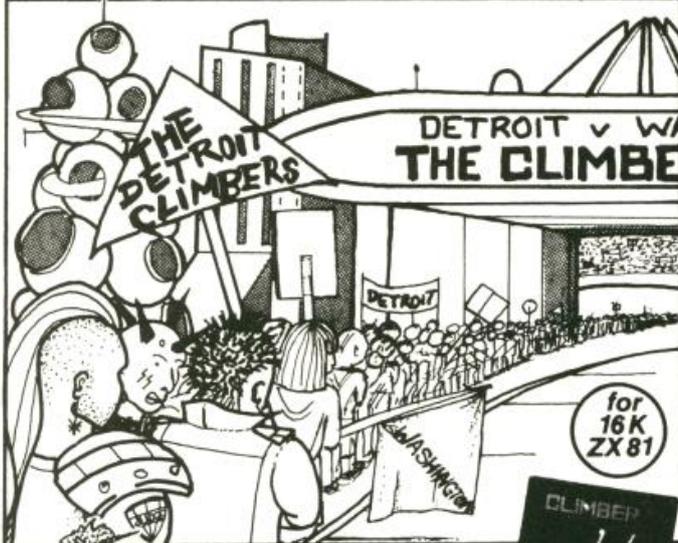
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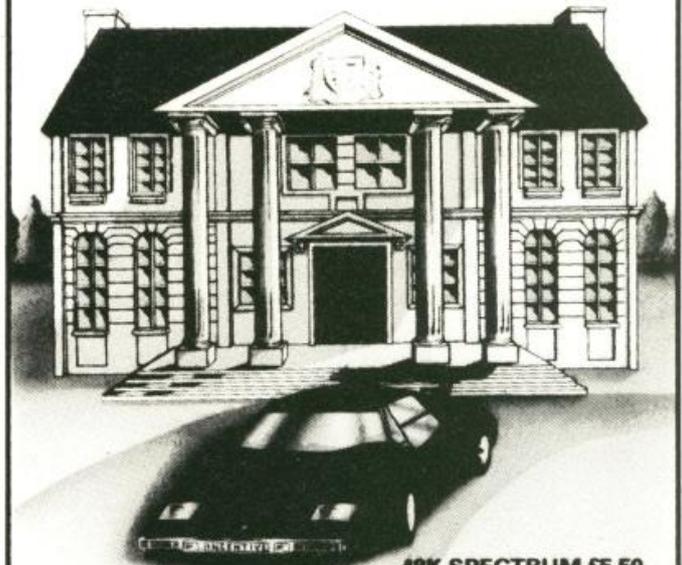
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Eleven challengers play off in PCG's micro-chess

The shops are stacked with home computer chess programs. But which of them are any good? To find out PCG has conducted its micro chess tournament of the year. At great expense we brought together eleven mighty artificial intelligences to struggle for days in a battle for supremacy.

We had some well-established masters of the micro - *Cyrus* on the Spectrum and *Acornsoft Chess* on the BBC - pitting their wits against such young pretenders as *Colossus* for the Commodore 64 and *White Knight MkII* on the BBC. In all, six micros were represented.

The contestants were divided into four groups as follows:

GROUP 1 (Memotech, ZX81 and Dragon).

MTX Chess
ZX81 Chess II
Oasis Dragonchess

GROUP 2 (ZX Spectrum)

Superchess 3.0
Cyrus IS
Master Chess

GROUP 3 (BBC)

White Knight MkII
Acornsoft Chess
Program Power Chess

GROUP 4 (Commodore 64)

Colossus 2.0
Grand Master

In each group the programs played each other twice. On the toss of a coin the winners of each group were paired in the semi-finals. These too were played over two games resulting in a gripping final game.

It should be remembered that chess programs can take an awfully long time to move at the higher levels. Because of this we selected on each game the level which took approximately 30 seconds to make its mind up; on most programs this is level 3. The final, however, was played at a higher level.

GROUP ONE

The games in group one were mostly typical of play at lower levels. The very first game was played between *ZX Chess II* and *MTX Chess* and turned

out to be rather curious - a draw had to be called due to repetition of moves. Even stranger was the fact that both sides had adequate moves available. We can only presume that they were programmed without enough aggression.

The second game between these two opponents provided some more responsible play. *MTX Chess* displayed an impressive strategic intelligence. Although the program was considering possibilities for only one move ahead it made some shrewd decisions.

Still on group one, the oddest thing happened on the fourth game, *MTX Chess* v *Dragonchess*. On the 19th move, after *MTX Chess* had advanced a pawn, *Dragonchess* informed us of a draw. Not offering a draw, but actually calling a draw. This was utterly ridiculous. We entered the option to list the moves, and, lo and behold, *Dragonchess* had resigned! This was going too far, and as *Dragonchess* refused to let any more moves be entered we promptly awarded a win to *MTX Chess*.

GROUP TWO

This group, unfortunately, produced little of any interest. The only thing to note was that the improved *Superchess* from CP software does respond at great speed

compared to other Spectrum chess games.

Due to a draw between *Cyrus* and *Masterchess*, *Superchess* topped the table with *Cyrus* and two more games had to be played, with *Superchess* emerging as the outright winner.

GROUP THREE

There was some particularly impressive play in this group - especially between *White Knight MkII* and *Acorn Chess*.

White Knight doesn't have any book openings, but, after seeing two games with *Acorn Chess* it doesn't appear to have a weak opening defence either. Indeed *Acorn Chess*, which has a tendency to early attack (unusual in computer chess games) couldn't breach *White Knight's* defence.

The second game between the two, *Acorn* versus *White Knight*, was one of the outstanding games of the tournament. It demonstrates the fact that book openings are not the be-all and end-all of computer chess. *White Knight* demolished *Acorn Chess* in under half the time it took *Acorn* to make its moves. If chess games had emotions, *Acorn* would be in shock!

GROUP 4

The final group consisted of only two opponents, demonstrating a disappointing lack of chess games for what is an excellent machine. There was to have been a third contestant, *Sargon II*

ROUND 1 RESULTS

		PLAYED	WON	DRAWN	POINTS
GROUP 1	<i>MTX CHESS</i>	4	2	2	6
	<i>ZX81 CHESS II</i>	4	1	2	4
	<i>OASIS DRAGONCHESS</i>	4	0	2	2
GROUP 2	<i>SUPERCHESS 3.0</i>	6	3	2	8
	<i>CYRUS IS</i>	6	2	2	6
	<i>MASTER CHESS</i>	4	1	0	2
GROUP 3	<i>WHITE KNIGHT MK11</i>	4	4	0	8
	<i>ACORNSOFT CHESS</i>	4	0	0	0
	<i>PROGRAM POWER CHESS</i>	4	2	0	4
GROUP 4	<i>COLOSSUS 2.0</i>	2	2	0	4
	<i>GRAND MASTER</i>	2	0	0	0

THE GREAT PCG CHESS CHAMPIONSHIP



mega-tournament. David Janda reports

which is now available from Softcell. Unfortunately this arrived too late in the contest.

Colossus 2.0 is the latest offering from Martin Bryant, author of the *White Knight* series. It is a grown-up version of *White Knight Mk11* and Bryant and CDS Microsystems, who market the game, reckon it will beat any micro chess game currently available.

Grand Master by Kingsoft of West Germany is made and distributed by Audiogenic, who also reckon it is something special. If this was a mixed-round tournament this game would have certainly come out in the top three.

Only two games were played between both, and they were pretty even. Both sides played to the bitter end, until there were just a few pieces on the board (this was particularly noticeable in the semi-final). The real difference between bad and good chess programs is what they do in the end-game with just a few pieces. Both games played well, but *Colossus* triumphed each time.

Note that the scores are **only** relevant for the games in each group. Please do not believe that *ZX81 Chess II* is stronger than *Grand Master* simply because it scored 4, and *Grand Master* scored 0.

The results for Group 2 also include two extra games between *Superchess 3.0* and *Cyrus IS*; this is due to a draw

for first place.

Taking the winner from each group, a coin was tossed, and the pairing for the semi-final was *MTX Chess v. Superchess 3.0* and *Colossus 2.0 v. White Knight Mk11*.

SEMI-FINALS

This section was more interesting in many ways compared to the group games. *MTX Chess* bids farewell, and the character of its play seemed to change dramatically. In the games between *White Knight Mk11* and *Colossus 2.0* it was plain to see that more positions per second were being examined by *Colossus*, and this is probably why it won. Here is a brief analysis of the four games played in this section.

MTX CHESS v. SUPERCHESS 3.0

Not exactly a 'normal' start to this one; from the very beginning, *MTX Chess* advanced its pawns in an unusual manner. *Superchess* replied with king's knight dancing about the board. The endgame was disappointing for *MTX Chess*. Very bad defence of the king led to checkmate – all due to a lazy queen!

SUPERCHESS 3.0 v. MTX CHESS

Compared to the other games, *Superchess* played a bad endgame in this match. A good pawn advance was made on the g and h ranks but no pawn promotion was made.

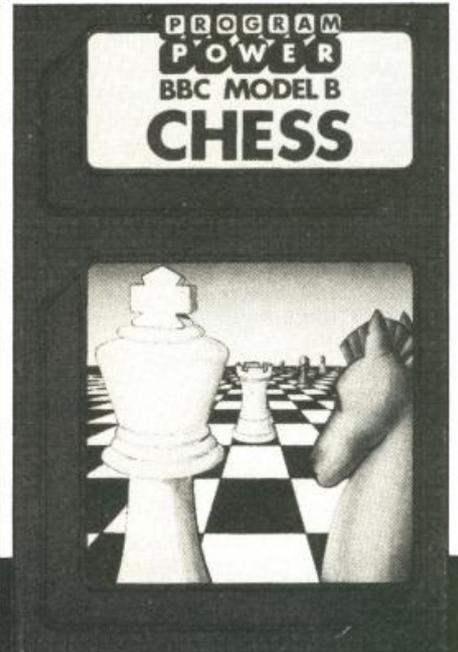
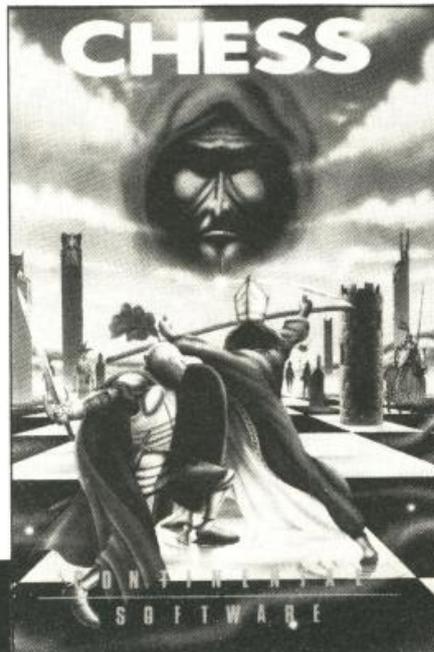
SEMI-FINALS

COLOSSUS 2.0
WHITE KNIGHT MK11

MTX CHESS
SUPERCHESS 3.0

PLAYED
WON
DRAWN
POINTS

2	1	1	3
2	0	1	1
2	0	0	0
2	2	0	4





By the mid-game the battle was firmly on. After a hectic exchange, both sides had their pawns pinned. This led to the remaining rooks and bishops galavanting about the board until the game was drawn due to the time limit being exceeded.

WHITE KNIGHT v. COLOSSUS 2.0

Colossus made good use of its rooks, especially with king's rook around the e rank. Better use could have brought Black to mate sooner, and because of this the game was unnecessarily drawn out.

No surprises as to the results really, as the scores in the table for the semi-finals shows.

COLOSSUS 2.0 v. SUPER-CHESS 3.0

Finally, here is the most exciting of the two games in the final. The outcome was that *Colossus 2.0* won both games, and thus was declared the winner of the 1984 Personal Computer Games Chess Tournament.

Both sides quickly set up a knight and bishop within the first few moves. Two checks (one to each side) were made within seven moves, with *Superchess's* being the more constructive. *Superchess* brought its king's bishop down to g4+. This was a safe but useless check as White repelled it with pawn to c3. This made *Superchess's* bishop retreat to d6 – a very strong position.

On the other hand, the early check from *Colossus* proved not to be so beneficial. Bishop b5-c6 brings on a hasty exchange of pieces which left *Colossus* the worse off, and the board fairly cleared.

The endgame of this match proved to be one of the most surprising. At around the 30th move, things looked as if they were going to settle down to a drawn out endgame – but far from it.

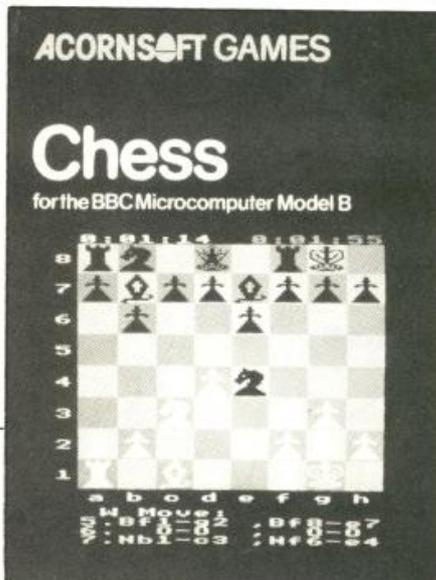
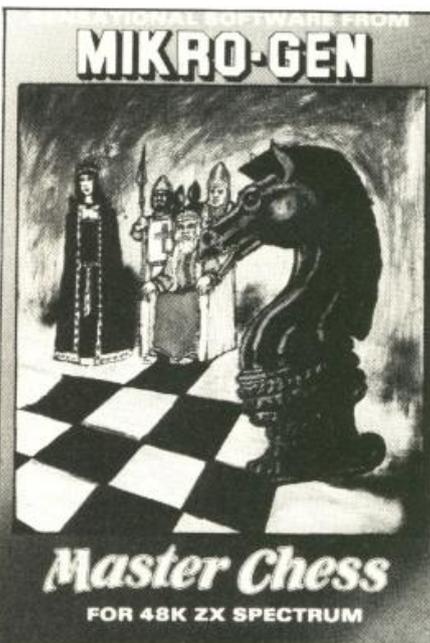
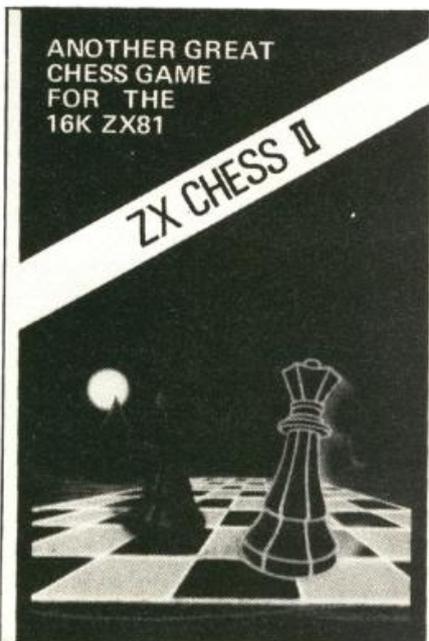
White's rook appeared to be doing

nothing at c7, and with not many moves on the board it moved on up to make a desperate check at c8. This *looked* useless as it was, rightly, taken by Black's rook which was also on the eighth rank.

But out of the blue came White's queen from a defensive position by its

king, and to check at c8. Black's king moved down to f7 – but a diagonal move by the queen to f5+ ensured that the king couldn't escape along the g/h ranks.

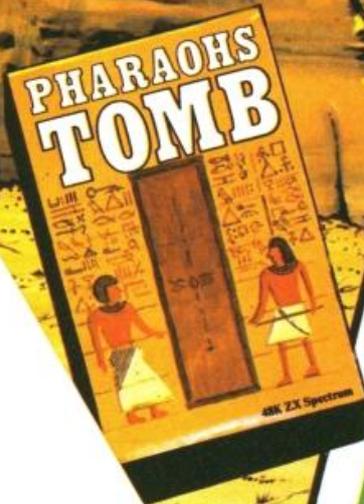
The end was near. White brought out its rook and advanced it to c8+, where mate was inevitable.



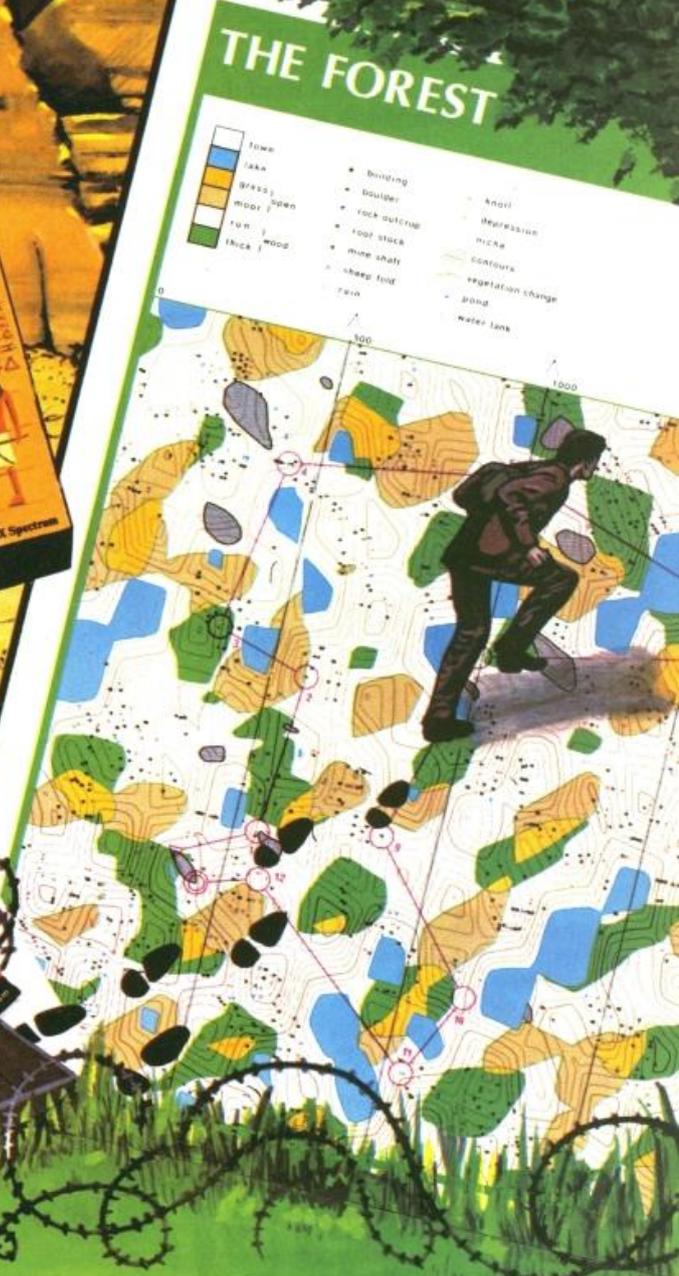
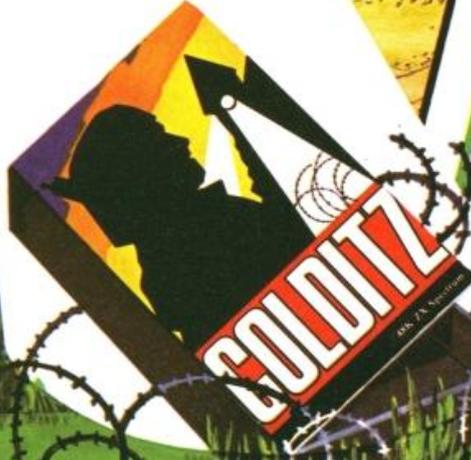
THE FINAL

- | | | | | |
|-----------|--------|-----------|-------|------------------------|
| 1. d2-d4 | d7-d5 | | | |
| 2. g1-f3 | c8-f5 | | | |
| 3. c1-f4 | e7-e6 | | | |
| 4. e2-e3 | b8-c6 | | | |
| 5. f1-f5 | f8-b4+ | | | |
| 6. c2-c3 | b4-d6 | | | |
| 7. b5xc6+ | b7xc6 | 19. a3-c3 | f7-f5 | 31. c4-d2 |
| 8. f4xd6 | c7xd6 | 20. c1-c2 | c6-c5 | 32. c3-c5 |
| 9. e1-g1c | a7-a5 | 21. d4xc5 | d6xc5 | 33. d2xe4 |
| 10. b1-d2 | a8-b8 | 22. c4-e5 | d8-d6 | 34. c5-c7 |
| 11. d1-c1 | g8-f6 | 23. f3-f4 | f8-c8 | 35. c1-c3 |
| 12. a2-a4 | e8-g8c | 24. e1-d1 | d6-e7 | 36. c7-c8+ |
| 13. a1-a3 | f5-d3 | 25. c2-d2 | b8-b4 | 37. c3xc8+ |
| 14. f1-e1 | f6-e4 | 26. c3-a3 | e7-e8 | 38. c8xf5+ |
| 15. c3-c4 | e4xd2 | 27. d1-a1 | d5-e4 | 39. a1-c1 |
| 16. f3xd2 | d5xc4 | 28. d2-c1 | c5-c4 | 40. c1-c8+ |
| 17. d2xc4 | d3-e4 | 29. a3-c3 | c8-b6 | 41. c8xd8+ |
| 18. f2-f3 | e4-d5 | 30. e5xc4 | e8-c6 | 42. f5-f8+ (checkmate) |
| | | | | c6-d5 |
| | | | | d5-a8 |
| | | | | b4xe4 |
| | | | | a8-d5 |
| | | | | e6-e5 |
| | | | | b8xc8 |
| | | | | g8-f7 |
| | | | | f7-g8 |
| | | | | g7-g6 |
| | | | | d5-d8 |
| | | | | g8-g7 |

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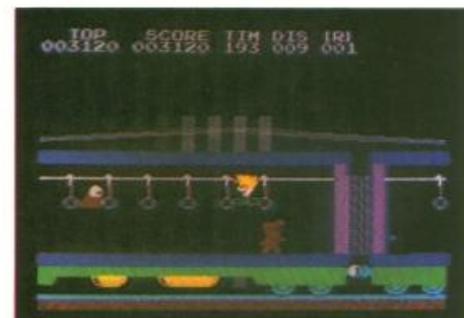
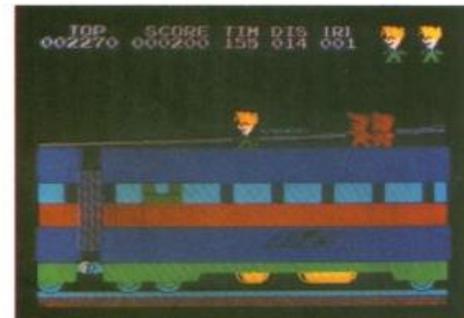
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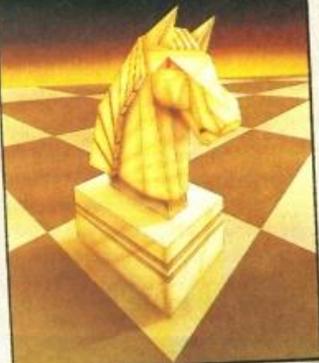
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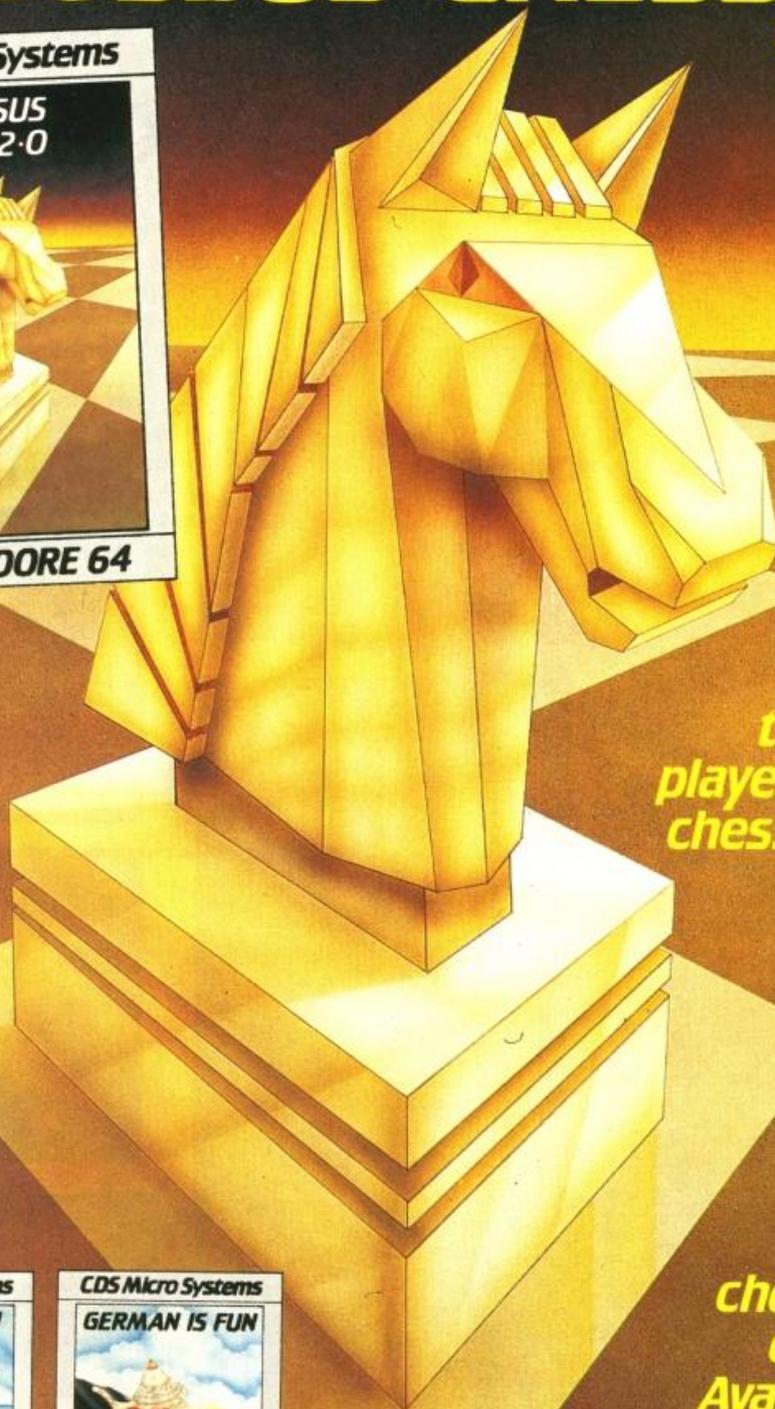
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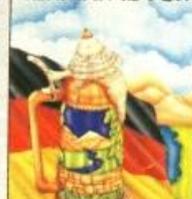
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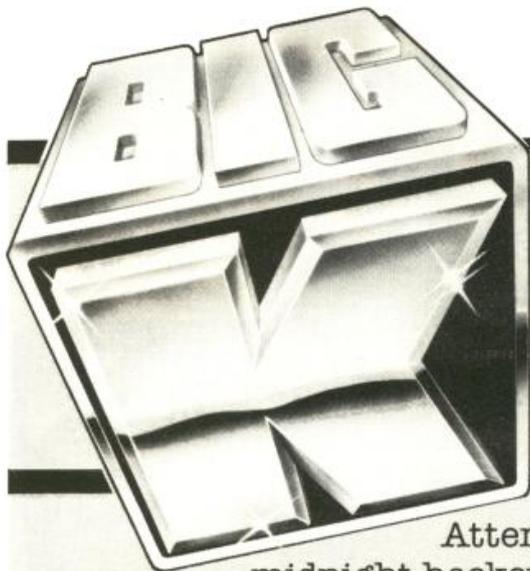


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You also have at your disposal an original new duelling game for two players, which Electron owners can buy too.

There's been another rush of excellent games for the Commodore 64. Our three PCG Hits include a beautifully programmed shoot-'em-up, a compulsive underground treasure hunt and a zany game featuring a unicycle. You might think *Trashman* for the Spectrum is a rubbishy game, but no, we've named it a hit. It's just one among a mass of new Spectrum games.

Spectrum, BBC and Electron owners may notice that this month's colour screen shots for their machines are particularly clear. This is because we've used a new process which involves actually printing the contents of the screen on a colour plotter. Unfortunately the technique can't yet be used on the other micros, but maybe soon...

This month's reviewers are Peter Connor, Steve Cooke, Chris Anderson, Stuart N Cooke, Tony Takoushi, Paul Turner, John Allan, Steve Mann, and Tony Harrington. Each of the game ratings are scored out of ten by the reviewer, and then double-checked by a second member of the panel. The PCG Hit and Game-of-the-Month titles are awarded only after heated office arguments.

So sit back and enjoy the world's greatest reviews...

GAME	PAGE	GAME	PAGE	GAME	PAGE
------	------	------	------	------	------

GAME-OF-THE-MONTH

Fortress (BBC) 72

HIT GAMES

Swordmaster (BBC/Electron) 71
 M.A.R.C. (Oric/Atmos) 77
 Trashman (Spectrum) 54
 Wheelin' Wallie (Commodore 64) 46
 Fire Ant (Commodore 64) 46
 Killer Watt (Commodore 64) 57

COMMODORE 64

Banana Drama 46
 Get Off My Garden 46
 Burger Time 48
 Crazy Caveman 48
 Tribble Trouble 48
 Dinky Doo 48
 Space Pilot 50
 Odyssey 50
 Zylogon 50
 City Attack 50

SPECTRUM

Sorcery 54
 Blade Alley 54
 Terry's Travels 54
 Timebomb 54
 1994 (Ten Years After) 56
 Ad Astra 56
 Bull Run 56
 Pengy 56
 Butterfly 58
 Knight Driver 58
 Orion 58
 Submarine Strike 58
 Pedro 58
 Glug Glug 58
 Warm Attack 59
 Grid Patrol 59
 Di-Lithium Lift 59
 Tribble Trubble 61
 Mission Omega 61
 Mummy Mummy 61

BBC

Checkout 69
 Shuttle Pilot 69
 Bumble Bee 69
 Jet Power Jack 71

ELECTRON

Trafalgar 69

VIC 20

Countdown 65
 Vic Cricket 62
 League 62
 Lupin 62
 Annihilator 62
 Bob's Blunder 62
 Pollywag 62
 Kongo Kong 63
 Snowstorm 63
 Metamorphosis 63

DRAGON

3D Space Wars 78
 Pedro 78
 North Sea Oil 78
 3D Seiddab Attack 78
 Sprite Magic 78

MEMOTECH

Draughts 80
 Kilopede 80
 Super Minefield 80
 Blobbo 80

ATARI

Silicon 66
 Frogger 66
 Q*Bert 66

ORIC 1/ATMOS

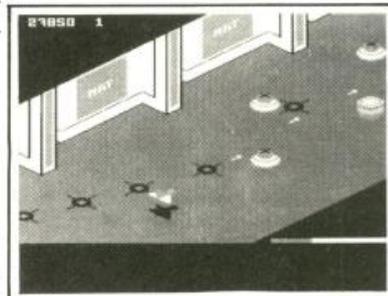
Pasta Blasta 77

CGL

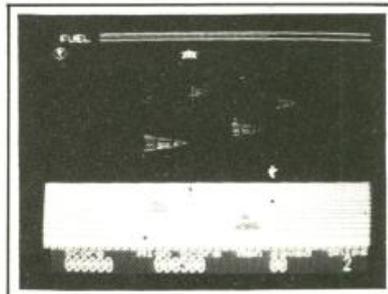
Step Up 78
 Guttang Gottong 78

COLOUR GENIE

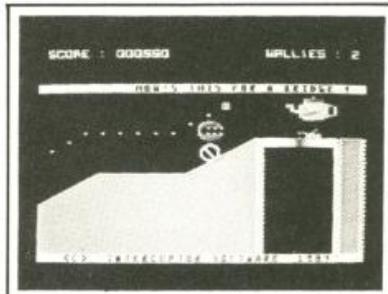
Fruitee Nudge 65
 Geniepede 65



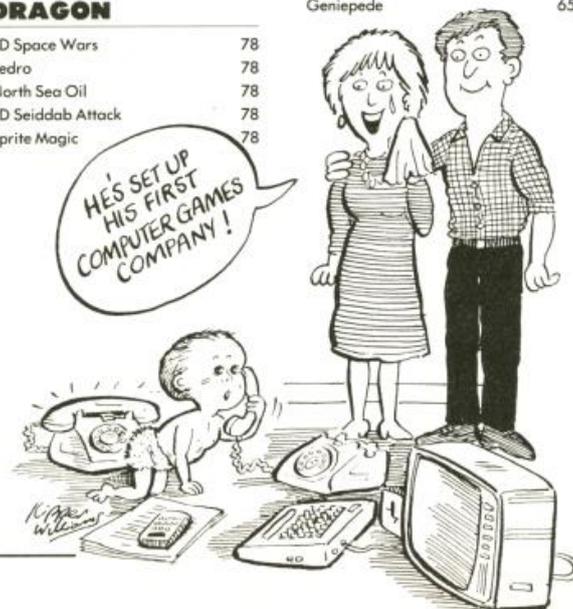
● FORTRESS



● M.A.R.C.



● WHEELIN' WALLIE



DORE 64 • COMMODORE 64 • COM

GAME: BANANA DRAMA
MACHINE: COMMODORE 64
CONTROL: KEYS
FROM: VISIONS, £9.95

You think you could do better than 'the greatest emperor who ever lived'? Try your luck as Juan Rodrigues LVII, the president of Ananaba, a small but strategically important state whose

main resource is bananas.

The object of *Banana Drama* is very simple. You must stay in power for as long as possible. Believe me, it's hard to remain popular with the country rising against you.

Your rule is measured in months - my best is only 17 months.

Each month you are presented with the requests of various sectors, which

you must grant or reject. But beware, your decisions may lose you the support of your allies. So if you are in doubt (and have some money left) you may profit from buying a status report from the State Security Organisation.

As each month passes, your financial state is shown along with a wide choice of options ranging from buying a private submarine (very useful for escaping dur-

GAME: GET OFF MY GARDEN
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: INTERCEPTOR, £7.90 CASS, £9.00 DISK

One thing will immediately become clear to you when you play this game: the authors have an extreme dislike of programmer Jeff Minter of Llamasoft. This seems a little unreasonable, since

many parts of the game are copied from Minter's *Revenge of the Mutant Camels*, our February Game-of-the-Month.

The hero is a rather uninteresting-looking robot whose purpose in life is to water a garden. The robot moves under a running tap, and then to each of six plants causing them to bloom.

But ranged against him are a succession of attacking creatures just about as whacky as those in *Revenge*. They

include chess pieces, chickens which explode into drumsticks, witches on broomsticks and glimmering LP records.

You get a different wave of attackers each time you manage to complete a garden, and there are a total of 64 - that's an awful lot of nasties for your money.

One helpful feature is that you can start the game at any of the first 32 waves. But you will still have the long-

PCG HIT ★ PCG HIT

GAME: WHEELIN' WALLIE
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: INTERCEPTOR, £7.00 CASS, £9.00 DISK

Wheelin' Wallie must be the only game in existence where you control a man riding a unicycle. Fortunately you don't have to worry about keeping your balance - all you have to do is make sure nothing knocks you off.

Wallie keeps moving to the right of the screen while the path moves up and down. If you sit out from your cycle too far it's possible to bang your head on the ceiling and lose a life. Other hazards to be avoided are bouncing balls and a rather cheerful-looking teapot which zooms across the screen.

As if avoiding the obstacles wasn't enough there are 'Power Pixels' scattered along the path. These must be gobbled up to score points.

If you survive long enough you have to make the water and bounce off this to reach the other side and the next level.

Now you not only have to avoid the nasties but you also find gaps in the path. Bridges span the gaps but they move backwards and forwards. If you don't time your crossing right Wallie will end up with no road beneath him and lose yet another life. There are another four pieces of action after this.

Wheelin' Wallie has an original feel to it. OK, eating dots may not be original. But the way in which Interceptor have included this in the game adds to the challenge. All of the graphics are

large, colourful and move across the screen without any jerkiness.

If the graphics are good then the sound must be superb. No real sound effects exist in the game apart from a satisfying sound as you eat the dots and a scream when you get killed. But there is an excellent piece of music that plays at the start of the game, good enough to grace even the most expensive hi-fi.

If you're looking for a new game for your Commodore then I don't think you'll be at all disappointed with *Wheelin' Wallie*. **SNC**

GRAPHICS	8
SOUND	8
ORIGINALITY	9
LASTING INTEREST	8
OVERALL	8

PCG HIT ★ PCG HIT

GAME: FIRE ANT
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: MOGUL, £7.95

A group of scorpions have crushed your army of ants. As the last remaining ant it is your mission to rescue the Queen Ant who is being held hostage in the scorpions' lair.

You must travel through eight different levels of the scorpions' home before you can find your Queen. On your way you will have to avoid contact with the inhabitants of the city or be killed. Scattered around the city are a number of objects which will help you in your task. Keys are obviously for opening doors but the uses of the other objects

are left for you to find out, usually at the expense of a life. Objects range from bridge-building materials to supports that hold up the ceiling.

You have probably gathered that *Fire Ant* is a type of adventure. Unlike the traditional types of adventure the action takes place in real time in the form of an arcade game. No text needs to be entered, all you have to do is guide your ant around the maze picking up objects by passing over them.

Fire Ant is a simple game to play, all input being via the joystick. Even though it is simple, the most hardened arcade player will still find moving on from one layer to another very challenging.

Graphics are well up to standard and there are a couple of nice touches to the

sound. For example, there's a superb rumbling sound whenever you cause a rockfall, although it doesn't quite compare with what some programmers are getting from the 64.

Mogul have produced one of those 'let's have another go' type of games. Being chased around a maze/city isn't original but Mogul have done an excellent job in making it appear so. Personally, I find it compulsive: so excuse me - I'm off to rescue a Queen Ant ... **SNC**

GRAPHICS	7
SOUND	6
ORIGINALITY	7
LASTING INTEREST	9
OVERALL	8



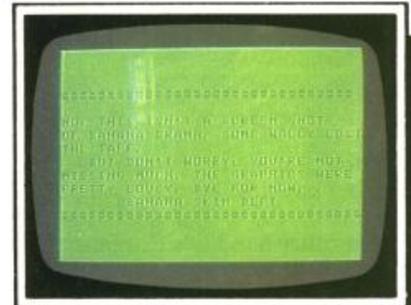
COMMODORE 64 • COMMODORE 64

ing a revolution) to asking the Kremlin for aid.

The program is very easy to use, well displayed and at times quite funny. On the minus side, the sound is poor and the graphics limited to oil cans, buildings and other such objects. My main moan must be about the 'Atari VCS'-style cardboard box which bent and looked tatty.

Still not bad as strategy games go, and certainly fun for all the family. Who's the great dictator in your household? **PT**

GRAPHICS	3
SOUND	2
ORIGINALITY	6
LASTING INTEREST	6
OVERALL	5



term challenge of seeing the last 32.

Two things let the game down. The first is a general lack of excitement. I think this is because the energy level on which your life depends rises and falls so rapidly that the loss of a life seems almost a random incident.

The second is the continual sniping at Minter. For example, the initials in the high-score table read: 'Blow a camel's head off today'. And the first attack wave includes graphics cribbed from

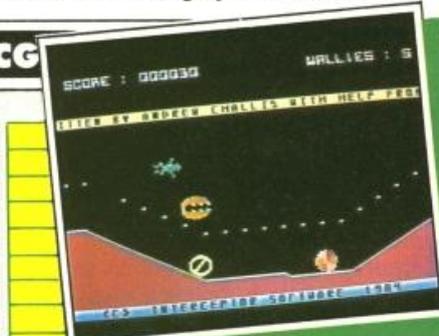
Revenge and is called 'Remains of the Mutant Camels'.

Please, *Interceptor*, grow up. Stick to the game programming – you're really quite good at that. **CA**

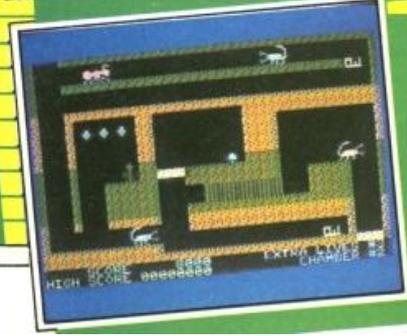
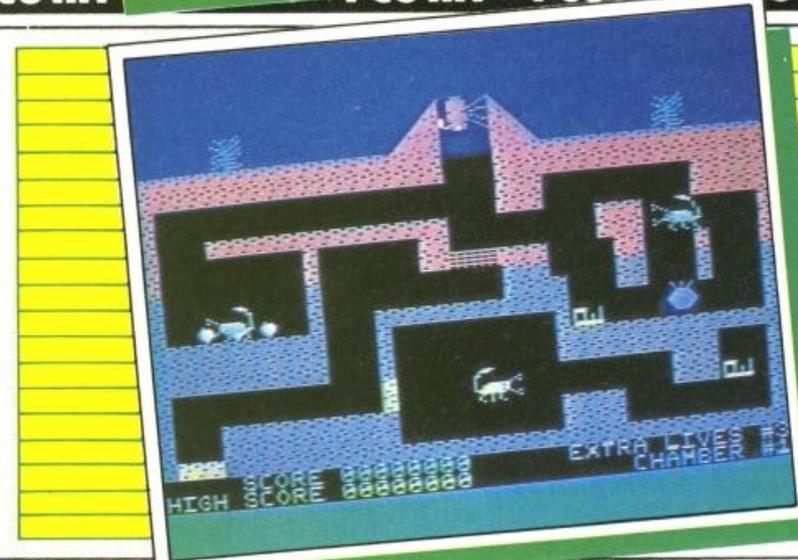
GRAPHICS	8
SOUND	8
ORIGINALITY	3
LASTING INTEREST	6
OVERALL	7



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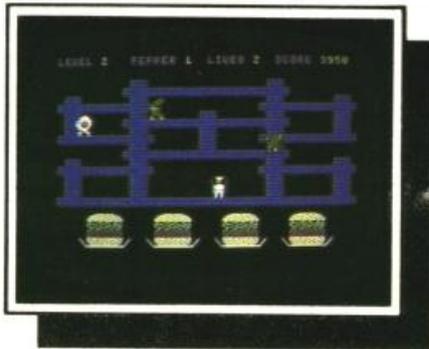


GAME: BURGER TIME
MACHINE: COMMODORE 64
CONTROL: KEYS, JOYSTICK
FROM: INTERCEPTOR, £7.00

It may not be quite the same at McDonald's, but making burgers computer-style is fun.

On the other hand, it's extremely unhygienic, because the technique involves walking over pieces of bun, meat and lettuce which are suspended at various points around a zany maze-like kitchen.

Treading over them makes them fall down a level and if you repeat this enough times you end up with four complete and juicy burgers at the bottom of the screen.



The complication is that you're being chased around the kitchen by Mr Hot Dog and Miss Egg who knock you out on contact. Your defence is to stun them momentarily by squirting a cloud of pepper into their path. Unfortunately

GRAPHICS	8
SOUND	7
ORIGINALITY	1
LASTING INTEREST	7
OVERALL	7

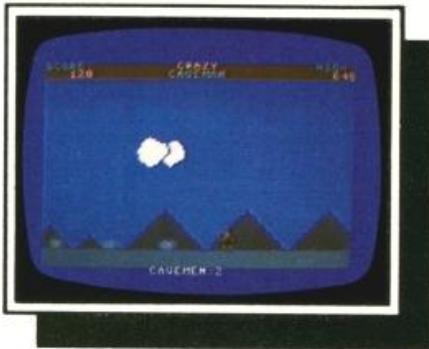
your supply of pepper is very limited, and each time you complete a set of burgers, an extra egg or hot dog will join the chase.

It was a good game in the arcades, and this rendering by Interceptor is excellent. Mouth-watering picture, appetising sound effects and a delicious rendering of the McDonald's tune. But you'll have to put up with Interceptor's continuing infantile snipes at Llamasoft – you are supposed to be making burgers from llama meat. **CA**

GAME: CRAZY CAVEMAN
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: MERLIN SOFTWARE, £6.50 (CASS), £8.95 (DISK)

Crazy Caveman is heading for home after a hard day's hunting, and if this game is anything to go by then I'm not surprised there aren't any cavemen left alive today.

Our prehistoric pal can jump, move left and right, and swing his axe. To make it home he must first jump over some rocks as they roll along the ground



towards him.

If he manages to get past the rocks, he must then wield his chopper and get the

GRAPHICS	6
SOUND	5
ORIGINALITY	6
LASTING INTEREST	4
OVERALL	5

better of a herd of Tyrannosaurus Rex. After that it's a crowd of Dodos, and finally a flock of prehistoric birds who drop rocks on him.

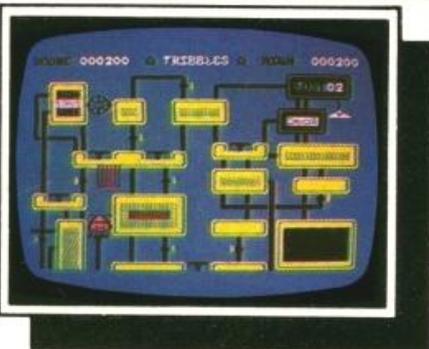
The graphics and sound are fine, but you'll need to put in an awful lot of practice before you can be sure of a decent game. I doubt there's enough here to keep you, or even a caveman, interested for very long. **CA**

GAME: TRIBBLE TROUBLE
MACHINE: COMMODORE 64
CONTROL: KEYS, JOYSTICK
FROM: MR MICRO, £6.90

Here's trouble. You're transporting a spaceship load of friendly Tribbles and someone leaves open the door to their cells.

One by one the Tribbles leave and begin wandering through your craft whose workings, judging from the screen picture, were designed by Heath Robinson.

The aim of the game is to catch each Tribble before it reaches the cargo transporter and gets fizzled. You do this by



moving a grille around the screen, trying to place it in the Tribble's path.

The silly creature doesn't follow a predictable route, but it's quite easy to

GRAPHICS	5
SOUND	5
ORIGINALITY	8
LASTING INTEREST	4
OVERALL	5

outwit it until a 'Wafoid' and a 'service droid' appear. They steal the grille and generally cause havoc.

The action is accompanied by noisy sound effects, and there's a catchy tune to start you off.

But although the game is very different and quite enjoyable, there's basically just one screen of action, and I wonder how long interest would be maintained. **CA**

GAME: DINKY DOO
MACHINE: COMMODORE 64
CONTROL: JOYSTICK, KEYS
FROM: SOFTWARE PROJECTS, £7.95

Childish nightmares provide the scenario for this simple but infuriatingly addictive game.

A cheese sandwich too many has landed Dinky in a world peopled by the revolting creatures of his subconscious. The only way out to the safety of his mummy's room is by drinking the hot milk. The problem is to get to it.

Dinky starts on the left-hand side of



the screen and has to evade obstacles and monsters in order to reach his milk

GRAPHICS	6
SOUND	5
ORIGINALITY	6
LASTING INTEREST	8
OVERALL	7

on the opposite side. If he gets there and drinks it all up then the monsters turn into succulent cherries to be gobbled for bonus points. Then it's on to the next screen.

Although the graphics and sound are not spectacular, *Dinky Doo* is a compelling game because you really want to get through those 15 screens. And get back to mummy. **PC**

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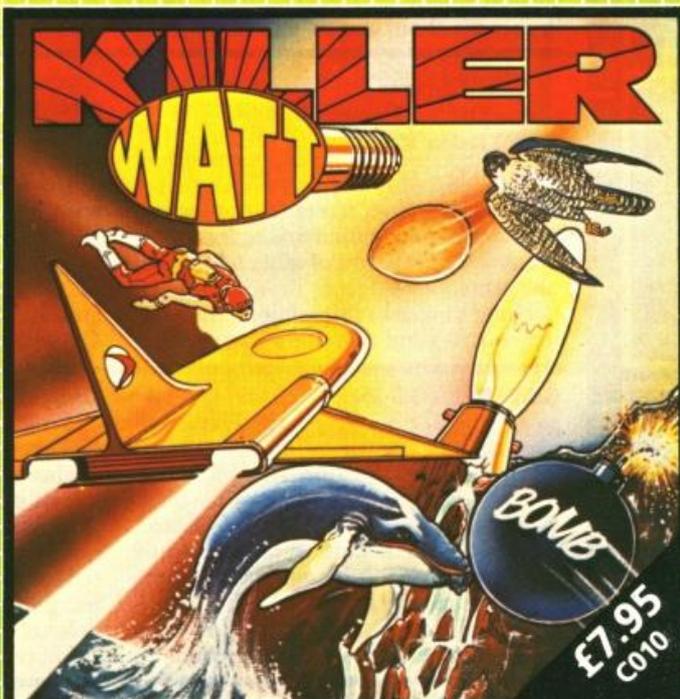
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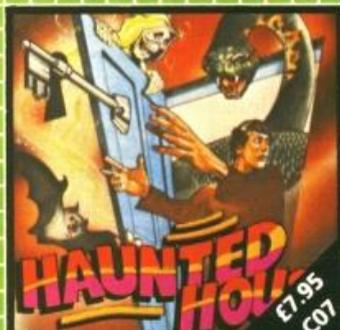
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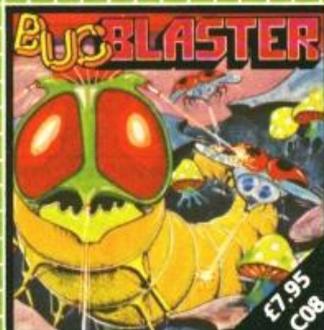
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Joystick compatible.

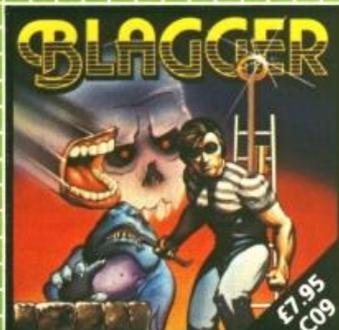


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GAME: SPACE PILOT
MACHINE: COMMODORE 64
CONTROL: KEYS, JOYSTICK
FROM: ANIROG, £7.95

Space Pilot has flown straight out of the arcades where it appeared under the name *Time Pilot*.

You zoom about the screen blasting away at enemy fighters. The cloud-filled sky scrolls about you as your opponents

wheel in from all directions.

There are five different levels, each belonging to a different time zone. First you battle it out with vintage bi-planes in 1919. Next it's prancing Jerries in the Second World War. In the 1970s you face helicopter gunships, followed by jets in 1984 and flying saucers in 2001. You must destroy 56 enemies in each zone before moving on to the next level.

Sometimes pilots bale out, and you



GAME: ODYSSEY
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: K-TEL, £6.95

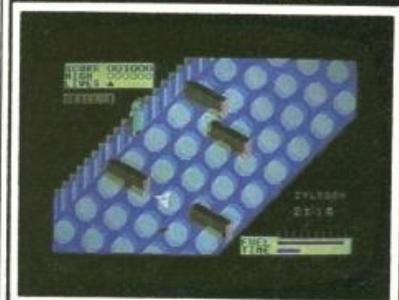
Odyssey is a five screen shoot-'em-up which tries to combine *Space Invaders*, *Scramble*, and a host of other features in one game.

There's more to this game than meets the eye – and certainly more than

appears in the instructions. In the first screen you must eradicate numerous Plague Pests, avoid Robo-Crabs, and destroy Egg Bombs.

The scenario is complicated to say the least, and I found myself failing dismally in my first missions without exactly knowing why.

Once you've sorted out your tactics and worked out the scoring system *Odyssey* becomes rather more enjoy-



GAME: ZYLOGON
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: BIG G, £6.95

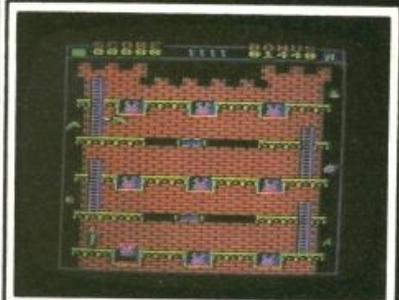
Zaxxon, on which this game is based, was one of the most popular arcade games of 1983. *Zylogon* doesn't quite make the same grade.

Your ship is piloted across a scrolling band of blue and light blue geometric

shapes. It can move up and down, left and right, and must avoid the various defences of the Zylogons as it goes.

There are five different levels of play, which don't change the content of the game, but speed up the action. Level 5 is quite tricky whereas level 1 is a doddle.

The Zylogons don't seem to be very imaginative in the construction of their defences. As in *Zaxxon* you must fly either over or under obstacles placed in



GAME: CITY ATTACK
MACHINE: COMMODORE 64
CONTROL: JOYSTICK
FROM: K-TEL, £6.95

You'll be very impressed by the first few seconds of this game. Up on the screen comes the city you have to protect. It's very pretty and extends over about five screen widths. Well worth protecting.

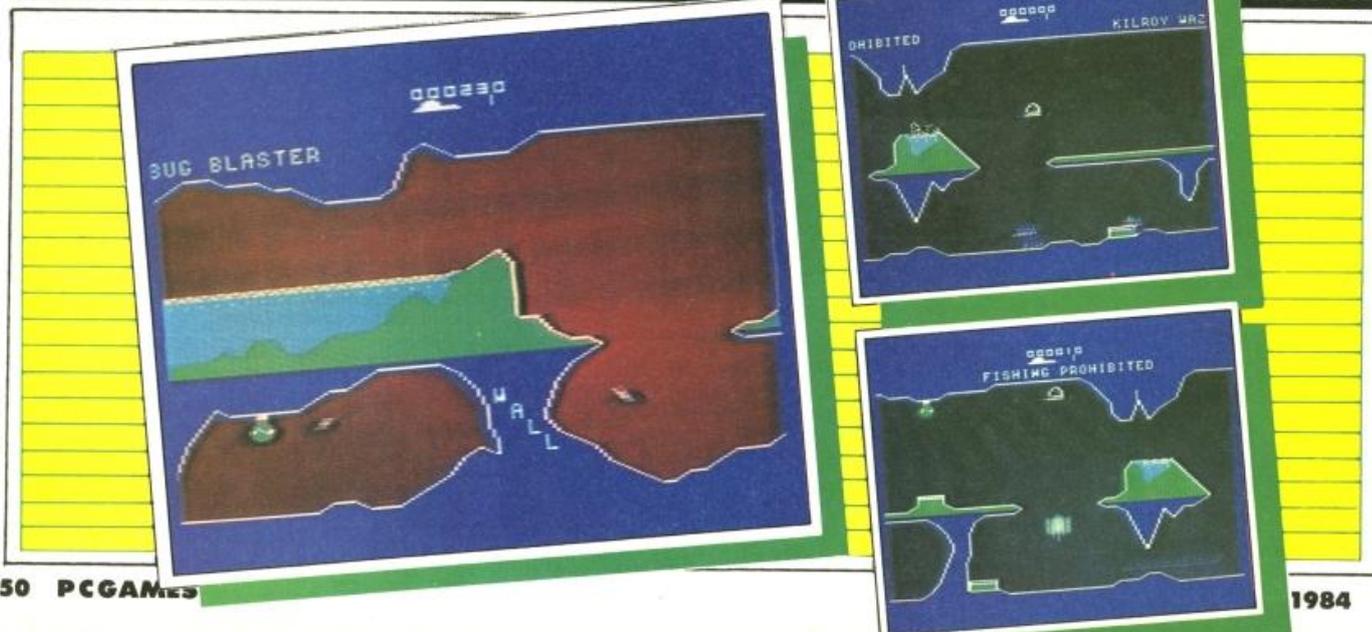
A slight disappointment sets in when you see the spacecraft at your disposal, a

rather primitive model, little more than a purple hexagon.

Never mind, it flies very smoothly and makes a super noise when you fire. But then the aliens start to arrive. Oh dear. They appear to have escaped from a discarded *Space Invaders* machine: small coloured shapes with no detail and little animation.

Actually there are three main types of aliens: the airborne invaders, a little row of 'commandos' and a swirling neutron

HIT ★ PCG HIT ★





MODORE 64 • COMMODORE 64

can pick them up in mid-air for bonus points. The opposition will occasionally attack in squadrons of six craft, whereupon you again have a chance of a bonus if you blast them all before they leave the screen.

As the technology of your opponents advances they become progressively harder to destroy, and will fight back with guided missiles and bombs. Shoot the missiles and bombs as well if you

able. However one or two of the five screens (the fourth in particular) are very difficult to negotiate. Don't go for this game unless you're prepared to spend a lot of time practising.

In the second screen, you must score five hits on an egg, which is jealously guarded by four of the aforementioned Robo-Crabs. Failure to complete your mission means that the egg hatches and you must now wrestle with – wait for it –

your way. You must also bomb fuel dumps to replenish your tanks.

Every so often you leave the scrolling landscape to do battle with alien ships in deep space. These sequences aren't particularly exciting, but they do provide some variety.

Then it's back to the last waves of missiles and rockets, and last but not least (but almost least) a large robot who blasts away at you.

cloud which is accompanied by a guided fireball.

None of these is very impressive to look at. But the game does have a certain compulsion, because each alien wave is destroyed in a different way.

The invaders you take out a row at a time, firing straight up as in the original game.

You're just getting into this when a dinky little tune starts playing to alert you to the commandos running along

can.

You don't have to keep count of how many planes you've shot – as soon as you've notched up the magic number on level 1, a Zeppelin appears. Shoot that and you're on to the next screen. The higher levels are completed in similar, but modern, style.

The graphics are very good, though your plane does look a bit like a duck.

Combined with the action and

a Giant Killer Robo-Crab. Difficult to hit, but not very exciting to look at.

The fourth screen is a *Scramble* spin-off, where you face a number of different craft each of which has some particularly nasty way of costing you a life. Some just rush at you, while others bob up and down, and then suddenly drag you to oblivion without warning.

The graphics in *Odyssey* aren't wildly exciting, and the sound doesn't make

The robot is a bit of an anti-climax. He's very easy to shoot, and the only threat is from the missiles he hurls at you which are very difficult to spot as they blend in with the background.

Once you've killed the robot it's back to the beginning with a new supply of ships, and the same task to accomplish all over again.

The best thing about the original *Zaxxon* was the display. *Zylogon's*

the bottom of the screen. The best way of obliterating them is to move ahead of them, get down to head-level and then open fire. Brutal but effective.

To get the neutron cloud you have to hit its centre from directly overhead.

You can fire in any of four directions by pointing the joystick while you press the fire button. But you can't fire and move at the same time.

Despite the graphical limitations, the game is nicely presented with 14 diffe-

acceptable sound they make *Space Pilot* a very enjoyable romp through the skies. **SC**

GRAPHICS	7
SOUND	6
ORIGINALITY	1
LASTING INTEREST	9
OVERALL	8

much use of the Commodore's facilities. The scope of the game makes it a slightly better buy than the average shoot-'em-up, but give it a miss if you like your games to have the simple touch. **SC**

GRAPHICS	6
SOUND	4
ORIGINALITY	6
LASTING INTEREST	6
OVERALL	6

graphics aren't exactly stunning, and the game doesn't have the compulsion of a good shoot-'em-up, which means you're better off looking elsewhere. **SC**

GRAPHICS	5
SOUND	4
ORIGINALITY	3
LASTING INTEREST	4
OVERALL	4

rent levels, including one K-Tel have thoughtfully provided for you to practise on.

So, a strange mixture. Some very advanced features, some very primitive. Look before you fork out the cash. **CA**

GRAPHICS	4
SOUND	7
ORIGINALITY	5
LASTING INTEREST	6
OVERALL	5

★ PCG HIT ★ PCG

GAME: KILLER WATT
MACHINE: COMMODORE 64
CONTROL: KEYS, JOYSTICK
FROM: ALLIGATA, £7.95

The movement in this game is so smooth you won't need your air sickness pills before take-off.

The action takes place in a giant underground cavern through which you pilot a spacecraft. The cavern extends across about seven screen widths and the sideways scrolling of the picture is achieved without the slightest hint of a flicker. Quite superb.

Your mission is to destroy 12 lightbulbs, yes lightbulbs. They make a lovely ping when you hit them.

The monsters are strange as well. There are wonderful leaping whales

which look suspiciously like dolphins and are so lifelike you feel guilty shooting them.

Then there are mechanical birds which have a comical flying method but lay deadly green eggs.

On higher levels you'll have to cope with running ducks, and vicious, bouncing snowballs. But you have the option of arming yourself with shields which allow you several otherwise-fatal contacts. The shields even let you fly straight through the cavern's thinner walls if you're feeling reckless.

Control of the spacecraft takes some practice because once you start it moving in one direction, it'll keep moving until you apply thrust in the opposite direction. But this, and the smoothness of movement, give the game an ama-

zingly realistic feel.

It also offers you just the right playing options. There's an easy level which you'll need for practice. You can turn off the accompanying music – a slightly wonky rendering of Bach's B minor fugue. And the choice of control keys for non-joystick users is very sensible.

At the same time there is enough challenge at the higher levels to keep you occupied a long time. Believe me, this game will RUN and RUN. **CA**

GRAPHICS	9
SOUND	8
ORIGINALITY	6
LASTING INTEREST	8
OVERALL	8

Trashman



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With seven levels of play featuring three attempts to finish the game (assuming you are not run over by a car) Trashman will provide even the most experienced games player with a thrilling challenge. 1 or 2 player option, Hall of Fame and joystick compatibility* ensure this game has all the best arcade features.

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GAME: SORCERY
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: VIRGIN, £5.95

The evil Necromancer and his demonic servants have conquered the land. All the people of the Earth have been enslaved. All the great sorcerers are being held captive except for one – you.

Your mission is to rescue your fellow

sorcerers and save the Earth before it is plunged into eternal darkness. You will have to be quick as time is running out.

Sorcery is a 15-screen arcade adventure. Your sorcerer starts somewhere on the right-hand edge of the screen and you must reach the gate on the left to get onto the next level. Demonic servants have been sent by the Necromancer to stop you so you must watch your energy when you go into battle with them; if it

reaches zero you're dead.

A very good title screen sets the atmosphere. Old-fashioned lettering scrolls across the TV set, wishes you good luck and tells you the control keys. Unfortunately, the choice of keys is particularly silly. The left and right keys are one above the other and would have been easier to use if they had been on the same row of the keyboard. The scenes all have a title. You start in a

GAME: BLADE ALLEY
MACHINE: SPECTRUM 48K
CONTROL: KEYS, KEMP
FROM: PSS, £5.95

At last! Buck Rogers hits the Spectrum. This is a version of the game in which you guide a spacecraft as it hurtles through a corridor battling a succession of alien attackers.

The game's interest stems from the 3D

view you are given, with the enemy looming larger as they approach. Considering the Spectrum's limitations, this is done pretty impressively. Your craft moves smoothly as it swerves from side to side, and its height along with those of the alien ships is shown convincingly by the use of shadows.

But the depiction of the corridor walls is not nearly so impressive as in versions on more powerful machines. The bands

which make up the walls simply flash alternately blue and magenta and it takes some effort to imagine that you really are rushing forward.

That aside, the 3D effect is among the best going on the Spectrum. The perspective has been worked out well – for example, to destroy aliens you must not only get in line with them but also move your craft to the same height, using the shadows as a guide. You then take a

GAME: TERRY'S TRAVELS
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: ALGRAY SOFTWARE, £5.50

You must move *Terry Turtle* up the screen, across busy roads, log-jammed rivers, and through mazes to get him home.

You can define your own movement

keys, a facility that always makes a game just that little bit more playable. Another nice touch is the sound – Algray have managed to cram some speech synthesis routines into the program.

Every time you lose one of your five lives your Spectrum passes comment – usually inappropriately. Get run over and it shouts 'Roadhog!'. Fall in the river and it also shouts 'Roadhog!'. Hmmm ... full marks for effort but this

effect remains a curiosity and doesn't add much to the game.

The first stages of the game are really just a watered down version of *Frogger*. Getting Terry across the roads is difficult enough, but the rivers are almost impossible. After a while the inappropriate comments and repetitive sound get on your nerves.

If you've enough patience and endurance you then have to navigate a maze

GAME: TIMEBOMB
MACHINE: SPECTRUM 16/48K
CONTROL: KEYS, KEMP
FROM: CDS, £5.95

This game is another version of the arcade game known as *Defusion* or *Gridtrap*.

There is already a version of this game for the Spectrum by K-Tel, and one on the Commodore 64 by Livewire. This

model stands up well in comparison.

Your man hops from one square to another on a large grid. Other squares are occupied by flags, skulls, and a time bomb on which the amount of time left till the explosion is shown rapidly decreasing.

Using sensible control keys you must guide the figure to the bomb in order to defuse it, whereupon another bomb will appear somewhere else and he must repeat the process to save his three lives.

Having defused six bombs you progress to the next level, which is made more risky by the presence of up to four boots. These stamp angrily about the screen and will flatten you given half a chance.

A life is also lost each time you bump into a skull. Further complications are introduced by the fact that you cannot cross a square twice. Pick up the flags for bonus points.

Each time you step on a square it

★ PCG HIT ★ PCG

GAME: TRASHMAN
MACHINE: SPECTRUM 48K
CONTROL: KEYS, CRSR, KEMP, SINC
FROM: NEW GENERATION, £5.95

Trashman is an entirely original game, with great graphics and some very amusing touches.

You have applied for the job of trashman. Your task is to collect the bins from outside the houses, take them to the waiting van, dump the contents, and return them whence they came. Your first day's work calls for you to empty just five bins in Montague Road.

Well, believe me, it IS a day's work. As you frantically rush up and down the street, your bonus is rapidly shrinking.

Once it reaches zero you are given a warning that you had better work faster in future or else. You are then given the same assignment all over again.

Every time you tread on the grass or bump into a hedge, your bonus reduces dramatically. The way things are, you have only just enough time to complete the task – and then only if you do it faultlessly.

Imagine my horror then when having finally managed to empty the bins in the allotted time. I was rewarded with the prospect of emptying SIX bins in another road. At that point I gave up in despair.

Trashman has some very nice touches. Some of the houses harbour horribly yappy little dogs that run out

and bite your leg. People invite you into their homes for all manner of reasons and cars whizz to and fro along the busy street. The trouble is you're too busy emptying bins to stay in the game to appreciate these finer points of programming.

Emptying bins in real life is hard work. *Trashman* is no different. Don't expect to do well at this game without putting your back into it. SC

GRAPHICS	9
SOUND	5
ORIGINALITY	9
LASTING INTEREST	7
OVERALL	8

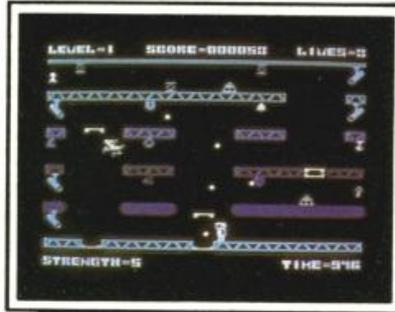


GAME: 1994 (TEN YEARS AFTER)
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: VISIONS, £6.95

According to Visions, George Orwell got it wrong and the Central Computer didn't take over the world until 1994, hence the subtitle 'Ten Years After'. You play the one person who has dared to challenge the computer and plans to penetrate the eight levels of security to switch the computer off.

The scenario sounds exciting enough but the actual game reminds me of the Spectrum classic *Manic Miner* where you guide Miner Willy through a number of caverns. Substitute Smiffy for Willy and you've got the whole idea of the game.

On each level you have to collect the key and insert it into the lock which will take you on to the next level. To make



your task difficult the computer has deployed its security cameras which fire plasma bolts at you, together with jelly droids, buzz saws and springs.

Smiffy has a certain number of power points per life and contact with any of the nasties knocks one point off this. Once his power reaches zero he dies and you have to start the level again. The only things that will actually kill Smiffy with one touch are the electric floors.

GRAPHICS	6
SOUND	4
ORIGINALITY	3
LASTING INTEREST	4
OVERALL	5

Unfortunately the game lacks some of the appeal of its forebear. The graphics are fairly basic and movement is a little slow.

Only having eight levels, the game is little repetitive. The graphics are the same on each level, only the layout differs. It is harder to get through a level than on other similar games but with so few levels it would need to be.

1994 is a very difficult game to play but lacks rather a lot of the polish that we have come to expect from Spectrum games. If you like platform-type games and are looking for a new one to try, you may enjoy it, but the chances are that you will soon be dissatisfied. **SNC**

GAME: AD ASTRA
MACHINE: SPECTRUM 48K
CONTROL: KEYS, KEMP, SINC, CURS
FROM: GARGOYLE, £5.95

The first impression of this program is stunning. Your spaceship sits there against a starry backdrop. Suddenly a huge, round, cratered asteroid hurtles toward you, followed immediately by three or four others.

The 3D effect as they roll toward you is superb. You actually see their cratered-surfaces rotating.

These asteroids are indestructible. You simply have to get out of the way by using left-right, up-down controls, or a joystick.

After the asteroids, the real action starts with two types of spaceship homing in, guns blazing. The 3D effect here is less impressive, but you will have your work cut out to stay alive. You have to



dart rapidly all over the screen to avoid the spreading missiles.

Meanwhile you maintain a rapid fire-rate, sending laser bursts shooting into the distance in a beautifully realistic manner.

Failure here results in the destruction of your craft in an extremely spectacular explosion. Success will eventually lead to another attack of asteroids followed by a new wave of aliens. This second

GRAPHICS	9
SOUND	6
ORIGINALITY	5
LASTING INTEREST	7
OVERALL	8

wave is not convincingly 3D at all, looking more like a set of nasties out of *Arcadia*.

One frustration with this game is that after losing each of your five lives, you must return to dodging the asteroids again. Although they're spectacular to look at, they're quite easy to dodge and you'd much prefer to spend your time dealing with the real action. As it is, the pace of the game is constantly interrupted.

So, hard to know how to rate *Ad Astra*. On the one hand some of the graphics are as good as you've ever seen on a Spectrum. On the other hand parts of the game don't work quite as well as they really ought to. **CA**

GAME: BULL RUN
MACHINE: SPECTRUM 16/48K
CONTROL: CURSOR KEYS
FROM: PHIPPS ASSOCIATES, £5.95

The cassette cover says LOAD "BULL" and that's exactly what this game is.

The basic idea is fine. You have to trap an escaped bull by picking up pieces of fence and positioning them around the animal.

One could even almost forgive the

graphics, despite the fact that the tiny character-size drawings which represent you and the bull jerk around the screen like penguins on pogo-sticks.

What's unforgivable is that the game uses an almost impossible combination of keys, and when (after a few seconds) your single life is used up, it forces you to sit through a long and utterly uninteresting pre-game routine before you can start again.

The keys are the cursor keys for movement plus 'P' to pick up a fence

GRAPHICS	3
SOUND	3
ORIGINALITY	7
LASTING INTEREST	1
OVERALL	2

and 'D' to drop it into position. Easy to remember. Ludicrous in actual use.

It's just possible that if you put in hours of frustrating effort, you might get to the point where the game became enjoyable. But much more likely you'll give up, gored and bored. **CA**

GAME: PENGY
MACHINE: SPECTRUM 16/48K
CONTROL: CURSOR KEYS
FROM: MICROMANIA, £5.95

The game in which you have to slide ice blocks and electrify fences to kill the snow bees. The main trouble with this version is that it uses the dreaded cursor keys. Hours of frustration guaranteed unless you have a cursor joystick. **CA**

GRAPHICS	4
SOUND	4
ORIGINALITY	1
LASTING INTEREST	4
OVERALL	3

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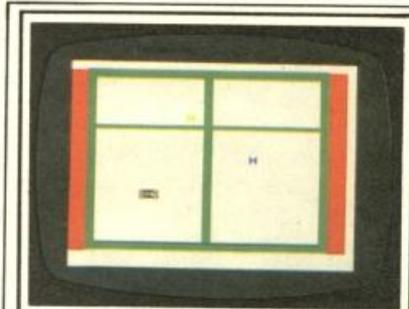
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GAME: BUTTERFLY
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: PULSONIC, £2.99

Another cheapo game from Pulsonic, who are to be congratulated for lowering software prices, but severely reprimanded for offering this particular specimen to the general public.

A spider must eat butterflies to stay

GRAPHICS	2
SOUND	1
ORIGINALITY	5
LASTING INTEREST	1
OVERALL	2

alive. Sparse graphics, jerky movement, Basic program. For far better value for money, try typing in one of the PCG listings. **SC**

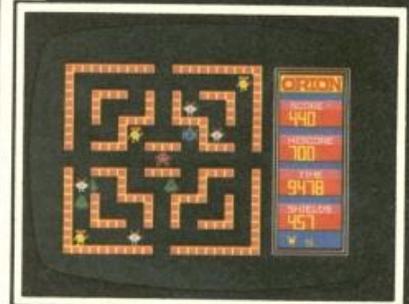


GAME: KNIGHT DRIVER
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: HEWSON CONSULTANTS, £5.95

Knight Driver puts you behind the wheel of a small car, confined to a small display on the right of the screen. The rest of the screen is taken up with either a fuel gauge or (at the higher skill level)

information on lives remaining and a large flashing panel which looks pretty but doesn't add anything to the game.

There are two levels of play – learner driver and professional – and a demo mode. As a learner driver you must steer your car round the track while your fuel runs out steadily. When it runs out you finish and will be presented with a progress report based on the score you managed to clock up.

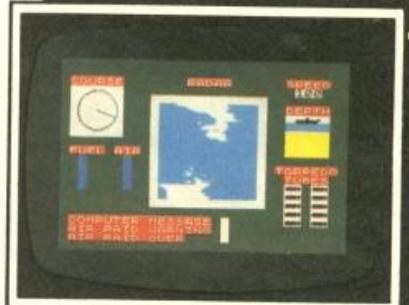


GAME: ORION
MACHINE: SPECTRUM 48K
CONTROL: KEYS, KEMP
FROM: SOFTWARE PROJECTS, £5.95

Simple maze game in which you rescue androids while avoiding various nasties. You have to go through 25 different mazes in a 5 x 5 grid, but they're all much the same. The characters are small

GRAPHICS	3
SOUND	4
ORIGINALITY	2
LASTING INTEREST	4
OVERALL	3

and don't move smoothly. Why waste money on what's basically another *Pac-Man* variant? **CA**



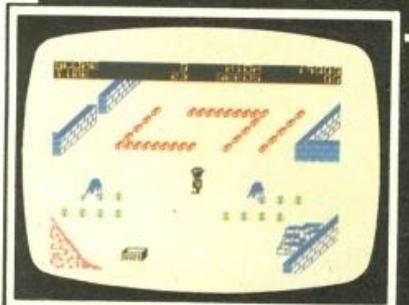
GAME: SUBMARINE STRIKE
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: PULSONIC, £2.99

Your submarine is loaded with ten torpedoes. The enemy is trying to move its ships from one base to another. Your mission is to stop as many ships as possible.

The submarine 'Spectrum' is one of

the most advanced of its time. An on-board computer will give you any information that its sensors are able to discover about the enemy shipping. It jars that such a sophisticated machine has a cutesy way of responding with a 'Hi There!' and a jingle every time you communicate with it.

While hunting for the enemy your sub is under constant threats: from land-based guns; air attacks if you stay too



GAME: PEDRO
MACHINE: SPECTRUM 48K
CONTROL: KEYS, FULL, SINC, KEMP, CUR
FROM: IMAGINE, £5.50

Stop the animals from eating the plants by jumping on them. Make sure the tramp doesn't steal the seeds. The same game as the Dragon version reviewed

GRAPHICS	6
SOUND	5
ORIGINALITY	8
LASTING INTEREST	5
OVERALL	5

elsewhere. Surprisingly the Dragon version is better, this one being very difficult to control. **SNC**



GAME: GLUG GLUG
MACHINE: SPECTRUM 48K
CONTROL: KEYS, PROT, KEMP
FROM: CRL, £5.95

The final frontier is no longer space, but the mysterious world beneath the waves where strangely beautiful creatures glide up your mask and block your snorkel.

A little diver hangs by an airline from a boat on the surface. Armed with a

spear-gun (and limitless spears), his task is to collect three items of treasure from the sea-bed beneath him.

There are 32 screens in *Glug Glug*, and the player's objective is the same in each one. The game isn't as easy as all that, though. In each screen there are all manner of marine nasties on the lookout for you.

Fish swim to and fro, jellyfish drift towards you, piranhas appear in shoals and follow you relentlessly, and crabs



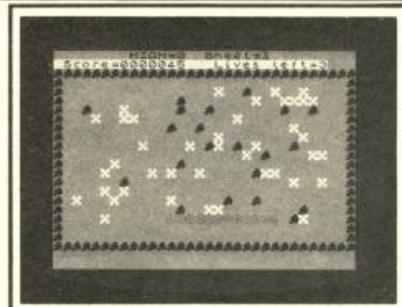
RUM • SPECTRUM • SPECTRUM

GAME: WORM ATTACK
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: PULSONIC, £2.99

GRAPHICS	3
SOUND	3
ORIGINALITY	2
LASTING INTEREST	3
OVERALL	3

Guide the worm around the garden eating crosses and avoiding black dots, the garden wall, and your own tail. Pulsonic apparently needed 48K for this program but it could have fitted into less

than 16. Poor graphics, awful control keys – this is one of the cheapest games for the Spectrum and it shows. **SC**



As a professional driver you don't have to watch the fuel gauge, but you have five lives and must avoid all collisions if you don't want to lose any of them.

The trouble with *Knight Driver* (apart from the cramped display) is that the progress reports take so long that waiting for another chance to play becomes rather frustrating. The first time they flash on the screen they're mildly amus-

ing. The tenth time they're not.

The controls are rather fiddly, you need quick reactions to get round the bends. Sometimes it's more fun *not* going round, but crashing through the barrier and driving off through some rather crudely displayed trees and buildings.

Knight Driver is one of those games that would be great value at £2.50, or if it could fit into 16K, but must otherwise be

considered a rather uninspiring game, unlikely to have the motor-power to keep up with the competition. **SC**

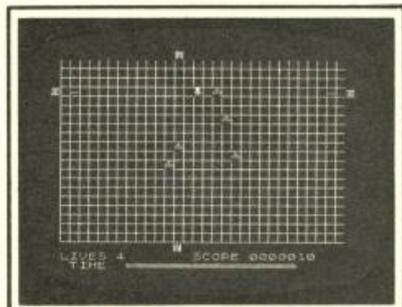
GRAPHICS	6
SOUND	5
ORIGINALITY	3
LASTING INTEREST	4
OVERALL	5

GAME: GRID PATROL
MACHINE: SPECTRUM 16/48K
CONTROL: KEYS, CURSOR JOYSTICK
FROM: LOTHLORIEN, £5.95

GRAPHICS	4
SOUND	6
ORIGINALITY	4
LASTING INTEREST	5
OVERALL	5

Superhuman reflexes are required as you dodge laser bolts and blast robots on a grid. Sometimes you're killed before you've even had a chance to move, or wonder why this game is so familiar.

To find out, play Hewson Consultants' *Di-Lithium Lift* – reviewed elsewhere in this issue. Anyone getting a high score has my admiration. **SC**



long on the surface; and suffocation if you stay underwater too long. It's also possible to run aground if the water is too shallow and the enemy ships have a nasty habit of fighting back if you attack them.

Luckily for you your computer will give you advance warning of impending danger allowing you to take evasive action. Ignore its advice at your peril!

A radar helps you track down enemy

ships and shows where the land masses are. This is a very good display even if it does scan a little on the slow side. Meters are given to monitor fuel and air supplies. You can refuel at one of the fuel dumps which are marked on your charts. You automatically take on air when you surface – a small diagram on the right of the display shows whether your sub is on the surface or submerged and how much water is beneath you.

Submarine Strike is a slow game to play but that doesn't mean that it isn't exciting. Once you get the scent of an enemy ship it will be full speed ahead and no mercy will be shown. **SNC**

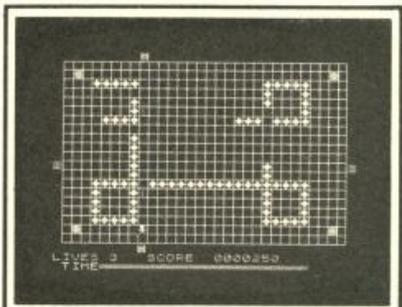
GRAPHICS	6
SOUND	3
ORIGINALITY	5
LASTING INTEREST	7
OVERALL	7

GAME: DI-LITHIUM LIFT
MACHINE: SPECTRUM 16/48K
CONTROL: KEYS, KEMP
FROM: HEWSON CONSULTANTS,
 £5.95

GRAPHICS	4
SOUND	6
ORIGINALITY	4
LASTING INTEREST	6
OVERALL	5

Rush about a grid clearing dots and avoiding cross-fire from four enemy laser bases on the perimeter. Very fast action in a game written by the man who

brought you *Grid Patrol* from Lothlorien. *Di-Lithium Lift* is slightly more playable, but if you must shoot something, buy *Grid Patrol* instead. **SC**



patrol the bottom of the screen.

As the game progresses you also have to keep an eye out for sharks who will attack your airline, and mines which rise up from the sea-bed at the end of long chains and block your progress.

As soon as you play *Glug Glug* you notice the resemblance with Ultimate's *Jet Pac*. There isn't a lot of difference between finding three pieces of treasure and collecting three stages for your rocket. There are also similarities be-

tween the two games' graphics and sound.

Glug Glug can be played by one or two players. It's made more enjoyable by a good choice of control keys, and it doesn't take long to get the hang of the game and start notching up some high scores.

CRL have produced a very playable game. The only possible objection could be that it is almost too playable and doesn't present enough of a challenge,

but it's good fun and the later screens should get even the most hardened gamers into deep water. **SC**

GRAPHICS	8
SOUND	5
ORIGINALITY	6
LASTING INTEREST	7
OVERALL	7

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Starting Thursday 7 June, Thames Television's Database returns with a new six-part series for the computer novice and enthusiast alike.

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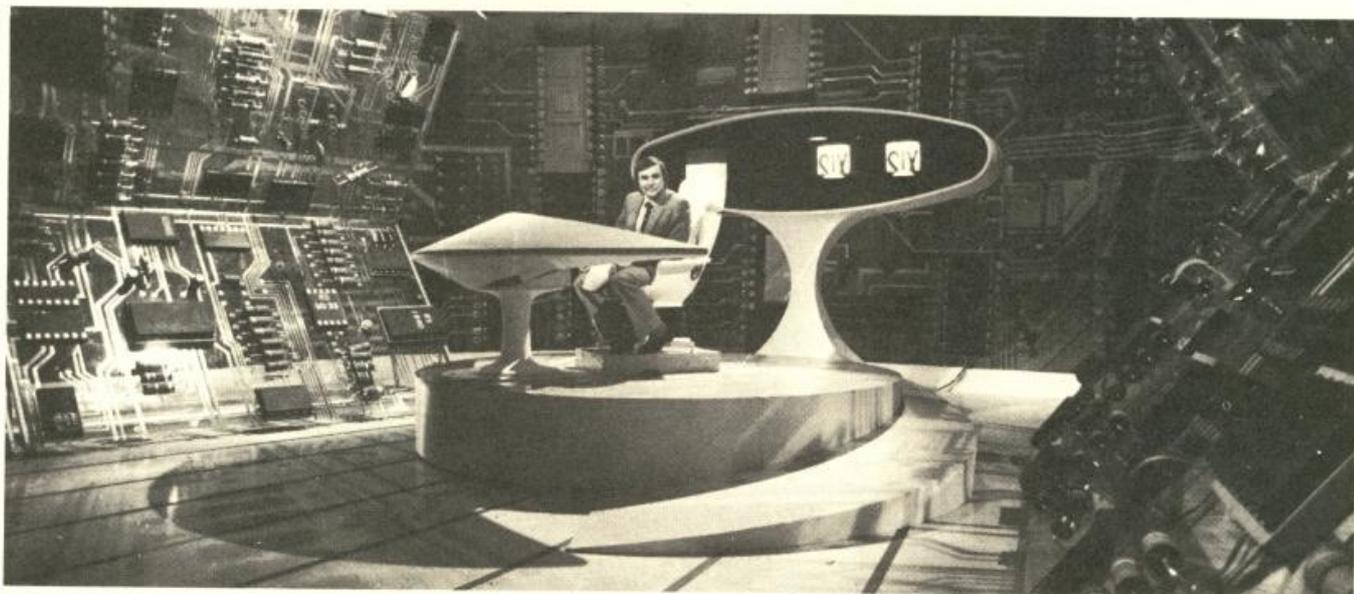
Database will also be looking overseas - to Hong Kong, going underground with a hidden camera to highlight the problems of software piracy, and to Japan. For the computer enthusiast, Japan is a paradise: presenter Tony Bastable will be visiting Akihabara, Tokyo, where

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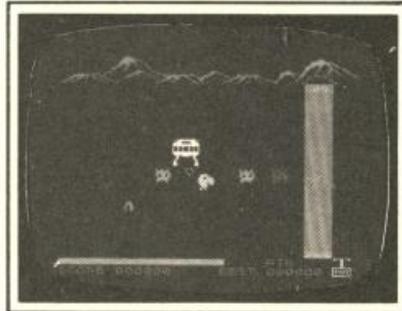
IM • SPECTRUM • SPECTRUM

GAME: TRIBBLE TRUBBLE
MACHINE: SPECTRUM 48K
CONTROL: KEYS, KEMP
FROM: SOFTWARE PROJECTS, £5.95

Strange that Software Projects should give this game the name of an existing Commodore 64 game reviewed in this issue. The two games are completely different.

This one has a delightfully original feature in that you have no direct keyboard control over the tribbles you are trying to protect. Instead you control a cheerful, hippopotamus-like creature called Brian Skywalker whom a tribble will follow, but only when the two are close to each other.

So you ease along gently with tribble in tow, only to see it suddenly dash off in the wrong direction because you moved a little too fast. You'll soon develop strong maternal instincts and start to feel positively guilty when one of your tribbles perishes.



And perish they do, because there are five different deadly hazards you and it must go through. Completing one takes you on to the next.

In stage 1 you have to collect rocks and throw them into a waterfall to build a bridge, across which you and your tribble can escape. But the crazy tribble refuses to stay in the safety of the spacecraft while you do this. It insists on leaping out and wandering around the screen. You must immediately shepherd

GRAPHICS	6
SOUND	5
ORIGINALITY	8
LASTING INTEREST	8
OVERALL	7

it back again to prevent it falling into the waterfall or coming into contact with nasty red tribble-eating firebugs.

Stage 2 requires ultra-sensitive control as you guide the tribble toward little round goofers which he devours, while avoiding cacti which devour him.

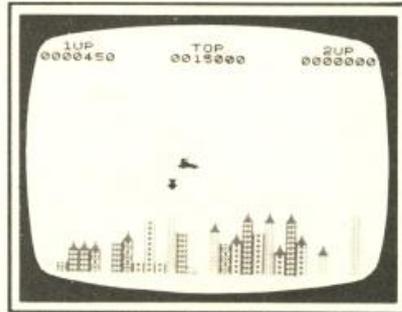
Stages 3 and 4 offer two more different tasks, while in stage 5 you have to shepherd half-a-dozen escaped tribbles through the narrow entrance of their pen before your air supply runs out.

The game doesn't offer spectacular pictures or stunning sound effects. Just an enjoyable and original five-part challenge. And, of course, you will have the satisfaction of placing the tribble kingdom eternally in your debt. **CA**

GAME: MISSION OMEGA
MACHINE: SPECTRUM 48K
CONTROL: KEYS
FROM: PULSONIC, £2.99

Remember the game *City Bomber*? The one where you have to destroy the buildings by dropping bombs one at a time. Well, *Mission Omega* is a version of this.

OK, so there are fuel dumps on top of some of the buildings. You can fire missiles in the direction you are moving. And there are also meteors and enemy aircraft in the air. Even with all this added no more excitement or lasting interest is offered than in the original



game.

You have only two control keys, one to fire the missiles and one to drop the bomb. Your height decreases as you

GRAPHICS	4
SOUND	3
ORIGINALITY	2
LASTING INTEREST	3
OVERALL	4

move across the screen taking you nearer and nearer to the top of the buildings.

It is possible to change the difficulty of the game. You can change the speed (or is it the jerkiness?) at which you move, the height of the buildings, and how many enemy aircraft appear.

The only good things offered by *Mission Omega* are a bright and colourful picture and a low price tag. **SNC**

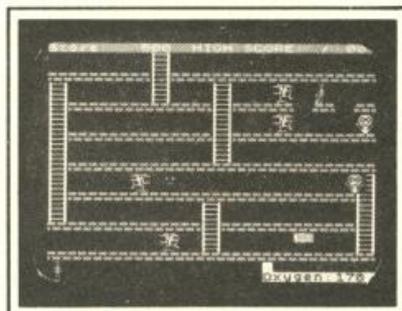
GAME: MUMMY MUMMY
MACHINE: SPECTRUM 48K
CONTROL: KEYS, SINC, CRSR
FROM: LOTHLORIEN, £5.95

In this one you get the chance to become an Egyptian mummy. You have spent peaceful millennia in your pyramid until the ghost of Mad Clive disturbs your sleep.

To get back to sleep you must find the 25 magic scrolls which explain the ritual for your reburial. Just to make things difficult you are hindered by Badorgs, Zobs, Dibrachs and of course the ghost of Mad Clive.

There are three levels of play to *Mummy Mummy*. You start your escape at the top of your pyramid, the monsters a few levels below you. You must dig a hole, lower a ladder, climb down and entice a monster to chase you.

Before the monster reaches you, you must dig another hole and bury it in the



masonry as it falls through.

Yes you're right, it is just a variation on the tried and tested theme of *Space Panic*. Unfortunately it isn't that good. The monsters don't seem to want to follow you, and when they do you'll have a hard time filling the holes in.

Once through the first stage you find yourself inside the pyramid. In this level the ladders are already in place and you cannot place any more. Down at the bottom of the screen is a scroll which must be read before you can bury any

GRAPHICS	5
SOUND	5
ORIGINALITY	4
LASTING INTEREST	5
OVERALL	5

more monsters. Once all the monsters have become part of the pyramid you will be whisked away to a new screen. You must read at least five scrolls before the door to your sarcophagus is revealed.

Once you get into your tomb you must collect the remaining 20 scrolls. Nasties in this room are unburiable and you must avoid them or be killed.

Mummy Mummy offers nothing really special. Graphics and sound are only average - your man does 'walk', but the rest of the characters simply jump around the screen spoiling the overall effect.

The average games player will also probably find it too difficult. **SNC**

20 • VIC 20 • VIC 20 • VIC 20 • VI

GAME: VIC CRICKET

MACHINE: VIC 20 + 16K

CONTROL: KEYS

FROM: SOPHISTICATED GAMES, £5.99

Essentially a game for two or more players, I found *Vic Cricket* to be a sound tactical game.

The program is in Basic and simulates a real cricket match quite well. You have a varied choice of formats ranging from

limited over to full test matches complete with a save-to-tape facility or a 'freeze game' (while you feed the cat) option.

The lack of a graphical display might put some people off but I'm sure you would rather have a game that played well rather than one that sacrificed tactical quality for a bit of movement and sound.

Tactical plays are numerous, ranging

from (in the batting sector) slashing at the ball like Ian Botham or ambling along in Chris Tavare fashion. Fielding and bowling are other areas where tactics play a major part: bowling can be fast, medium or slow and fielding can range from defensive to attacking.

Some of the other likeable features were the constant weather reports and updates on the state of the wicket (which is always from the batsman's

GAME: LEAGUE

MACHINE: VIC 20 + 16K

CONTROL: KEYS

FROM: SOPHISTICATED, £5.99

United nil Spurs nil, 87 minutes gone, the game drifting towards a draw, then suddenly the crowd erupts as Robson slots it home to put United ahead ... Now you can have exciting soccer action on your Vic 20.

You get two games with this tape: a short version (which has *no* games sound) and a long version which I found to be much better. Upon loading the game you are faced with a neat little title screen which you soon get tired of due to the length of this program.

When finally the tape counter grinds to a halt (a quick burst of 'When The Saints Go Marching In' would have been nice here) you are asked whether

you have a printer connected or not, and given the option of loading a saved game. It then goes on to ask you to 'define league' - you can enter up to 22 teams.

Something that annoyed me was you could only have five letters to make the name. Anyway, after wiping away the tears and inputting my teams I got into the game.

Features include a running commen-

GAME: LUPIN

MACHINE: VIC 20 + 8K

CONTROL: JOYSTICK, KEYS

FROM: ENIGMA, £5.50

Our hero Lupin has to find his way through the castle of the evil Count Von Vic, to rescue his girlfriend and retrieve her stolen gems. The Count is determined to stop him and puts robot guards in each of the chambers containing

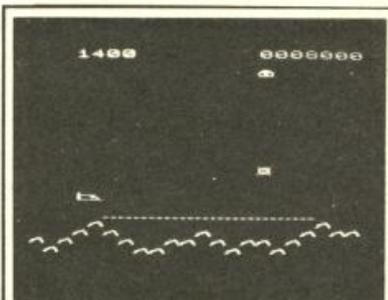
jewellery. The greater the value of the jewellery, the greater the contingent of guards. Further hazards include patrol cars and guard dogs which must be negotiated both on the way to the chamber and on returning.

The jewellery is given greater priority than the girlfriend (libbers take note) and all five gold ingots must be retrieved before Lupin's loved one can be saved.

Should this chauvinistic task be

undertaken successfully then you start over with a greater number of robots, dogs and patrol cars. If Lupin's caught by one of the robots or dogs then one of your three lives is lost and you start over. Contact with the patrol cars is just as lethal, with a loss of life and a game restart being imposed.

The graphics are adequate but jerky and sound consists of what appears to be a famous 10 CC record (out of tune!).



GAME: ANNIHILATOR

MACHINE: VIC 20 UNEXPANDED

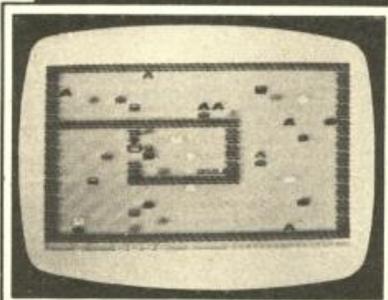
CONTROL: JOYSTICK

FROM: RABBIT, £5.95

In this *Defender*-type game you must fly your craft over a planet and destroy the hordes of invading aliens. The scrolling planet backdrop is rather garish and the attacking aliens move too jerkily to be

encountered with any real degree of proficiency. Sound is bearable but can't be called exciting. **TT**

GRAPHICS	5
SOUND	5
ORIGINALITY	4
LASTING INTEREST	4
OVERALL	4



GAME: BOB'S BLUNDER

MACHINE: VIC 20 UNEXPANDED

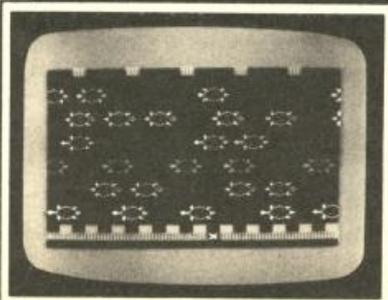
CONTROL: KEYS

FROM: PULSONIC, £2.99

Bob's blunder is Pulsonic's mistake. Dreadful graphics as Bob the Electrician tries to avoid the ghouls and mend the fuse. This is a Basic program and an even less sophisticated game. The player

just hopes for a million volts to end the agony. Pulsonic have got their wires badly crossed with this one. **PC**

GRAPHICS	1
SOUND	1
ORIGINALITY	2
LASTING INTEREST	0
OVERALL	1/2



GAME: POLLYWOG

MACHINE: VIC 20 UNEXPANDED

CONTROL: JOYSTICK

FROM: MOGUL, £6.95

Pollywog is yet another version of the not so evergreen *Frogger*. Unfortunately it is written in Basic, and is excruciatingly slow and proves very difficult to control, let alone play.

The graphics are plain and lack-lustre whilst sound comprises paltry clicks and dull tones. Not at all the best offering from Mogul Software. **TT**

GRAPHICS	4
SOUND	4
ORIGINALITY	3
LASTING INTEREST	4
OVERALL	4



IC 20 • VIC 20 • VIC 20 • VIC 20

point of view).

Speed usually isn't something which comes into cricket but in this game pressing 'F5' a few times speeds things up quite considerably (good for confusing Grandad!). To slow things down again press 'F6'.

If you like cricket, don't mind a bit of brain throbbing as you wade through the accompanying 48 page booklet and you have someone to play against, then

this is the game for you.

However if your scene is fast-moving graphics with plenty of sound then steer well clear. **JJA**

GRAPHICS	NONE
SOUND	NONE
ORIGINALITY	6
LASTING INTEREST	5
OVERALL	5

tary, roaring crowds and incident reports such as 'Hit the bar' and 'Claim for penalty'.

The sound was poor to say the least but I found that after a few minutes I could tell what was happening by the roar of the crowd.

That well-used computer freak's armchair could tremble with excitement as you live out your footballing fantasies.

All in all I liked the game very much, if only because it's a change from hum-drum zap-'em-ups, or boring old text adventures. **JJA**

GRAPHICS	NONE
SOUND	3
ORIGINALITY	5
LASTING INTEREST	6
OVERALL	6

Lupin can be played using either keyboard or joystick each giving a good positive response.

Overall, the presentation, playability and concept of this game place it in the midfield of the currently dwindling Vic 20 games market.

It is not the finest game ever to have been written for the Vic and its sexist overtones may even give offence to some players. But it is a worthwhile

distraction for the more dedicated arcaders. I wish, though, that someone could explain why the hero is named after a flower. **TT**

GRAPHICS	6
SOUND	6
ORIGINALITY	4
LASTING INTEREST	6
OVERALL	6

GAME: KONGO KONG

MACHINE: VIC 20 UNEXPANDED

CONTROL: JOYSTICK

FROM: MOGUL, £6.95

As *Kongs* go this is terribly crude in appearance, due no doubt to being fitted into the Vic's standard 3.5K. Strangely enough it's quite playable and if more screens had been possible then it would

have been one of the better games for the unexpanded machine. Still, it's nothing for Mogul to beat their chests about. **TT**

GRAPHICS	2
SOUND	3
ORIGINALITY	4
LASTING INTEREST	4
OVERALL	4

GAME: SNOWSTORM

MACHINE: VIC 20 UNEXPANDED

CONTROL: KEYS

FROM: PULSONIC, £2.99

This program is likely to raise your temperature with excitement. Knock out the blue blobs on the grid while avoiding the snowballs as they increase in number and speed. A very Basic game

in which purple asterisks represent the snow. 'Do you want another game?' the program asks. Probably not. It's a load of old snowballs. **PC**

GRAPHICS	0
SOUND	1
ORIGINALITY	2
LASTING INTEREST	1
OVERALL	1

GAME: METAMORPHOSIS

MACHINE: VIC 20 UNEXPANDED

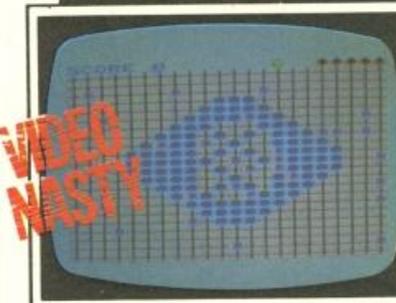
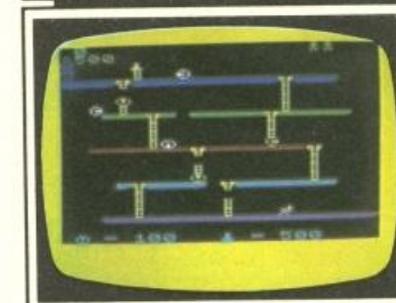
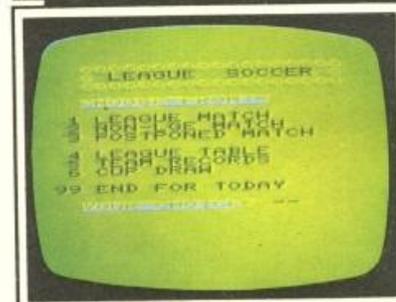
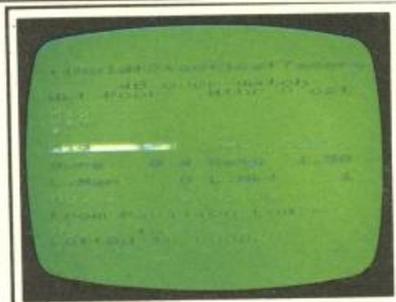
CONTROL: JOYSTICK

FROM: MOGUL, £7.95

In *Metamorphosis* you find yourself poised very precariously in a nest of Cyglorx (your guess is as good as mine!). Your aim is to destroy the tanks and Cyglorx eggs, which threaten to hatch

out at any minute. The tanks and Cyglorx will attempt to enclose and destroy you so reflex movement and rapid fire are essential to survive. **TT**

GRAPHICS	7
SOUND	6
ORIGINALITY	5
LASTING INTEREST	6
OVERALL	6



TERMINAL SOFTWARE

A vibrant, futuristic illustration for the Star Commando game. The central focus is the title 'STAR COMMANDO' in large, metallic, 3D block letters. The background is a dark space filled with various elements: a spaceship on the left, a green alien planet on the right, a hand in a black glove holding a red joystick in the foreground, and several computer monitors displaying game-related data like 'ENERGY', 'SCORE', and 'HIGH SCORE'. A bright yellow beam of light cuts through the scene. A circular badge with the text 'Win Your Wings' is positioned in the lower-left quadrant of the graphic.

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VIC 20 • GENIE • VIC 20 • GENIE

GAME: FRUITEE NUDGE
MACHINE: COLOUR GENIE
CONTROL: KEYS, JOYSTICK
FROM: GUMBOOT, £6.35

A one-armed bandit leering at you from your TV screen. Isn't that just what you always wanted?

I know software for the Genie is hard to find, but this Basic program is better off lost. Gumboot Software haven't even tried to prevent you LISTING the program, but then I expect they don't think there's anything there to interest anyone. They're right.

First let's say what's good about the game. It lets you enter your name so that high scores can be identified. It also lets you save high scores to tape. There are some pleasant musical effects.

Now the bad news. Some of the



graphics that appear on the wheels are pretty odd, with the emphasis on odd rather than pretty. There is no information within the program on the values of the winning combinations (or even what the winning combinations are) so you have to go back to the instructions.

When you're offered the chance to

GRAPHICS	3
SOUND	5
ORIGINALITY	1
LASTING INTEREST	2
OVERALL	1

'nudge', you don't really know which reel would be most likely to give you a high win because only one symbol is visible on each reel at a time. And of course, even if you do get a high win, you're not going to get any money, are you? No, Algernon, there aren't lots of little 10p bits inside your Colour Genie - you got rid of them when you bought the machine.

You start with 29 units of pocket money. When I finished playing I had 47 units. For the first time in my life I didn't get a kick out of coming out on top. **SC**

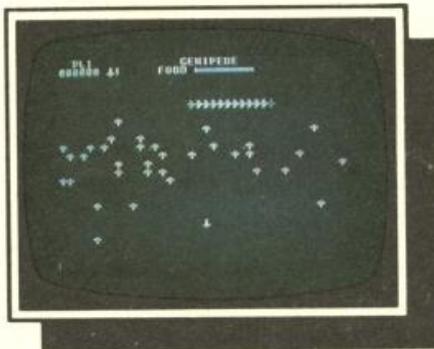
GAME: GENIEPEDE
MACHINE: COLOUR GENIE
CONTROL: KEYS
FROM: IPSWICH SOFTWARE, £8.00

If you're a Colour Genie owner then this is your chance to get out into the garden with a gun.

Just in case you've been asleep these last few years, I should explain that *Genipede* is a version of *Centipede*, a game in which you do nothing except shoot everything in sight.

Lined up above your laser base at the bottom of the screen are rows of mushrooms. A segmented Genipede enters the display from the top and makes its way downwards, dodging round the fungi.

Moving your laser left and right and (to a small extent) up and down, you blast away at the descending bug, splitting it into sections that continue downwards until they are either hit (whereup-



on they turn into mushrooms) or escape from the bottom of the screen to reappear again at the top.

You carry on firing at whatever comes into view, including spiders, descending bugs, and snails - oh yes, and the mushrooms as well if there's nothing else about. You have three lives to start with and you lose one each time you collide with a garden pest.

GRAPHICS	6
SOUND	6
ORIGINALITY	1
LASTING INTEREST	8
OVERALL	7

The snails leave a trail of mutant mushrooms behind them. If the centipede bumps into one it divebombs down to the bottom of the screen. Otherwise there are no surprises for those familiar with the game.

My only reservation about this version is that you get a bonus life every ten thousand points. I'm not the world's greatest centipede killer, but I found myself knocking up lives faster than I was losing them. You don't need to be a wizard at maths to realise that at that rate the game was going to go on forever.

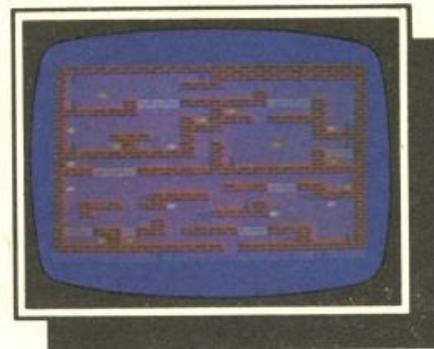
Centipede's a bit old-hat these days, but with Genie games so thin on the ground this has to be recommended. **SC**

GAME: COUNTDOWN
MACHINE: VIC 20 + 8/16K
CONTROL: JOYSTICK, KEYS
FROM: PARAMOUNT, £5.50

This is one of those games which cast the player in the role of saviour of humanity. If you don't like people you probably won't be able to enter into the spirit of the thing.

The problem is this bomb which some loony scientist has planted in the sewers beneath the city. Now he's holding the government to an unspecified ransom. Naturally, your task is to defuse this explosive device. But at the moment you are imprisoned in the crazy boffin's house. To get to the bomb you have to escape from the house, fight your way through the jungle and get down to the bottom of the slimy sewers.

First screen is the house, a red-brick maze on a pink background. Starting in



the bottom right-hand corner you have to work your way to the exit at the top. You must pick up keys to get through the gates and try to avoid the various electrified security devices. On the way you can also collect treasure for bonus points, although this seems a trifle distracting when the lives of so many people are at stake.

The next stage is the jungle, repre-

GRAPHICS	5
SOUND	6
ORIGINALITY	4
LASTING INTEREST	3
OVERALL	4

sented by four big red trees. Dangers here are falling purple coconuts and man-eating plants. To get the necessary key you shin up the squiggly green ropes to the tree tops.

The final screen is the sewers, built in deep blue brick. Here the only obstacles are poisonous green tendrils. Avoiding these you collect four keys and duly go on to save the human race.

The graphics in this game are colourful enough, but are much too fuzzy to be of great interest. Sound is quite good with suitably loud and shocking electrical noises. The real problem is that the game is just far too easy. **PC**



ATARI • ATARI • ATARI • AT

GAME: SILICON
MACHINE: ATARI
CONTROL: JOYSTICK
FROM: ROMIK, £9.99

This is a very neat reworking of the old *Pac-Man* theme. The maze is a marvelous scrolling gold on black circuit board. Your man, Mad, has to be guided around the circuit (much like the road-race games). The aim is to clear the board of all the stray geometric bits scattered randomly around the maze.

These 'bits' are geometric shapes pulsating with colour. Only four bits can be picked up at any one time, then Mad has to be guided to the top right-hand corner of the display to output these bits. Once done, the hunt for more bits goes on. When all the bits have been collected from one chip/maze, a new one is generated.

The board is, of course, infested with nasty bugs. Mad has a laser which



transforms bugs back into more or less harmless eggs. These still cost you a life if you bang into them, but at least they are stationary. The maze is three times the width of Mad, but he keeps to the central lane.

Bugs hug the walls of the maze for the most part, but they cross over into the central lane when you least expect it. You can only hit the bugs when they are directly in line with you in the central

GRAPHICS	7
SOUND	7
ORIGINALITY	6
LASTING INTEREST	6
OVERALL	6

lane.

Since you can't see the whole printed circuit board (only a portion of it is on the screen at any one time), the game designers have thoughtfully included a radar which shows the location of Mad relative to the bugs.

There is also the fiery Glitch which appears after a random time interval. This has to be hunted down and shot or, after some predetermined time period, it explodes, destroying the chip. When it appears, a heartbeat starts to sound. This speeds up as the time for the explosion draws nearer.

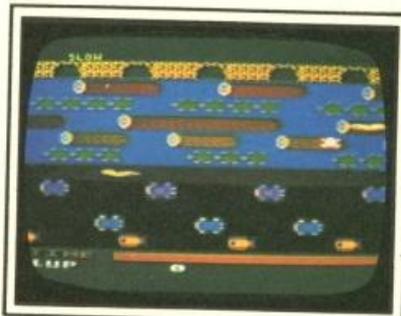
There are 12 skill levels and the graphics and sound throughout the game are very good. **TH**

GAME: FROGGER
MACHINE: ATARI
CONTROL: JOYSTICK
FROM: PARKER, £29.95

At last a superb cartridge version of *Frogger* for the Atari. This is the genuine item, the real *Frogger*, complete with that maddening theme tune.

The graphics are as good as you would expect and the packaging on this game sets a standard for the industry. *Frogger* comes with a 14-page manual, complete with colour screen shots. The instructions are repeated in French, German, English, Spanish and several other languages - the game is clearly destined to take the continent by storm, if it hasn't already.

Despite its 14 pages, the manual doesn't have much in the way of tips for



novice *Frogger* hoppers. There are just the usual warnings not to try hopping home if the alligator head is showing out of that particular hole.

Once nice feature that some *Frogger* imitators omit is a 'fast/slow' option. Those with ageing reflexes will appreciate being able to work at something less

GRAPHICS	8
SOUND	7
ORIGINALITY	1
LASTING INTEREST	5
OVERALL	6

than lightning speed.

Crossing the road is less of a problem than it is on some versions. The pace of the traffic, even on the fast version, is sedate. It's easy to hop your frog from side to side dodging the trucks and cars while looking for a vertical gap. The tricky bit, as always, is the river. The turtles tend to dive from time to time, with fatal results if you don't get hopping.

Once all five frogs are home, the pace hots up (even in 'slow' mode). Snakes appear on the sidewalks and logs and life gets very hectic. **TH**

GAME: Q*BERT
MACHINE: ATARI
CONTROL: JOYSTICK
FROM: PARKER, £34.50

This is the cartridge-based pyramid hopping game that has built up a large following. As with *Frogger*, reviewed on this page, the game is superbly packaged. There are no coloured screen shots in the manual, but you can read the instructions in six different European languages, including English.

*Q*bert* is a game that I find impossible to play, though adepts seem to have no difficulty. The aim is to bounce *Q*bert*, your engaging hero, down the 3D pyramid of cubes, colouring each cube as *Q*bert* hits them.

This would be difficult enough in its own right since *Q*bert* can be made to



leap off the sides or bottom of the pyramid very easily. Jumping off into space is, of course, fatal.

The problem is that joystick control is a little sticky. It is all too easy to leap diagonally left when you meant to leap diagonally right, or down, or up or whatever.

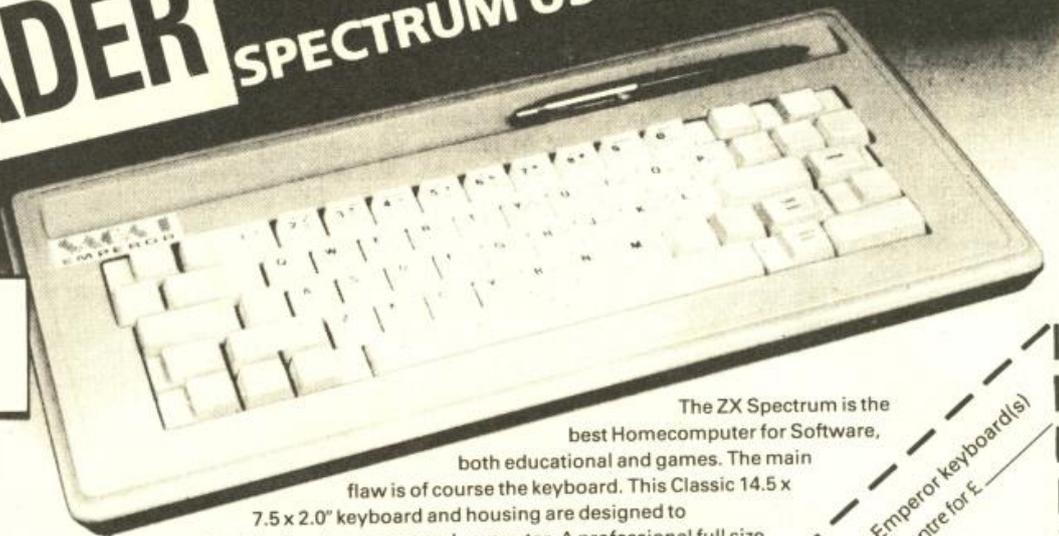
GRAPHICS	8
SOUND	5
ORIGINALITY	6
LASTING INTEREST	7
OVERALL	5

To make a difficult task impossible, there are a number of bouncing 'things' which bound about the pyramid, threatening to snuff out *Q*bert*. These include the red and purple balls Coily and Ugg.

A pair of flying discs, one at either side of the screen, will carry *Q*bert* back to the top of the pyramid and out of the way of the villains. Leaping onto a disk is the only way to get rid of Coily, since he follows and falls to his doom. A nice touch, if a bit repetitive, is the cartoon voice bubble that *Q*bert* gives off whenever he is caught. **TH**

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ELECTRON • BBC • ELECTRON

GAME: CHECKOUT
MACHINE: BBC MODEL B
CONTROL: KEYS, JOYSTICK
FROM: VIRGIN, £7.95

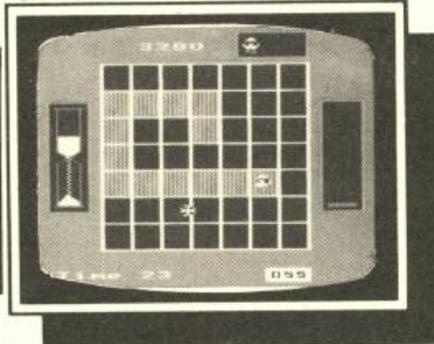
Aaaaagh!! Take this game away from me! I can't stand it any longer!

This is one of those maddeningly simple games that has you staring glassy-eyed at the screen for hours on end. Don't buy it if you value your sanity.

Checkout is very similar to Arcade Software's *Demon Decorator*. The aim of the game is to colour in the squares on the screen by walking over them.

Once you've coloured in all the squares you move on to the next screen and do the same thing all over again. In *Checkout*, however, you must cross each square twice before it registers the desired colour.

This is where the strategy comes in,



because if you cross a square three times then it changes back to its original colour.

Arcade had an octopus patrolling their screen - Virgin have gone for a robot, which moves about at random and occasionally gives a blast on its lasers that cost you a life if you happen to be in the way.

GRAPHICS	5
SOUND	3
ORIGINALITY	3
LASTING INTEREST	7
OVERALL	6

My only grouse with the game is with the robot. It isn't intelligent, and never patrols the squares at the edge of the screen. However it does move quite fast, and you have to be reasonably careful when you venture out into the middle of the grid.

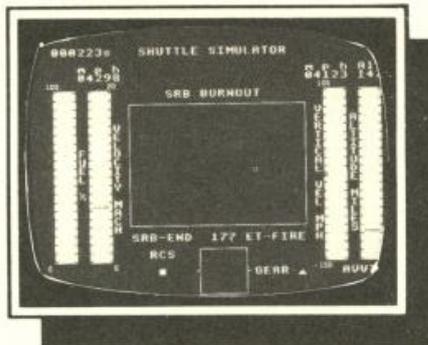
If you enjoy simple, compulsive games, then either *Demon Decorator* or *Checkout* will give you a good run for your money. *Checkout* has better graphics and more features, but Arcade's octopus has brains as well as brawn. You end up in the madhouse whichever one you choose. **SC**

GAME: SHUTTLE PILOT
MACHINE: BBC
CONTROL: JOYSTICK, KEYS
FROM: OAKLEAF, £9.95

Flight simulators are a dime a dozen these days, so you really need a gimmick. In this case the difference is that you are piloting the NASA Space Shuttle rather than an ordinary plane.

Sadly, this doesn't make it a very interesting program. Your mission is in four stages: take off, satellite attack, satellite recovery and, finally, landing.

In none of these parts is there any great attraction for the potential astro-



naut. Once you have figured out what to do - which takes some time since the instructions are less than exhaustive - it

GRAPHICS	4
SOUND	3
ORIGINALITY	5
LASTING INTEREST	2
OVERALL	3

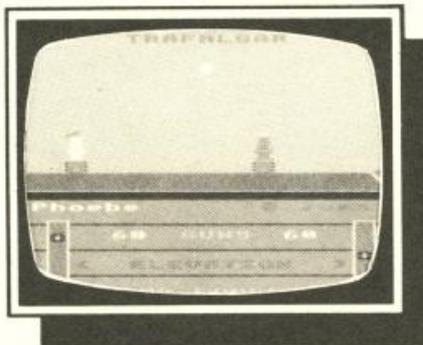
is all too easy.

The graphics don't compensate for this lack of interest. The screen displays the usual viewing window and instruments and you're offered a choice of background colours. Black and white seems to be clearest. The sound too is nothing worth travelling to deep space for. Microdeal's *Space Shuttle* is a better buy. **PC**

GAME: TRAFALGAR
MACHINE: ELECTRON
CONTROL: JOYSTICK, KEYS
FROM: SQUIRREL SOFTWARE, £8.00

Squirrel Software seem to have a thing about flying balls. First it was golf balls, in *Supergolf* - now it's cannonballs in *Trafalgar*.

This isn't as irrelevant a remark as it might seem. The programs have a lot in common. In *Supergolf* you had to choose your club carefully in order to land your ball in the hole. In *Trafalgar* you must judge the elevation of your guns carefully to hit your opponent's



magazine and blow him up.

Trafalgar is a two-player game, but you can play against the computer if you

GRAPHICS	5
SOUND	2
ORIGINALITY	4
LASTING INTEREST	5
OVERALL	4

want to. First side to sink all the other side's ships wins.

Despite the pretty graphics that flash on to the screen whenever two ships enter into combat, *Trafalgar* is a rather unimpressive game. There is little scope for strategy, and once you've grown tired of calculating trajectories you might as well eject the tape. **SC**

GAME: BUMBLE BEE
MACHINE: BBC
CONTROL: JOYSTICK, KEYS
FROM: PROGRAM POWER, £7.95

This a colourful version of the arcade game in which you guide a creature around a maze with revolving doors, trying to eat some things while avoiding others.

In this case the creature purports to be a bumble bee. It's the first blue bee I've

ever seen.

Your nimble bumble wants to eat the pollen grains which are scattered throughout the maze. He must make sure though that he doesn't get tempted by the luscious toadstools. These have very pretty red and white spotted tops but are unfortunately poisonous. The 'bowls of gorgeous food' are also likely to make him terminally ill.

Definitely edible, though, are the succulent fruits which appear as bonuses in the centre of the maze;

GRAPHICS	7
SOUND	5
ORIGINALITY	2
LASTING INTEREST	7
OVERALL	6

tender plums, sweet strawberries and tropical bananas. Get to them quickly or they turn into whirling purple spiders and career after you. Using the doors as protection you must eat all the pollen grains before rushing to the transporter and moving on to the next page. **PC**



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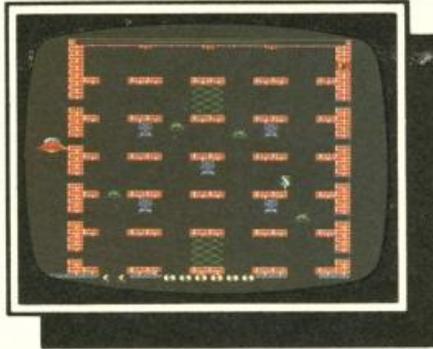
ELECTRON • BBC • ELECTRON

GAME: JET POWER JACK
MACHINE: BBC MODEL B
CONTROL: KEYS, JOYSTICK
FROM: PROGRAM POWER, £7.95

There are five screens to *Jet Power Jack*, and he is faced with the same task in each one. Using his jet-pack to thrust him into the air he must cross the screen to collect fuel pods, and then return to where his flying saucer is waiting for a top-up.

Jack starts off in the top left-hand corner, and in the first screen he has to hop from platform to platform. Spikes protrude from the ceiling in some places, and evil aliens hang like bats above his head.

The real challenge in *Jet Power Jack* is mid-air control. Moving left and right is no problem, but maintaining the correct altitude using the thrust key is very difficult.



This makes the second screen, where there are large amounts of open space to be crossed, very challenging. In the third screen, aliens glower at you from cages that are fatal to touch and in the fourth screen spiders hanging from the ceiling block your path.

Throughout each stage various nasties continue to bob up and down at various parts of the screen, and their flight-paths become steadily less pre-

GRAPHICS	7
SOUND	5
ORIGINALITY	5
LASTING INTEREST	7
OVERALL	7

dictable as the game progresses.

The final screen features a huge alien squatting at the bottom of the screen, and more open space to be carefully negotiated.

Until now, BBC owners have been left out of the fun given by Ultimate-style games. While this one is no *Lunar Jetman*, it could help to fill a gap in the market.

Apart from an annoying screen black-out after you lose one of your three lives, *Jet Power Jack* is well-presented with reasonable graphics. The sound is loud but can be turned off and there is a pause control so you can answer the phone. Don't expect a high score without a lot of practice. **SC**

★ PCG HIT ★

GAME: SWORDMASTER
MACHINE: BBC ELECTRON
CONTROL: JOYSTICK, KEYS
FROM: ACORN USER, £7.95 CASS,
 £10.95 DISK

In a secluded valley in the depths of Burgundy two warriors, members of the Deutschritter Order of Teutonic Knights, don their armour and unsheath their swords as they prepare to settle their differences in combat.

That's the basic scenario of this very entertaining two-player game, in which steel rings on steel and terrible wounds are inflicted.

The medieval humbug includes a list of rules for Teutonic Knights. They must refrain, for instance, from 'taking to women', which seems a bit harsh to me. Perhaps that's why they're always going out for duels.

After a stirring rendition of Elgar's

Enigma Variations the screen display appears: a black valley between two red hills, with a deep blue sky and yellow sun in the background.

The two duelling knights start at either side of the screen in the foreground. On each of the overlooking hills stands another knight with a raised sword which falls lower as the combatant's strength is sapped.

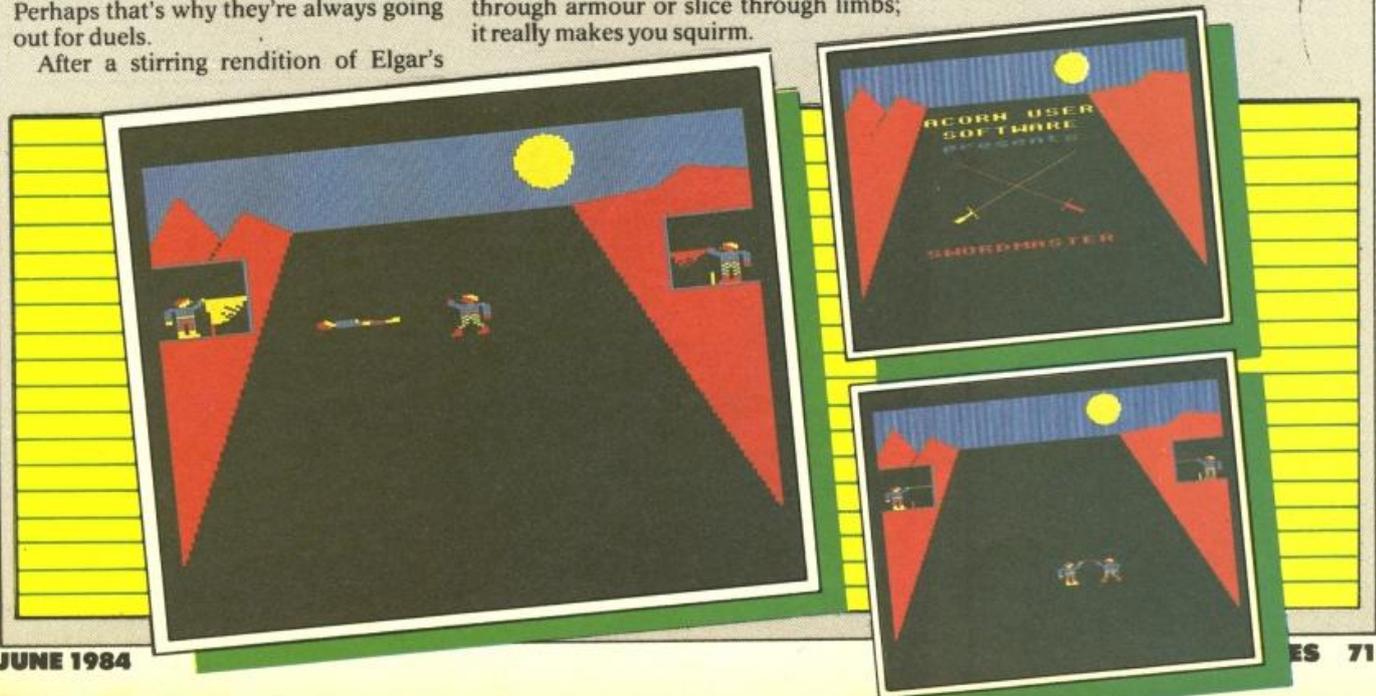
The players control their men using four keys plus the shift lock or copy keys for movement. Swords can be lowered or raised by using the same keys without shift lock or control.

The fun of the game is in pursuing your opponent up and down, forward and back in an attempt to force him to fight. When you do catch up it's mayhem all the way as swords rip through armour or slice through limbs; it really makes you squirm.

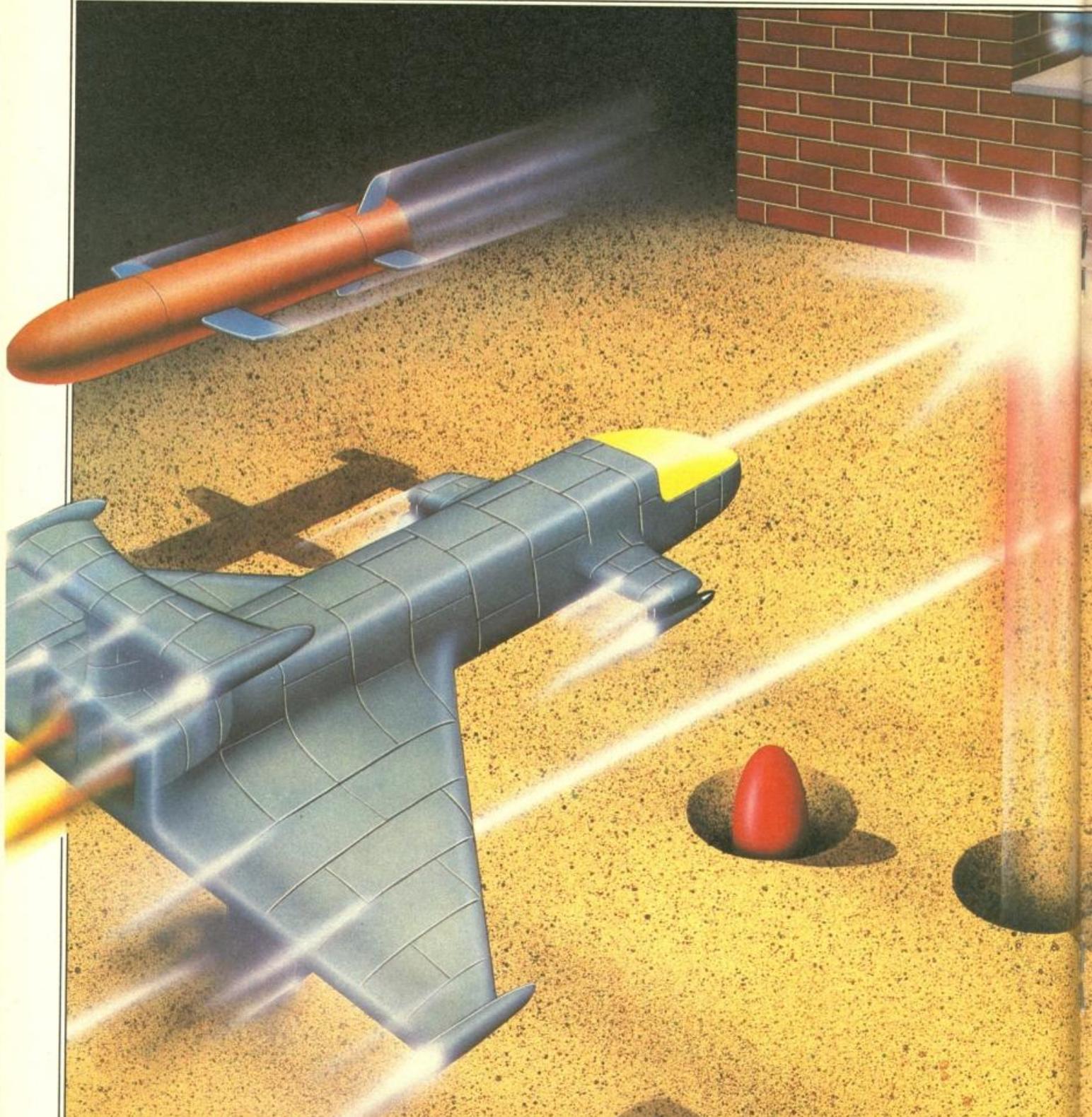
The sound when the knights are fighting is a very authentic steely clanking, and the way that they stagger back as swords clash is very impressive.

Swordmaster is an immensely entertaining game with excellent graphics and animation. Keyboard combat will engross all but the most pacifist of players. The only real drawback is that the screen display never changes, which could lead to you experiencing a certain amount of déjà vu. **PC**

GRAPHICS	8
SOUND	7
ORIGINALITY	10
LASTING INTEREST	7
OVERALL	8



THE MONTH • GAME OF THE MONTH



FORTRESS

BY

MAT NEWMAN

GAME OF THE MONTH JUNE 1984

MARK WATKINSON



MONTH • GAME OF THE MONTH



GAME: FORTRESS

MACHINE: BBC 'B'

CONTROL: KEYS, JOYSTICK

FROM: PACE, £8.95 CASS, £11.95
DISK

So. You think you're an experienced space pilot. You consider yourself to have nerves of steel, laser-sharp reactions and an intricate knowledge of advanced battle techniques. Then it's time you embarked on mission *Fortress*. It's guaranteed to shatter your illusions.

Make no mistake. This is no casual entertainment to be taken on lightly. It's the real thing: a 3D attacking raid of such terrifying realism that, if you're of a nervous disposition, I strongly advise you to stick to space invaders.

Atari owners have already experienced this kind of action in a game called *Zaxxon* which has swept the United States. *Fortress* is loosely based on *Zaxxon*, but it is not identical.

Both games achieve stunning 3D realism in a unique way. Instead of flying left to right as in 2-D games like *Skrumble*, or away from you as in most attempted 3D games, your space craft travels diagonally toward the top right-hand corner of the screen.

That at least is the illusion. In fact the position of the craft changes little. But the terrain you fly over is constantly scrolling in the opposite direction.

Your craft, a handsome, delta-winged beast, flies at constant speed, but using two keys you can steer it to the left or right. Two more keys will alter its height above the ground, this being indicated very convincingly by the craft's shadow. As you dive, you move much closer to the shadow, and at the same time your engine-noise changes in pitch.

The effect is superb, but what makes *Fortress* so special is that it combines this 3D realism with hair-raising action.

OK, the scenario isn't original. You're simply trying to get through a barrage of obstacles in order to destroy a nasty four-legged robot. But the pace at which things happen is electrifying.

You begin by flying over deserted terrain, offering you four seconds in which to adjust to the perspective, position your fingers over the controls, and steady your nerves.

A wall looms up. There's a gap at the top. Climb, move starboard and you're through. But already your fuel gauge has plummeted. You must quickly dive and begin taking out the fuel dumps scattered over the terrain.

Skimming the ground, you jab instinctively at the fire button. Two fuel dumps disappear with a satisfying whoosh giving you a few seconds more fuel. But look out! There are booby-trapped missile sites all over the place. Fly over one and you're dead.

Keep an eye open too for the laser



turrets which keep up a constant barrage of fast-moving projectiles. You swing into line with one as soon as it comes into view, unleash a quick burst of fire and rapidly bank away to avoid being hit. Whoosh! You hit it.

Your pulse rate increases as you climb to clear a second wall and then drop to ground level for another fuel dump. Then comes your moment of greatest danger. A huge Concorde-shaped missile is hurtling toward you. You swing left, it follows. You dive, it follows. It's locked on your course!

Your only hope is to wait until one second before you're hit, climb sharply for half a second and then DIVE. The guided missile can't quite respond fast enough. You're clear.

Thirty seconds of terror later another wall appears. You climb to clear it and ... AAAAGH! A force-field has appeared blocking your path. Only a tiny gap is left. You hammer the 'down' control and open fire. There! Your shots are going through the gap. Your height is right. You're through.

In this next phase of the game, fuel dumps are few and far between. Your evil four-legged robot which you must wipe out is approaching. Hit it four times and it's destroyed.

Believe me, my friend, it'll take you many flights before you succeed. And when you do, a new obstacle course awaits you. Succeed at that and the action gets even faster.

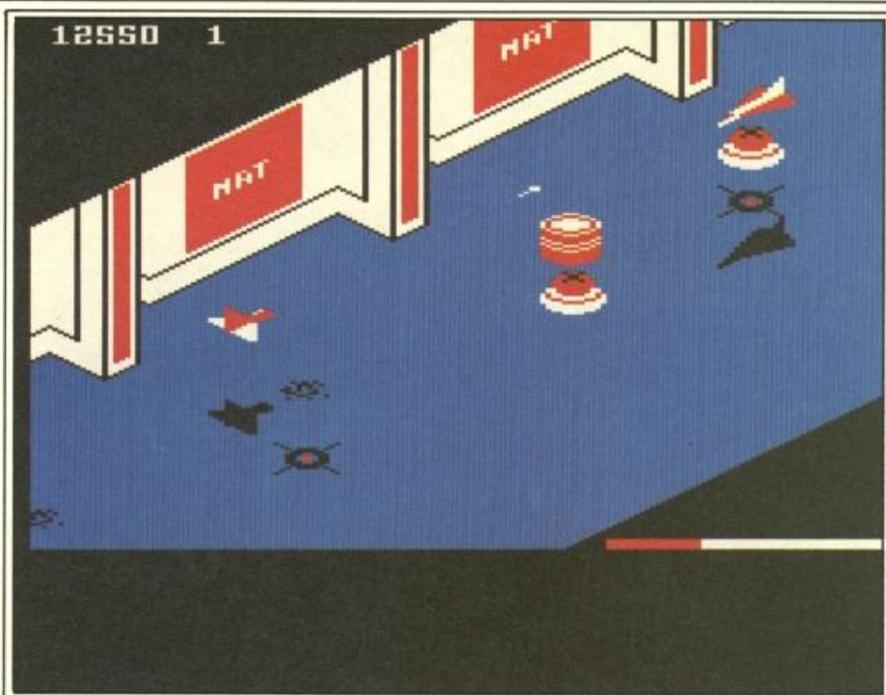
There's no doubt about it. *Fortress* is one of the most impressive games available on a home micro. For the BBC owner, it's an exciting buy after several months which have seen few major releases.

In many respects the feel of the game is even better than that of *Zaxxon*. The scrolling and movement are beautifully smooth, the sound authentic.

One valuable feature is the option of redefining the control keys to those you find most natural. There's also a high-score table and you have the satisfaction of being able to start a new game as soon as the old one is finished – no frustrating pre-game sequences to sit through.

The program uses four-colour high-resolution graphics and takes up every available byte of the BBC's memory. Early versions of the program disagree with some machines and crash after about 20 minute's play. But Pace say they'll put this right.

That bug apart, *Fortress* is an absolutely magnificent piece of programming. Play it if you dare. CA



Stardom at sixteen

The 16-year-old programmer of *Fortress*, Mat Newman, isn't as smart as you might think – he agreed to sell the rights to the program outright without retaining any sales-based royalties. If the game sells as well as we think it will he could be kicking himself in a few months' time. Still, when you're in the middle of studying for A levels, it's hard to concentrate on business affairs.

Despite the obvious similarity to *Zaxxon*, Mat himself has never played the game. 'It was described to me by a friend,' he told PCG from his home in Amersham, Bucks. 'He drew me a picture and I thought: that looks impressive. I'll try it.'

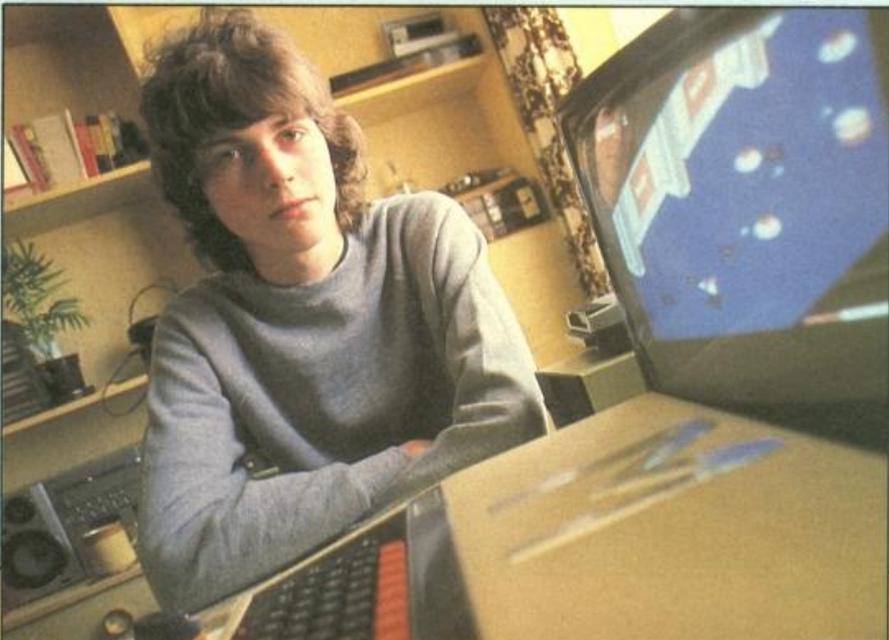
It took him about three months to write, working in the evenings, at weekends and in school holidays.

'It's the best 3D game I've ever seen on the Beeb. My record score is 137,000 – that's going through it five and a half times.'

Apart from *Fortress*, Mat's favourite game is Acornsoft's version of *Defender*, *Planetoids*. He's had his BBC for 18 months, having been introduced to micros two years ago with a Nascom.

And *Fortress* isn't his first game. He's had two previous releases, including Program Power's *Alien Swirl*. But in the future he's considering a move away from games-programming to produce some business software.

Don't do it, Mat. We'd much rather have some more *Fortress*-quality games.



GRAPHICS	10
SOUND	9
ORIGINALITY	3
LASTING INTEREST	8
OVERALL	9



Control John's simple fellow movements to retrieve the Emeralds. Your king has sent you a lowly peasant to the castle of the Evil Baron Dog-Breath.

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Five levels of play with many varied obstacles becoming harder as you progress. £7.00



This game has 7 levels which you have to progress through with the hazard of radio active barrels, guards etc. Each level is harder until eventually, if you are good enough, you have to face XP2. Great entertainment with a built-in hall of fame. £6.00



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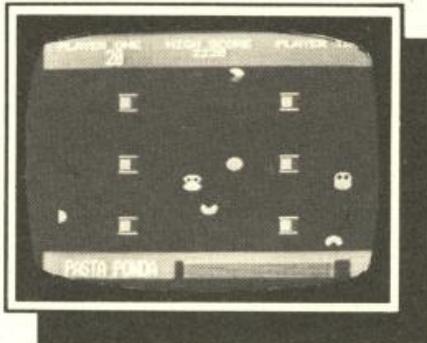
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• ORIC • ORIC • ORIC • ORIC

GAME: PASTA BLASTA
MACHINE: ORIC 1/ATMOS
CONTROL: KEYS, P.A.S.E.
FROM: ARCADIA, £5.50



GRAPHICS	8
SOUND	7
ORIGINALITY	7
LASTING INTEREST	6
OVERALL	7

A terrible responsibility rests on your shoulders when you play this game: 'The future of Italian catering depends on you!' If you can imagine a world without spaghetti alla carbonara, crisp pizzas and enormous tutti fruttis, then you won't be bothered. But I was.

The scenario has you, armed only with a sauce squirter, trying to fight off the Ravenous Ravioli Robbers and the Plundering Pasta Pinchers as they attempt to strip you of your ravioli tins (no fresh ingredients here).

The game plays rather like a cross between *Centipede* and *Asteroids*. In the middle of the screen is your squirter – a red container reminiscent of the large plastic tomatoes that used to hold

ketchup in Wimpy Bars. At the sides are the six purple ravioli tins you are trying to protect.

You can rotate and accelerate your squirter while firing at the thieving culinary villains. These come principally in the form of Pasta Pinchas, amoeba-like creatures in green, blue and yellow who wriggle on to make off with your tins. It's essential to stop them since

when your squirter is squashed a ravioli tin turns into your new weapon.

Vicious Pac-Persons will go for the squirter. Type A is 'mindless' and can be easily killed or avoided, but type B is more intelligent and will make straight for you.

As your Pasta Powder level at the bottom of the screen goes down you have to try and gobble the pill which appears. This can prove tricky, as steering the squirter is not the easiest of tasks.

Pasta Blasta is an enjoyable game with a witty scenario. Graphics are very colourful and the movement is reasonably smooth. The sound is also fun with lots of squelches and splats. **PC**

★ PCG HIT ★

GAME: M.A.R.C.
MACHINE: ORIC 1/ATMOS
CONTROL: KEYS
FROM: PSS, £6.95

M.A.R.C. is one of the few original space shoot-outs I've come across.

There are five cities on the moon, each housing two scientists. They're under attack from bombers and heat-seeking bugs. If a city is destroyed the scientists flee into the open and wait to be rescued.

At this point the enemy attempt to carry off the boffins. Bouncing men appear and if they bounce above one of the scientists then they carry him up into space to destruction.

Meanwhile, my friend, you have not been idle. Having landed and refuelled aboard your mothership, you have been

in hot pursuit of the opposition, blasting away on your laser.

The action takes place above a 3D landscape, which means that not only must you be at the same height as your opponent, but you must also take depth into account as well. The relative positions of all the battling ships are shown by small shadows that they cast on the ground below.

Your immediate concern is to rescue the scientists by lowering a ladder to them, which they scramble up. You must then ferry them to the mothership.

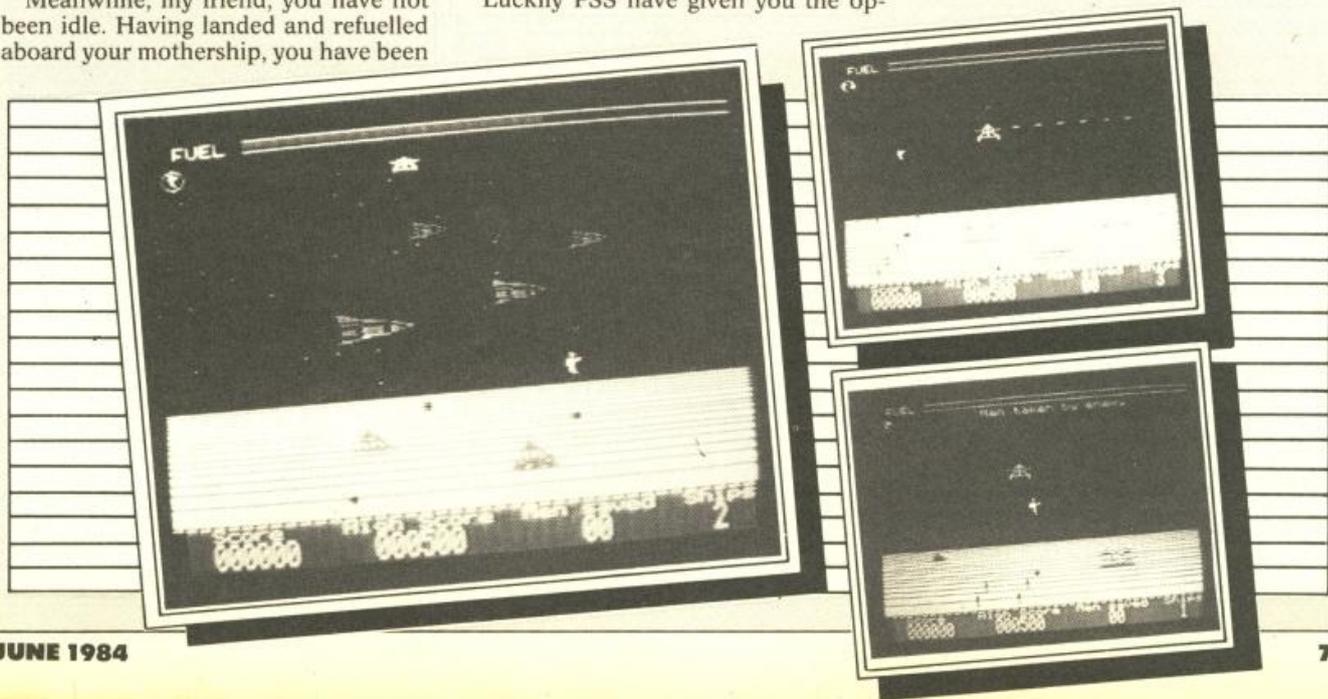
The problem with *M.A.R.C.* is one of control. In order to move you need left, right, in, out, and thrust controls. Unless you keep the thrust handy you'll succumb to gravity and crash.

Luckily PSS have given you the op-

tion of defining your own keys. The best solution is to define one key as both fire and thrust which means you use a lot of fuel but at least it makes the game playable.

Graphics and sound are both well-handled in this game, which despite scoring rather low on playability remains an exciting challenge for the nimble-fingered. **SC**

GRAPHICS	8
SOUND	7
ORIGINALITY	8
LASTING INTEREST	8
OVERALL	8



DRAGON • CGL • DRAGON • CG

GAME: STEP UP
MACHINE: CGL M5
CONTROL: JOYPAD
FROM: COMPUTER GAMES LTD, £23.95

A good *Kong*-style game. Instead of the gorilla you are faced by little green monsters, creeping mice, bats and spiders. Should you reach the tenth level a friendly UFO will descend and carry you

off to the next screen. Well-animated monsters, reasonable sound effects and an enjoyable game. **PC**

GRAPHICS	7
SOUND	5
ORIGINALITY	4
LASTING INTEREST	6
OVERALL	5

GAME: GUTTANG GOTONG
MACHINE: CGL M5
CONTROL: JOYPAD
FROM: COMPUTER GAMES LTD, £23.95

The bizarre title of this game gives you no clue what it is about. So let's read the blurb.

'You are a railroad builder. Lay the tracks to the station, and drive the train

GAME: 3D SPACE WARS
MACHINE: DRAGON 32
CONTROL: KEYS, JOYSTICK
FROM: HEWSON CONSULTANTS, £7.95

3D Space Wars is already a successful game on the Spectrum, and now there's a version for Dragon owners. Your mission is to seek out the Seiddabs and bit-blast them.

The display is in black and white but don't let that put you off. Fine detail and realistic 3D effects make up for the lack of colour.

The main area of the screen shows the view through your cockpit, with gun-sights dead-centre and the rest of the universe (complete with attacking Seiddabs) wheeling around you.

Also provided on the display are a long-range scanner, speed indicator,

score, and number of aliens destroyed. A fuel gauge shows how much time you have left - fuel is used up when you fire and when you're hit by the enemy.

Each attack wave contains 24 aliens, and the opposition gets more aggressive as the game progresses. You have two opportunities to refuel during each wave, but you must find the fuelling station to do so. This isn't easy since it is impossible to distinguish it from other

GAME: PEDRO
MACHINE: DRAGON 32
CONTROL: KEYS, JOYSTICK
FROM: IMAGINE, £5.50

In this latest release from Imagine you take on the role of Pedro. The love of Pedro's life is his garden. After many years of hard work and tender loving care Pedro now has the most beautiful

garden in Mexico.

Unfortunately for Pedro life isn't just a bed of roses. All of the animals for miles around have acquired a taste for Pedro's plants and are always breaking into the garden to eat them. As if having to control the animals wasn't enough the local tramp keeps trying to steal all of Pedro's seeds.

Pedro does have a few ways in which he can protect his garden. If the tramp

turns up Pedro can jump up and down to scare him off. Jumping is also a good way of getting rid of the animals - if you land on top of one you squash it. (Once again we apologise profusely to all animal lovers...)

In the garden there is also a supply of bricks and compost. Any holes in the garden fence can be filled in with these items to keep the animals at bay (at least for a short while).

GAME: NORTH SEA OIL
MACHINE: DRAGON
CONTROL: KEYS, JOYSTICK
FROM: SHARDS SOFTWARE, £5.75

This is one of those games that tries to give you a taste of the world of big business and the thrill of making your fortune drilling for oil.

There are lots of programs like this on

the market for the simple reason that they are easy to write. The player is given a sum of money and a limited number of ways in which to spend it. Success is, or should be, dictated by the common sense of your decisions.

In *North Sea Oil* you have a weekly budget of £1 million. You are allowed to divide this between three accounts - drilling consumables, spares, food, and accommodation for your workforce.

Having made the appropriate allocations you must then navigate your supply ship across the North Sea to the drilling platform. The player must take into account wind and tide when setting a course. The longer the voyage, the more supplies get washed overboard en route.

Once you've arrived safely you're asked to divide your workforce between drilling, maintenance and services. You

GAME: 3D SEIDDAB ATTACK
MACHINE: DRAGON
CONTROL: KEYS, JOYSTICK
FROM: HEWSON CONSULTANTS, £7.95

Shooting down alien spacecraft which fly towards you in 3D is not exactly original stuff. *Seiddab* however offers pretty good graphics for the Dragon. In fact the explosion is the best I've seen on a home micro.

A game worth having a look at, although some will find it pretty uninteresting. **SNC**

GRAPHICS	6
SOUND	5
ORIGINALITY	4
LASTING INTEREST	4
OVERALL	5

TITLE: SPRITE MAGIC
MACHINE: DRAGON 32
CONTROL: KEYS, JOYSTICK
FROM: KNIGHT SOFTWARE, £17.25

If you mention the Dragon to anyone who 'thinks' they know about computers they will probably laugh at you. Comments such as 'it's got no sprites' or 'the sound is lousy' will probably abound. These facts may be true but the Dragon does have a very good version of Basic with some very powerful graphics facilities.

With *Sprite Magic* Knight Software have tried to put right some of the so-called 'flaws' of the Dragon and have done an excellent job.

Sprite Magic gives the owner of the 32 the ability to have up to 128 sprites, an auto-repeat keyboard, text in all graphics modes, enhanced sound facili-

ties and much, much more.

Three new commands are given for sound. **AUTOBEEP** will output a specified sound if a sprite goes off the edge of the screen or collides with some other object. **BEEP** has two different forms. With a number between 0 and 15 after it one of *Sprite Magic's* pre-programmed sound effects is heard. Alternatively, you can put a series of parameters after **BEEP** which will allow you to devise new sound effects by denoting a rate of change of volume etc.

For anyone who doesn't know, a sprite is a large graphics character that can be placed at any position on the screen, moved about smoothly and controlled if it hits the edge of the screen or another object. With *Sprite Magic* you can enter up to 128 different sprites. **ANIMATE** allows sprites 0 to 7 to be animated automatically, ie. they will follow a sequence of drawings. This



GL • DRAGON • CGL • DRAGON

as you go.' Both at the same time? Zany, but true.

The screen is made up of squares over which the track is laid. However, one of the squares is missing. So, to keep your chuff-chuff rolling you have to constantly rearrange the board.

It's not too bad when you've got the track to yourself, but often there are oncoming trains to avoid. These, plus the problem of plotting a route, can

make the game exciting, even frenetic. Graphics are adequate rather than impressive, but the sound is pleasant enough with its puffing and whistling noises. **PC**

GRAPHICS	5
SOUND	6
ORIGINALITY	5
LASTING INTEREST	6
OVERALL	5



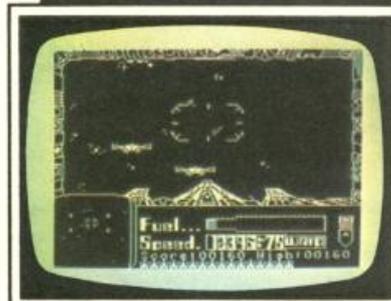
objects on the long-range scanner.

During flight you can adjust your speed to one of eight settings. At the higher speeds you tend to get hit less, but it's also more difficult controlling your ship and getting the Seiddabs in your sights. Speed has no effect on fuel consumption.

3D Space Wars is definitely one of the better shoot-'em-up games on the Dragon. The sound isn't too bad, and the

graphics give a convincing impression of deep-space duelling. A worthwhile romp through the universe for those with time (and Seiddabs) to kill. **SNC**

GRAPHICS	8
SOUND	5
ORIGINALITY	4
LASTING INTEREST	8
OVERALL	7



Pedro's garden is displayed in 3D, and this looks very nice but it does make the game a little difficult to play. You would imagine that moving the joystick up or down the screen would move you straight up the screen, unfortunately this isn't so. Because your view is displayed in 3D Pedro moves at an angle, giving the impression that Pedro is moving into the garden but making it difficult for you to judge where you will end up. Overall

a game that looks very promising but unfortunately doesn't live up to expectations as it lacks the playability that would keep you hooked. **SNC**

GRAPHICS	7
SOUND	5
ORIGINALITY	8
LASTING INTEREST	6
OVERALL	6



are then permitted to drill a certain number of wells depending on your performance so far. The more wells you drill the more money you'll earn.

Strategy games are usually written in Basic and are not exactly noted for speed and special effects. *North Sea Oil* is no exception. More seriously, the number of options open to the player is seriously limited in Shards' program.

The only thing in favour of this game

is the inclusion of the sea-crossing which adds a much-needed touch of originality. Oil tycoons are unlikely to be impressed. **SC**

GRAPHICS	5
SOUND	3
ORIGINALITY	5
LASTING INTEREST	5
OVERALL	4

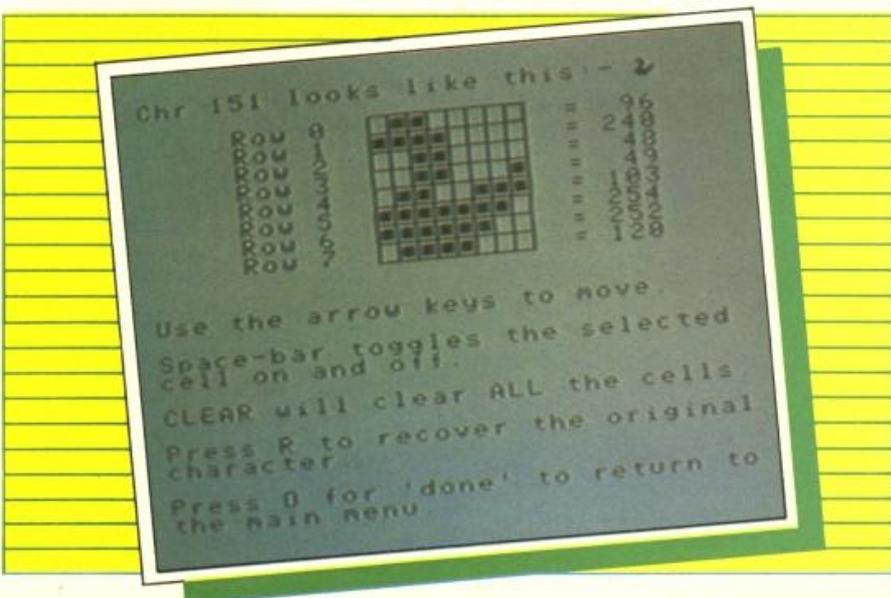


means that you can have a man running across the screen or the blades of a helicopter spinning etc.

Probably the best way to see what a program such as *Sprite Magic* can do is see some examples. Knight Software kindly include six 'free' demonstration programs. Programs range from a maze game to a utility that allows you to redefine the character set. If you really want to know how to use a program like this to its full then read the examples very carefully.

There are many more commands and features to *Sprite Magic* than have been mentioned. Put the power of these new commands together with the existing Basic commands and the Dragon turns into a very powerful machine.

If you would like to write games programs then ignore the expensive price tag of this package - go out and buy it, it's worth every penny. **SNC**



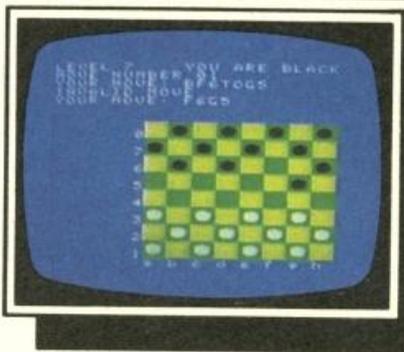


MEMOTECH • MEMOTECH • M

GAME: DRAUGHTS
MACHINE: MEMOTECH MTX
CONTROL: KEYS
FROM: CONTINENTAL, £7.95

The last time I played draughts I was roundly beaten by a six-year-old, so I felt far from confident as I settled down to mental combat with this artificially intelligent player. Was it, I wondered, more or less embarrassing to lose to a machine than to a tiny child?

During the first game I found myself thinking that I needn't have worried; I was crushing the thing. Admittedly, it was only on the first of the nine possible levels, but you've got to get your confidence back somehow, haven't you?



As the machine blundered away it was good to see that it was moving very quickly – but so quickly that the human player is sometimes confused as to whose turn it is.

GRAPHICS	5
SOUND	None
ORIGINALITY	5
LASTING INTEREST	5
OVERALL	5

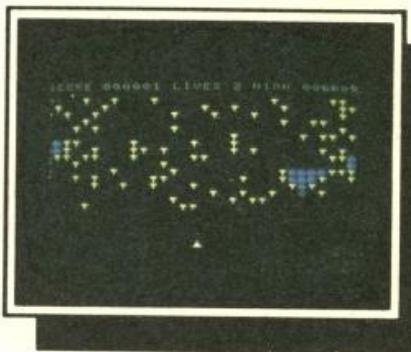
After this magnificent victory I moved up to level four. The program now provided much stiffer opposition and still made its moves reasonably quickly. But even a mediocre player should have little trouble winning.

Screen display in this program is in yellow and green – clear and soothing. One drawback is that the packaging includes no instructions on how to abort a game or restart. But those who like draughts will like *Draughts*. PC

GAME: KILOPEDE
MACHINE: MEMOTECH MTX
CONTROL: JOYSTICK, KEYS
FROM: CONTINENTAL, £6.95

There are two essential requirements for any version of *Centipede*; speed and loud noises. *Kilopepe* lacks both of these and so does not qualify as one of the more alluring megazaps around.

The game's graphics, though, are tolerable. Yellow mushrooms in the familiar light-bulb style are spread over a black background. Through this vegetation comes the segmented blue *Kilopepe*. Your laser-base is very mobile, but doesn't fire anything like



fast enough.

There are, of course, more hazards than a mere centipede. You are told to avoid 'killer crabs, fleas, spiders and

GRAPHICS	5
SOUND	5
ORIGINALITY	1
LASTING INTEREST	3
OVERALL	4

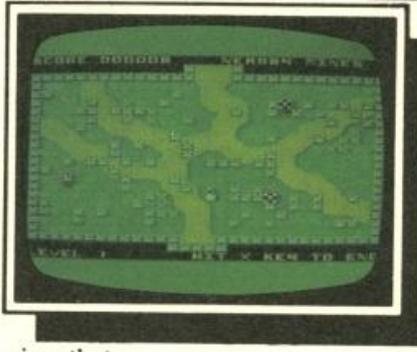
jellyfish', though it's hard to tell what relation the green half-moon shaped creature near the beginning bears to any of these.

Overall, the game is merely average and is no better than the many other versions available for other machines. Given the Memotech's specifications we might have expected something considerably more sophisticated. PC

GAME: SUPER MINEFIELD
MACHINE: MEMOTECH MTX
CONTROL: JOYSTICK, KEYS
FROM: CONTINENTAL, £6.95

Veterans of World War II could get a pleasant, or nasty, feeling of nostalgia as they play this game. The object is to get from one side of the minefield to the other without, of course, being blown up.

The trouble with mines is that you can't see them. This is because they are usually underground. So what you need is a mine-detector. In this game, though, all your detector, in the corner of the screen, will tell you is the number of



mines that are near you.

These could be left or right, up or down. You must, then, use 'logic, skill and deduction' to plot a safe route across the screen. As you move to a

GRAPHICS	4
SOUND	3
ORIGINALITY	3
LASTING INTEREST	4
OVERALL	4

mine-free space a white blob appears. Using these markers and the detector you might just get through with all your limbs intact.

The graphics in this program are disappointing; a garish mixture of green and yellow. The sound is also dull with its poor noises for movement and explosion. On higher levels there are nasty spiders on the roads and tanks which re-arrange the mines. But they don't really make it any more exciting. PC

GAME: BLOBBO
MACHINE: MEMOTECH MTX
CONTROL: KEYS, JOYSTICK
FROM: CONTINENTAL, £6.95

Don't be deceived by this name; *Blobbo* is a very close relative of *Pac-Man*. In the extremely limited area of maze-games available for the Memotech it stands up as an enjoyable, if not an outstanding, program.

Blobbo is a blue creature with a much sharper nose than his name suggests.

His job is to rush around the maze eating the succulent fruit which appears. Bananas, cherries, apples – Blobbo loves them all.

But it's not so easy to satisfy his appetite. The maze is also inhabited by the Blobbo-eaters, monsters whose only desire is to consume our hero. They come in a variety of sickly colours, have twinkling eyes and are topped with far-out frizzy hair-dos.

As in *Pac-Man* there are power-pills in the corners of the maze which enable Blobbo to eat the monsters for a few

GRAPHICS	6
SOUND	7
ORIGINALITY	3
LASTING INTEREST	5
OVERALL	5

seconds. There are also deadly skulls and cross-bones.

The graphics in this game are pleasant without being amazing, but the sound it very good. The background tune alternates between fairground-style jauntiness and the rousing strains of what I think is Grieg. PC

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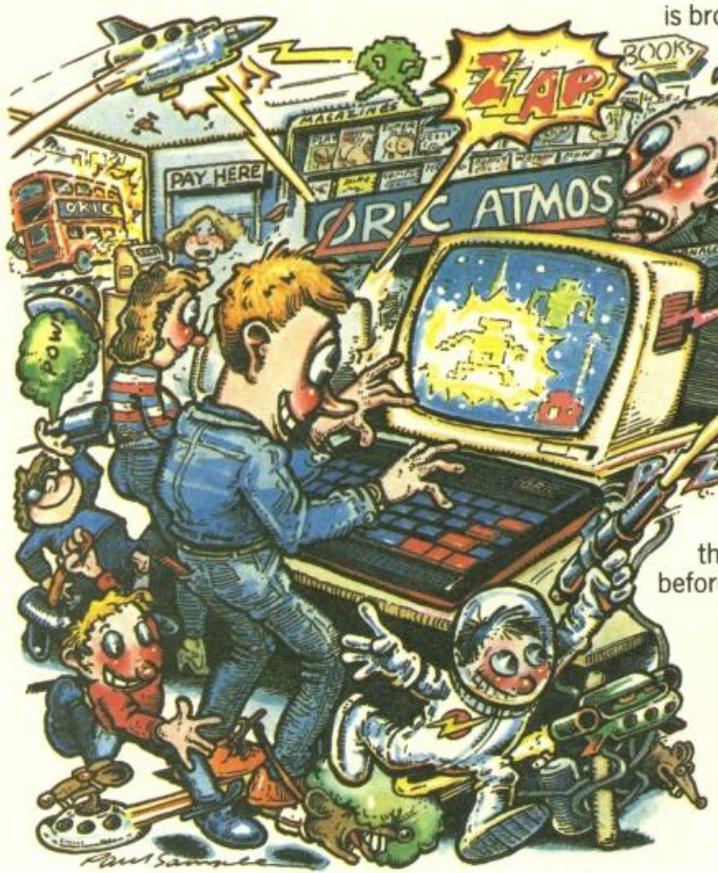
Pilot your space-craft through alien territory and fight off the enemy approaching from both sides. **48K. £7.95.**

Ultima Zone:

Shoot the Walkons, avoid the bouncing Brunes and battle your way through the satellite zone. **48K. £8.50.**

Rat Splat:

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or let's get down to business!

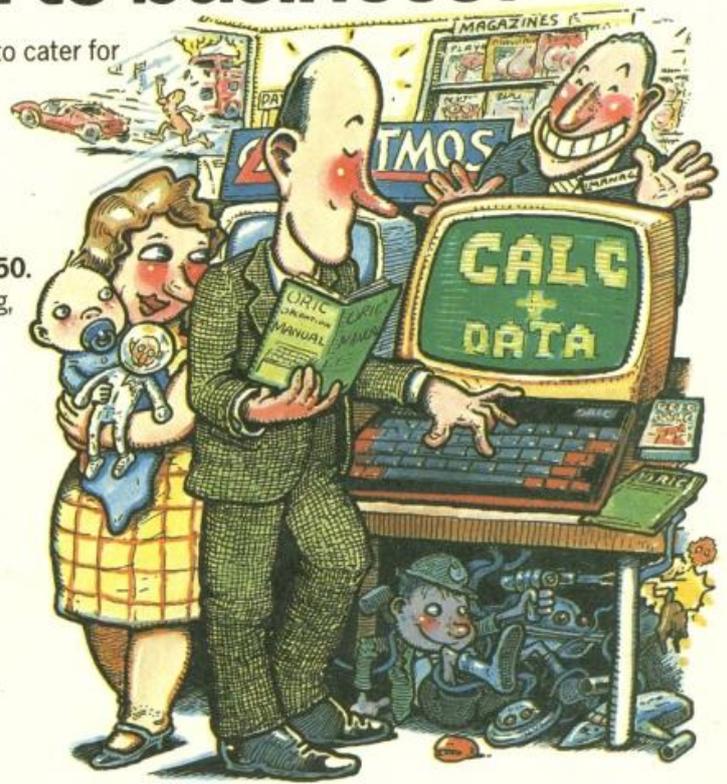
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Oric Calc: A full spread-sheet program allows you to sum columns or rows and apply complex formulae. **48K. £14.50.**

Oric Cad: A computer aided design program for displaying, rotating, enlarging and shading objects on the screen. **48K. £9.99.**

For the full range of Tansoft software – which currently numbers over 20 titles – pick up a catalogue in your local Computer Store or contact Tansoft at Unit 1, The Techno Park, 645 Newmarket Road, Cambridge. Tel. Teversham (02205) 2261.



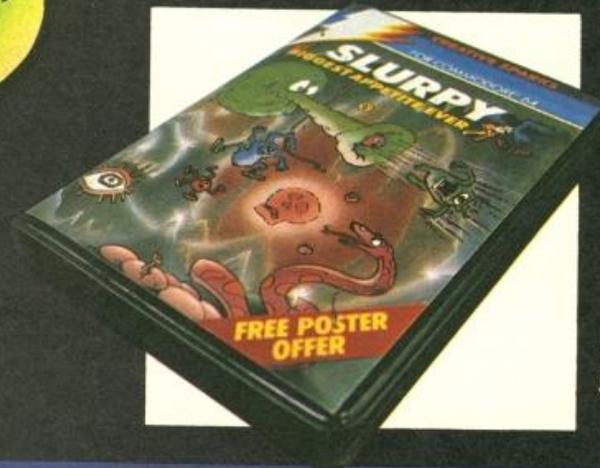
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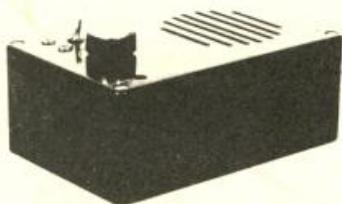


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THE ABC

Let's admit it, last month's game wasn't exactly a PCG hit. But it should have given you some important first ideas about programming. This time you'll be going on to learn two more key ideas: how the computer handles text, and how you can get movement on screen. The aim is to end up with a game called *Letter Invaders* which should run on any of the popular home micros.

It works like this: advancing across the screen is an ever-lengthening line of letters. You destroy them by hitting the same letters on the keyboard. OK, it's not quite *Defender*, but it'll force you to move round your keyboard like greased lightning.

In order to make the game challenging, the attacking letters need to be selected at random. You learnt last time how to generate a random number. But how does the computer generate a random letter?

It can't directly. First you have to get it to select a random number and then convert this to a corresponding letter. This is easier than it sounds because your computer already links each letter of the alphabet with a different number. For example, A is 65, B is 66, C is 67, and so on through to Z which is 90.

This match-up system is internationally agreed and is called the ASCII system. You can make use of the system with this magic sequence of letters: CHR\$(the CHR bit is short for 'character'). If you follow those letters with a number in brackets between 65 and 90, the computer will convert the number to its corresponding letter.

For example try typing in PRINT CHR\$(65) followed by <Enter>. The computer should print the letter A.

So in order to produce a random letter, the computer must simply select at random any of the numbers from 65 to 90. You learnt last month how to generate a random number ranging from 0 up to any given number. This needs to be adapted to produce the random numbers we want. This program line does the trick - type it in.

```
10 LET N=65+INT(RND(1)*26)
   [for Dragon and BBC: 10 LET
   N=65+RND(26)]
```

To understand it, work through it from the back. RND(1)*26 generates a random number of anything from 0 to (but not including) 26. These numbers will include decimals, such as 17.4523. But all we want is simple whole numbers such as 17. So we chop off the part after the decimal point by using INT (which stands for integer, a mathematical term meaning whole number).

For example, INT(17.4523)=17. This means that INT(RND(1)*26) will generate any whole number from 0 to 25. Now all we have to do is add 65 to each number that we generate and we'll have achieved our goal. What the line does,

then, is to generate a random number from 65 to 90 and label it N. To prove the point, add these two lines.

```
20 PRINT CHR$(N);
30 GOTO 10
```

Line 20 converts our numbers to letters, and prints them. (The semi-colon at the end of the line stops the computer from moving down to a new line on the screen after printing each letter.) Line 30 causes the computer to return to line 10 and choose another random number.

If you run this program, it should fill the screen with letters chosen at random. It will keep this up for ever unless you stop it, by pressing [Break] or [Stop]. Try it.

Character strings

So, we can generate random letters. But the program we are aiming at needs to be able not just to print them, but to actually move them across the screen.

This means it must have some way of keeping a record of the letters it has generated. You've already seen how it keeps a record of numbers - it labels them with a letter (called a variable).

Well, it's possible to label a string of letters in the same way. The only difference is that the letter which you use as a label must be followed by a dollar sign. This indicates that it's being used as a label for a string of letters, not for a number. Enter and run this short program:

```
1 LET A$="KISSES"
2 LET B$="HUGS AND"
3 LET C$="OX"
4 PRINT B$;A$
5 PRINT C$;C$;C$;C$;C$
9 END
```

Can you see what's happening? In line 1 the computer is instructed to give the label A\$ to the string of letters KISSES. There are similar instructions in lines 2 and 3. In lines 4 and 5 the phrases to be printed are simply referred to by their labels. Line 9 stops the computer continuing on into the program you've already entered.

One very clever thing the computer can do is to add together different strings of letters (they're called just 'strings' for short). Change your mini-program by adding these two lines (the existing lines 4 and 5 will be deleted).

```
4 LET D$=B$+A$+" "C$+C$
5 PRINT D$
```

Run this, and you will see that several different strings (including the single-character string " ") have been combined (added together) to form the string D\$.



Moving letters

This technique is about to prove very useful. What we're trying to do is to get an ever-lengthening string of random letters to move across the screen. The technique of adding letters together will allow us to produce an ever-lengthening string. How do we move it?

Well just suppose we produce an ever-increasing string of random letters, and arrange that every time a new letter is added, all the others are printed one position further to the right. This will look as if the letters are advancing across the screen. So ... delete lines 1-9 and add the following to replace the existing lines 20 and 30.

```
8 LET A$=""
20 LET A$=CHR$(N)+A$
30 CLS
   [Vic 20, CBM 64: 30 PRINT "(CLR)"]
40 PRINT A$
50 FOR I=1 TO 100
60 NEXT I
70 GOTO 20
```

Lines 50 and 60 are there simply to slow down the program a little. Line 70 sets up a loop to ensure that the program repeats itself. Thus A\$ starts as nothing in Line 8 and increases by one letter each time the program goes round the loop. Line 30 is crucial because it clears the screen just before each new, longer version of A\$ is printed. This ensures that the newest letter always appears in the screen's top left corner.

Run the program and watch the growing line of letters march across the screen. If you leave it running, an error message will eventually be printed because the string has become too long. For our game a maximum length of 20 letters will be plenty, so we should get the program to stop once the string has reached this length.

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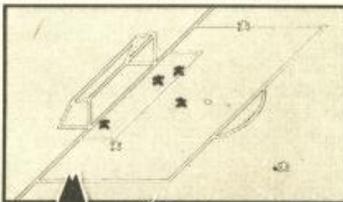
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* ZX81 Chart
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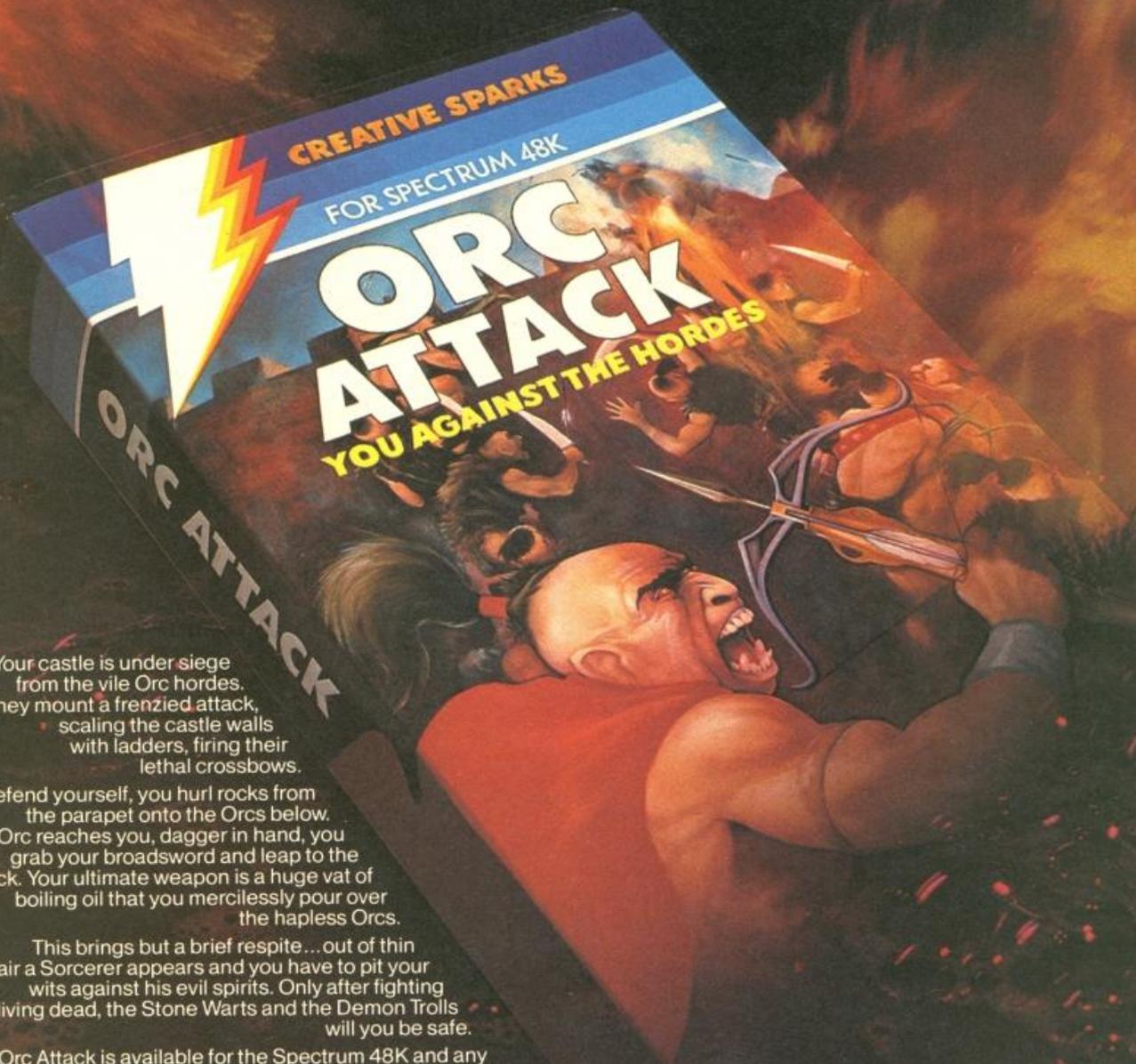
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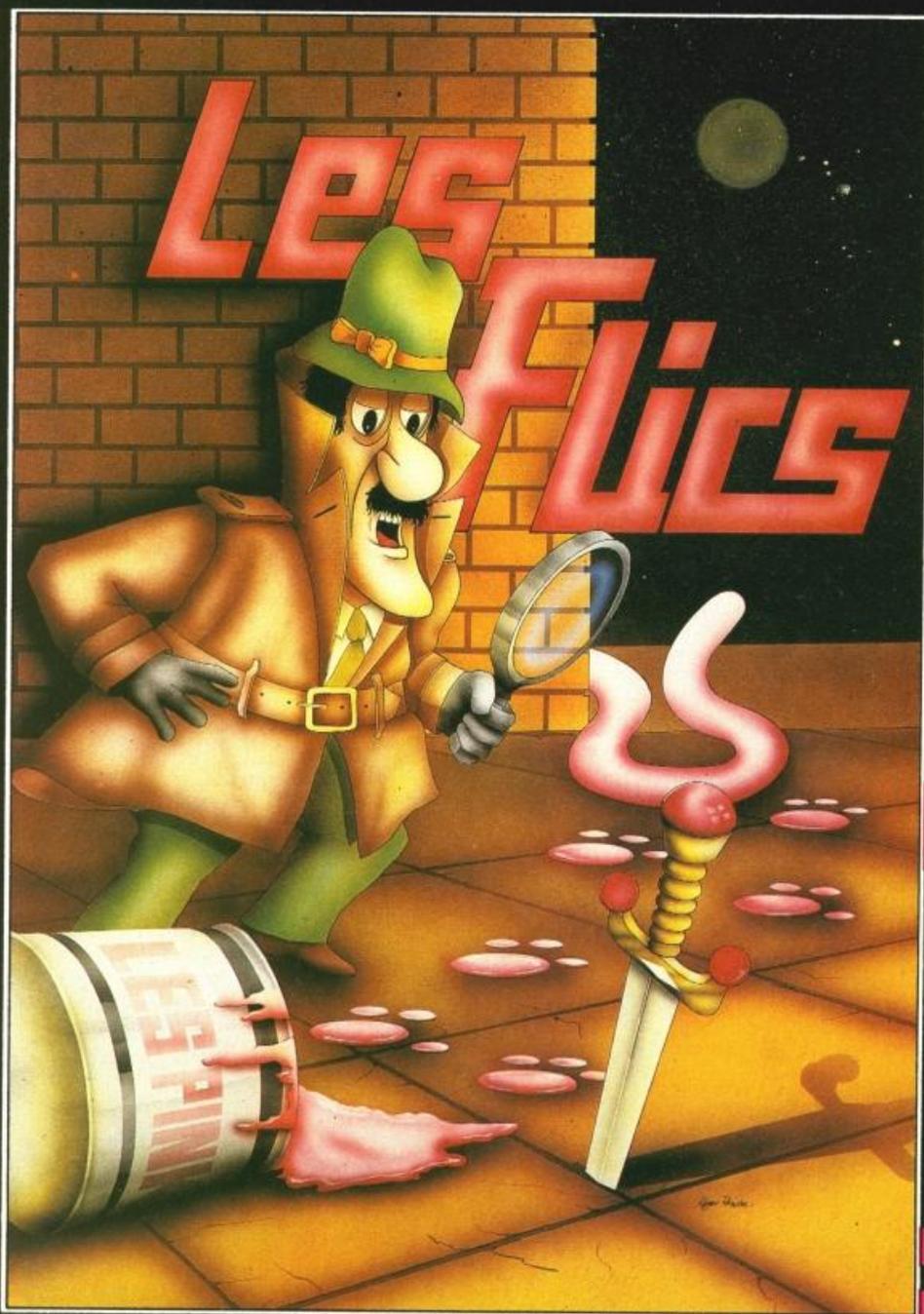
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Allo?, Ah ahm Unspecteu Cleudeau of the Sureté....

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FROM
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ah neu eggsactly weut yew are eup tew, because that ees mei jeub.

Ah neu yew are geuing tew trah en steal a gem steun in mei care beut eet weel naught be eezee mei frend, eau neu, me and mei trusty servant Kaolin weel be tryin to steup yew.

Not eanly zat, beut Les Flics, the treu gend'armerie eunder mei commant weel be out en force, so, you foel, you 'ave neo chance aggenst Cleudeau.....

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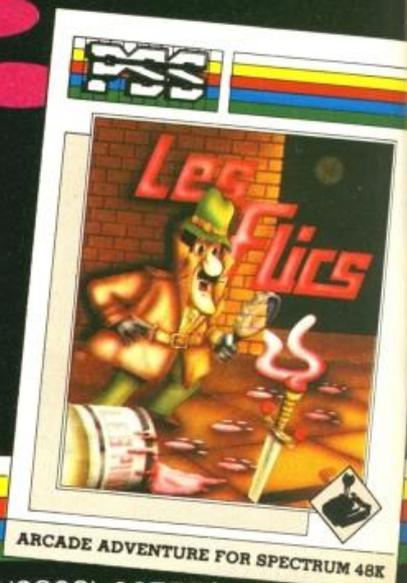
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C20 • VIC 20 • VIC 20 • VIC 20

```

5 GOTO6000
10 I1$="000000"
20 FORI=1TOS:H=INT(RND(3)*10+1):D=C1+H:HEX1
30 POKE36879,25:PRINT"CLL1":
40 PRINT"BLK]RUNNER":PRINTTAB(14)"000":PRINT
50 PRINT"CRN]REV]1]ROFF] SEB]CUE":PRINTTAB(14)D(C1)"CLL1/1":PRINT
60 PRINT"GRN]REV]2]ROFF] ALLAN]BELLS":PRINTTAB(14)D(C2)"CLL1/1":PRINT
70 PRINT"BLU]REV]3]ROFF] STEVE]WELL":PRINTTAB(14)D(C3)"CLL1/1":PRINT
80 PRINT:PRINT"BLK]SELECT]RUNNER(1,2,3)":PRINT
90 GETA$:IFA$=""THEN90
100 IFVAL(A$)<1URVAL(A$)23THEN90
110 IFA$="1"THENH$="MR]CUE"
120 IFA$="2"THENH$="MR]BELLS"
130 IFA$="3"THENH$="MR]WELL"
140 PRINT"YOU]HAVE]4*]M]:PRINT:PRINT"HOW]MUCH]DO]YOU]WANT]TO]BET]ON?":
150 INPUTB$:IFB$>MOTHENPRINT"YOU]HAVEN'T]ENOUGH":GOTO150
155 IFB$<1THENPRINT"WHAT]DO]YOU]THINK]I'D]H]CHARITY]OR]SOMETHING":GOTO150
160 POKE36879,23:PRINT"CLL1":FORI=36869,200
170 FORP=1TOD:PRINT"1":NEXTP:FORP=1TOD2:PRINT"2":NEXTP
180 FORP=1TOD2:PRINT"3":NEXTP:PRINTD(C1)"LRED]CLL1":
190 PRINTD(C2)"LGRN]CLL1":
195 FORI=1TOD:HEX1
200 PRINTD(C3)"P":POKE36878,15:POKE36877,255:FORI=1TOD5:NEXTI
210 POKE36877,0:POKE36878,5:PRINTD(C1)"
220 B1=1:B2=1:B3=1:D(1)=0:D(2)=0:D(3)=0
230 A=INT(RND(3)*3)+1
240 IFA=1THENB1=B1+1:B=B1:PRINT"RED]"
250 IFA=2THENB2=B2+1:B=B2:PRINT"GRN]"
260 IFA=3THENB3=B3+1:B=B3:PRINT"BLU]"
270 IFA=1THENB2=0:D(2)=0:D(3)+1:GOTO260
280 IFA=2THENB3=0:D(3)=0:D(1)+1:GOTO260
290 IFA=3THENB3=0:D(3)=0:D(1)+1:GOTO260
300 PRINTD(A),TAB(C(A)):HEX1:B
310 IFA=1THENPOKE36874,120:FORI=1TOD5:NEXTI:POKE36874,0
320 IFC(1)=19ANDB1=4THENM1=1:GOTO1000
330 IFC(2)=19ANDB2=4THENM1=2:GOTO1000
340 IFC(3)=19ANDB3=4THENM1=3:GOTO1000
350 GOTO250
1000 FORI=1TOD:HEX1:POKE36879,25:PRINT"CLL1":POKE36869,240
1010 IFM1=1THENPRINT"SEB]WON"
1020 IFM1=2THENPRINT"ALLAN]WON"
1030 IFM1=3THENPRINT"STEVE]WON"
1040 IFM1<VAL(A$)THENI090
1050 S=B$*D(C1):PRINT"BLK]AND]SO]DID]YOU]JUST]WON]$:M=I045
1060 POKE36878,15:FORI=1TOD5:POKE36878,240
1070 FORM=1TOD5:HEX1:POKE36879,0:FORM=1TOD5:NEXTM

```

```

1080 NEXTJ:GOTO1120
1090 PRINT"BLK]BUT]YOU]DIDN'T]WIN"]M=I090
1100 POKE36878,15:FORI=220TOD2525:STEP=1:POKE36874,I:POKE36875,I
1110 FORM=1TOS:NEXTM:NEXTJ
1120 IFM0=0THEN2000
1130 IFTI$="000500"THEN1500
1140 GOTO20
1500 PRINT"CLR]SORRY]YOU]RAN]OUT]OF]TIME]BUT]YOU]DID]WIN]$:M0
1510 FORX=1TOD
1520 POKE36878,15:T=-1
1530 T=T+1:N=PEEK(7374+T)
1540 T=T+1:D=PEEK(7374+T)
1550 POKE36876,N
1560 FORZ=1TOD(85*10):NEXTZ
1570 POKE36876,0:FORZ=1TOD20:NEXTZ
1580 IFT<41THEN1500
1590 NEXTX
1600 GOTO2500
2000 FORI=1TOD500:NEXTI
2010 PRINT"CLR]1":POKE36869,255
2020 PRINT"SCD]CLL3":PRINTTAB(5)"REV]1]2*]D]GOODBYE]WORLD!":FORI=1TOD500:NEXTI:NEXTX
T
2030 PRINT"CHOM]T":FORX=1TOD1:PRINT"CLL1]CLL1]CLL1":FORI=1TOD500:NEXTI:PRINT"CLL1"]
2040 PRINT"CLR]1"
2050 PRINT"CHOM]1]4*]D]REV]1]SO]END]ALL]RAN]GAMBLER'S]WHO]LOSE]THEIR]MONEY"
2060 POKE36878,15:T=-1
2070 T=T+1:N=PEEK(7352+T)
2080 T=T+1:D=PEEK(7352+T)
2090 POKE36874,N
2100 FORZ=1TOD(125*10):NEXTZ
2110 POKE36874,0:FORZ=0TOD20:NEXTZ
2120 IFT<21THEN2070
2130 POKE36869,240:GOTO2500
2500 PRINT"CLR]ANOTHER]GAME]Y/N)
2510 GETG$:IFG$=""THEN2510
2520 IFG$="Y"THEN5
2530 IFG$<"N"THEN2510
2540 PRINT:PRINT"THANK'S]FOR]PLAYING":FORI=1TOD500:NEXTI:PRINT"CLL1"]
2550 POKE36879,27:SYS58232
6000 CLR:DIMD$(3):DIMC(3):DIMH$(3,4)
6010 D$(0)="[HOM]1]15*]CD1":D$(1)="[HOM]1]8*]CD1"
6020 D$(2)="[HOM]1]11*]CD1":D$(3)="[HOM]1]14*]CD1"
6030 FORO=1TOD3:FORH=1TOD4
6040 READM$(G,H):NEXTH:RESTORE:NEXTG
6050 MO=100:GOTO10
6060 DATA @]CD]1]2*]CL]1]A"
6070 DATA @]CD]1]3*]CL]1]D"
6080 DATA @]CD]1]3*]CL]1]E"
6090 DATA @]CD]1]3*]CL]1]H"

```




CITY SMASHER

For the BBC

By N.E. Bell

In this game you take the role of a pilot in a crashing aeroplane. In order to land you must bomb the city beneath you, while avoiding crashing into the buildings. As well as bombs, you have a laser cannon which can be used four times in each game, and a 'down' button, just in case you should want to increase your descent. Further instructions are included in the program.

Program Structure

Lines 40-230 print title page and instructions.
Lines 280-360 define envelope and graphics.
Lines 400-530 main loop.

- PROCBUILD Draws city.
- PROCLAND Landing routine.
- PROCRASH Crash routine for when plane hits building.
- PROCBOMB Prints bomb and moves it.
- PROCHIT Routine for bomb hitting building. (Explosion, resets bombflag, increases score, etc.)
- PROCFIRE Routine for firing laser cannon.

Variables

- A Horizontal position of plane.
- B Vertical position of plane.
- SCORE Number of points scored.
- SIZE Size of buildings. (The smaller value for SIZE, the bigger the buildings.)
- MISL Number of laser blasts left. (Four at start of game.)
- LEV Level number. Each city is a new level.
- FLAG Set to one to escape from repeat-until loop.
- BOMBFLAG Set to 1 when a bomb is falling. Tells computer to call PROCOMB and stops another bomb being dropped while bomb is falling.
- X Horizontal position of bomb.
- Y Vertical position of bomb.

```

10REM CITY SMASHER
20REM (C)N.BELL 1984
30*TV255
40MODE7
50PRINTCHR#141;CHR#131;"
TY SMASHER" CI
60PRINTCHR#141;CHR#130;"
TY SMASHER" (C) N
70PRINTCHR#141;CHR#131;"
.E.Bell 1984" (C) N
80PRINTCHR#141;CHR#130;"
.E.Bell 1984"
90PRINT:PRINTCHR#129;"THE IDEA OF THE
GAME IS TO SURVIVE AS"
100PRINTCHR#129;"LONG AS POSSIBLE WITH
OUT CRASHING."
110PRINT:PRINTCHR#134;"TO DO THIS YOU
MUST BOMB THE BUILDINGS"
120PRINTCHR#134;"WHICH STAND IN YOUR W
AY, IF YOU TOTALLY"
130PRINTCHR#134;"DESTROY THE CITY, IT I
S REPLACED BY A"
140PRINTCHR#134;"BIGGER ONE! AS WELL A
S BOMBS, YOU ARE"
150PRINTCHR#134;"EQUIPPED WITH A FORMA
RD FIRING LASER."
160PRINTCHR#134;"BUT THIS CAN ONLY BE
USED FOUR TIMES"
170PRINTCHR#134;"IN EACH GAME, THERE IS
ALSO A DOWN CON-"
180PRINTCHR#134;"TROL, SHOULD YOU WISH
TO USE IT."
190PRINT:PRINTCHR#129;" USE SPACE B
AR TO DROP BOMBS"
200PRINT:PRINTCHR#129;" USE KEY 'A
' TO FIRE LASER"
210PRINTCHR#129;" USE KEY 'Z' TO M
OVE DOWN"
220PRINT:PRINTCHR#141;CHR#130;" PRES
S KEY 'S' TO START GAME"
230PRINTCHR#141;CHR#131;" PRESS KEY
'S' TO START GAME"
240*FX15,1
250IF INKEY#(0)=""S" THEN GOTO 270
260GOTO 2050
270MODE2
280ENVELOPE1,1,5,0,0,25,0,0,126,0,0,-1
26,126,126
290VDU23;B202;0;0;0;0;0
300VDU23,224,255,153,153,255,255,153,1
53,255
310VDU23,225,0,0,0,0,195,195,195,0
320VDU23,226,255,255,255,255,255,255,2
55,255
330VDU23,227,128,192,224,255,243,115,6
3,31
340VDU23,228,0,0,0,0,240,60,63,255,254
350VDU23,229,60,24,24,60,60,60,60,24
360VDU23,230,72,2,164,1,72,36,0,136
370SCORE=0:SIZE=15:MISL=4:LEV=1
380A=0:B=0:FLAG=0:BOMBFLAG=0:CLS
390PROCBUILD
400REPEAT
410COLOUR7:PRINTTAB(A,B)CHR#32;CHR#227
:CHR#228
420PRINTTAB(1,30)"SCORE=";SCORE:PRINT
AB(17,30)"L";LEV
430A=A+1
440IFA=20 THEN A=0:B=B+1
450FOR M=1 TO 40:NEXT M
460Z=INKEY#(0)
470IF Z="" AND BOMBFLAG=0 AND B<28 THEN BOM
"B=B+1
500IF BOMBFLAG=1 THEN PROCBOMB
510IF B=28 AND A=18 THEN PROCLAND
520IF POINT(1+(A+2)*64+3,1024-(B+1)*32+16
)=6 THEN PROC CRASH
530INT IL,FL=1
540IFA=18 THEN SIZE=SIZE-2:IF SIZE<1 THEN
SIZE=1
550IFA=18 THEN LEV=LEV+1:GOTO 380
560COLOURS:PRINTTAB(1,10)" SCORE=";
SCORE;TAB(0,15)" PRESS KEY 'S' FOR";TAB
(0,17)" ANOTHER GAME"
570*FX15,1
580IF INKEY#(0)=""S" THEN GOTO 270
590GOTO 580
600DEF PROC BUIL
610FOR F=2 TO 19 STEP 2

```

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 - 3 A copy of the listing - printed, typed or written neatly.
 - 4 A brief description of the game, including any instructions.
 - 5 A brief explanation of the function of each part of the program.
 - 6 A table, giving the meaning of each variable.

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(if possible)

Name of program
Machine (including memory requirements)

I declare that this is an original program which has not been previously published.

Signed

Send to: Program Library, Personal Computer Games,
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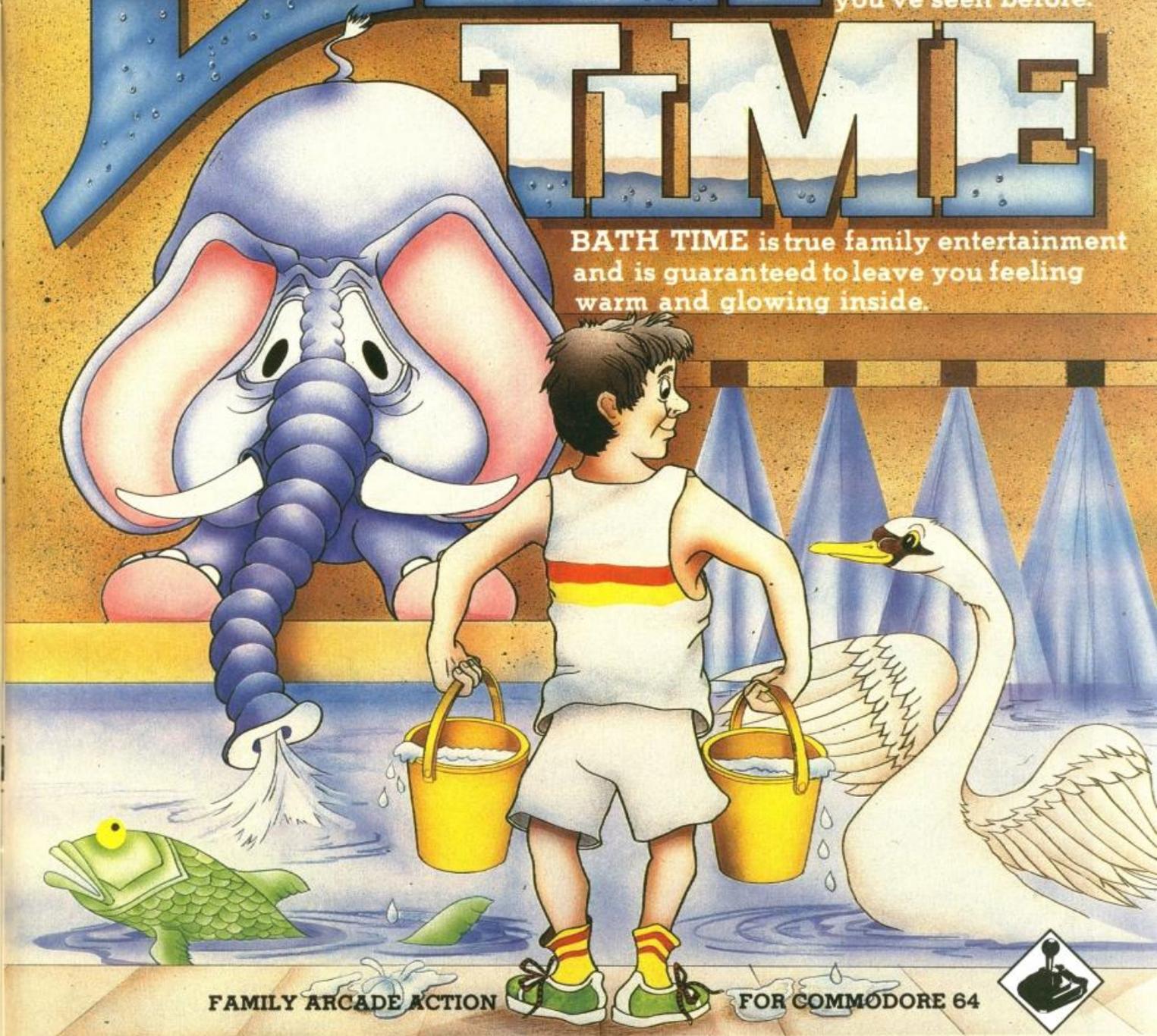
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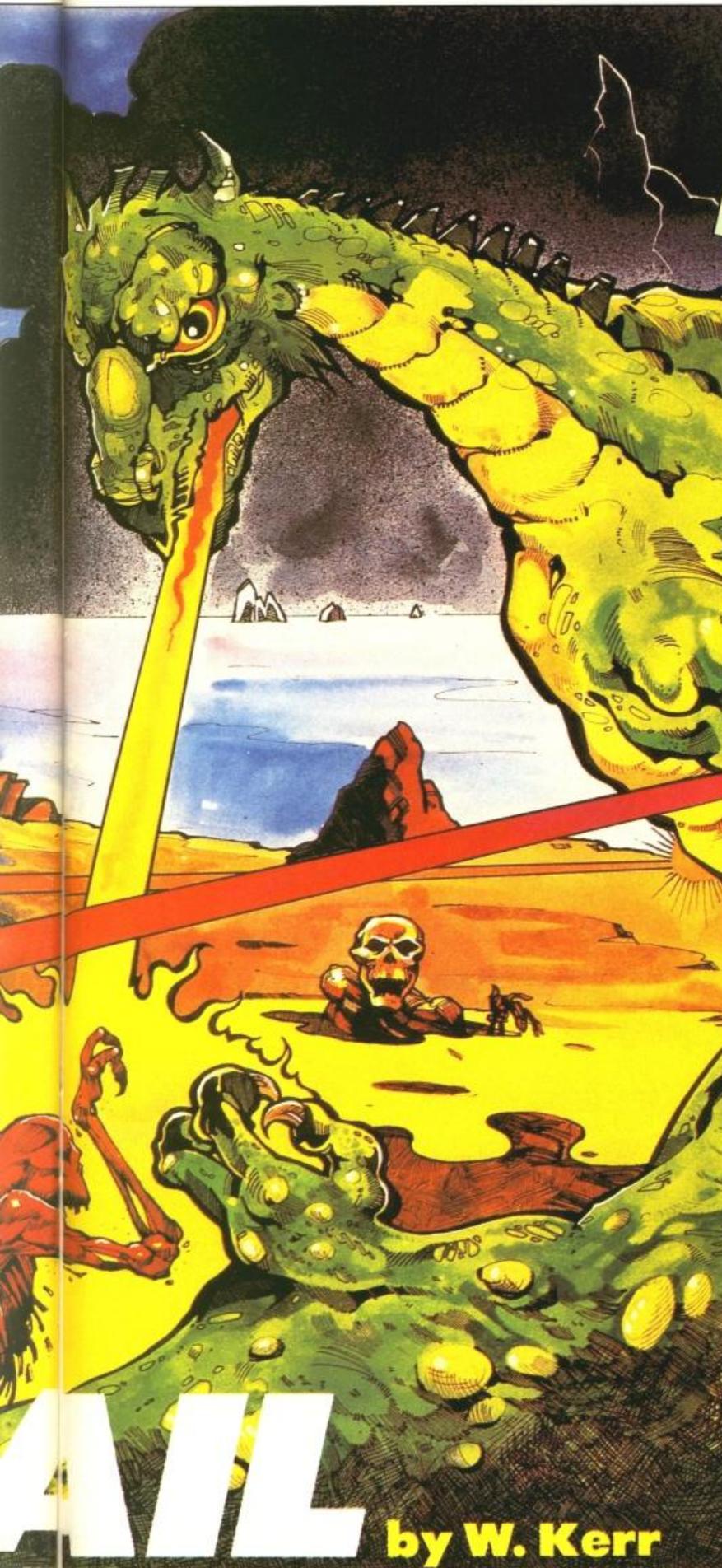
For the 16K Spectrum

HOLY GRA

Jeff Riddle



GRIM • SPECTRUM • SPECTRUM



You are cast in the role of a peace-loving dragon who does no harm to anyone. However a cowardly wizard has entranced you to carry out one particularly dangerous mission. The wizard's Holy Grail has been stolen by a rival sorcerer. You have been compelled to return it or die.
The sorcerer must be hit seven times in each screen before you can advance. There are ten screens in all. You have three lives. Also you have only 100 lightning bolts per screen. You are given an extra life after five screens.

Program Structure

- 10-75 Sets up the user-defined graphics.
- 100-130 Initialises the variables.
- 200-320 Prints the screen and puts characters in their starting places.
- 600-630 Has a key been pressed?
- 640-700 Moves other characters and prints over old position.
- 1000-1025 Prints lightning bolt across screen.
- 1026-1028 Adds one to no. of shots and checks to see if 100 have been fired.
- 1030-1060 Checks to see if anything has been hit and updates score. Only the first creature hit is counted.
- 2000-2010 Decides whether the ghost will fire.
- 2020-2038 Prints Hellfire across screen.
- 2040-2140 Checks to see if dragon has been hit and lives=0
- 3000-3010 Removes user-defined graphics from screen.
- 4000-4150 Adds bonus for completing screen resets 'd' and 'shot'. Adds extra life if 'screen'=6 and checks if ten screens have been cleared.
- 5000-6200 Makes dragon walk across screen and displays victory screen if 10 screens have been cleared.
- 8000-8450 Instructions.
- 8500-9400 End of game sequence, displays score and high score. Checks if another game is wanted.

Variables

hi	high score	y,x	position of dragon
ay1,ax1	position of ghost	sc	score
ay2,ax2	position of skeleton	l	no. of lives
ay3,ax3	position of sorcerer	d	no. of sorcerers
dy	moves sorcerer a random distance (1 to 3)	screen	no. of screens
		shot	no. of shots fired

```

1 CLS
2 PAPER 0: INK 7: BORDER 0: C
3 PRINT AT 4,11: INK 6: INVER
SE 1: "HOLY GRAIL": AT 7,4: BY W
Kerr: "February 1984": AT 14,3: "Do
you want instructions?": AT 17,1
1: " (y) or (n) "
4 IF INKEY#="n" THEN GO TO 7
5 GO TO 4
6 IF INKEY#="y" THEN GO TO 4
7 SUS 8000
8 CLS
9 REM hi=0
10 FOR u.d.g.'s data
11 READ a: POKE n,a: TO USR "k"+7:
12 DATA 60,52,62,60,8,28,31,60
13 DATA 60,124,124,252,24,24,3
14 DATA 4,12,56,124,84,124,56
15 DATA 28,42,62,28,8,62,73,93
16 DATA 73,28,8,28,34,34,96
17 DATA 56,124,254,130,170,146
18 DATA 0,62,62,62,28,8,8,28
19 DATA 0,0,170,85,0,0,6
20 DATA 0,0,96,246,240,246,96
21 DATA 60,124,124,252,120,204
22 REM initialisation
23 LET ay3=1
24 LET ay1=1: LET ay2=20:
25 LET ax3=30
26 LET ax1=16: LET ax2=22: LET
27 y=11: LET x=1
28 LET sc=0: LET li=3: LET d=7
29 FOR s=1-UP screen=0
30 NEXT f: AT TO 16: PRINT INK 3;
31 AT 0,9: "": AT 21,9:

```

GRAIL

by W. Kerr

ANIROG

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```

2000 NEXT g
2040 FOR h=23 TO 29: PRINT INK 5
2050 PRINT h; "AT 21,h";
2060 NEXT h
2070 PRINT "AT 0,31; INK 3;"; AT
2080 FOR f=1 TO 10: PRINT INK 3;
2090 NEXT f; AT f,0;
2110 PRINT AT 11; INK 3; "H";
2120 FOR g=1 TO 20: PRINT INK 3
2130 NEXT g; AT 9,0;
2140 PRINT "AT y,x; INK 4;"; AT
2150 PRINT AT ay1,ax1; "A"; AT
2160 INK 1; "D"; AT ay2,ax2;
2170 PRINT AT ay3,ax3;
2180 REM main loop
2190 IF INKEY$="a" AND y>1 THEN
2200 y=y-1; PRINT AT y,x; INK 4;
2210 INKEY$="b" AND y<10 THEN
2220 y=y+1; PRINT AT y,x; INK 4;
2230 IF INKEY$="c" AND x<10 THEN
2240 x=x+1; PRINT AT y,x; INK 4;
2250 IF INKEY$="d" THEN GO SUB 2
2260 LET ay1=ay1+1; PRINT AT ay1
2270 IF ay1=19 THEN LET ay1=
2280 GO TO 2000; PRINT AT ay2
2290 THEN LET ay2=ay2+1; IF ay2=
2300 PRINT AT ay3,ax3; "G";
2310 LET ay3=INT (RND*3)+1
2320 LET ax3=ay3+ay; IF ay3=21
2330 THEN LET ax3=1; IF ay3=1 THEN PR
2340 PRINT INK 4; AT ay3,ax3; "G";
2350 REM fire routine
2360 FOR f=4 TO 30 STEP 2
2370 PRINT AT y,30; BEEP .002,f
2380 IF f=30 THEN PRINT AT y,30;
2390 BEEP .005,f+1.5

```

```

5100 FOR g=1 TO 30
5200 PRINT AT 11,g; INK 4; "A"; AT
5300 PRINT AT 12,g; INK 4; "K"; FOR
5400 NEXT g; PRINT AT 11,g
5500 PAPER 2; INK 7; BORDER 2; C
5600 FOR f=7 TO 11
5700 PRINT INK 6; AT f,12;
5800 NEXT f
5900 PRINT INK 6; AT 12,13;
6000 FOR f=14 TO 16
6100 PRINT INK 6; AT f,15;
6200 NEXT f
6300 PRINT INK 6; AT 17,13;
6400 PLOT 96,112; DRAW OVER 1; 64
6500 DRAW OVER 1; 0; 8; DRAW OVER 1
6600 PRINT INK 6; AT f,15;
6700 FOR f=1 TO 4
6800 DRAW OVER 1; 8; DRAW OVER
6900 NEXT f
7000 PRINT AT 2,8; "CONGRATULATIO
7100 FOR f=1 TO 20; BEEP .05,f
7200 PRINT AT 4,1; "YOU HAVE DEFE
7300 PRINT AT 19,6; "GAINED THE H
7400 GRAIL"; AT 21,6; "AND WON YOUR
7500 FREEDOM.";
7600 PAUSE 700
7700 GO TO 5000
7800 REM instructions
7900 CLS; PRINT
8000 you are a content-ed and not ver
8100 fierce dragon. Alas you have
8200 been entranced by a cowardly wiz
8300 ard. You are sent to recover the
8400 magical Holy Grail which ha
8500 been stolen by a grail sorcerer
8600 PRINT "The wizard has wo
8700 rked some spells to enhance
8800 your natural powers. You can thr
8900 ow lightning bolts. You have als
9000 been given a certain degree o
9100 f invuner-ability which will
9200 protect you from two blasts of
9300 hellfire, which is fired by

```

```

1000 NEXT f
1010 INT shot=shot+1
1020 IF shot=100 THEN GO TO 8500
1030 INT at ay1 OR x=ay1+1 THEN PR
1040 LET sc=sc+10; LET ay1=1; RE
1050 IF y=ay2 OR y=ay2-1 THEN PR
1060 AT ay2,ax2; AT ay2-1,ax2;
1070 LET sc=sc+25; LET ay2=20; A
1080 IF y=ay3 THEN PRINT AT ay3;
1090 LET ay3=1; sc=sc+75; LET d=d-1
1100 RETURN IF d=0 THEN GO TO 4
1110 REM ghost fire routine
1120 LET b=RND
1130 IF b<.90-screen/50 THEN RET
1140 FOR f=13 TO 1 STEP -2
1150 PRINT AT ay1,f; INK 2; "U"; A
1160 IF f=1 THEN BEEP .005,f
1170 NEXT f; PRINT AT ay1,1;
1180 IF ay1=y OR ay1=y+1 THEN GO
1190 TO 1100
1200 PRINT AT y,x; AT y+1,x;
1210 LET li=li-1; BEEP 2,-30
1220 TO 9000
1230 LET y=11; PRINT AT y,x; INK
1240 "A"; AT y+1,x; "B"
1250 REM remove u.d.g's
1260 PRINT AT ay1,ax1; AT ay1
1270 AT ay2,ax2; AT ay2
1280 AT ay3,ax3; AT y,x
1290 RETURN
1300 REM bonus
1310 LET screen=screen+1; LET sc
1320 LET d=7; LET shot=0
1330 GO SUB 3000
1340 LET ay1=11; LET ay2=20; LET
1350 PRINT FLASH 1; INK 5; AT 11,
1360 "BONUS! BONUS! BONUS!"
1370 IF screen=6 THEN LET li=(li+
1380 PLUS EXTRA LIFE!"; AT 14,8;
1390 FOR f=1 TO 10; BEEP .05,f;
1400 BEEP .05,f+2; BEEP .05,f+4; NEXT
1410 IF screen=10 THEN GO TO 500
1420 CLS
1430 GO TO 200
1440 REM victory routine
1450 GO SUB 3000
1460 PRINT AT 11,7;

```

```

8150 PRINT AT 19,3; "PRESS ANY KE
8200 TO CONTINUE"; PAUSE 0
8300 CLS; PRINT "To defeat the
8400 sorcerer, and gain the Grail, you
8500 must hit him seven times in each
8600 screen but beware if your lightning
8700 bolts hit one of his undead creatur
8800 s first, it will have no effect
8900 on him."
9000 magic PRINT "Due to losing his
9100 give you a limited number of
9200 lightning bolts (100) per sc
9300 ren. If you use up all
9400 of these your game is over."
9500 PRINT AT 10,3; "PRESS ANY KE
9600 TO CONTINUE"; PAUSE 0; CLS
9700 PRINT AT 0,4; "Use the follo
9800 down"
9900 PRINT AT 2,6; "0 - up A
1000 PRINT AT 4,11; "0 - fire"
1010 PRINT AT 6,0; "You score 10
1020 pts for hitting a ghost, 25pts fo
1030 r hitting a skeleton, 75pts fo
1040 r hitting the sorcerer."
1050 PRINT AT 12,0; "There is a
1060 bonus of 200pts for clearing a
1070 screen and an extra life after
1080 clearing five screens."
1090 PRINT AT 19,2; "PRESS ANY KE
1100 TO START GAME"; PAUSE 0
1110 RETURN
1120 REM end of game
1130 CLS; PRINT AT 11,0; "You h
1140 ave run out of lightning bolts
1150 FOR f=1 TO 200: NEXT f
1160 CLS; PRINT AT 5,7; "Your sc
1170 ore was";
1180 PRINT AT 10,8; "High score =
1190 ";
1200 PRINT AT 16,0; "Do you want
1210 another game (y/n)?"
1220 IF INKEY$="y" THEN PAPER 0;
1230 INK 7; BORDER 0; CLS; GO TO 10
1240 IF INKEY$="n" THEN GO TO 5
1250 STOP
1260 REM "holy grail" LINE 1
1270 B - B C - C D - D
1280 E - E F - F G - G H - H
1290 I - I J - J K - K

```

BATTLE OF T

Lunar Jetman was the game chosen by the Chamber Master for this month's contest of skill, bravery and endurance. Many entries had been received, but two were outstanding: Richard Boud from Colchester with a highest score of 143,530 and Paul Reed from Hull who first sent an entry for 139,107 and then added another with a colossal score of 202,720. The Chamber Master just had to see these guys in action.

So they duly arrived in London, two tall and lean games-players, hungry for fame. Over a succulent lunch in one of the capital's top hamburger joints (courtesy of the Chamber Master) these gladiators of the micro revealed the secret of high scores - practice, and plenty of it.

They have plenty of time as they are both, at the moment, unemployed. Richard, who is 18, is taking a year off before going to university in, strangely enough, Hull. Paul, 21, is an ex sheet-metal worker and has been out of work for some time.

Richard has had his Spectrum for about a year. He uses it mainly for games, although he has learned Basic and is even writing an adventure. Apart from Lunar Jetman his current obsession is A & F's Chuckie Egg on which he claims a score of 320,000.

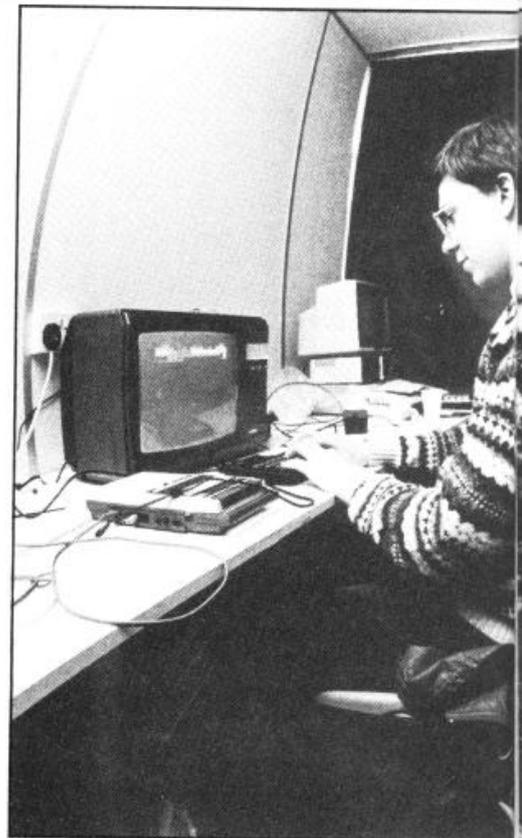
He likes all the Ultimate games and is also very impressed with Melbourne House's Hobbit even though, as he says, 'it infuriates me'. Still, he can take some comfort from having solved 95% of Atic Atac.

Paul hasn't even got a computer. As he puts it: 'I bought my girlfriend a Spectrum for Christmas, but she doesn't use it'. So of course, he does. He's certainly been putting in a lot of time on it. 'Sometimes I play all day', he says. You have to believe him when he tells you that he's solved 99% of Atic Atac and clocked up huge scores on Manic Miner. Another game that's intriguing him is Digital Integration's Fighter Pilot, although he complains of 'having problems landing'.

He's even less interested in programming than Richard, believing that home computers are good for games and not much else. But he wouldn't mind getting a QL 'when they come out properly'.

And so to the contest, where the Chamber Master saw two very different techniques on display. Richard is a no-nonsense keys man; no fancy peripherals for him. Paul, it seems, goes nowhere without his trusty joystick. Not only his joystick, but also an enormous metal hi-fi speaker stand on the top of which he strapped his Quickshot 2. This he positioned by his right leg, leaving his left hand free to use the keyboard.

Immediately a fundamental difference in approach was apparent. In Lunar Jetman you have an astronaut with a jet-pack, a lunar rover, and two teleporters to transport you from one side of the planet to the other. The object of the game is to destroy the enemy missile base and to fight off the myriad alien attackers. At regular intervals a missile is launched from the base and must be destroyed in mid-air or it's curtains for you.



It was in the destruction of this missile that the divergence in styles was most easily seen. Richard took the brave, or foolhardy, course of leaving the protection of his rover, dodging the aliens and waiting for the missile to arrive. It was spectacular to watch, but dangerous to play as he frantically manoeuvred out of the aliens' paths.

Paul, on the other hand, used the safer technique of teleporting across the planet until the missile was in range. In this way there was less danger of his own destruction.

So Richard was scoring more quickly,

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OK - I'll dare the Challenge Chamber

(This portion to be filled in by witness)

Name
 Address
 Telephone no. (if possible)
 Game Machine
 My record score is: scored on (date)
 in a game lasting mins secs.
 Signed

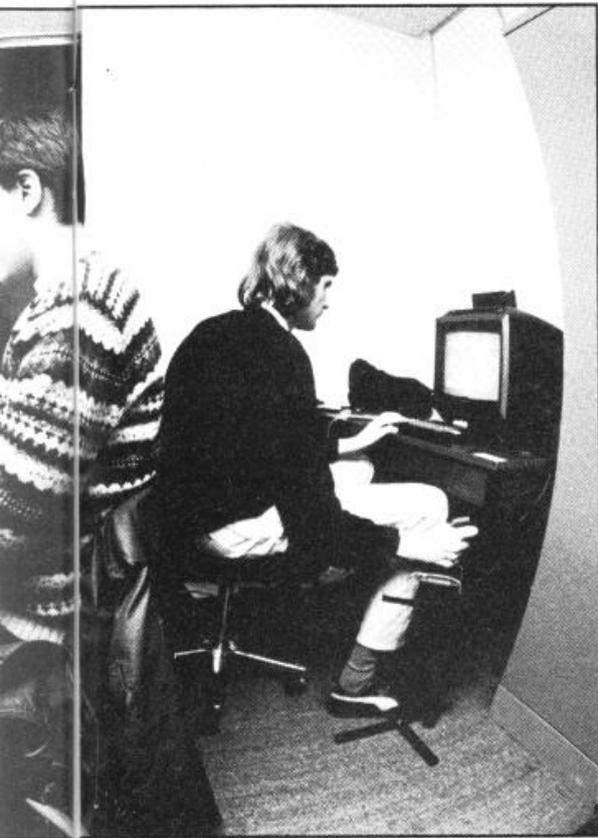
Name
 Address
 Telephone no. (if possible)
 Occupation
 I confirm that the above claimed score is genuine.
 Signed

Post this form to Challenge Chamber, Personal Computer Games, Evelyn House, 62 Oxford Street, London W1A 2HG.



ility when the jetmen duel on the moon

THE BUGGIES



but living more dangerously. After five minutes he had 28,000 points but had already lost a life. Paul had only 20,000 points – but had not lost a life.

Ten minutes later there was the horrible sight of Richard's jetman running out of juice and desperately staggering back to his rover to refuel. He didn't make it, and Richard lost another life, his third. But he was still ahead on points; 110,000 to Paul's 79,000.

Then, only a few minutes later, Richard's penultimate jetman snuffed it. It seemed to knock the stuffing out of him because soon after, on 123,390 points, he died the ultimate death.

This left Paul with a clear run. Yet he too now had the last man in – but only 95,000 clocked up. The lack of competition must have upset him, for only a thousand points later he too had be-

come extinct. Round one to Richard.

They both wanted a re-match, so who was the Chamber Master to argue? This time round, though, the tables were turned. Paul's patient technique paid off, while Richard couldn't really get going – he died on 105,000. Paul just kept going, right up to the magnificent total of 173,930.

But still neither player was satisfied with his score; They were both some way below their best. However this is only to be expected. The tension of the Challenge Chamber is so great that you cannot guarantee to match your best scores.

Both of these players, though, should be proud of their achievement. What the Chamber Master wants to know now is, when are we going to get a Wally of the Month?

Richard Boud (left) pits two-handed keyboard prowess against Paul Reed's customized Quickshot

Ordeal over, Richard and Paul emerge vindicated from the Master's domain

Meet the megazappers!

REVENGE OF THE MUTANT CAMELS COMMODORE 64

- ★ 1,680,000 Tom Burton, Sweffling, Suffolk
- ★ 1,420,285 Steven Finlay, Kircaldy, Scotland
- ★ 1,111,630 Robert Ireland, Prestatyn, Wales

HUNCHBACK SPECTRUM

- ★ 3,467,000 Mark Johnston, Arbroath, Scotland
- ★ 3,230,600 David Ritchie, Glasgow
- ★ 2,234,200 Martin Abbott, Dover

GRIDRUNNER VIC 20

- ★ 309,820 Graham Fox, Manchester
- ★ 240,990 Peter Stanford, Manchester
- ★ 170,740 Simon MacCutchan, Southbourne, Dorset

MANIC MINER SPECTRUM

- ★ 11,310,613 Russell Owens, Malvern, Worcestershire
- ★ 7,500,214 Daryl Unwin, Camberley, Surrey

CHUCKIE EGG SPECTRUM

- ★ 402,000 Alan Taylor, Aberdeen
- ★ 364,460 Calum McMillan, Glasgow
- ★ 291,880 Andrew Cousins, Hull

PYRAMID SPECTRUM

- ★ 127,839 Robert Scarfe, Ipswich
- ★ 123,540 Gary Walker, London

JET PAC VIC 20

- ★ 89,875 Andrew Anderson, Bath
- ★ 67,200 Andrew Robertson, Hull
- ★ 61,570 Andrew Wilson, Irvine, Scotland



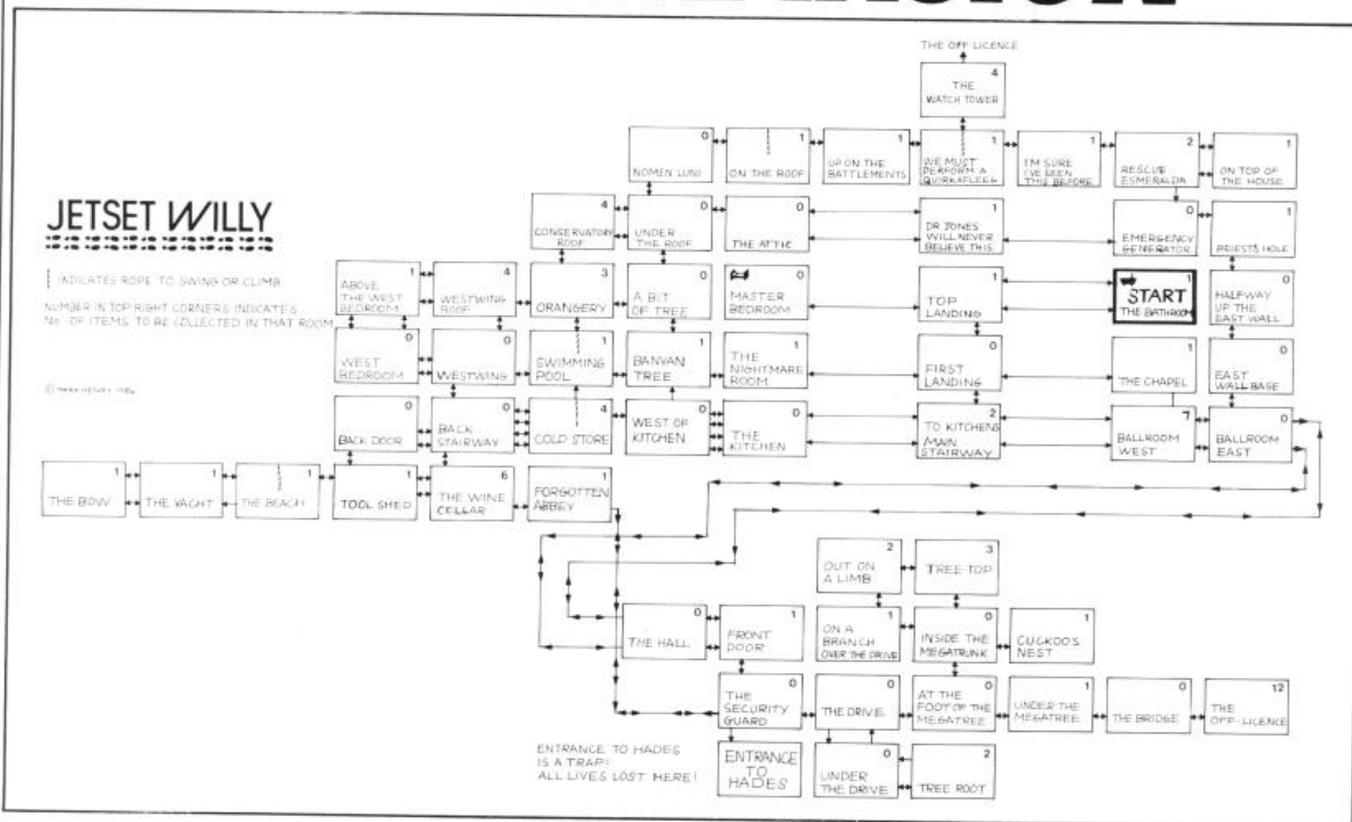
Photography by Martin Shallcross



Challenge Chamber

The Chamber Master considers the latest claims and presents Mark Henry's guide to the manic mansion

MAP OF THE MANSION



The flood of Challenge Chamber entries continues unabated. Every day a squad of postmen approach the Chamber Master's door, groaning under the weight of their bulging sacks. The Master's loyal servants patiently work through the forms, humbly bringing his attention to any noteworthy entries.

For instance, the first foreign entrant. One Matthys Wjers of Zandvoortweg in Holland owns a Vic-20 and has scored 174,421 on Romik's *Martian Raider*. The Chamber Master was heartened to receive an entry from our partners in the Common Market. Unfortunately, Matthys was the only entry for this particular game and the Master suspects it would not be a good idea to have him come all this way to play off against himself. But if you try another game, Matthys you could get that thrilling summons to enter the Challenge Chamber.

From slightly nearer home came this wonderful map of the mansion in *Jet Set Willy*. It was supplied by Mark Henry from Dublin. However, despite being able to find his way right round the house, Mark is still a long way from collecting all the game objects. If you missed our last issue, you should be warned that entering the attic will cause the program to do funny things at other locations.

Chuckie Egg continues to attract

many entries on both Dragon and Spectrum although the one from Paul Rivers of Oxford just goes to show that a high score is no guarantee of eternal bliss. Paul completed 'all 256 levels on *Chuckie Egg* and achieved a score of 5,100,360'. But is he happy? Not on your nelly. Because, he complains, 'it doesn't do anything, not even a congratulation ... It just goes back to the first screen and it isn't even any harder, and I wasn't going to spend another six hours doing it again'.

The Chamber Master sympathises, although he can't help feeling that a high score, like virtue, is its own reward. But perhaps software houses could do a little more for those players who complete a game.

That old favourite *Manic Miner* continues to keep the nation stuck to its micros, and the Master has been sent some truly awesome scores. The statistics speak for themselves. Russell Owens of Malvern: 11,310,613 in a game lasting 60 hours. When the Cham-

ber Master spoke to Russell on the telephone he frankly admitted that this was not one continuous session, but was played over four nights using the pause facility. He says the only difficult screen is the solar power generator and advises us to keep the music switched off. The Master awaits his next entry with great anticipation. Daryl Unwin of Camberley in Surrey had a score that was almost as staggering; 7,500,214 in a game lasting 4213 minutes, which the Chamber Master's brain reckons is a little under 7 hours. He's not giving much away in advice, saying cryptically 'Practice'. Thanks a lot Daryl.

PCG's April Game-of-the-Month, *Forbidden Forest*, has already drawn an impressive entry. Carl Lyons of Huddersfield has a score 243,257 but, more impressively, has polished off three Demogorgons and only died on the fourth level.

So keep the entries coming. The Post Office will do their best and so will the Chamber Master's trusty minions. Nationwide fame, or derision as Wally of the Month awaits those with the guts to enter the Challenge Chamber. And if you don't have room on the entry form for tips, then write a letter.

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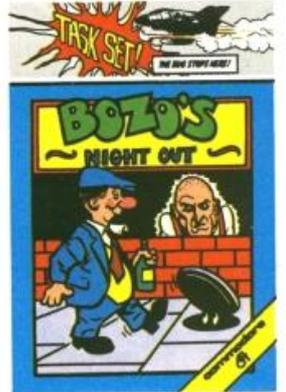
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A brand new character game. Poor old Bozo, all he has to do is to get home after a night out with the lads. That's easy until a wobble becomes a lurch and a stagger. Later into the night, all rules go out of the window as he disbelieves what's happening in front of his blood-shot eyes. An epic journey with ultra-smooth graphics and sprites which run rings round normal games.

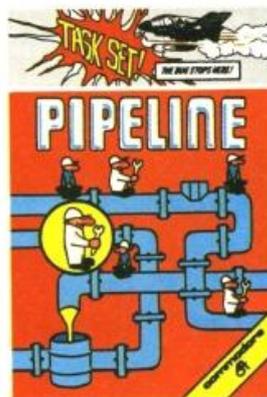


SUPER PIPELINE

Keep the pipeline open. Foreman Fred and Plumber Pete have their work cut out. The evil ladderman drops metal wedges to plug the pipeline - and only Pete can fix 'em. Pete trusts Fred to defend him against the six-legged Venusian pipe spiders and the hard case lobster while he knocks out the plugs and restores the flow. Full accompanying music and effects, options and hi-score table.

JAMMIN'

Unlike anything else, a totally musical game yet highly colourful. Guide Rankin' Rodney through the top 20 mazes - each with an interactive rock sound track. Gather the instruments and make a band but watch out for bum-notes, dischord and that most deadly effect - distortion. If you've never heard the full music capabilities of the 64, grab an instrument and join the band.



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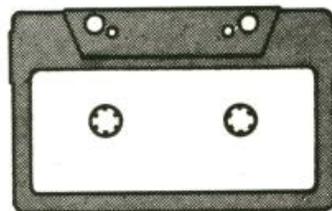
Naturally, everything we've written for the 64 is available on either cassette or disk.

Selected titles available from: W H Smith, Boots, Menzies and all good computer stores.

Major distributors include Microdealer UK, Websters, Centresoft and P.C.S.

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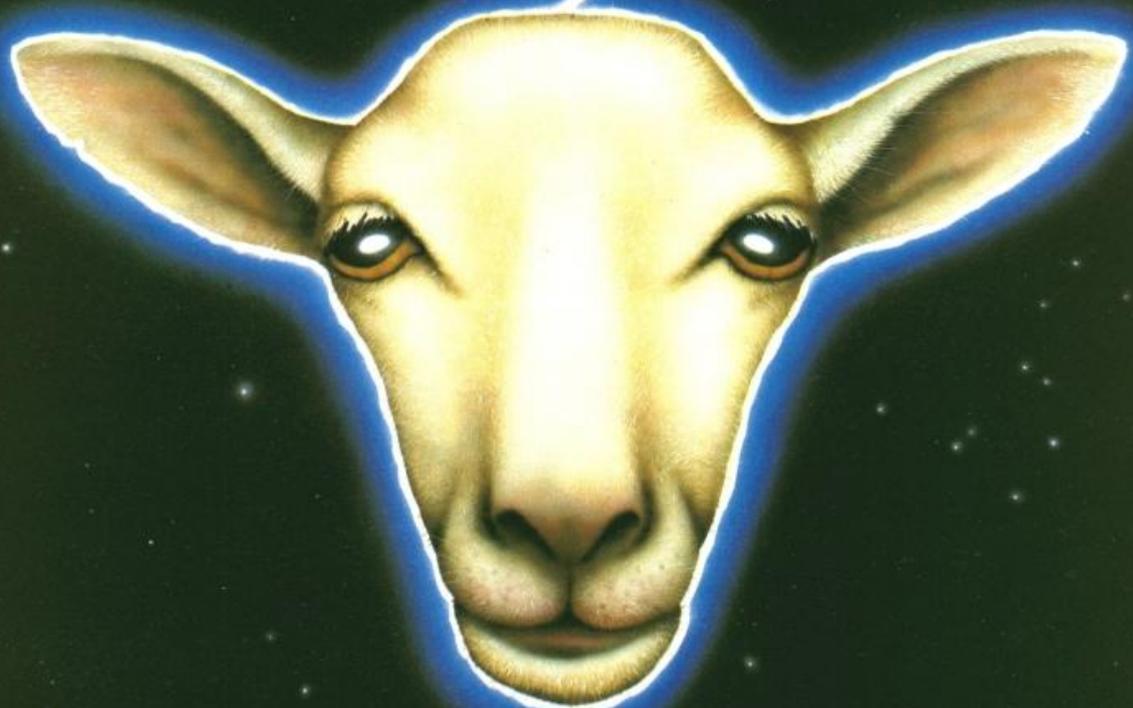


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SL

What price graphics? Don't kid yourself. One way or another you'll have to pay for them. First, graphics can take up a lot of memory. Fans of text-only games argue that the space is better used for a larger vocabulary or better location descriptions. What's more, they point out, the pictures take a long time to draw and conflict with the image in the player's imagination.

Do the text-only supporters have a point? Or should they stick to reading books and playing Scrabble?

Recent adventures, it seems, have overcome most of their objections. As far as memory is concerned, you might like to know that Bug-Byte's very successful *Twin Kingdom Valley* has over 175 locations, each with its own picture, but, incredibly, the graphics take up only 8K.

'It's a very crafty coding system,' says Trevor Hall, programmer of *TKV*, obviously unwilling to give away any secrets. What's more, the graphics draw in under 10 seconds and some even boast the occasional animated sprite.

Other software companies, however, seem to be going in quite a different direction. Interceptor Software recently brought out *Heroes of Karn* for the Commodore 64, a game with only 65 locations that takes up all the available memory, a large part of which is dedicated to graphics.

One look at them will tell you why. The detail of the display is fabulous and some of the locations have excellent music as well. The graphics are very slow to draw, but – although the Text-Only Supporters Club will no doubt disagree – I think they're worth waiting for and add substantially to the atmosphere of the game.

Heroes of Karn was reviewed in the March issue of *PCG*, so all I'll say here is that it's a great adventure and well worth adding to your collection.

Meanwhile most of the more recent adventures on the market are offering graphics, while some of the older, text-only games are being re-released with graphics added.

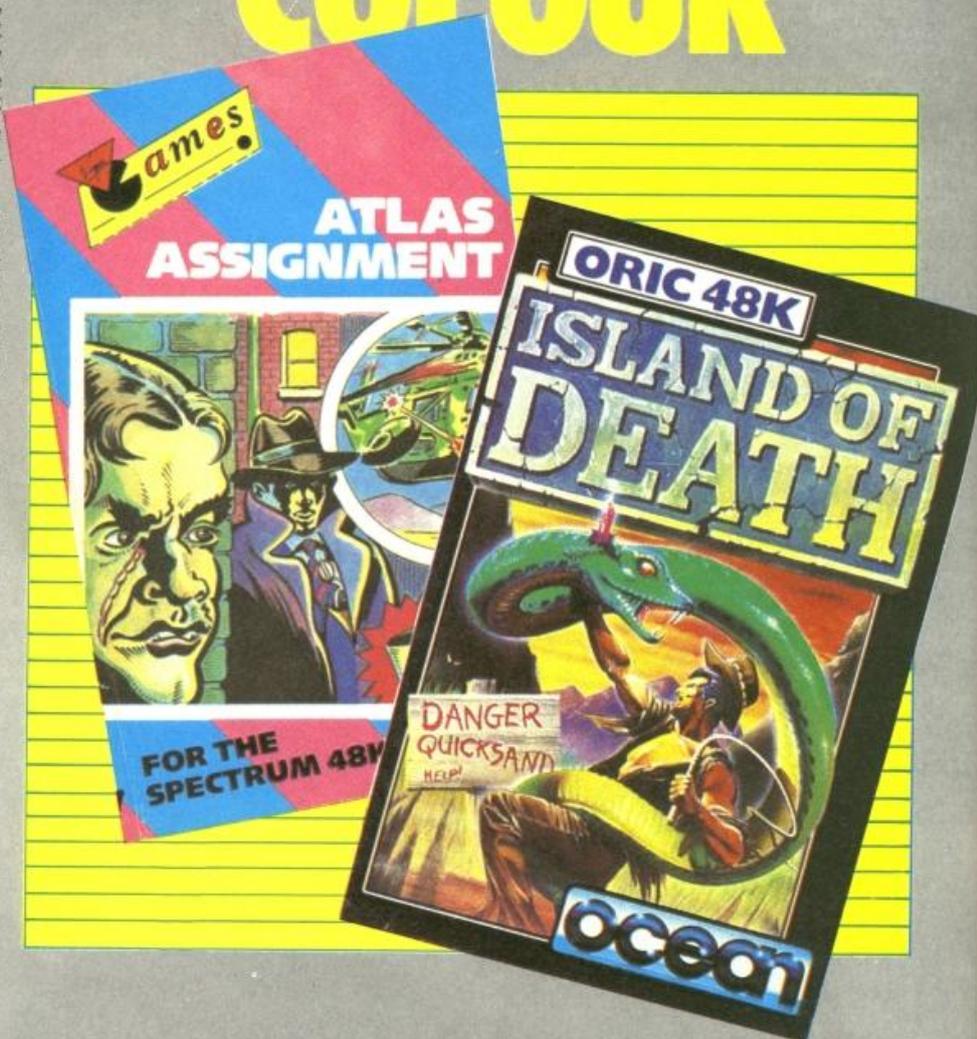
Into this last category falls Adventure International, distributor of the Scott Adams adventures. These games have been around for quite a while now, but they've come a long way since Scott first hammered them out on his 16K Tandy.

Four of the titles, already available in text-only form on the BBC, are about to be released with graphics for the Spectrum and Commodore 64. If you haven't tried the Scott Adams series then they're well worth sampling. *Pirate Adventure* is one of the simplest, but try *Adventureland* if you enjoy a challenge.

Scott's commitment to graphic adventures is most clearly shown by his latest offerings, based on heroes from the Marvel Comics. *The Incredible Hulk* has just come out for the Atari, Spectrum, BBC and Commodore 64.

Catching a quick glimpse of some pre-release versions a few weeks ago, I can assure you that the graphics are excellently done, and the games have some amusing and original touches. Design was carried out in collaboration with Marvel artists so authenticity is guaranteed. I'll be looking at these

ADVENTURES IN COLOUR



games in more detail in the next issue.

BBC owners have been known to turn a little green at the sight of graphic adventures. That's because they're usually running on someone else's machine. Sadly the BBC doesn't quite have the space inside for all those pretty pictures, as anyone who's tried playing *The Hobbit* on the Acorn machine will know to their cost.

Good news, then, for BBC owners. Micrograf have just released two games for the Beeb that make unusual use of

graphics. *Flint's Gold* and *Vampire Castle* are predominantly text-only, but each program has occasional graphic interludes. It's a bit like reading a book with an illustration in each chapter. Because of excellent use of sound effects, varied responses, and a great sense of humour, Micrograf's games score very high on atmosphere.

As you walk along the sea-front in *Flint's Gold* you hear the waves breaking on the shore and even the sound of gulls calling out overhead. *Vampire*



with the White Wizard

Castle brings you face to face with Count Dracula, Igor, and a number of tricky puzzles.

Neither of these games is a full-blown graphic adventure by any means, but the occasional 'illustration' and the sound effects add a lot of fun.

Beeb owners who insist on graphics at all cost might be tempted by *The Stolen Lamp* from Lothlorien. The display is colourful and draws very fast, but the game itself is repetitive and lacking in challenge. If you fancy flying round deserts and blowing up pickpockets in a search for Aladdin's Lamp then you might be able to put up with the extremely limited vocabulary and sparse locations. My own inclination would be to avoid it except in cases of dire software starvation.

Adventure in a very different style for Beeb owners is offered by *Pettigrew's*

and give us all the low-down on what happens then please do.

If you fancy arcade/adventure combinations and you have a Commodore 64 then you should try *Sorcerer's Apprentice* from Phoenix Software. Here you must first battle it out against mad mops and brushes in order to discover a password that will enable you to play the adventure that follows.

The adventure, however, is text-only. You wander about the Wizard's Castle experimenting with spells and, if you're not careful, find yourself turned into a toad or poisoned by biscuits. Once you get tired of this, *Sorcerer's Apprentice* doesn't have a lot more to offer. The only really good thing about the game is the error-checking, which is just as well as the vocabulary is very small.

Graphics adventures for the Oric are few and far between. To make up for

this, some of them seem to make extravagant claims for themselves which they then fail to live up to.

Island of Death from Ocean has you wandering round a desert island using single letter commands. Each time you encounter an obstacle the program launches into a graphic interlude that takes the form of a simple arcade-type challenge.

The graphics are very basic and none of the challenges really tests the player. Despite some humorous moments this game is definitely not the 'ultimate Arcade/Adventure' it claims to be.

Hell's Temple from Kenema is a straightforward 3D maze game with D & D elements. You can listen outside doors, battle with monsters, and collect treasure. Like *Island of Death* it uses single-letter inputs and claims to be 'one of the most advanced Adventure programs for the Oric 1'. It isn't.

Don't be discouraged, Oric owners. As soon as the confusion caused by the Oric/Atmos transition has died down I'll be looking at adventures for your machines in more detail.

Finally, a quick look at a couple of new releases for the Spectrum. Hewson Consultants' *Fantasia Diamond* is a graphic adventure with many similarities to *The Hobbit*, though it isn't so complex.

The display will be familiar to *Hobbit* fans, with the picture in the top half of the screen and input/responses in the bottom half. The graphics aren't quite as good as the Melbourne House program and they're rather slow on the draw. ▶

Adventure ratings

GAME	MACHINE	PRICE	COMPLEXITY	ATMOSPHERE	INTEREST	VALUE
HELL'S TEMPLE	ORIC 48K	£12.00	3	3	2	3
ISLAND OF DEATH	ORIC 48K	£6.90	2	4	1	2
HEROES OF KARN	COMMODORE 64	£7.00	7	8	6	7
STOLEN LAMP	BBC	£6.95	4	4	3	3
SORCERER'S APPRENTICE	COMMODORE 64	£9.99	4	5	4	4
TWIN KINGDOM VALLEY	COMMODORE 64 ELECTRON BBC	£9.50	8	8	6	7
FLINT'S GOLD	BBC	£6.95 CASS £9.95 DISK	6	8	4	7
VAMPIRE CASTLE	BBC	£6.95 CASS £6.95 DISK	6	8	4	7
ATLAS ASSIGNMENT	SPECTRUM 48K	£5.95	7	7	5	6
FANTASIA DIAMOND	SPECTRUM 48K	£7.95	6	6	7	6

Diary from Shards Software. This is billed as a three-part adventure, and the first 'chapter' certainly isn't short on graphics. Unfortunately it's very short on text, and there are only two locations. Yes, you guessed, it's really an arcade game.

The idea behind *Pettigrew's Diary* is to get through the first part collecting various objects and the password to the next 'chapter'. Unfortunately the action is so agonisingly slow that it was all I could do to keep playing. I spent no less than five hours struggling with the game, in which you guide a little man round a burning farmhouse looking for various objects and avoiding the ever-spreading flames.

Once you've completed the first chapter you move on to the second, which is a more traditional text-adventure with standard two-word inputs. The third 'chapter' involves you undertaking eight separate challenges in order to solve the secret of *Pettigrew's Diary*.

Whether the later stages of *Pettigrew's Diary* are worth all the effort at the beginning is a mystery to me since I never got beyond the first stage. For this reason I haven't included a rating of the game, but if any reader wants to write in

ADVENTURE NEWS · ADVENTURE NEWS ·

Severn unleash mummy's curse

Severn Software are releasing the *Mystery of Munroe Manor* for the Commodore 64 at £8.50. It offers split-screen graphics, 70 different illustrations, (some of which are animated), and an intriguing scenario. Lord Munroe has returned from Egypt and promptly disappeared. As a young reporter you must investigate.

Magra returns

Carnell Software are still battling with *The Wrath of Magra*. They've been advertising it for some time now, so they'll soon be facing the wrath of their customers, but it should be available by the time you read this.

The Wrath of Magra looks very promising, with 120K of program in three different sections. There's also a 200-page book included in the package which changes hands for £12.50.

Following on from the *Black Crystal* and *Volcanic Dungeon*, your task is to seek out and destroy the evil Magra once and for all.

Mob rule from Melbourne House

Melbourne House have had to delay the release of *Sherlock Holmes*, but it should be available in June. Meanwhile they're bringing out *Mugsy*, which they describe as 'the first inter-active computer comic strip'.

Mugsy (that's you, by

the way) is a Godfather-style gangster who must rule Chicago by force or otherwise, and avoid attempts on his life for as long as possible. The graphics look promising and if someone does try to kill you the program launches into an arcade-style sequence. *Mugsy* costs £6.95.

Chamber of Horrors

Digital Fantasia are forging ahead with their *Mysterious Adventures*. The eleventh game in the series is called *Waxworks* and has you falling asleep in a waxworks museum. What happens next I hate to think, but you can find out for £9.95 if you've got a BBC, Spectrum, or Oric/Atmos.



The best thing about this game is the other characters in the story, each of whom will help or hinder you in a particular way as you search for the stolen Fantasia Diamond. You can speak to them (using the 'say to' format) and even get them to do things for you, provided they're willing to.

The error-checking is good, and the vocabulary comprehensive. You'll have to persevere with some of the puzzles – even when you know the answer the program is very fussy about how you phrase it.

Virgin's *Atlas Assignment* is for the most part text-only, but includes three arcade sequences. If that isn't enough for you (and I warn you that it won't be) then you'll be pleased to know that the adventure itself isn't at all bad.

Some of the puzzles are very tricky to solve, and my only objection to the game was that it encouraged a rather homicidal approach to other people. Shoot them on sight, in other words. That said, *Atlas Assignment* has some novel ideas and looks like being one of Virgin's better games. ●

This month's helpful hints

Here are this month's tips, carefully concealed in the PCG Help Grid.

Just in case you missed last month's issue, you should note the code printed at the end of each problem. The first part is the co-ordinate of the first letter of the clue, the second part tells you which letters to read after that. A 2 after the comma would mean that you should read every second letter, a 3 indicates every third letter, and so on.

When you reach the end of a row go back to the beginning of the next one and carry on. If you reach the bottom of the grid, start again at the top. And if all THAT's too difficult for you, start playing arcade games instead!

1. Feeling lonely in *Heroes of Karn*? Beren is good company – if you can find him. This tip might help. (Clue Code C3.2)
2. Bear this in mind if you're looking for a way to kill the Dragon in *Twin Kingdom Valley*. (Clue Code G2.2)
3. Stuck on a ledge in Digital Fantasia's *Arrow of Death Part 1*? Take to the skies with this quick command. (Clue Code B2.2)

	1	2	3	4	5	6	7	8	9	10
A	T	H	I	S	I	S	I	D	I	S
B	A	P	E	L	T	U	R	C	K	K
C	Z	F	S	E	H	A	O	T	W	H
D	S	E	O	R	M	S	E	T	A	P
E	F	M	F	R	E	S	C	P	T	S
F	I	D	O	W	N	A	T	R	O	T
G	Y	T	O	H	U	E	R	W	A	E
H	N	A	I	P	M	O	A	N	L	L
I	F	O	R	O	I	K	E	S	N	D
J	D	E	S	A	N	D	A	L	E	Y

Help for hobbits

Melbourne House have just brought out a 75-page guide to playing *The Hobbit*. If you're still tearing your hair out in the Goblin's Dungeon, or just want to get more out of the program, then this looks as if it could be a good buy.

'A Guide to Playing *The Hobbit*' is beautifully produced with numerous screen-shots from the game. The book is divided into three sections – an introduction, help section, and a guide to locations.

Unfortunately the introduction doesn't tell you much that you won't find out by reading the instructions that come with the program and playing the game. By the time you're ready to fork out £3.95 for the book you'll probably already have found out that Thorin is useless in the second half of the game and that attacking Gandalf is not a good idea.

The second section isn't much better and gives only some rather obvious hints, but the final part of the book is more impressive. Almost all the locations are listed, together with the appropriate commands to enable the player to get out of most difficulties.

Dragon owners might like to browse through 'Creating Adventure Games on your Dragon 32' by Clive Gifford. Just out from Interface Publications at £4.95 this book takes the reader through three adventure listings, each one slightly more complex than the last.

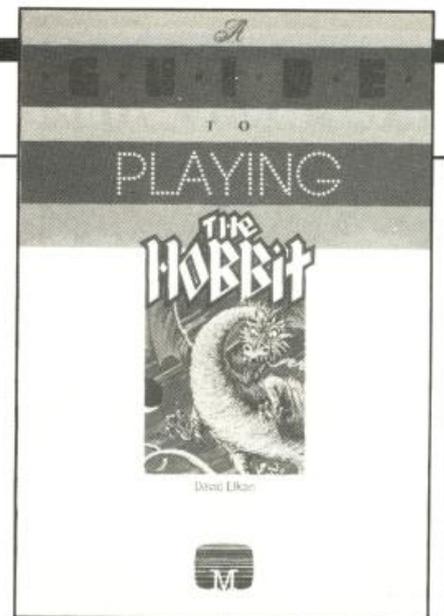
At the beginning of the book the author points out that he has included comprehensive REM statements in the programs, and goes on to say that 'you

The Wizard's Mailbag

Judging by your letters *The Hobbit* still holds the attention of the nation's adventurers. Graeme Muir of Clydebank in Dumbartonshire was a little peeved when, after being congratulated for finishing the adventure with (he thought) 100%, he was told: 'You have mastered 2.5% of this adventure'. 'Perhaps someone can tell me why this is the case?' he asks. I certainly can't, Graeme, but if anyone else has the answer, let's hear from you.

Other *Hobbit* fans included Paul Sellers (75%) and Daniel Gilbert (100%). Mr Gilbert also has the distinction of being the first person to write in claiming 1,024 points on *Twin Kingdom Valley*, for which he was rewarded with the 'Secret of Life'. I only hope it was something more interesting than '42'. Are there any other TKV champions out there?

Mention of *Twin Kingdom Valley* brings me to this month's hints section. Nicholas O'Reardon telephoned the PCG Hotline in desperation wanting to know 'how to find the treasure, kill the



should easily be able to glean all that you need to know about the programming from the listing'. The programs are well annotated however and you don't need a degree in computer science to follow them through.

My main reservation with this book is that if you are already familiar with Basic then you won't learn much that you don't know already. On the other hand, if Basic is still Greek to you then you won't be able to make much sense of what's going on. However there are some useful tips on setting up locations, using arrays, and other Basic routines.

The only other drawback with this book is that once you've typed in the listing you'll almost certainly be able to solve most of the puzzles!

'A Guide to Playing *The Hobbit*', Melbourne House, Church Yard, Tring, Herts 5LU

'Creating Adventure Games on Your Dragon 32', Interface Publications, 9-11 Kensington High Street, London.

Witch, and kill the Dragon'.

Steady on there, Nicholas, we can't give away all the secrets, but you should ponder the clue given opposite in your struggles with the Dragon. Help with other puzzles in *TKV* may follow in subsequent issues.

Meanwhile keep the letters flooding in. Any suggestions as to what you'd like to see on these pages will be especially welcome. The White Wizard is at your command.

Next month's mysteries

The July issue looks like being a bonanza for adventure fans. There'll be a special feature on how to write your own adventures – with no knowledge of programming whatsoever!

If that's not enough for you, I'll also be wrestling with Scott Adam's Superheroes, and bringing you the latest and best from the darkest locations of *Adventureland*. In the meantime WAIT, LOOK, and LISTEN – you never know when a vampire's creeping up behind you!

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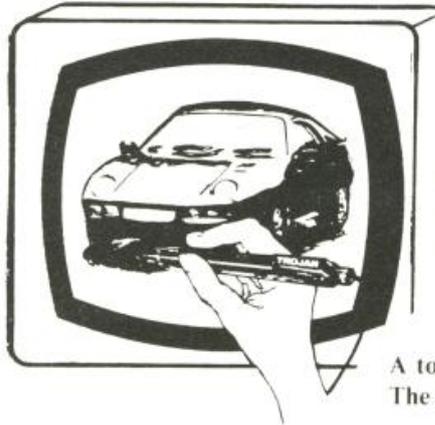
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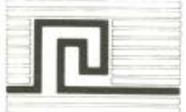
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The anti-racist computer game is one aspect of the Council's campaign to increase Londoners' awareness of racism and racial discrimination. The game will be run on a micro computer in a 'Space Invaders' type booth (similar to those in amusement arcades). The game consists of a series of factual questions about ethnic minority groups and pertinent race issues incorporated within an intergalactic voyager game.

The computer software for the game is to be designed via a London-wide competition which is open to all non-commercial entrants. Software for BBC Model B or Sinclair Spectrum computers will be accepted. The judges for the competition will be GLC members. All entries must be received no later than 8 June 1984.

For further information including a complete set of instructions plus the game's specifications, please phone: Pam Nanda, Ethnic Minorities Unit, 633 4273 or Patricia Devine, Central Computing Services, 633 3348; or write to: COMPUTER GAME COMPETITION Greater London Council, Director-General's Department (DG/EMU), Room 686, County Hall, London SE1 7PB.



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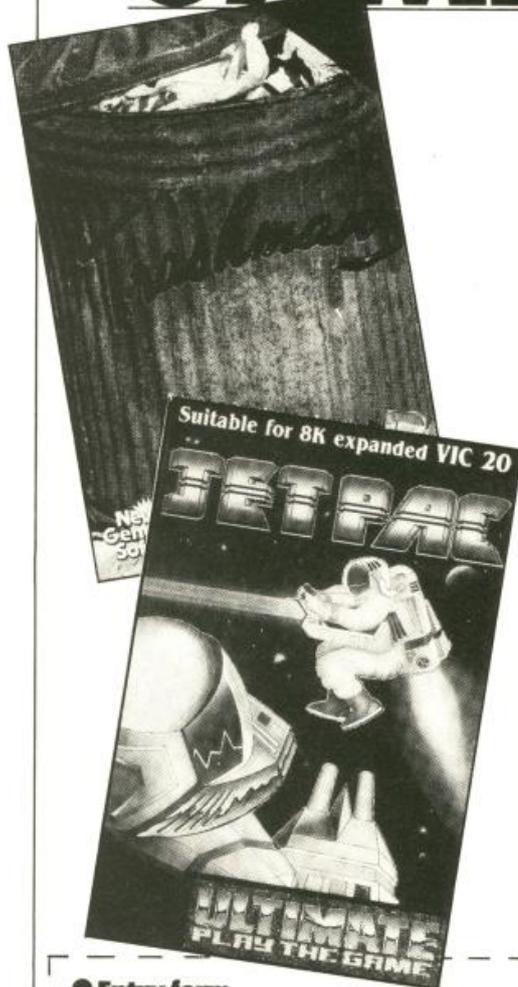
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Competition

PCG and Spectrum computer stores offer five dream prizes for Commodore 64, Spectrum, BBC, Vic 20 and Dragon owners

WIN 30 GAMES



Here's your chance to win a large box of fabulous computer games. Each box contains no less than 30 tapes and we're giving away five - one each for Spectrum, BBC, Commodore 64, Vic 20, and Dragon.

These superb prizes worth around £200 each have been supplied by the SPECTRUM nationwide chain of computer stores. As well as selling all the main home computers and add ons, they also stock large quantities of software. Look at the lists on this page to see the amazing games prize-winners will get. (Some titles may be substituted depending on availability.)

To enter this competition, all you have to do is to name the five games which you think are the best on YOUR micro. You can choose any games, not just those included in the prize-lists. Using the entry form printed below, you simply write your favourite games in order, placing the one you think is best at number 1, the 5th best at number 5.

We will use all the competition entries to work out which five

games are in fact the most popular for each machine. Then, taking one machine at a time, we shall look for the person who came closest to naming these five most popular games in the right order. That person will win the box of games for his machine. In the unlikely event of a tie, the box will be divided.

Winners will be given their prizes by their nearest Spectrum store. So get thinking, and win yourself months of free entertainment.

● Rules

1. The competition is open to everyone except employees of VNU and Spectrum. 2. Any number of entries can be made, but they must be submitted on the official entry form printed on this page. Photocopies are NOT acceptable. 3. Entries must reach Personal Computer Games by first post on June 30th, 1984. 4. The editor's decision is final.

COMMODORE 64 GAMES

- Acas +
- Cybotron
- Zodiac
- Revenge of the Mutant Camels
- Attack of the Mutant Camels
- Kong
- Skramble
- Quest of Merravid
- Forbidden Forest
- Ant Attack Challenge
- Solo Flight
- Pyramid
- Harrier Attack
- Splat!
- Omega Run
- Ulti-Style
- Super Pipeline
- Jammin'
- Super Blitz
- Open Sesame
- ACL
- Snooker
- Hungry Horace
- Twin Kingdom Valley
- Snowball
- Lords of Time
- Siren City
- Dinky Doo
- Megahawk
- Depth Charge

DRAGON 32 GAMES

- Kriegspiel
- Pedro
- Hungry Horace
- Uggh!
- Leggit
- Up Periscope
- Trace Race
- Morris Miner
- Banka
- Chess
- Transylvanian Tower
- Mined Out
- Vultures
- Cyberman
- Dragrunner
- Calixo Island

- Madness and the Minotaur
- Selection of Games 1
- Selection of Games 2
- Dragon Mountain
- Flag
- Final countdown
- Mansion of Doom
- Shark Treasure
- Poseidon Adventure
- Space Maze
- Alkatraz 2
- Space Shuttle
- The King
- Defence

- Skramble
- Dark Dungeons
- Fire Galaxy
- Battlefield
- Quest of Merravid
- Wacky Walters
- Catcha Snatcha
- Amok
- Practicalc
- Rat Race

- Halls of the Things
- Supertalk
- Lords of Time
- Colossal Adventure
- Classic Adventure
- Manic Miner

BBC GAMES

- Eagle's Wing
- Spooks and Spiders
- 747 Flight Simulator
- Screwball
- Vortex
- The Hobbit
- Beeb Art
- Music Processor
- Dare Devil Dennis
- Snooker
- Vu-Calc
- Vu-File
- Aviator
- Fortress
- Penguin
- Twin Kingdom Valley
- Lords of Time
- Dambusters
- Transistors
- Garf
- Legion
- Pedro
- Sprite Master
- Apocalypse
- Voodoo
- Secret mission
- 3D Space Ranger
- Chuckie Egg
- Hunchback

SPECTRUM GAMES

- Fighter Pilot
- Night Gunner
- Atic Atac
- Jet Pac
- Blue Thunder
- Jet Set Willy
- Psytron
- The Hobbit
- Confrontation
- Scuba Dive
- Time Gate
- Penetrator
- Code Name Mat
- Trashman
- Hungry Horace
- The Quill
- Fred
- 3D Ant Attack
- Tribble Trouble
- Lunar Attack
- Eskimo Eddie
- Pogo
- Krakotao
- Chuckie Egg

VIC 20 GAMES

- Chariot Race
- Pinball
- Bonzo
- Hellgate
- Metagalactic Llamas
- Matrix
- Gridrunner
- Lazer Zone
- Mower Mania
- Cosmonauts
- The Wizard and the Princess
- Space Joust
- Jet Pac
- Kong
- Falcon Fighter
- Snooker
- Skyhawk
- Tornado
- Arcadia
- Bewitced

● Entry form

Name Age.....

Address

..... Post code.....

My machine is (circle one) Spectrum, Commodore 64, Vic 20, BBC, Dragon. I think the best five games for my machine are (in order):

1.
2.
3.
4.
5.

Filling in the rest of this form will help us in planning future issues of PCG. Your answers will NOT be taken into account in judging the competition.

Please give ratings from 0 to 10 for each of the sections in this issue of PCG. 0 = couldn't be worse. 10 = couldn't be better.

- Notice Board (p19) ...
- Buzz (p20) ...
- The Final Conflict (p28) ...
- Chess (p36) ...
- Screen Test (p45-80) ...
- The ABC of Invaders (p84) ...
- Program Library (p88) ...
- Challenge Chamber (p100) ...
- Adventureworld (p106) ...
- PCG Hotline (p115) ...
- Good Buy (p116) ...
- Book Test (p123) ...
- Puzzles (p144) ...

How could PCG be improved?

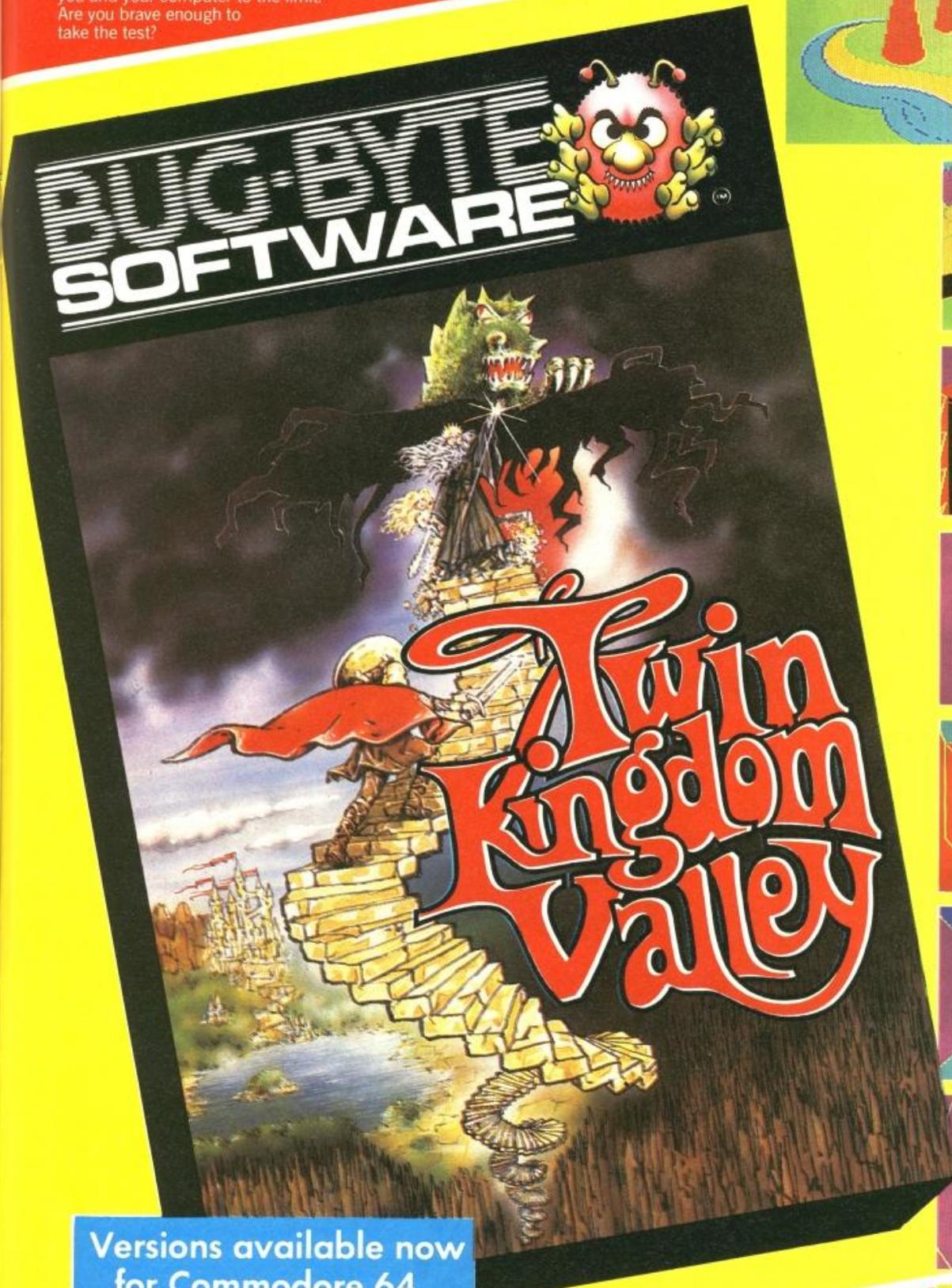
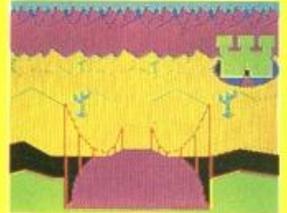
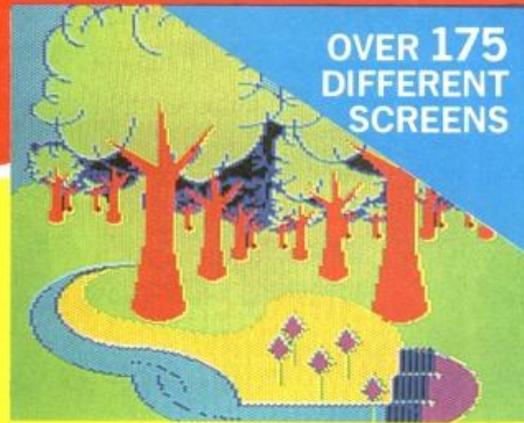
What are your favourite computer magazines (in order)?

1.
2.
3.
4.
5.

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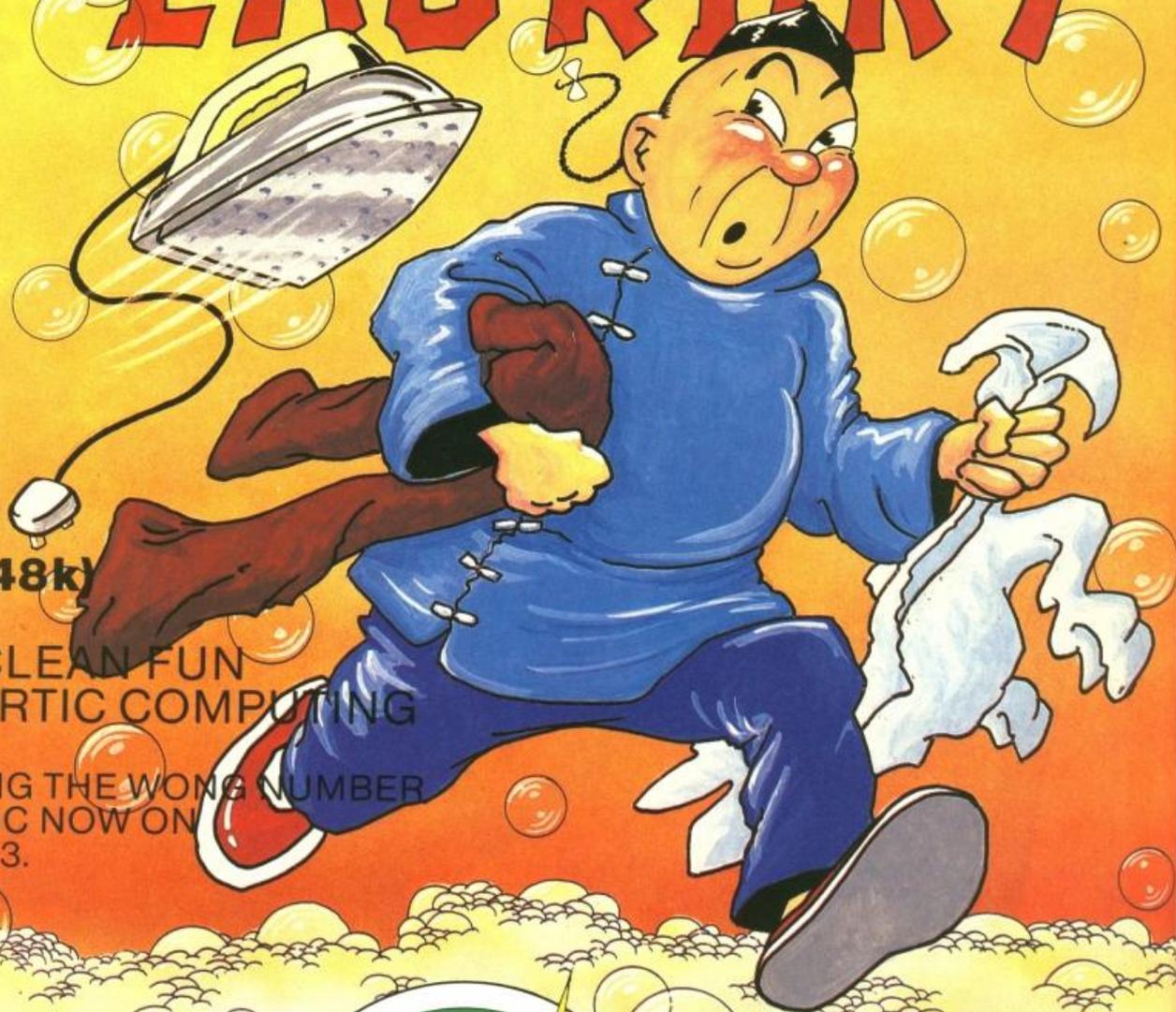
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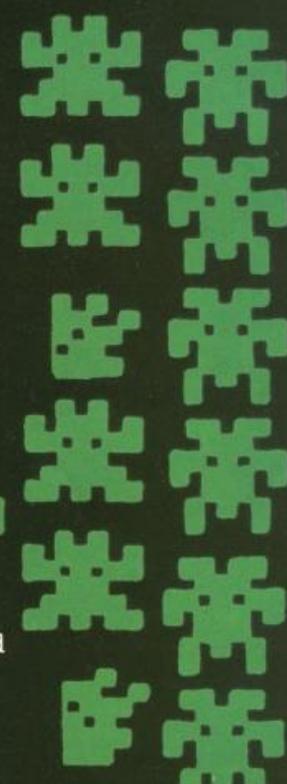
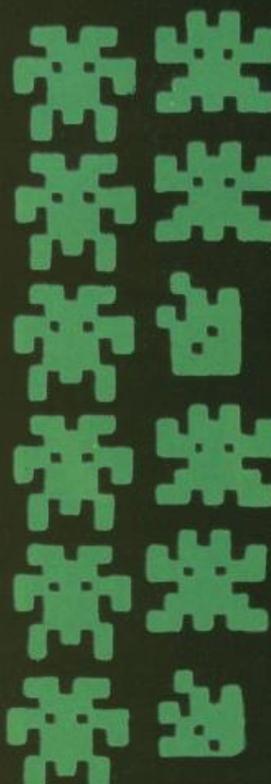
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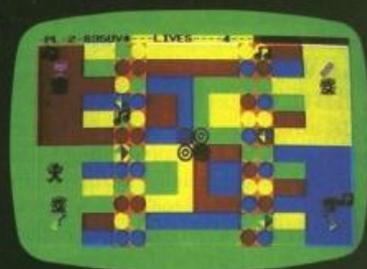
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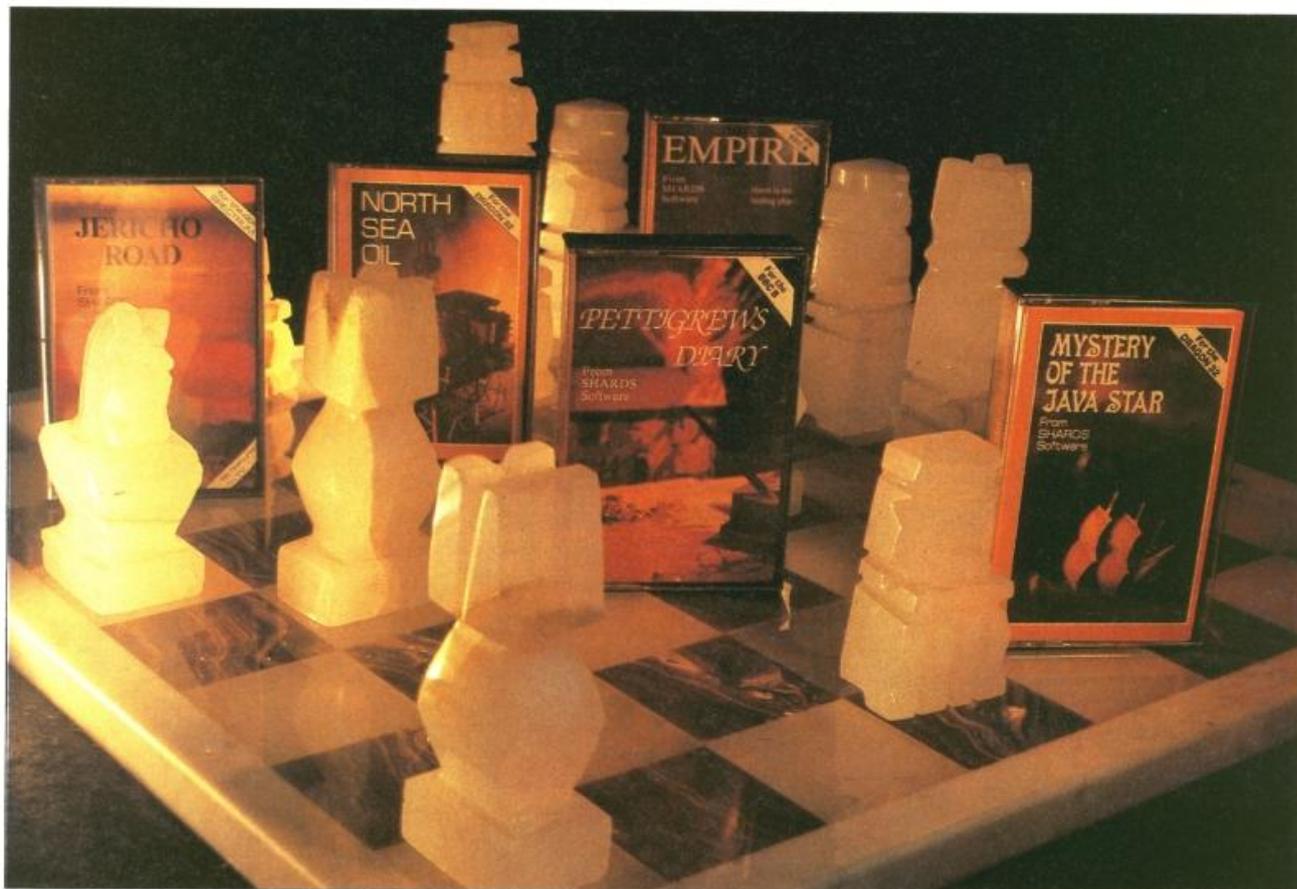


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PCG



MIND GAMES



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EMPIRE £6.95
(Dragon, BBC, Electron)
Exciting game of strategy with eight levels of difficulty. Destroy the evil Empire before it conquers the world — Played on a world map.
"This is a terrific game — visually attractive and highly addictive" *Home Computing Weekly*.

MYSTERY OF THE JAVA STAR £7.95
(Dragon, BBC, Electron)
Enormous four part adventure with 3 playing levels. Mount an expedition to the South Seas to discover the secrets of the 18th century shipwreck. Absorbing family fun with puzzles, challenges and interesting facts.

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(Dragon)
Equip and run your own North Sea Oil rig — allocate your resources, then navigate your supply vehicle, supervise drilling operations, and operate the platform until you have collected 100 million dollars.

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(Spectrum 48K)
A challenging adventure set in biblical times with two levels of play. Set in Southern Israel in the 1st century, the player must survive the vigours of Roman occupation and cope with the perils of religious persecution. Ideal family entertainment.

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Commander Chance reveals your comments on rubbishy programs

THE GREAT GAMES

RIP-OFF

This is Commander Chance speaking.

Most of you dialled the Hotline in fury to complain about rip-off games. I'm taking you at your word, and right now software houses across the country are trembling with fear. If I find them guilty, it's the BIT BLASTER for them. There is **NO ESCAPE!**

First blood to Richard Parker of Crosshope in Herts, who phoned in to let off steam about *Cavern Run* and *Crazy Kong* from Bubble Bus.

One quick warp-drive over to Bubble Bus soon sorted that out. To start with, Richard, whoever charged you £5.95 was pushing his luck - Bubble Bus say the program should have been on sale at £3.99. However, they're going to try and get hold of you over the phone, and perhaps offer you some sort of compensation.

In fact *Cavern Run* was one of the very first games available for the Commodore 64. As Bubble Bus themselves admit, there are a lot of better games around now, and they've very properly withdrawn *Cavern Run* from the market.

Shaun O'Brien from somewhere in Scotland bought a game called - wait for it - *Crash*. No prizes for guessing what happened when he loaded it. Back to the shop, but refund refused.

Well Shaun, even though I've spent most of my life on other planets, I do know that on Earth that just happens to be against the law. Take that tape back to the shop again and say it isn't fit for the purpose for which it was sold. You are legally entitled to a refund.

Christopher Allman from Oxford had a problem of a rather different nature - and a much more expensive one. He disconnected his Currah Microspeech unit from his

48K Spectrum, and was horrified to see the display crash out - permanently.

However, in this case, Christopher was luckier than most. The shop did give him a replacement - a 16K machine only, which also broke down. Ten weeks later and still without a machine.

I should point out though, Christopher, that in this case the fault may have been yours. You should never remove a peripheral from any computer (and especially from the Spectrum) while the power supply is attached. What's more, Currah tell me that just such a warning was printed on the instructions accompanying the speech unit.

Now for this month's Hall of Wallies. If you don't know what that is, then start shaking. Every once in a while someone phones with a complaint that the Commander thinks is quite unjustified. The guilty parties will not be bit blasted - after all we do believe in freedom of speech around here - but ... well ... need I say more?

This month it's Benjamin Wheeler and Geoffrey Ward. Benjamin has got it in for *The Wizard and the Princess* and Geoffrey wants to knock the stuffing out of Rabbit Software for producing *Paratroopers*, which he dares to call a 'terrible game'.

Both these programs are for the Unexpanded Vic 20. Well come on lads, what do you expect from 3.5K? These two games happen to be some

of the best around for the Unexpanded Vic.

Paratroopers has hi-res graphics and sound plus a perfectly playable game. It was even number 1 for the Vic 20 in the US charts. Give it a chance, or go out and buy more memory. Same goes for you, Benjamin. *The Wizard and the Princess* may not be as good as *Atic Atac*, but then it doesn't have 48K to play with.

Other callers this month included Terry McCartney of Edinburgh and Jonathan Lamb from Northern Ireland, both Atari owners. Jonathan wanted to know why Atari Software was so expensive. That's just the way the cookie crumbles. Jon - if you want cheap software, stick to British computers. As for you, Terry, I don't know what's going on in your *Pac-Man* game, but it sounds highly dangerous. If you keep on playing it, it could drive you mad. If I were you I'd take it back to the shop.

One last word, fellow gamers. If you phone Commander Chance, speak clearly, or forever hold your peace. Even the Ultrasonic Voice Digitiser has problems sometimes when it has to cope with people who speak with a llama in their mouths. If you want me to take up your cause, let me know who you are, and give your full address and telephone number.

I'm calling about a right con of a game. It's called *Cavern Run* by Bubble Bus. What it's got is - I think it's a V as a spaceship and you have to go into these X's. You've got these fuel things which are S's. It's supposed to be in machine code, and I bought it for £5.95. It shouldn't be allowed.'

Richard Parker, Walton Cross, Herts

I went for a holiday on the Isle of Wight and bought a game called *Crash*, and the program actually crashes and doesn't load. I took this program back to the shop and this man won't exchange it.'

Shaun O'Brien, somewhere unpronounceable, Scotland

I would like to complain about one of the games which I have bought. It's called *The Wizard and the Princess* and it's really boring. It's nothing like what it's supposed to be. It's in Basic, easy to save, and it's really boring to do.'

Benjamin Wheeler, Sutton Crawford, West Midlands

I bought *Dragon Invaders* and it said coming-down invaders on the box. When I played the game, they didn't come down! And when I took it back they said I couldn't.'

Patrick Parsons, London

The game *Paratroopers* - the box was really good and the adverts really good - but when I bought it ... graphics, no, game, no, anything, no - it's such a poor game. I'd love to get on to Rabbit.'

Geoffrey Ward, Stoke-on-Trent
I bought this cassette called *Catcha Snatcha* (from Imagine). It's about Barry Bootlace, a store detective. It's really rubbish, it doesn't really show you about the shop or anything.'

Ian Stewart, West Lothian

Commander Chance goes into action again next month ... bug blasting. When did YOU last find a bug in a program? Did it drive you mad? Did it ruin the game? Did it enable you to get huge scores? Did it leap from the screen, rush across the sitting-room carpet and swallow the sofa? Now's your chance for revenge - dial the PCG Hotline on 01-636 5911 and tell the Commander all about it. Remember to speak clearly and to leave your name, address, and phone number.

GRE

You'll find this section invaluable if you're trying to decide which games to buy for your micro. Like everyone else, you've probably been overwhelmed by the vast number of programs to choose from. And the fact is that while some games on offer are truly brilliant, others are a rip-off. You can't decide simply by looking at the cassette cover.

What we've done is to look at the entire range of games available and come up with some which we can whole-heartedly recommend. A considerable number of people have been consulted in drawing up these lists, and we shall constantly be updating them as new games come on the market.

Also each month we take a game from these charts and give it special treatment as our 'Screen Classic'. We give it a page to itself in which we explain what makes it a good game.

The games listed below are not in any special order. Those at the top of the lists are not necessarily any better than those at the bottom.

NEWCOMERS START HERE

Baffling isn't it? All you did was get a computer to have some fun on, and people expect you to speak an entirely different language. We'll try to help out.

Computer games come in many different types, but these can be divided into a few broad categories. The most common are ARCADE games. These aren't just games that you see in the arcades, but any game in which you use the computer keyboard (or a joystick) to control directly the movement of characters or objects on the screen. Arcade games themselves fall into several different categories (see below).

Then there are ADVENTURE games. The main difference is that to get things to happen you have to actually type in instructions rather than just press a key to go left or right. This means that adventures proceed at a slower pace. Their challenge is to do with brain-power, not finger-power, and a good one can keep you occupied for months.

In recent months, the dividing line between adventure and arcade games has been blurred, with pictures and even moving pictures being introduced to adventures, and arcade games being written on adventure themes.

Then there are STRATEGY games. Examples of these include games in which you control the fortunes of a country at war. The program might present the player with maps and statistics from which he will have to make his decisions.

- **Q*BERT** Colour the blocks on a 3D pyramid while avoiding vicious springs and monsters.
- **PENGY** Slide ice-blocks and use the electrified fence to kill off the Snow Bees.

MICRO CLASSICS

- **SCRAMBLE** Pilot your ship over mountains through caverns and around skyscrapers, avoiding missiles and meteors.
- **DEFENDER** Fast-moving space game in which your ship does battle with all manner of aliens.
- **ASTEROIDS** Destroy asteroids and alien craft using a highly manoeuvrable ship.
- **FROGGER** Guide the frog across busy roads and crocodile-infested rivers.
- **GALAXIANS** Development of *Invaders*, with the descending aliens cloning and wheeling off to the sides.
- **DONKEY KONG** Climb ladders and jump over obstacles as you attempt to rescue the damsel from the clutches of the nasty gorilla.
- **PAC-MAN** Exciting maze game; eat the monsters or be eaten.
- **MISSILE COMMAND** Protect your cities from the invaders by laying a protective covering of missile fire.
- **SPACE PANIC** Defeat the monsters by bonking them on the head and knocking them through the different levels.
- **CENTIPEDE** Blast the centipede, which splits up as it drops down on you.

BBC GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Planetoid</i>	10.00	Acornsoft	The definitive version of <i>Defender</i>
<i>Arcadians</i>	10.00	Acornsoft	An excellent version of <i>Galaxians</i>
<i>Meteors</i>	10.00	Acornsoft	Probably the best version of <i>Asteroids</i> for any micro
<i>Snapper</i>	10.00	Acornsoft	A fine version of <i>Pac-Man</i>
<i>Rocket Raid</i>	10.00	Acornsoft	A fine version of <i>Scramble</i>
<i>Starship Command</i>	10.00	Acornsoft	Space game with revolving ship and fragmenting aliens
<i>Hopper</i>	10.00	Acornsoft	Superb version of <i>Frogger</i>
<i>Monsters</i>	10.00	Acornsoft	The best version of <i>Space Panic</i>
<i>Zalaga</i>	7.00	Aardvark	The follow-up to <i>Arcadians</i> , offering great gameplay
<i>Road Runner</i>	8.00	Superior	Car chase maze game
<i>Colossal Adventure</i>	9.90	Level 9	First of a series of huge text adventures with 200 locations
<i>Chuckie Egg</i>	7.90	A&F	Compelling multi-level game with deadly ducks
<i>Twin Kingdom Valley</i>	9.50	Bug-Byte	Graphic adventure with over 170 locations
<i>Killer Gorilla</i>	7.95	Program Power	Excellent version of <i>Kong</i>
<i>Ghouls</i>	7.95	Program Power	Fast-moving multi-screen platform game
<i>The Mine</i>	7.95	Program Power	Excellent version of <i>Dig-Dug</i> ; burrow down, collect treasure and avoid the monsters

ORIC GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>The Ultra</i>	6.95	PSS	Multi-screen space game
<i>Xenon</i>	8.50	IJK	Exciting space shoot-'em-up
<i>Zargon's Revenge</i>	8.50	IJK	Follow up to <i>Xenon 1</i> with the flavour of the Spectrum classic <i>Manic Miner</i>
<i>The Hobbit</i>	14.95	Melbourne	Innovative graphics adventure based on Tolkein novel
<i>Colossal Adventure</i>	9.90	Level 9	First of a series of hugely complex text adventures
<i>Mushroom Mania</i>	5.50	Arcadia	Nice version of <i>Centipede</i>

LYNX GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Colossal Adventure</i>	9.90	Level 9	Just one of Level 9's excellent range of adventures
<i>Gobble De Spook</i>	9.90	Camssoft	Good version of <i>Pac-Man</i>
<i>Backgammon</i>	7.95	Camssoft	Wins often enough to convince you it cheats
<i>Treasure Island</i>	7.95	Camssoft	Simple but quirky adventure with nice graphics
<i>Power Blaster</i>	9.99	Romik	Simple graphics but sizzling action in this maze shoot-out



out this list of PCG-approved titles

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SPECTRUM GAMES

TITLE	MEM REQD	PRICE	SUPPLIER	COMMENT
<i>Jet Pac</i>	16K	5.50	Ultimate	Use your jet-powered man to assemble a rocket and avoid aliens
<i>Lunar Jetman</i>	48K	5.50	Ultimate	The follow-up to <i>Jet Pac</i> . Superb - if you can find out what to do
<i>Pssst!</i>	16K	5.50	Ultimate	Use insect sprays to protect your plant from nasty bugs
<i>Manic Miner</i>	48K	6.00	Software Projects	Spectrum classic, with 20 different screens to guide your miner through
<i>Missile Defence</i>	16K	5.95	Anirog	The best of six versions of <i>Missile Command</i>
<i>Zzoom</i>	48K	5.50	Imagine	3D view from a cockpit. Save refugees from attack by planes, tanks etc
<i>Penetrator</i>	48K	6.00	Melbourne House	The most sophisticated version of <i>Scramble</i> with 5-level action
<i>Timegate</i>	48K	7.00	Quicksilva	A superlative version of 3D <i>Star Trek</i> with a good measure of arcade action
<i>Jumpin' Jack</i>	16K	5.50	Imagine	One of the simplest games, yet incredibly addictive
<i>Scrabble</i>	48K	15.95	Sinclair	A brilliant simulation with an 11,000 word vocabulary
<i>The Hobbit</i>	48K	14.95	Melbourne House	A wondrous graphics adventure, which takes you through the Tolkien book
<i>Valhalla</i>	48K	14.95	Legend	An innovative attempt at an animated, multi-character adventure
<i>Cyrus Chess</i>	48K	9.95	Sinclair	Arguably the best chess game on the Spectrum
<i>Apocalypse</i>	48K	9.95	Red Shift	Complex strategy war game
<i>Maziacs</i>	48K	6.95	DK'Ironics	Exciting maze game with nasty monsters
<i>Colossal Adventure</i>	48K	9.90	Level 9	First of a series of highly complex adventures with 200 locations
<i>Android 2</i>	48K	5.95	Vortex	Very difficult 3D version of <i>Robotron</i>
<i>Scuba Dive</i>	48K	5.50	Durell	Dive deep to get treasures. Terrific graphics
<i>Fighter Pilot</i>	48K	7.95	Digital Integration	Superb flight simulator with combat features
<i>Ant Attack</i>	48K	6.95	Quicksilva	Amazing 3D graphics as you try to save the girl from the killer ants
<i>Cookie</i>	16K	5.50	Ultimate	Great graphics and original kitchen theme
<i>Halls of the Things</i>	48K	7.50	Crystal	Very fast and difficult adventure/arcade game
<i>Invasion of the Body Snatchas</i>	48K	6.50	Crystal	Best version of <i>Defender</i> - but no sound without Fuller soundbox
<i>Chuckie Egg</i>	48K	7.90	A&F	Compelling multi-level game with deadly ducks
<i>The Alchemist</i>	48K	5.50	Imagine	Arcade adventure with excellent graphics
<i>Pi-Balled</i>	48K	6.00	Automata	Smooth version of the pyramid game <i>Q-Bert</i>
<i>Deathchase</i>	48K	6.95	Micromega	Exciting 3D motor-cycle chase with superb graphics
<i>Code Name Mat</i>	48K	6.95	Micromega	Demanding 3D space game with with many options
<i>Night Gunner</i>	48K	6.95	Digital Integration	Multi-level shoot-'em-up with excellent graphics
<i>Caesar the Cat</i>	48K	6.95	Mirrorsoft	Brilliantly animated cat-and-mouse game
<i>Chequered Flag</i>	48K	6.95	Psion	Superb motor-racing simulation

ZX81 GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Forty Niner</i>	5.95	Software Farm	Tunnelling game with superb high-res graphics
<i>3D Defender</i>	4.95	New Generation	Blast alien craft as they zoom towards you
<i>Black Crystal</i>	7.50	Carnell	Multi-part graphic adventure
<i>3D Monster Maze</i>	4.95	New Generation	Fight your way through the maze while avoiding T-Rex
<i>Cassette 4</i>	6.00	Orwin Software	8 games including excellent <i>Scramble</i> and <i>Defender</i>

DRAGON GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Wizard War</i>	6.50	Salamander	Two player game of battling wizards
<i>Franklin's Tomb</i>	7.50	Salamander	An eventful text adventure
<i>The King</i>	8.00	Microdeal	Good version of <i>Donkey Kong</i>
<i>Frogger</i>	8.00	Microdeal	Nice version of the arcade classic
<i>Crusader</i>	6.95	J. B. Morrison Micros	Rescue the damsel in distress
<i>Empire</i>	6.95	Shards	Computer version of the board game <i>Risk</i>
<i>Cuthbert in the Jungle</i>	8.00	Microdeal	Fight your way through the perilous jungle and collect treasure
<i>Danger Ranger</i>	8.00	Microdeal	Arcade adventure with Kong-style elements
<i>Blac-Head</i>	7.95	Dragon Data	<i>Q-Bert</i> clone on rectangular pile of blocks
<i>Colossal Adventure</i>	9.90	Level 9	First of a series of hugely complex text adventures
<i>Chuckie Egg</i>	7.90	A&F	Addictive multi-level game with deadly ducks
<i>Kriegspiel</i>	6.95	Beyond	Excellent war-game with scrolling map

VIC 20 GAMES

TITLE	MEM REQD	PRICE	SUPPLIER	COMMENT
<i>Lazerone</i>	8K	6.50	Llamasoft	Alien invader game with guns on x, y axes
<i>Matrix</i>	8K	6.50	Llamasoft	High-speed grid game, <i>Centipede</i> derivative with unique features
<i>Omega Race</i>	Std	10.00	Vicsoft	<i>Asteroids</i> development featuring bouncing force-fields
<i>Gorf</i>	Std	10.00	Vicsoft	Four-screen arcade game with elements of many popular games
<i>Spiders of Mars</i>	Std	20.00	Audiogenic	<i>Defender</i> derivative with insect aliens
<i>Satellites and Meteors</i>	Std	20.00	Audiogenic	The definitive version of <i>Asteroids</i>
<i>Choplifter</i>	Std	25.00	Audiogenic	Exciting helicopter game, rescuing hostages
<i>Serpentine</i>	Std	25.00	Audiogenic	Variation of the <i>Pac-Man</i> theme, with gobbling serpents
<i>Outworld</i>	Std	25.00	Audiogenic	'State of the art' graphics for this <i>Missile Command</i> derivative
<i>Space Fortress</i>	Std	6.00	Romik	One of the best 3.5K shoot-'em-ups with multi-screen <i>Invader</i> type action
<i>Gridrunner</i>	Std	5.00	Llamasoft	Predecessor of <i>Matrix</i> ; fast and furious grid game
<i>Jet Pack</i>	8K	5.50	Ultimate	Use your jet-powered man to assemble a rocket and avoid aliens
<i>Myriad</i>	6K	6.00	Vicsoft	Colourful, action packed shoot-up with 99 levels
<i>Quadrant</i>	Std	6.99	Romik	Athletic variant on <i>Galaxians</i> , with man jumping and shooting
<i>Star Defence</i>	16K	7.95	Anirog	Excellent version of <i>Defender</i>
<i>Chariot Race</i>	Std	6.95	Micro-Antics	Thrilling race-game set in ancient Rome
<i>Bongo</i>	16K	7.95	Anirog	Multi-level game with ladders and girders

ATARI GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Star Raiders</i>	30.00	Atari	A 3D arcade-quality space game
<i>Defender</i>	30.00	Atari	The licensed version from Williams of the arcade classic
<i>Caverns of War</i>	30.00	Atari	A vertical version of <i>Scramble</i>
<i>Missile Command</i>	30.00	Atari	This is the best and meanest version of the original
<i>Zaxxon</i>	28.00	Atari	Space-fighter multi-stage game with asteroids and space fortresses
<i>Donkey Kong</i>	30.00	Datasoft	An arcade copy, superbly done
<i>Qix</i>	30.00	Atari	An intriguing territorial possession game with clear graphics
<i>Preppie</i>	22.00	Adventure	Multi-screen arcade adventure featuring a lawn mower and vicious opponents
<i>Choplifter</i>	30.00	Broderbund	Exciting helicopter game, rescuing hostages
<i>Miner 2049'er</i>	30.00	Big Five	A <i>Donkey Kong</i> derivative with novel elements
<i>Shamus</i>	30.00	Synapse	Multi-screen arcade adventure game
<i>Necromancer</i>	30.00	Synapse	Wizard battles through several levels of mystic monsters
<i>Pole Position</i>	30.00	Atari	Superb version of the arcade motor-racing game
<i>Tennis</i>	25.00	Atari	Terrific simulation. Better than Wimbledon
<i>Airstrike 2</i>	9.95	English	Terrific version of <i>Scramble</i>

COMMODORE 64 GAMES

TITLE	PRICE	SUPPLIER	COMMENT
<i>Super Pipeline</i>	6.90	Taskset	Lay a pipeline while fighting off deadly bugs
<i>Jammin'</i>	6.90	Taskset	Strange and exciting game capturing musical instruments
<i>Revenge of the Mutant Camels</i>	8.00	Llamasoft	Follow-up to <i>Attack</i> , with camels fighting back and 42 screens
<i>Motor Mania</i>	8.00	Audiogenic	A good road race game
<i>Falcon Patrol</i>	8.00	Virgin	An excellent fighter simulation with a scrolling 3D landscape
<i>Hovver Bovver</i>	8.00	Llamasoft	Suburban gardeners run riot with their mowers in a fast and witty game
<i>International Soccer</i>	9.95	Commodore	Superb soccer simulation on cartridge
<i>Twin Kingdom Valley</i>	9.50	Bug-Byte	Superb animated graphics adventure
<i>The Hobbit</i>	14.95	Melbourne House	Graphics adventure based on Tolkien's book
<i>Forbidden Forest</i>	8.95	Audiogenic/Centresoft	Fight your way through a chilling monster-infested forest
<i>Aztec Challenge</i>	8.95	Audiogenic/Centresoft	Dodge spears, boulders and other hazards in a perilous fight for survival
<i>Megahawk</i>	6.95	Big G	Spectacular 3D space action based on <i>Buck Rogers</i> from the arcades
<i>China Miner</i>	7.00	Interceptor	A frenetic multi-level, multi-screen game with great sound and graphics
<i>Jumpin' Jack</i>	8.95	Livewire	Definitive 3D version of <i>Frogger</i>
<i>Caesar the Cat</i>	8.95	Mirrorsoft	Brilliantly animated cat-and-mouse game
<i>Savage Pond</i>	8.95	Starcade	Survive aggressive pond-life in your growth from tadpole to frog
<i>Chinese Juggler</i>	6.90	Ocean	Exciting game with great graphics in which you have to keep eight plates spinning
<i>Bumping Buggies</i>	6.99	Bubble Bus	Frantic road-race with strange obstacles

WHERE TO GET YOUR GAMES

- Aardvark**, 100 Ardleigh Green Road, Hornchurch, Essex
A & F Software, 830 Hyde Road, Manchester M18 7JD
Acornsoft, 18 Tower Street, Covent Garden, London WC2H 9NN
Anirog, 29 West Hill, Darford, Kent
Artic Ltd, Main Street, Brondesburton, Driffield YO25 8RG
Audiogenic, PO Box 88, Reading
Automata UK Ltd, 27 Highland Road, Portsmouth, Hants PO4 9DA
Beyond, Durrant House, 8 Herbal Hill, London EC1
Big G, Birchall Moss Hall, Hatherton, Nantwich, Cheshire CU5 7PJ
Bug-Byte, Mulberry House, Canning Place, Liverpool L1 8JB
Camsoft, Computers Ltd, 33 Awbridge Street, Cambridge CB2 1UW
DK'tronics, Unit 2, Shire Hill Industrial Estate, Saffron Waldon, Essex CB11 3AX
English Software Co, Box 43, Manchester M60
IJK Software Ltd, 9 King Street, Blackpool, Lancashire
Imagine, Masons Buildings, Exchange Street East, Liverpool L2 3PN
J B Morrison Micros, 2 Glensdale Street, Leeds LS9 9JJ
Level 9 Computing, 229 Hughenden Road, High Wycombe, Bucks HP13 5P
Legend, 1 Milton, Cambridge CB4 1UY
Llamasoft, Awesome Games Software, 49 Mount Pleasant, Tadley, Hants
Melbourne House, 224 Stanley Road, Teddington, Middlesex TW11 8UE
Microdeal, 41 Truro Road, St Austell, Cornwall PL25 5JE
PSS, 452 Stoney Stanton Road, Coventry CV6 5DG
Quicksilva, 13 Palmerston Road, Southampton, Hampshire SO1 1LL
Romik, 272 Argyll Avenue, Slough SL1 4HE
Salamander, 17 Norfolk Road, Brighton, East Sussex BN1 3AA
Shards, 189 Eton Road, Ilford, Essex IGU 2UQ
Softek, 12/13 Henrietta Street, Covent Garden, London WC2E 8LH
Superior, 69 Leeds Road, Bromhope, Leeds
Taskset, 13 High Street, Bridlington YO16 4PR
Timescape, 1 Virginia Gardens, Fairways, Milngave, Glasgow G62 6LG
Ultimate, The Green, Ashby de la Zouch, Leicestershire LE6 5JU
Virgin, 61-63 Portobello Road, London W11 3DD



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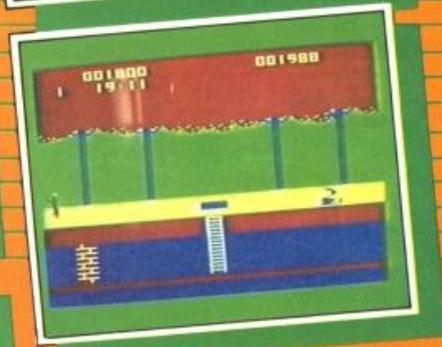
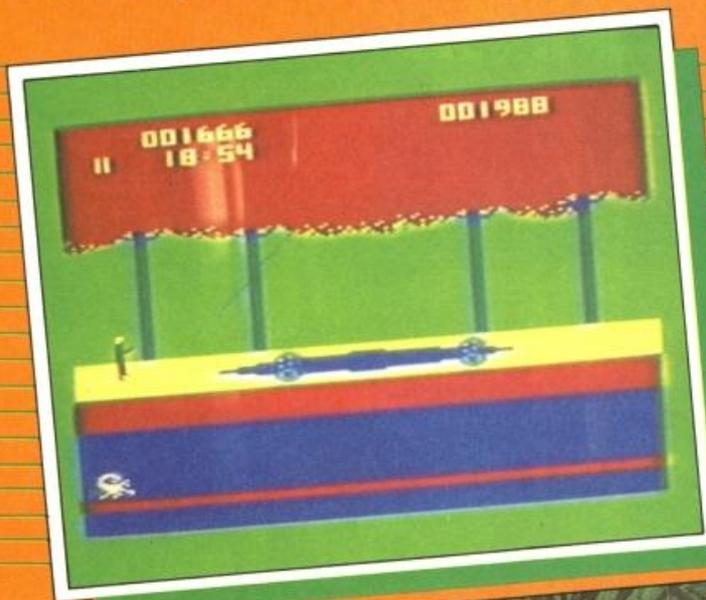
Cuthbert's had a pretty tough old life. First he had to go Walkabout, filling in lots of squares on the screen. Then he went off digging, pursued by the Moronian monsters. He'd scarcely had time to get his breath back before he was off again, this time to a steamy jungle infested with ferocious wildlife.

Cuthbert in the Jungle sees our hero engaged in a search for treasure which can only be found after successfully negotiating a series of terrifying hazards. Cuthbert, dressed top-to-toe in his maroon jungle-jogging suit, begins his perilous quest against the exotic background of blue trees and green screen (after all, this is a Dragon jungle). You press the fire-button and, suddenly, enormous boulders are rolling towards Cuthbert.

No problem - Cuthbert's a mean jumper. Anyway, these rocks won't kill him but only knock points off the

Have a swinging time on Cuthbert's crazy safari

CUTHBERT IN THE JUNGLE

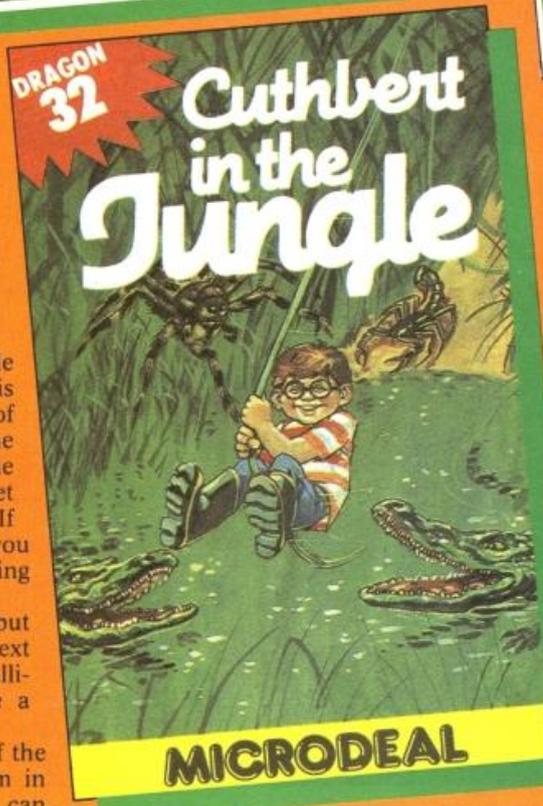


2,000 he started with. There are also holes in the ground which Cuthbert tends to fall through if he mistimes his leap. Again, you don't lose one of your three lives; you just waste time climbing back up the ladder. But if he stays in the depths he will encounter the large scorpion which lives there.

The first major obstacle Cuthbert comes up against is the pond, a wide expanse of shimmering blue water. The only way across is to catch the vine swinging above and get carried over Tarzan-style. If you miss it or fall off then you drop through to the stinging subterranean scorpion.

The vine is pretty tricky, but not nearly so difficult as the next pond, where three snapping alligators are waiting to make a meal of Cuthbert.

Their red heads pop out of the water and white teeth gleam in their gaping jaws. Cuthbert can



only cross when the 'gators' gobs are shut. This requires a fine sense of timing; often Cuthbert ends up in the gullet of the last reptile.

Beat the alligators and it's on to the strange appearing/disappearing pond; one minute it's there, the next it's gone. And so is Cuthbert. Lurking evilly on the far side of the water is a writhing, venom-spitting snake. There's no known antidote.

A hot blue flame is the final obstacle before Cuthbert can start collecting treasure and accumulating points before the 20-minute time limit expires.

From now on the same dangers reappear, but in strange permutations. What makes *Cuthbert in the Jungle* such fun is the variety of hazards the player is faced with and the skill needed to get through them. The frustration you suffer makes success all the more pleasurable. When you add to this the excellent animation of Cuthbert himself and the good sound effects, you realise that this is one of the most enjoyable Dragon games around.

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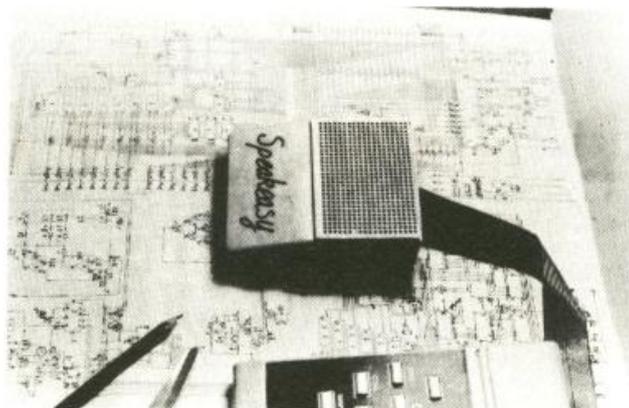
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ZX spectrum astronomy

discover the heavens on your computer

maurice gavin



ZX Spectrum Astronomy by Maurice Gavin (Sunshine Books) £6.95

As is the case, I suspect, with many people, I have long been fascinated by astronomy – but I've been too lazy to do more than simply marvel at the Voyager pictures of Saturn and occasionally turn on the TV to watch *The Sky At Night*.

I would never claim to be an expert on the subject, but there has always been something about it that has aroused my curiosity. With Maurice Gavin's excellent book – subtitled 'Discover the heavens on your computer' – my knowledge has increased considerably.

The jacket blurb maintains that 'astronomy and your Spectrum are just made for each other. The graphics potential of the Spectrum means that the subject can be brought to life...'

This book is not specifically directed at astronomers but at Spectrum owners who

wish to expand their computing interests into other fields. It may offer one answer to that perennial question directed at home computer owners: 'yes, it's very nice but what does it actually do?'

The book allows accurate representations of the features of the night sky on any given date and at any given location to be made, helps the budding astronomer to work out planetary orbits, predict the paths of comets, use the Spectrum's user-defined graphics to display the phase of the moon for any given date – and much, much more.

For example, did you know that astronomers use their own calendar of Julian Days, which starts at noon GMT on 1 January 4713 BC? The current Julian Day is a seven-figure number in excess of 2,400,000.

It should be stressed that non-astronomers should find much to interest them here, as some of the routines can easily be adapted for other uses. The listings are dumped direct to an Epson printer via an RS232 interface, so there should be no problems with wrong or illegible program lines.

ZX Spectrum Astronomy is well-produced, easy to read, and fascinating. Sunshine Press and Maurice Gavin should be congratulated for producing a book that goes far beyond the usual computer literature and which could well serve as an introduction to an absorbing hobby. **TH**

VIC-20 MIND STRETCHERS

I. Creasey



Vic 20 Mind Stretchers by I. Creasey (Sigma Technical Press) £5.95

Dynamic Games For Your Vic 20 by Matthew Boek £5.95

A brace of books for the Vic 20 this month. Both appear from the outside to be very similar, with just under 110 pages containing just over 30 programs in each, and both costing £5.95. The programs in both books are a good selection of the old favourites like *Lunar Lander* and *Muncher*, together with a selection of new ideas and a few utility programs.

But even a quick flick through the pages of both of these books reveals some startling differences between them. 'Dynamic Games' by Matthew Boek contains very clear, easy to read listings that have been produced on Commodore's new four-colour plotter, whereas 'Mind Stretchers' uses the more usual dot-matrix listings. What a treat, I thought as I eagerly turned on my Vic,

made a quick cup of coffee and prepared for a late night at the keyboard. Easy to read listings at last.

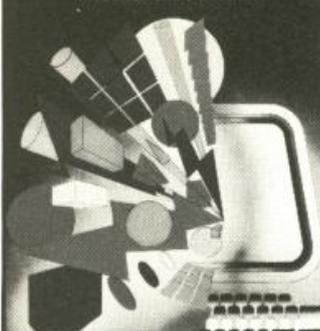
However, my problems started with the first program from 'Dynamic Games' that I tried (*A Day At The Races*). The listing contained unrecognisable characters and characters with lines under them, and I was unable to type it in! A thorough reading of the book revealed a list of some of these characters in the Appendix, but by no means all of them, and for this reason alone I cannot recommend this book to anyone other than a masochist who enjoys typing and debugging rather than playing the games.

So, on to Mr Creasey's *Vic 20 Mind Stretchers*. While the listings don't look as good as in the first book they are at least perfectly readable and contain familiar characters. Also, each program has a line-by-line description and a list of the variables used, which is very handy if you want to find out *how* a program works.

Typing in a few programs at random reveals another facet of this book, which is now beginning to grow on me. Several of the programs contain machine code routines to make the game much faster and more fun to play. It's difficult to tell whether the games are better than the first book but they are certainly well worth the 20 pence per game that makes up the asking price. **DP**

WINNING GAMES on the COMMODORE 64

T.P. Barrett and S.W. Colwill



Winning Games on the Commodore 64 by T.P. Barrett and S.W. Colwill (Ellis Horwood Ltd) £5.95

This is a substantial addition to any Commodore 64 user's program listings.

The format follows the traditional approach for listings books. No one these days risks typesetting program listings, in case printers' errors slip by. The only portions of this work not churned out in the ghastly spotted print associated with dot-matrix printers are non-program material, such as the light-hearted introductions to each of the listings.

What separates this book from the usual run of the mill listings works is that it has nine excellent chapters setting out the rudiments needed by any beginner be-

fore they can start to write Basic programs on the 64. The book is very much a teaching guide to programming, with the very substantial games listings providing the incentive to master the basic skills. Its whole thrust is aimed at educational establishments, but this does not mean that it needs the presence of a teacher to be used. It is solidly in the line of self-tutoring texts and there should be no difficulty getting down to it on your own at home.

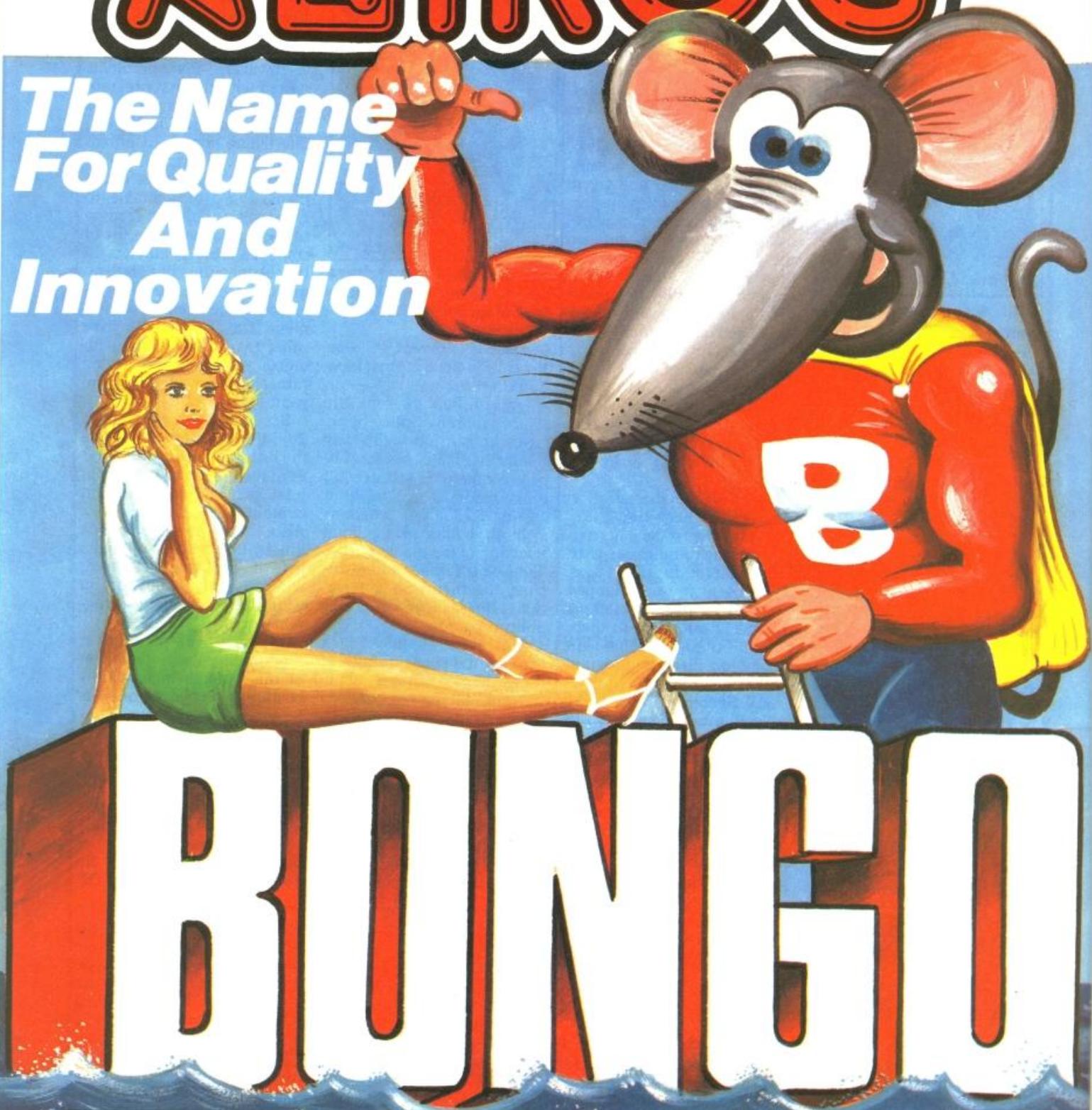
The 64 is not the easiest machine in the world to use, because both the sound and graphics facilities – though powerful – can only be used

to the full by endless POKING and PEEKING. Using Peeks and Pokes when you don't know what you are doing is a bit like blundering about in a darkened room trying to catch a black cat. This book manages to clarify the concepts in under two pages.

Better, it goes into great detail in the first nine chapters on breaking down lengthy games listings to tell you exactly what is going on at each stage of the program. If you finish the book without learning how to construct your own sprites and write your own animated games you'll know that programming is not your forte. **TH**

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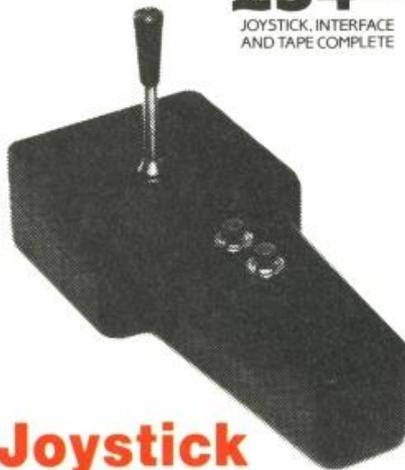
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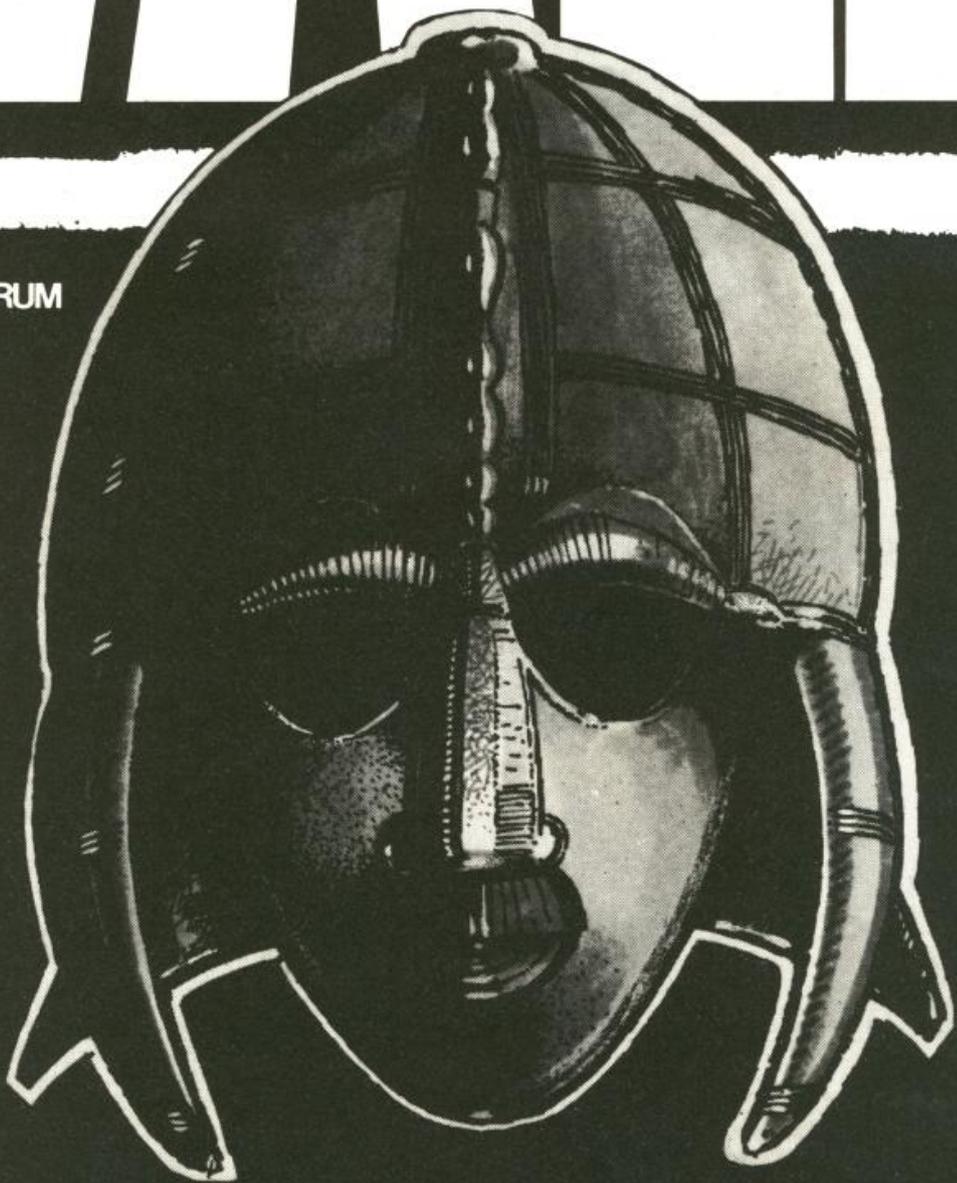
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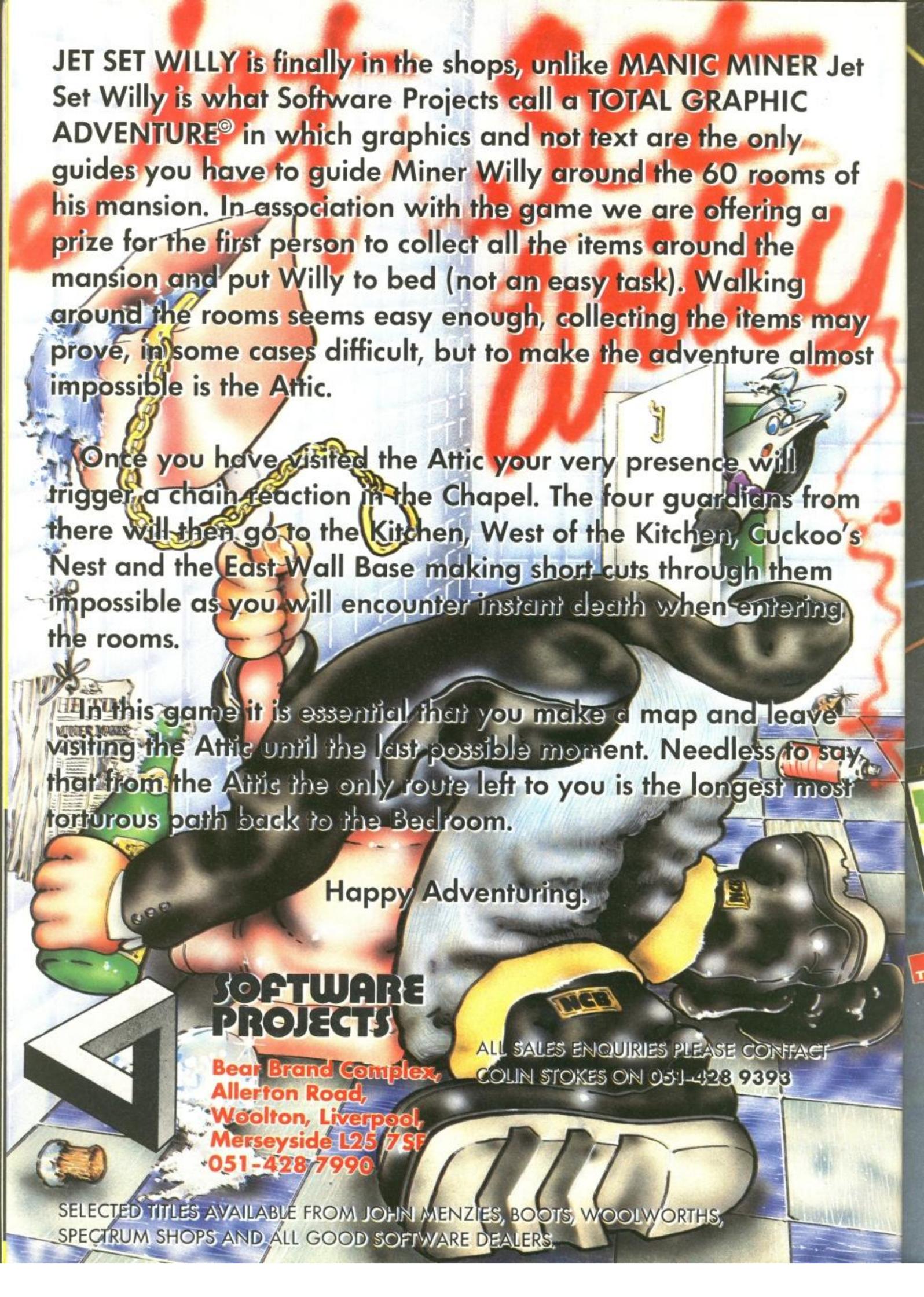
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Once you have visited the Attic your very presence will trigger a chain reaction in the Chapel. The four guardians from there will then go to the Kitchen, West of the Kitchen, Cuckoo's Nest and the East Wall Base making short-cuts through them impossible as you will encounter instant death when entering the rooms.

In this game it is essential that you make a map and leave visiting the Attic until the last possible moment. Needless to say that from the Attic the only route left to you is the longest most torturous path back to the Bedroom.

Happy Adventuring.

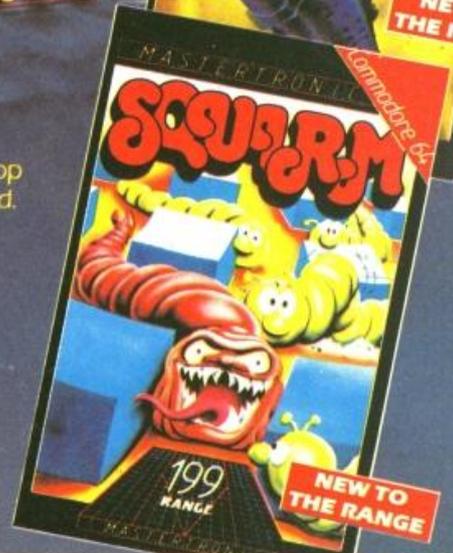
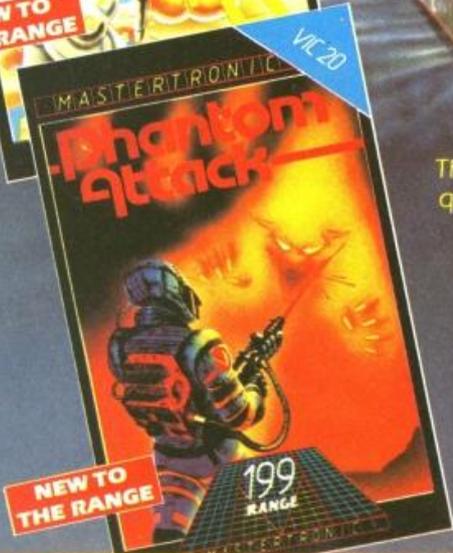
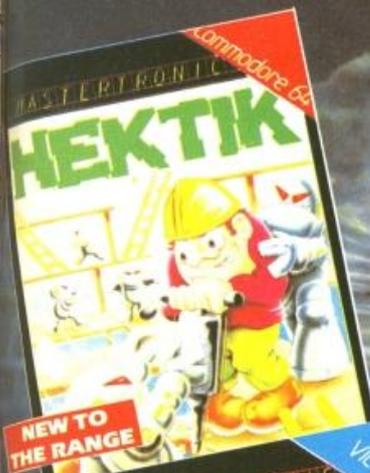
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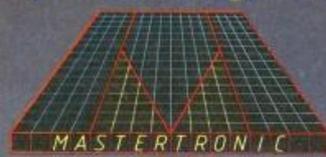
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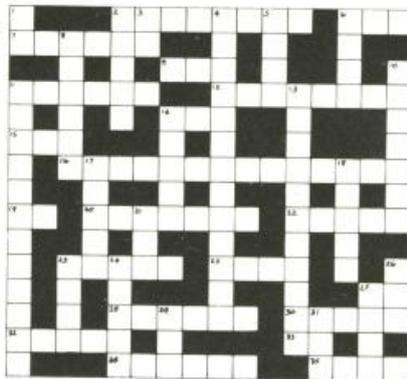
COMPUTER CROSSWORD

Across

2. The last place to communicate with your computer (8)
6. Fasten to notice-board (3)
7. It's a part of an inferior class (6)
9. Basically, it's a comment your computer should ignore (3)
11. Sounds like a levy on immoral earnings - a common error (6)
12. Moved graphically (8)
14. Mythical monster leads orchestra (3)
16. Annual inflation (6,8)
19. Is it off? No, that's backwards (2)
20. Small branch to an optional Basic command gives you a savoury snack (7)
22. Centre of attention (5)
23. Micro amnesia (5)
25. I enter 14 across to obtain a micro (4)
27. This PCG reviewer has a small current account! (2)
28. Best number prepared
30. Remop untidily a reprogrammable chip (5)
32. Micro dot (5)
33. Therefore reverse the operating system (2)
34. Increase memory (6)
35. Look into memory (4)

Down

1. In brief, the way to control a micro (2)
2. State of the Union instruments? (5)
3. Out of this world (2)
4. Faster programs (2,7,4)
5. Against (4)
6. Alcoholic access point (4)



8. Trashcan plus twisted ray - it's all 0s and 1s (6)
10. Byte's location (7)
11. Sandy slice of potato inside your micro (7,4)
13. They're used for photographic information retrieval - but maybe they should be served up with 11 down (11)
14. How to float down a river in an adventure game? (2,3)
17. Go inside to execute a command (5)
18. CIA is in a muddle over this international computer code (5)
21. It is short (3)
23. Persuade (4)
24. The computer taken by Eve (5)
26. Memory you can POKE (3)
27. Centre of 24 (4)
29. Mischievous sprite (3)
31. American father (3)

SOFTWARE SEARCH

Hidden in this grid of letters are the names of 15 popular computer games. They may read left, right, up, down or diagonally. (Puzzle submitted by Colin McMahon, Kirkcaldy, Fife).



PROGRAM PUZZLE

What does the program do and where should the GOTO on line 30 go to?

```
10 FOR I = 1 TO 100
20 FOR T = 2 TO I - 1
30 IF I/T = INT(I/T) THEN GOTO?
40 NEXT T
50 PRINT I
60 NEXT I
```

**ANSWERS
AT THE
BOTTOM
OF THE
PAGE**

ADVERTISERS INDEX

Aardvark	67	Duckworth	83	New Generation	52 & 53	Tansoft	81
Addison Wesley Publishing	76	Durell	4	Ocean	O.B.C.	Taskset	103
Addictive Games	86	Fantasy	127	Personal Computer Games	5	Terminal	64
Albeta	25	First Byte	86	Personal Software Services	90/95	Thames Television	60
Alligata	49	Hewson Consultants	25	Phipps Associates	111	Ultimate Play The Game	137
Anirog	98/104	Interceptor	57	Quicksilva	128	Visions Software Factory	39
Artic	9	Iscom	86	Ram Electronics	26	Woking Computer Centre	67
Atari	112/113	Llamasoft	24	Shards S/W	114	W.H. Smith	6/7
Audiogenic	I.B.C.	Mastertronics	105	Sinclair Research	31	Zeal Marketing	83
Big K	43	MDR	18	Softmachine	75		
Bus Tech	34	Megasave	83	Software Projects	120		
Case Computer Simulations	52	Microdeal	32	Sophisticated Games	68		
CDS	42	Micropower	68/70	Squirrel Software	67		
Compu Plan	40/41	Mirrorsoft	34	Strange Loop	75		
Creative Sparks	82/87			System 3	33		

PROGRAM PUZZLE
Prime prime numbers between 1 and 100: Line 60.

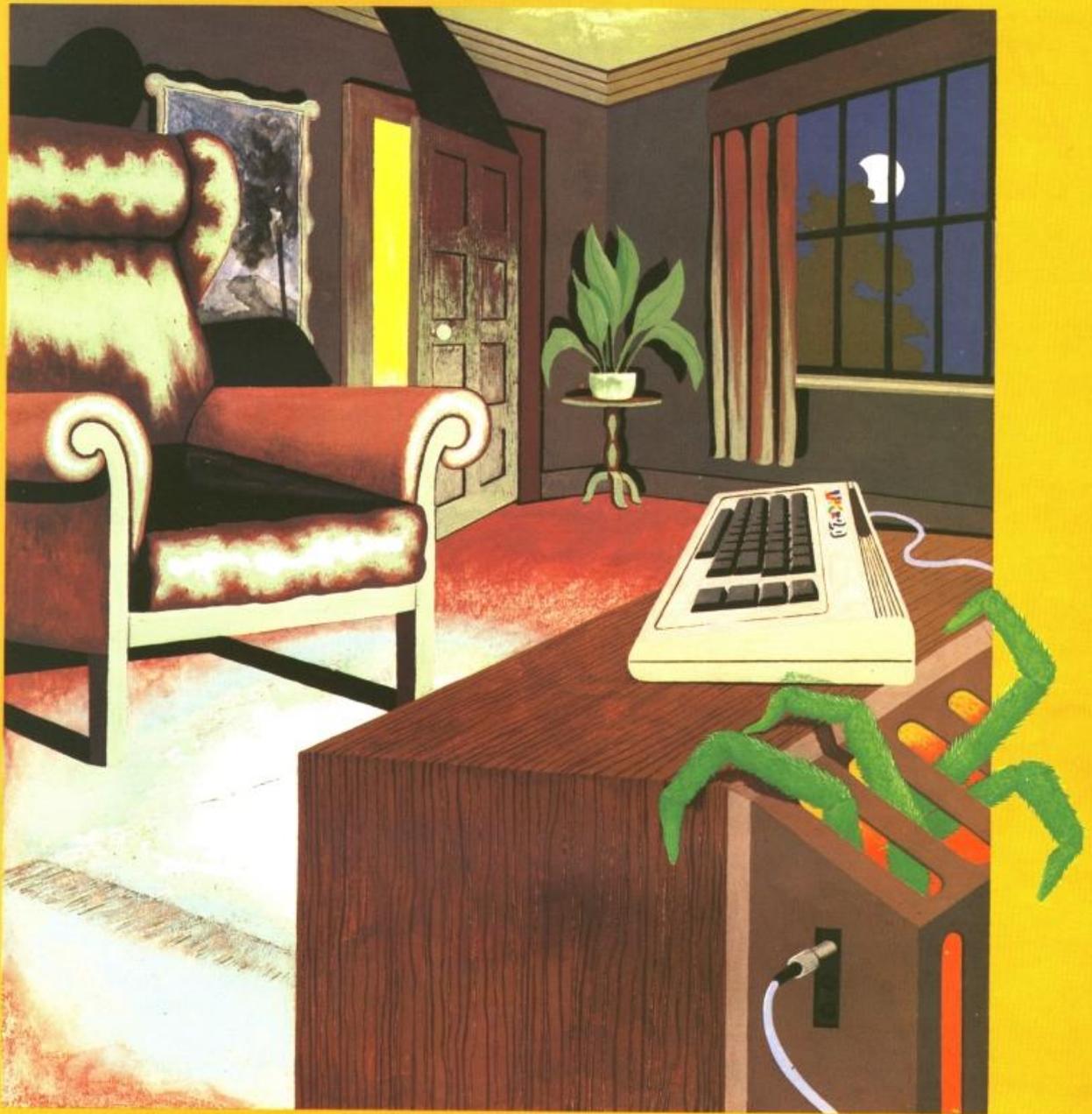
SOFTWARE SEARCH
100: Line 60.
11. Syntax. 12. Animated. 14. Orc. 15. Gorf. Penetrator. Kong. Pac-Man. Jet Pac. Pi. Mania. Stramble. Cookie.

COMPUTER CROSSWORD
Across
1. ASCII. 2. IT'S. 23. Coax. 24. Apple. 26. Ram. 27. Core. 29. Imp. 31. Pop. 27. C.A. 28. Prime. 30. Eprom. 32. rofches. 14. On log. 17. Enter. 18. Pixel. 33. So. 34. Expand. 35. Peek.

Down
1. OS. 2. Texas. 3. ET. 4. In machine. 5. Lur. 16. Yearly increase. 19. On. 20. code. 5. Antl. 6. Port. 8. Binary. 10. Address. 11. Silicon chips. 13. Mic. Twilight. 22. Focus. 23. Crash. 25. Orc. 27. C.A. 28. Prime. 30. Eprom. 32. rofches. 14. On log. 17. Enter. 18. ASCII. 21. IT'S. 23. Coax. 24. Apple. 26. Ram. 27. Core. 29. Imp. 31. Pop.

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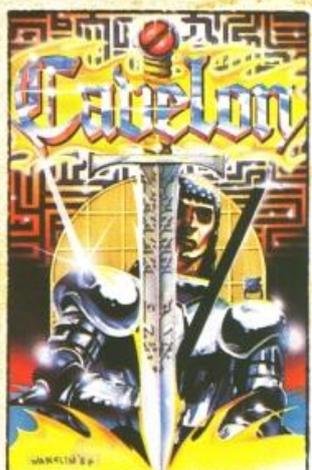
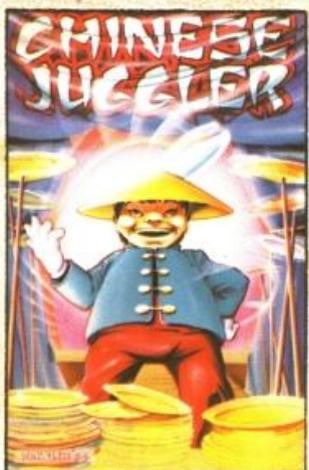
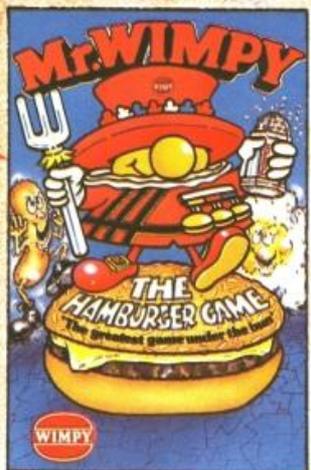
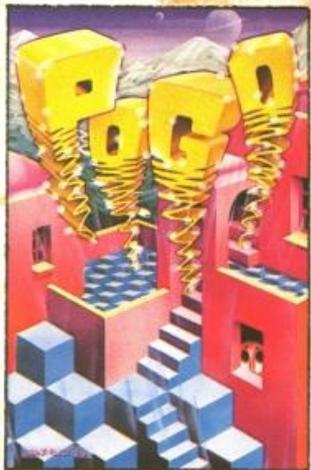
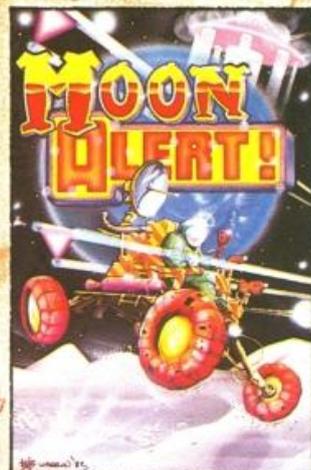
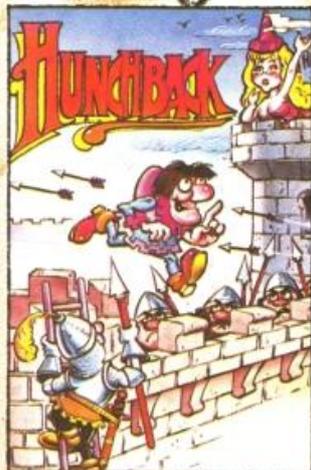
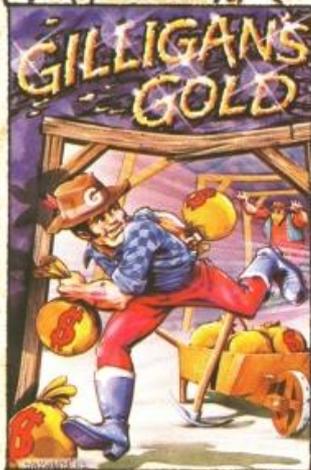
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