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Spitfire



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TALK TO US!

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TAPE TROUBLES?

If your copy of *Rasputin* fails to load, here's what you do: Send the tape in a strong envelope to Rasputin Returns Dept, PO Box 320, London N21 2NB and make sure you enclose a similar self addressed envelope with at least 18p worth of stamps on it. And please don't phone the office as we can't deal with the problem here. The free copy of *Rasputin* is only available on copies of YS sold in the UK.

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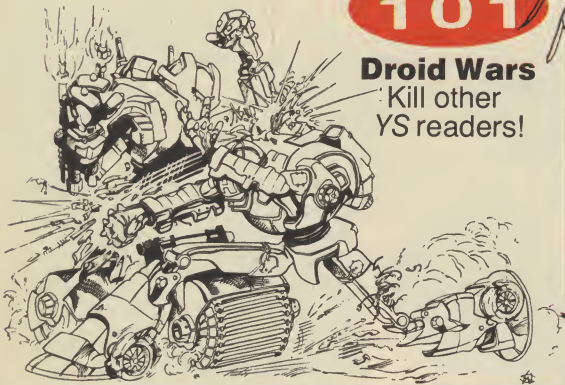
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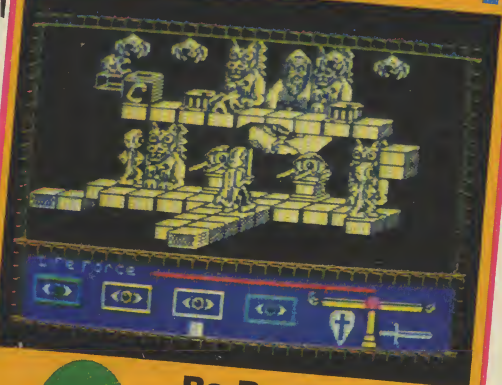
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Better Read Than Dead!

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As well as drawing, PAINTPLUS has a tremendous UDG section. It also has UDG "grabbing" from screen as well as full facilities for defining, saving and loading UDG sets.

The Organiser section of the program enables you to automatically store multiple screen graphics or multiple UDG banks.

PAINTPLUS comes with a demo of screens, animation and alternative character sets, plus a copy of Print 'n' Plotter PICTURE BOOK - 100 pages of instructions, hints, tips, listings and related graphics information.

SCREEN MACHINE (GRAPHICS SUITE 2)

SCREEN MACHINE is *the* graphics manipulator.

Use it when you want to take your graphics and turn them into professional machine coded data for use in BASIC or M/Code programs.

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And SCREEN MACHINE also has a dedicated Text Compiler - ideal for anyone who uses lots of text for instructions or menus on screen.

SCREEN MACHINE also comes with a copy of PICTURE BOOK and a demo that's so good you can't believe it!

ART-O-MATIC (GRAPHICS SUITE 3)

Ever wanted to produce screen graphics for Adventure Games, Educational, Training, or Scientific programs and run out of memory because the graphics handling consumed too much memory?

If so, you need ART-O-MATIC, Print'n'Plotter's great new graphics compiler.

With ART-O-MATIC you can draw, define and store an incredible number of screens or parts of screen in your programs as compiled instant machine code which is usable from BASIC or M/C.

The exact amount of compression possible depends on your graphics, but up to 99% is possible and an average of 85%-90% is usual.

ART-O-MATIC is a complete graphics drawing program, so you can produce your works of art and compile at the same time.

The instruction book and demo that comes with the program show you *everything* you need to know about cramming great graphics into your Spectrum.

SPRITE MACHINE (GRAPHICS SUITE 4)

There have been a number of programs called Sprite Generators. Most of these are self-contained and not a great deal of use to people who want to use Sprites in their own programs.

SPRITE MACHINE is different. This program was written with *you* in mind - whether you are a professional, amateur or beginner.

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The program comes complete with a cursor-operated Sprite drawing board and catalogue/store function.

Instruction booklet and demo are included with the program.

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FRONTLINES



● No, it's not just a careless whisper! Melbourne House has released Wham! *The Music Box*. It's a two-channel synth that needs no hardware — impressive, huh? Rather less than impressive are the five example tunes on the tape by none other than the pretty popsters themselves. Load 'em up before you go-go — and listen to Club Tropicana, Young Guns, Careless Whisper, Bad Boys and Freedom. *The Music Box* has been used to develop commercial tunes — Fairlight f'rinstance. Give that a quick listen and you'll hear what *The Box* of tricks has on offer — without having to suffer the desperate duo's warblings.



● Meet Sid. He's the guy who's starring in Alphatim's new game *Robot Messiah*. And the company's so proud of Sid that it's given Frontlines two hundred signed *Robot Messiah* posters. Signed by who? We hear you cry. By authors Christian Urquart and Mike Smith, of course, — the ones with the worn-down fingers.

And we're gonna dole out all those love-ely colourful piccies to you. All you've gotta do is solve the riddle below. We've even included a few clues for the hard-of-thinking brigade.

*My first is my fourth, and also my last.
My second is in bang but not in blast.
My third and my fifth initial VAL/LEN.
My sixth and my seventh follow an 'N'.
My last is in true and also in love.
My whole can be found in the screen shot above.*

Right, we're looking for an eight letter word and your best bet is to start at the bottom and work up. Simply fill in the answer with your name and address on a postcard and sent it to Mensa, sorry, Robot Messiah Compo, *Your Sinclair*, 14 Rathbone Place, London W1P 1DE. Get those entries in by 31st January or you won't stand a chance.

Phizzz, burrrp, brzzzzz.... Now arriving at platform 3 is the 125 from Cheetah.... Tickets costing £8.95 are now available Phizzz, brzzzzz, burrrp. (To be read with a peg on your nose.)



System 3 has ten freebie copies of its latest rave *International Karate* to give away. But if you want one you'll have to be quick! The buck doesn't stop there, though. System 3 is also offering a £1.50 discount on the game exclusively to YS readers.

How does it all work? Send off your five gold coins (Postal Order or cheque) to System 3 and if you're in the first ten orders your money'll be refunded and you'll get a copy of the game. Pretty mega eh?

For all those doubting Thomas's, Fred's, Dave's... there's no catch. All you've got to do for a discount is snip out this piece of prose and send it off with your readies to prove you're a dedicated YS reader. Post it to 'I'm a dedicated *Your Sinclair* reader' Dept, System 3 Software, Southbank House, Black Prince Road, London SE1 7JS. Now you too can travel the world kicking the living daylights out of anything that moves...



"Where's my left sock?"

says zaa-nee programmer Stephen Cargill who's just written Fighting Warrior. The camel just came for the ride.

● If you're the sort of person who quivers with fear, cowers behind the sofa and covers their face with their hands whenever there's a late night horror on the box then Domark's new game just ain't for you.

That little shop of horrors, Domark, has turned the gruesome film *Friday The 13th* into an arcade extravaganza that promises to be full of surprises. It's a shame that as you only get to play the good guy — boring! On the other hand, Jason, the resident psycho has all the fun tearing around a holiday camp brandishing a knife that's permanently attached to his arm. That arm starred in the film considerably more than the rest of his body. Sounds absolutely yummy!



It's a Christmas cracker from Virgin — Santa claws his way into the software charts with the first re-usable computerised Chrissie card. Perfect for those dodderly dears who persist in sending you the same pair of socks year after year. Just load it in to see Santa delivering the pressies and supping his sherry. It even plays a merry Yuletide jingle — bang goes those Silent Nights, eh?

● Buy a Nightingale modem between now and February 1st and you could win an amazing return trip to the Big Apple. You'll get six nights of terror in a New York Hotel plus £400 to bribe the doorman to let you out. Wackee!

EVERYONE'S A WALLIS

● Reduce speed and altitude... We're going in for the winners of our Dambusters compo of Your Spectrum issue 18!

David Gilchrist, Basingstoke; C Hankins, Gwent; A Chambers, Preston; J Lowe, Blackpool; G S Tattersall, Cheadle; M Abid Ali Khan, Sunderland; J Davies, Stockport; Robert Taylor, Chesterfield; Shyam Vyas, London NW2; Michael Monah, London SE11; A Cooke, Cheselbourne; Mrs C Welsh, Glasgow; N J Sutton, Oxford; Andrew Geddes, Buckie; Mr L Honeyman, Glasgow; L Braybrook, London E15; Jason Kiner, Camberley; David Noone, Warrington; Ian Munslow, Buxton; J Walsh, St Annes On Sea; Alexander Stivaros, East Didsbury; Sean McKenzie, Mid Glamorgan; June Wilson, Birkenhead; Neil McDonald, Aberdeen; M. O'Sullivan, London SE26.

Right, de-briefing over. Back to normal duties...

SCOOP! SCOOP! SCOOP!



What an exclusive! We've managed to get a preview look at Alphasoft's new game *Darion — Child Of A Stargazer* and, boy, is it hot. Written in the same style as *Robot Messiah* by the same writers (funny that!) it takes place in a village full of bumpkins who reckon that only the child of a stargazer could possibly topple the tyrannical rule of the Evil Warlock. (Any stargazers' children out there who want to have a crack at toppling the Ed? Troubleshootin' Pete).

You play *Darion* and you've got to set off in search of the Transformer Spell that'll eventually change you into a real man. Once that's done it's off again in search of the eight pieces of the amulet — your only weapon against megalomaniac Warlock.

On your travels through the rather rustic woodlands, villages and undergrowth you'll collect lots of lovely spells. These'll come in very useful in your attempt to get past the gargoyles and castle guards. Once you've infiltrated it's off with the Warlock's head using the amulet, of course. And that, as Barry Norman would say, is that. Or is it?

So we've given you all the gen, you've seen the pictures and now you wanna buy it! Sorry, *Darion* won't be out until February, so you're just gonna have to wait....

T'Zers...

Welcome to the column that gives you the gen on what's happening in the Spectrum world — the who, what, when and where.

First off there's a rumbling that CRL 'the dream makers' next game is to be called **It's In Chaos**. What it's all about and how far away it is, is still under wraps (could it be set in CRL's offices?) but keep your eyes glued to **T'Zers** for further info...

Rumours have it that Electric Dreams Software is currently negotiating the rights to Spielberg's new blockbuster **Back To The Future**. Electric Dreams says, "We know nozzing", in fact it even denies all knowledge of the film — we'll see!

Commando's being sold in West Germany under a different name — **Space Invasion**. And the reason, well I think its got something to do with the war, but don't mention it.

There's over 1/4 million Spectrums in America — apparently it's a real cult out there — you know, like Macdonalds. Not a lotta people know that! 'Cept me of course.

No-one could accuse Ultimate of talking endlessly about its games prior to their release. Getting anyone there to talk at all is nigh on impossible. **Pentagram** is still on target for release before Christmas but more than that I can't say — 'cos I don't know. You may even have a copy of the game before you read this.

Firebird has been opening its purse again and bought OCP's **Art Studio** package which is due to be released just before Christmas.

Did you know that Hewson Consultants' sales are up by 60 per cent compared with the same period last year? This is mainly due to the success of **Southern Belle, Paradroid** and **Dragontorc**. On second thoughts, did you really want to know?

CRL has discovered a way of bringing down unemployment in this country — how patriotic. It's taking on YOP scheme programmers to help with its new games. Could this mean that CRL will be bringing out a new range of budget games?



● It seems Cheetah really is changing its spots 'cos it's slashing the price of its joystick interface to an amazing £9.95. Can you really miss such a bargain? No? Call 'em on 01-833 4909.

● Fork out £9.95 on a copy of Level 9's new game Worm In Paradise and you'll get a poster free. You won't even have to worm it out of 'em! A-maze-ing!



● Wow, it's dayglo Dynamite Dan author, Rod Bowkett, sporting the latest in lurex 'pass the sunglasses' jackets, while still trying to convince his 'admirers' that posing as Rodin's Thinker makes him similarly intelligent. Cor, ain't he dynamite?



FROM LE HIP

"Can you . . ." Okay, I'll be with you in two ticks. "Pete, will you . . ." Look, I've got to write the column. "Over here, Pete . . ." Oh no, unless I get a moment to myself I'm not going to get the chance to write to you, let alone have my afternoon doze.

Phew, that's better — peace and quiet at last. No-one's going to think of looking for me here and it's another first for YS. Well, how many other columns have been written in the loo?

Things have been pretty hectic of late. I dunno whose idea it was to increase the size of the mag. All I know is that my comfy chair quotient has plummeted for the month — you could say the bottom's dropped out of that market.

But enough of the chatter. Let's look back to issue 20 of *Your Spectrum* where Tony 'Slim' Samuels' *Samsynth* program had some of you more than a little foxed — sort of Sam Foxed, eh? Okay, please yourselves. Not only did we hide the start address somewhere that you'd never ever think of looking for it but we also left the checksum

off altogether. Bit of a jolly wheeze, what? No! Well, the start address is 64750 and the checksum is 37771. Sorry 'bout that!

More aggro from Jill Hunney from Watford over Ian Ravenscroft's POKEs for *JSWII* that appeared in *Your Spectrum* 20. She reckoned that they didn't work. Well, err, actually Jill, they *do* work. They're supposed to reset your Spectrum (Haw, haw!). Okay, it's not that funny but it's still the best thing we could think of doing to *JSWII*!

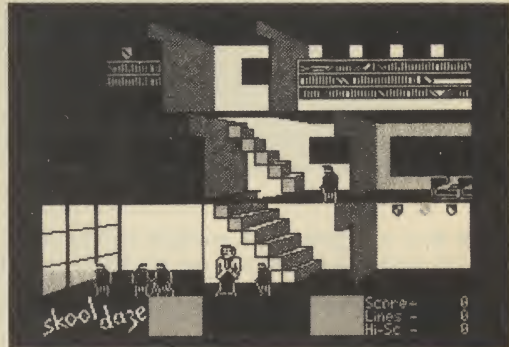
Sshhh! I hear footsteps outside. Time for a bit of quiet typing . . .

Off now to sunnier climes — if only! Israeli reader, **Ram Dagan** writes in to point out a problem with the *Edit Key* program published way back in the July ish. In line 10 you have to substitute 65133 with 65142 and in line 40, 11802 should be replaced by 12697. Without these changes, it seems that the last routine will crash the Speccy. Hmmmm, back to the manual lads!

Oh no, I think I've been rumbled! "Peter, are you in there?" Right, out the window . . . stuck . . . Oh Gawd . . . "C'mon out we've got you surrounded." Just time to tell you . . .

about what's happening to the column. Unfortunately, I'm just not going to have time to carry on with the phone-in helpline as I can't guarantee being in the office all the time — I might just be in the loo! So, if you have any programming problems or you've spotted **BANG BANG** something odd about a program in the mag, write to me at From The Hip, YS, 14 Rathbone Place, London W1P 1DE and I'll sort you out in the column — if you see what I mean. "Right, we're coming in." Top of the world, ma!

TROUBLESHOOTIN' PIERRE.



Eric is what we in the trade would call an anorak. Why? 'Cos he managed to swipe the skool records in *Microsphere's* Skool Daze and the dum dum is now after putting them back in the sekwel Back To Skool. And he's got to pit his wits against girls! Grooo! S'pose we'd better pool our poket money and kome up with the £6.95 to buy it.



● A quick shufti at Dean Electronics' new Super Champ joystick may give you the idea that the lead's not long enough to clear the user port. Not so. It's got one of the longest leads ever. Ten feet carefully wrapped up the joystick's own insides. But the biggest surprise about this new aide-de-high-score is the price — £6.95. More gen on (0344) 885661.

FRONTLINES

Here's Ian 'fame doesn't affect me, even though I'm about to be interviewed on the radio' Flory, collecting the 250 quid prize money from Print'n'Plotter who fronted our Castle Rathbone Compo in *Your Spectrum* 14. Ian put £50 in the bank and, horror of horrors, spent the other £250 on a Commie 64 — well he won't get a very high interest rate on that!

That's the last time we go out of our way to organise a compo for you lot.

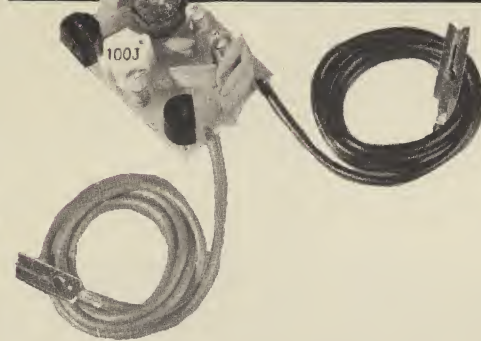


US Gold has just produced its own compilation tape featuring a bevy of Speccy hits, including *Raid Over Moscow*, *Flak*, *Blue Max*, *Hunchback II* and *Rocco*. Did you spot a few of these that aren't by US Gold? Funny, so did we!

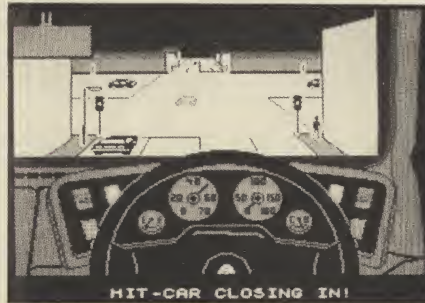


Ain't he a little dahling, possums? Chris Smith of Saga is desperate to tell you about his combined printer/interface package. Can't talk right now, eh Chris? Well don't you worry your pretty little head about it, 'cos we'll tell 'em, won't we? Buy a Saga LTR1 printer and Chris will give you £10 off the Kempston Centronics E interface. If you don't trust us you'll have to call him on (04862) 22977. What a little possum.

Saga Systems is boasting about its new Sound Boost, and why not? It stamps out Speccy whining by diverting the sound output to the TV as well as having a Save/Load switch and cassette connectors. This little art of noise will cost a cool £9.95 but it does save you strapping the Speccy to your lughole à la walkman style — very uncool. Ring (04862) 22977 to sound out with Saga.



What place your mother warned you about, St Bride's school for young 'ladies' has just installed a bit of high technology — a phone. Providing St Bride's receptionists have read the bit in the manual entitled 'How to answer' you should be able to suss out more of their Secrets if you ring them on 010 353 75 42030. Don't expect a serious answer though...



Quick, for Pete's sake do a U-turn. Yikes, the hit car's closing in, oh no... Can't explain too much at the moment except that it's Durell's new game, *Turbo Esprit* available soon. Arrrrggghhh, it's gonna get me!



Ding Dong! **Fairlight II** calling. It looks likely that the follow-up to The Edge's smash-hit **Fairlight** will come with a ROM attachment much like the one on Mikro-Gen's **Shadow Of The Unicorn**. All that's certain is it won't be the Mikro-Plus. And if you were looking forward to playing **Fairlight II**, called **A Trail Of Darkness**, before Chrimble, brace yourself for a disappointment. Bo Jangeborg, its Swedish programmer (hurdie, hurdie, ho) is too busy putting the finishing touches to his updated version of **The Artist**, to get cracking on **Fairlight II**. You'll have to sit tight till January.

The follow-up to Ariolasoft's **Panzadrome** is really wet — well it's called **Aquadrome!** The Ramjam Corporation's busy writing the game at the moment but the release date has yet to be announced. Still, it's a dead cert that it'll slide down the slipway before Ramjam's long-awaited successor to **Valkyrie 17. Three Days In Carpathia** has already stretched into weeks and now months. Is a change of title imminent? **Three Years In Carpathia!**

Talking of the Carpathia complex, this month finally sees the release of **Tomahawk**, the chopper simulation that took eighteen months to get off the ground. Plus, shock horror news is now reaching us that **Swords and Sorcery** by PSS is due for imminent release, after only a couple of years in development. Just hope it's not a rushed job!

Heh, guess what? I've seen the pre-production copy of **Mother Of Charlotte** by System 3. It was going to be called **Mother Of The Harlots** until some not so bright spark realised what it meant. It's a 3D maze in space and the player has to rush around beating up snakes and the like whilst trying to avoid rampant women. We can't publish any piccies, though, 'cos we'd get done under the obscene publications act.

Beyond has been bought out by British Telecom much to Buzby's delight. It's beyond the pale as far as those magazine chaps at EMAP are concerned — I mean, how will they get to see all those games first?

Teresa Maughan

We'll take you beyo

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 - ★ Text blocks of any length can be transposed, copied or deleted.
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- The Word Manager - £12.95
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This versatile program gives you a re-number feature, string - search, a real time clock, a graphics generator and alarm plus many other features that'll change your Spectrum into a 'full spec. machine'. Master Tool Kit - £9.95

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NEW

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Test and Display Machine Code instructions as they're written. This versatile program can co-reside in your Spectrum with the Full Screen Editor/Assembler to provide a complete Machine Code environment. Features Hex: Decimal conversion routine, character generator, etc. etc. Machine Code Test Tool - £9.95

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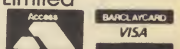
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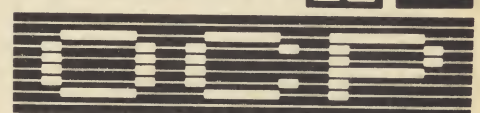
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QL NEWS

YS takes a Quantum Leap into the world of the QL. Catch up on all that's new...

Rumours about the appearance of an upgraded QL have been rife in the computer industry over the last few months. Dubbed the QL Plus, some say it'll be a Macintosh clone while others reckon it'll have a colour monitor and 3.5" disk drive to replace the existing microdrives.

Sinclair Research hotly denies all this, of course, and a spokesman told *Frontlines*, "The QL is a perfectly good machine and is selling like hot cakes." He went on "We've never had such a popular machine and you should pay no attention to current rumours." Even *Frontlines* had to smile — the QL more popular than the Spectrum?

Current rumours aside, Uncle Clive himself was recently collared at a business machine show and admitted that he was thinking about bringing out his own business unit. Shame he hasn't told anybody else at Sinclair Research as they all seem to be in the dark about any developments — or maybe it's a case of 'mum's the word'.

In fact, Sinclair Research doesn't seem to know the official line either. Another spokesman commented, "Nothing will be launched until next year." Hmmm, maybe Sir Clive's going to bring out a turbo driven C5 instead!

Believe what rumours you like but one thing's for certain you can never be sure until it happens.

Digital Precision recently launched a bevy of software products for the Sinclair QL.

Its major new release is Supercharge described as 'a state-of-the-art SuperBasic compiler'. It can translate any SuperBasic program automatically and directly into machine code and speeds up Basic by factors between 20

and 200. Supercharge comes complete with a 40,000 word manual and costs £59.95.

The *QL Sprite Generator* is a complete games design system that allows you to have up to 256 sprites and planes of movement, automatic sprite collision detection, sprite reversal and high speed action. Not only that, it also requires no machine code knowledge and costs £24.95.

Digital Precision's other releases include *Super Astrologer*, a computerised horoscope priced at £24.95, *QL Super Arcadia*, two action packed machine code programmed arcade games at only £15.95 and *QL Super Backgammon* also £15.95.

If you want any further information give Digital Precision a ring on 01-527 5493.

Master Blaster is the new offering from Compugem. Dreyfus the dread, a galactic assassin has had to retire due to ill health and the position of Master Blaster is now up for grabs. You must successfully complete twenty levels in the game in order to become the Master Blaster supreme. *Master Blaster* costs £9.95.

Compugem is also working on a couple of other arcade extravaganzas for the QL that'll probably be available early on in 1986.

Microdeal is soon to hit the market with a pre-Christmas package of aerial games and peripherals.

The might of *Flight* will soon be winging its way to the shops. A realistic flight simulator — it's based on a single engined, nose-wheeled light aircraft. Full instrumentation is provided and a comprehensive view from the cockpit. At £9.95 it sounds a goodie.

On wings of a different kind, *Eagle* is a very similar QL version of the arcade blockbuster *Defender*. In *Eagle* much mega-collection of objects and shoot 'em skills is required! At £8.00 Microdeal reckon it's top value and another feather in its QL cap. Its new £4.95 joystick interface might be just what you need to make the most of these games.

Sales manager Neil Struthers, when asked whether customers had problems loading microdrives, commented "90 per cent of telephone queries concerning loading difficulties can be solved very easily. It's usually because they've not unplugged all peripherals."

SUBSCRIBE TODAY and see what you're missing!

Are you having to go on a right royal walkabout in pursuit of your copy of YS? Well, now it's do or Di time. Simply fill in the coupon below and send it (by Royal Mail) to *Your Sinclair Subs*, 14 Rathbone Place, London W1P 1DE. Miss out and you could end up looking a right Charlie!



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THE HIT LIST

Hey, would it really freak you out to know which games are the bubblers, the breakers, the busters and the golden oldies? Well, freak out 'cos its all here in the YS Hit List.

Chart Chat 1

This month's number one, *Fairlight* from The Edge, entered the chart five weeks ago and has soared through the weekly rankings from number eight, to number six and four, and has occupied the No. 1 slot for the past two weeks.

Set in a castle, *Fairlight* is an adventure game complete with stunning 3D graphics. The Land of Fairlight is smitten by plague, famine and pestilence (sounds like our office. Ed.) Your job is to rescue a magician from the castle Avars, whose Book of Light can restore *Fairlight* to a happier state.

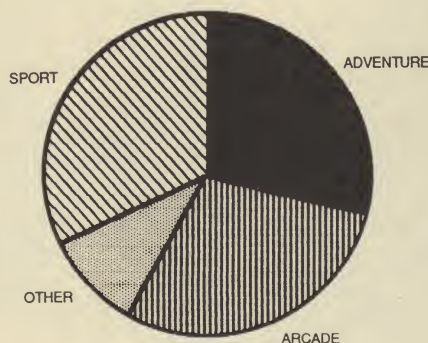
The Edge plans to release the second part of the Fairlight Trilogy, *The Trail of Darkness*, early in 1986, we'll have to see how well this one does.

This Month's Top Ten Titles

Position	Last month	Weeks in Chart	Title/Publisher
1	8	5	● <i>Fairlight</i> /The Edge
2	2	8	● <i>Way of the Exploding Fist</i> /Melbourne House
3	1	5	● <i>Daley Thompson's Super Test</i> /Ocean
4	—	3	● <i>Fighting Warrior</i> /Melbourne House
5	—	1	● <i>Shadow of the Unicorn</i> /Mikro-gen
6	—	3	● <i>Bored of the Rings</i> /Siversoft
7	3	6	● <i>Now Games</i> /Virgin
8	5	9	● <i>Frank Bruno's Boxing</i> /Elite
9	4	8	● <i>Nightshade</i> /Ultimate
10	—	2	● <i>Sorderon's Shadow</i> /Beyond

Slice of the Cake

The pie below shows how this month's 40 best sellers are split up. Honours are almost equally shared between sports, arcade and adventure games. Compared with the chart six months ago sports games have rocketed in popularity. The beginning of the sports games boom can be traced back to the Los Angeles Olympics in the summer of 1984. Programmers in this country have no doubt been spurred on by the success of *Daley Thompson's Decathlon* and *Super Test* games by Ocean. Currently in the Top 40 are snooker, soccer, athletics, cycling, cricket and several martial arts games including Melbourne House's *Way Of The Exploding Fist* and *Fighting Warrior*.



The Hit List is based on the *MicroScope* chart as compiled by Gallup.

MicroScope

GALLUP

MicroScope is the weekly trade paper of the microcomputer industry. If your computer store doesn't display the latest MicroScope chart, get him to call Mark Salmon on 01-631 1433 — we'll send him a copy every week.

Last Six Months Favourites

Position	Title/Publisher
1	● <i>Daley Thompson's Decathlon</i> Ocean
2	● <i>Softaid</i> Softaid
3	● <i>Booty</i> Firebird
4	● <i>Ghostbusters</i> Activision
5=	● <i>Starion</i> Melbourne House
5=	● <i>Knightlore</i> Ultimate
7=	● <i>Shadowfire</i> Beyond
7=	● <i>Spy Hunter</i> US Gold
7=	● <i>Way of the Exploding Fist</i> Melbourne House
7=	● <i>Airwolf</i> Elite

12 Months Ago

1	● <i>Daley Thompson's Decathlon</i> Ocean
2	● <i>Sherlock</i> Melbourne House
3	● <i>Beach Head</i> US Gold
4	● <i>Monty Mole</i> Gremlin
5	● <i>Kokotoni Wilf</i> Elite
6	● <i>Full Throttle</i> Micromega
7	● <i>Sabre Wulf</i> Ultimate
8	● <i>Match Point</i> Psion
9	● <i>Lords of Midnight</i> Beyond
10	● <i>Jet Set Willy</i> Software Projects

18 Months Ago

1	● <i>Jet Set Willy</i> Software Projects
2	● <i>Fighter Pilot</i> Digital Integration
3	● <i>Chequered Flag</i> Psion
4	● <i>Manic Miner</i> Software Projects/Bug-byte
5	● <i>Bugaboo (the Flea)</i> Quicksilva
6	● <i>Hunchback</i> Ocean
7	● <i>Atic Atac</i> Ultimate
8	● <i>3D Ant Attack</i> Quicksilva
9	● <i>Flight</i> Psion
10	● <i>Fred</i> Quicksilva

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SUPERSON

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of the world's favourite add on ma



Crikey, it's fantastic, wonderfuel, a-maz-ing, thrilling and simply sooper! What is it? Is it a bird, is it a plane? You got it in one — it's a plane and it's this month's MegaCompo, that's what!

Now if you're a supersonic airline pilot this compo ain't for you. 'Cos a ride in supersonic Concorde down to the Bay of Biscay and back wouldn't make you bat an eyelid. But ... if you're any normal human being you'd probably give your right arm to be on board.

Just to spell it out, Saga Systems and Ram Electronics have put their respective heads together and come up with a magnificent prize for readers of *Your Sinclair* — yup, two tickets to fly on Concorde to the Bay of Biscay. You too can experience the thrill of travelling at twice the speed of sound, not to mention the big boom! Yippee, eh readers? Not only that, Saga and Ram, being generous to the last, are also providing a Saga 3 Elite

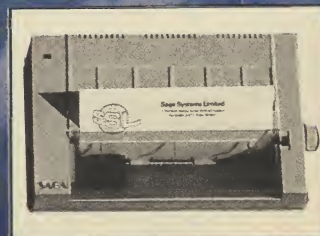
keyboard, a LTR1 letter-quality printer, a Style graphics package and a Saga Sound Boost as the second prize. The five runners up will get a

Even the second prize is like sticking your head out while Concorde's in flight — it takes your breath away! There's a Saga 3 Elite, LTR1 Printer (picture here), a Saga sound boost and a Style Graphics package.



Ram turbo interface and Quickshot II joystick.

How's that for a compo? Now here's the toughie you've all been dreading — it's interrogation time!



Don't go away now, there's more! Five runner-up prizes of a Ram Turbo plus Quickshot joystick are there for the taking!

IC COMPO!

The world's favourite airline, in the world's favourite magazine, courtesy of its manufacturers. Now we're flying!



● *Concorde was bought by two co-operating airlines. British Airways was one of them, which was the other?*

● *How fast will you be flying when you break the sound barrier?*

Fill in the coupon below, stick it on a postcard and send it to Fly Me Compo, Your 'we take more care of you' Sinclair, 14 Rathbone Place, London W1P 1DE. And make sure it drops into the Ed's lap by January 31st.

WING COMMANDS

1. Employees of Saga Systems, Ram Electronics and Sportscene Specialist Press who try to enter will be chucked out of the plane without a parachute.
2. Entries must be on the back of a

- postcard or sealed envelope, or we'll get you to open the rotten things.
3. Entries must be received by the end of January or else!
 4. Anyone found arguing with the Editor is either brave or stupid.

Okay, I'm not a supersonic pilot, so I'd love to enter your compo. I reckon that the airline involved with British Airways on Concorde's launch was

.....
and the speed of sound is

Name

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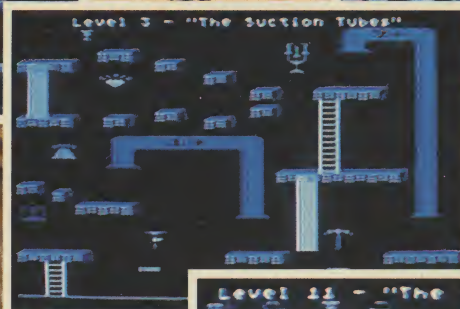
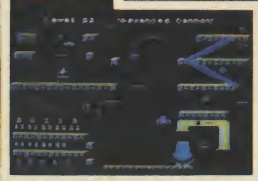
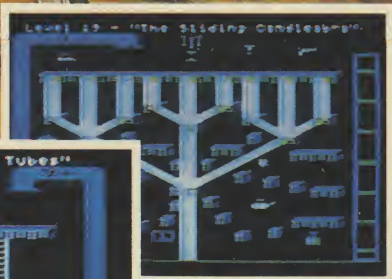
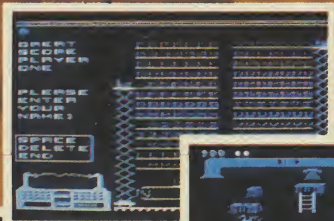
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Scissors are Dangerous. Use a scalpel instead, sorry — photocopy.

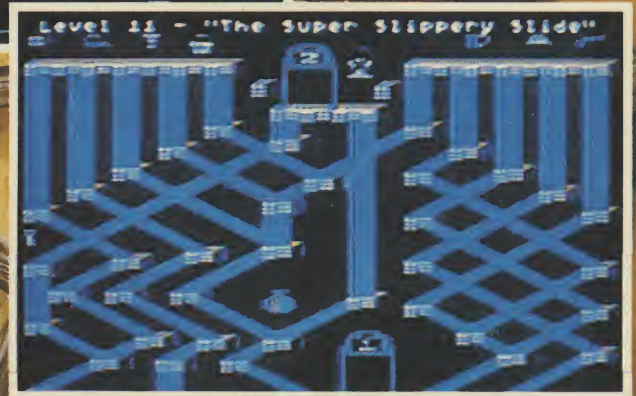
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LETTERS

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JEKYLL AND HYDE

Okay the game's up. Your little secret is out! You might as well admit it — the Editor and Troubleshootin' Pete are both the same person. I mean how else could Pete reply to one of the Ed's inserts in an article?

Hah, well you can't pull the wool over my eyes and if you don't want me to spill the beans you'd better make it worth my while to keep my mouth shut. And don't try to do anything silly like escape in your turbo driven C5, 'cos if you look out of the window of your cosy little office you'll see I have posted men with rayguns, ready to shoot at my command.

Don't say I didn't warn you! **Mooney Wahooney**
The Intergalactic Trade Commission, Planet of Altair.

Hmmm, an interesting one, this. I don't think we're the same person but just to make sure I'd better check it out with Pete. What d'you think Pete?

Ed. Hang on a tick while I have a look. Thigh bone's connected to the leg bone, leg bone's connected to the back bone . . . I think I'm missing a bit in the middle. It's tricky to tell in this light what with working in an office that makes the black hole of Cirius Major seem like a summer's day in the South of France. **Troubleshootin' Pete.** It's okay, I've got your middle bit! But that means . . . we are . . . **Troubleshootin' Ed.**

BOARDTALK

I'm writing to inform you of the opening of my Bulletin Board for Spectrum and BBC users. Here are the details:

Spectrum Bulletin Board
Name..... ARCNET
Tel.....(0226) 292118
Sysop..... Keith Burton
Baud..... 1200 Half Duplex
Times..... Mon, Thurs, Fri
9 pm till 10 pm Sunday 11.30 am to 12.30 and 4 pm to 5 pm
Ring Back..... Yes
(Auto answer available soon)
Password..... Yes
(New users can use 12345)

This board is one of a number of boards being run on a Spectrum/microdrive set-up so

don't expect the rapid response that you get on disk based boards. At the moment the board is Speccy and BBC only and requires special software to access it. You can get this from Micronet:

Spectrum Spectacular pages
BBC..... Page 810622321

The system has Prestel-like frames and uses full colour and graphics. The areas include CUG's Sig's, hints and tips, Chat mode, Message to board, Private mailbox (like Prestel mailbox) and several Auto-updating pages. Users can leave messages on these like a notice board that can be read by any other caller.

K Burton
Barnsley, S Yorkshire

The interest in Bulletin Boards has rocketed since lolo's article in Your Spectrum 20. If anyone else knows of any good BB's for Speccy owners, send us the info and we'll pass it on. **Ed.**

FISTFUL OF BUGS?

Whilst playing Way Of The Exploding Fist my friend and I were happily beating the hell out of each other when we were returned to the demo mode. We tried again, thinking it was our fault when after another few seconds it happened again. After many games we found that if you press keys D, H, K and Break at the same time whilst on a two-player game, you'll be returned to the demo.

Now it could be our copy that's not up to scratch otherwise it's a genuine, first rate bug — yippee we've

found one. If so, how much do we get for spotting it and when will the Porsche arrive?

From two members of the 'We also think Gollum deserved everything he got' Society.

Chester
PS Who is Gollum anyway?
PPS Don't let the Ed write silly little comments on the letter.

Oh goodie, does that mean it's my turn to write silly comments on your letter. Like, fancy not knowing who Gollum is! (Who is he then clever clogs? Ed). I shall ignore that. Also are you and your friend octopusses? How else can you reach all those keys at once? Your Porsche is in the post.
Troubleshootin' Pete

YOU CAN'T BEAT IT!

The Beat magazine (a freebie from HMV shops) announced that Frankie Goes To Hollywood (the game, that is) is now available for the 49K Spectrum. So much for Sinclair's pledge of no new Spectrum before Christmas!
James O'Neill
Worthing, West Sussex.

Frankie Goes To
● THE LONG-AWAITED Frankie computer game for the Commodore 64 and 49k spectrum is finally available (Ocean Software, £9.95).
Ward, director of Ocean

That'll teach you to nip off while our backs are turned and read these ill-informed rags. 'Ere Pete, what's a K? **Ed.**

GET RATTED

I demand compensation. "Oh yeah, what for?" I hear you ask. Well, last month (Your Spectrum 20) I turned to the review of *The Rats*, having been enticed by the revolting picture on the front cover. Having read the blood-splattered pages, telling the gruesome tale of 'rats gnawing at Ferris' body', 'gnawing at his bones' and 'ripping mouthfuls . . . I mused to myself, out loud, that I might buy the game. Oh, that I'd kept my big mouth shut.

The result of my innocent remark? It panicked my thoroughly terrified Speccy into having a heart attack. Well, it blew its CPU actually. I blame this entirely on you. If you hadn't published such a gory review my poor ol' Speccy wouldn't be under some surgeon's screwdriver.

Right this is what I want.
1. A solemn promise that you won't publish anymore gore, like pictures of Troubleshootin' Pete.

2. Something that'll reassure my Speccy when it eventually returns to the land of the living — preferably nothing furry that eats human flesh and squeaks. And I don't mean one of T.P.'s socks.

Stephen Fodder
Southampton, Hants.

D'you know, I was wondering why I'd started taking a smaller and smaller shoe size. Nah, it couldn't be my socks — I washed 'em out at the end of last yeaaarghhh . . .
Troubleshootin' Pete.

MEGABRAIN

I'm amazed at the mentality of some of your readers. I am, of course, referring to the letter from Richard Relf in the November issue. If Mr Relf had more than half a brain he'd have realised that what Pete was trying to show was how the actual addresses for the display file were calculated.

There can hardly be a Speccy programmer in the

DOODLEBUGS

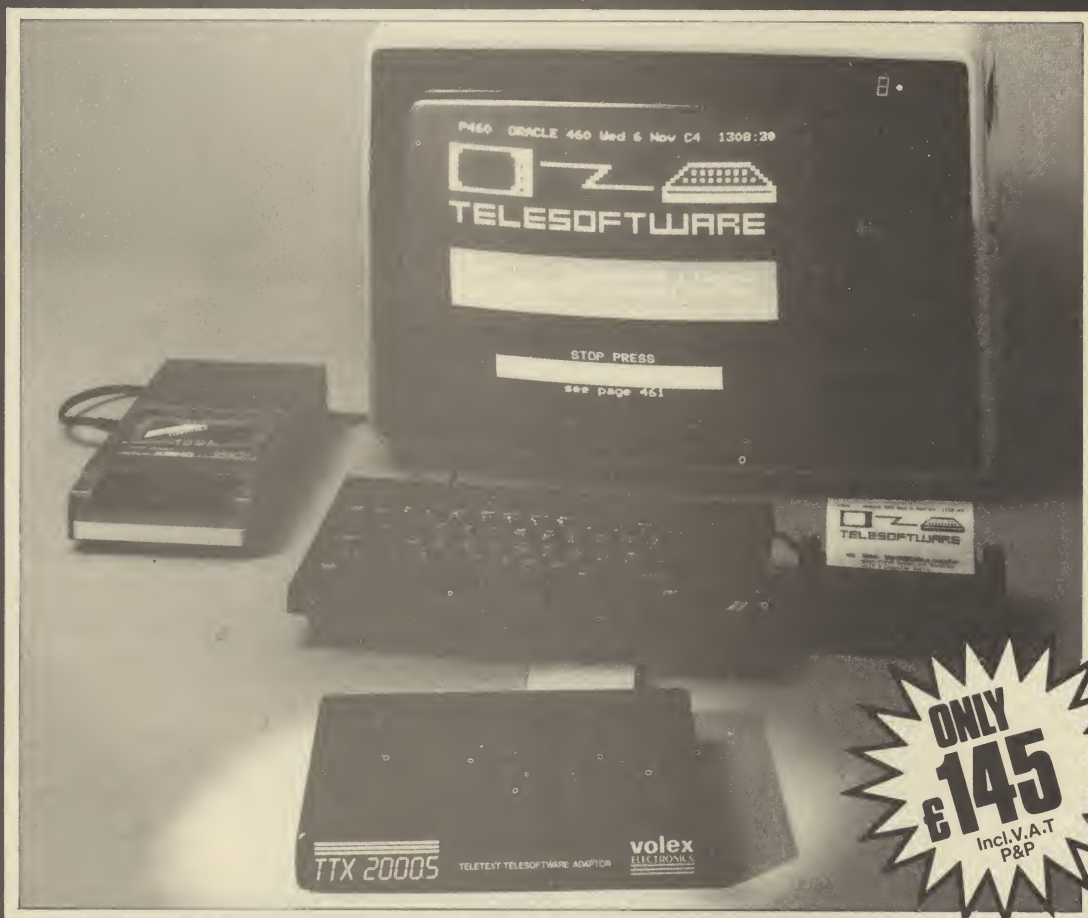
Look, it's no laughing matter — or it won't be if you don't send your cartoons to Doodlebugs, Your Sinclair, 14 Rathbone Place, London, W1P 1DE.



Cartoon by YS reader William Thompson.

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TELESOFTWARE

is the name for computer programs which are broadcast as Teletext. Thus they may be loaded "OFF-AIR" into your Spectrum instead of being loaded from, say, tape or microdrive. 4-Tel is Channel Four's Teletext magazine and they are now broadcasting FREE telesoftware. Because of the special nature of teletext these programs are frequently updated – so you will not see the same thing each time you run the program.

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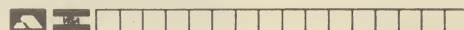
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LETTERS

country who isn't already aware of the ROM routine at 22AAh. If our friend had sat back and thought he would've realised that Pete's diagram was the algorithm used in the ROM routine and that understanding the algorithm would enable him to write faster and more varied pixel address calculation routines.

Seb Dacre
Cricklewood, London

Your cheque's in the post, Seb. Troubleshootin' Pete.

CLUB SANDWICH

Despite the sceptics I believe in the C5 — so much so that I am now using my customised C5 'Sputnik One' as a mobile sandwich board in the Greater Manchester area.

If C5 Promotions continues at its present rate of success I intend to customise more C5's for promotional usage.

I see the C5 as having great potential as a low cost cheap to run personalised fun buggy and want to open a specialist C5 shop offering a customising service. I'd also like to start a national C5 owners club.

Nev Foaris
Ashton-under-Lyne

Yes, despite the sceptics I too believe in the C5. Everyone else at YS just laughs at me. I know it sounds incredible when I tell people that I had a close encounter with this little white electric vehicle that looks like a large shoe built of washing machine parts. But I did. And there was this little green man driving it. One day the world will believe me. Ed.

SOFT ON THE END

Hi. Just a note about your piece in *Frontlines* entitled 'I saw a mouse, where?'

First, we haven't actually made our plans about *The Artist/Artist II* public yet, as you know. But there are a couple of possible misconceptions your piece may have given rise to. First, you're, shall we say, on the right lines when you describe *The Artist II* ... a pointing device, keyboard use option, printer dump options, icons, menus ... hum, yes things like that.

But we have to be quick to correct you, for no-one here at SoftTechnics (no-one alive that is) has ever commented that they feel that OCP's offering is better than *The Artist!* Shame on Mr Everiss of OCP for saying so.

And a second point, we are

not yet stating when *The Artist II* will appear, or even whether it will be a separate package, or run with *Artist I*. So watch this space ... one thing we will guarantee though — we will see that everyone who buys *The Artist* will get full support on upgrades if they join the SoftTechnics Connections.

SoftTechnics
Customer Support
Division

Hang on a sec, I'm the only one allowed to do commercials around here! What we now want to see is whether Bruce Everiss names names and tells us who at SoftTechnics spilled the proverbials. Is that person now dead? And was it of natural causes? Do people at SoftTechnics have names that can be named? It's time the world was told! Da-daa! Ed

SMALL PRINT

... Anybody who has entered the Samsynth program in *Your Spectrum 20* may like to try 5 for the wavelength and 50 for the depth control. It sounds like a drunken bee!

David Sellen
East Hanningfield, Essex

... Is the Ed any relation to Kevin the Gerbil?

(Yes! T.P.) (No!! Ed)

Paul Weller
Reading, Berkshire

... as the owner of an Opus Discovery disk drive, I'm trying to start a users club for the Netherlands. Would any UK Discovery users like to contact me to exchange information and so on?

D C Kruithof
Boeierkade 6
2725 CH Zoetermeer
The Netherlands

I claim a YS first. I believe I'm the first potato to write to you. As a resident of Easton-in-Gordano I was shocked that the Ed should accuse Matthew Exley (the amazing new Easton superstar since winning the Trainspotter Award in *Your Spectrum 20*) of making up the name of the village! So, shocked was I that I had to go and talk to Angus the Brick. Nuff said. *(More than enough! Ed)*.

Sammy Spud
Easton-in-Gordano

... aark, aark, my name's T.P., what's your problem? What's come over me? Nowt. I've just (train) spotted the most classic printing error ever. Have a squint at *From The Hip* (ish 19). Now look at the two hundred and eighty-eighth word. Got it? Ha ha. *(One hundred and sixty-five, one hundred and sixty-six, one hundred ... T.P.)*

Ian Fisher
Barbourne, Worcestershire
(saucy devil).

TRAINSPOTTER AWARD



Ta for such a wonderful, splendiferous, fabaroonny mag. Every month, I glance through at, what was it ...? 'Fantasising over features ... marvelling at machine code ... revelling in reviews ... lusting over listings ...' and trainspotting the bugs!

'Tis the third time I've written in about your inadeq ... inedk ... minor hiccups. Now who, I'd like to know, ruined an otherwise perfect ish 20? Troubleshootin' Pete? The Ed? Andy Pennell? Small though the brains of these loonies may be, surely none could make such a stupid mistake as that which proudly displays itself on page 24.

For here is the sooper-doooper compo entry form, complete wiv a dotted line to which we must apply those sharpened cutting utensils (scissors to you!). Trouble is, when you've cut down the dotted line, you're left with nuffin' more than a small strip of paper about 1cm wide ... The stupid line's on the wrong side of the page! If

you don't believe me, just look! Honestly ... Now this one must earn me a Trainspotter Award!

Paul Taylor
Peterborough

PS I don't feel sorry for Gollum.

PPS Have you ever tried Hex on Toast for breakfast? (Breccy wiv your Speccy, eh?)

Dear (he who writes the witty comments) Ed.

I hereby claim the Trainspotter Award. You have made the terrible slip up of putting the dotted line with the mad scissors on the wrong side of the competition in *Your Spectrum 20* (cue witty comment from Ed). *(Ooh er, sorry I was dozing there ... um ... er ... pass the scissors and I'll just cut that bit out. Ed)*.

Hallinics Domadam
Universe 32a

PS Who is this Erauqs type person?

PPS I think it's only fair to tell you that I have a Protonic Enmostic Extremely Violent Energy Disrupter (PEEVED) gun aimed at your office and I'll not hesitate to fire if I don't get the award.

Oh come on, you did do it on purpose — didn't you? I refer, of course, to page 24 ish 20. You know, the compo with all those stars on it. Running down the left-hand side is one of those dotted lines that are meant to be the guidelines for cutting the page out. Well, I've sussed you! You thought you could con us intel ... intellic ... brainy people into sending the little white strip down the left hand side of the page,

didn't you?

This would mean, of course, that no-one would win the compo and so the judges wouldn't have to count all those stars. I saw through your evil plan from the beginning — to deprive us of a Star STX-80 printer so T.P. could have it himself!

Well, I'll tell you what. If you hand over an illustrious Trainspotter Award I'll tell no-one. Deal?

Anyway, brill mag (creep, craaawl). How about some more on comms — I liked the Bulletin Board article in ish 20. Keep it up!

Jeremy Doyle
Englefield Green,
Surrey

Hmmm, three candidates for the Trainspotter Award this month. All of them have spotted the same cock-up in ish 20. Problem is, how are we going to pick the most deserving candidate for the supreme accolade of a YS Trainspotter Award?

It's about time Paul got something if this is the third time he's written in — but this time it'll be the sole of my boot. Call me a loony, indeed! As for Hallinics — you can't frighten me with your gun. Made up name, made up gun. And anyway we can't afford the postage to Universe 32. So, it looks as though Jeremy's this month's trainspotter supremo. And if anyone dares to suggest he only got the award by dint of a final bit of crawling at the end of the letter — well, they'd be dead right! Ed. I'm still trying to find out who printed the mag on the wrong side of my dotted line ... Art Ed.

💡 I'm an operator at Prontaprint and use a Spectrum to update a Lilliput Sales Ledger. After months of trouble-free working my microdrive has now decided not to Verify 25 per cent of the cartridges which is obviously causing a lot of problems. Why should this be?
John Williams, Grimsby.

💡: Well John, this usually occurs because the microdrive ROM doesn't completely erase the file header and reads the old header instead of the new one. The best remedy is to change the name of the file regularly and copy the results to a new microdrive so that the old one can be reformatted (which clears all the headers) before reuse. Apart from this, the only other person who can cure it is Sir Clive.

💡 I've just bought an Interface 1 and would like to know how to wire the RS232 socket to Save and Load like a network?
A Blackmore, Boston.

💡: The Interface 1 is fine if you directly connect the two computers together but it won't work with a modem. Use the 'B' channel to Save and Load and make sure that you have the RX and TX pairs correctly connected. The distant computer must have a CTS connected so that it doesn't send info when the Spectrum is busy doing it's own internal thing.

💡 Sob Sob. I've blown up my ZX Spectrum by using an Interface 2 on it. What can I do?
R Capson, Dorset.

💡: Sounds like you've blown up the ZTX 651 or 650 transistor. Try and get another one fitted and see if that brings your Speccy back to life. Be careful when connecting the Interface 2 as this might have a fault on it. Marshalls of Edgware Road, London stock this transistor if you have problems getting one. If it still doesn't work I'm afraid it's going to need the old Red Cross treatment. Stick it in a jiffy bag and send it off to your local Speccy repair man for major surgery.

💡 My poor old Spectrum has lost its voice and I miss it — help.
M Owenn, Dyfed.

💡: Try replacing the loudspeaker with a 1 inch diameter speaker of about 8 ohms. If that doesn't work try

replacing the diodes — or get a hearing aid! Good luck.

💡 I've got two Spectrums, an Interface 1, microdrives, printer interface and monitor connected up. A wonderful system you might think. Yes, but I'm getting a very noisy picture — can you help me?
Brian Davies, Aldershot.

💡: Well, with all that lot connected up I'd say you need a better power supply. Your best bet would be to take the video connection from the modulator input and cut the track to the edge connector. This'd reduce the noise from the peripherals. Even better, put it through a 1000 uf capacitor as an additional filter.

💡 I'd like to connect my Spectrum to a monitor that requires a composite video signal but how on earth do you do it?
D Shotten, Belmont.

💡: This is actually covered in *Your Spectrum 3* but for those who can't get their hands on a copy, here's how you do it! Connect the inner wire to pin 15B (underside counting from slot side) and the outer wire to pin 14B of the edge connector. If you've got an issue 1 or 2 machine, connect up the two solder spots marked 'VID' with a piece of wire inside the Spectrum first.

💡 Help Help Help! I can't use the 'P' and 'Q' keys on my Spectrum when my Alphacom printer is connected.
Chris Oliver, Staffs.

💡: Seems to me, Chris, that the printer is overloading the data line D0. I'd send it back to get it looked at.

💡 Ummmm . . . er . . . I've a slight problem . . . yer see. Well . . . it was like this. I took my tape recorder to pieces because I was having loading problems, and yes, I did know how to put it back together, but I lost the screws. I had a bright idea and super-glued it back together again but it still didn't work! I then bought a new recorder and it works fine on my friend's BBC but, you guessed it, it doesn't work with my ZX Spectrum. Help!
Pete Taffs, Luton.

💡: Oh dear Pete, what *have* you done? Since you've checked everything inside the Spectrum there's unlikely

HARD FACTS

Does your hardware give you a bad case of heartburn? For fast action relief, Stephen Adams is your man . . .

to be a fault there but have you checked the tape leads to the Spectrum? Also don't forget to leave the Mic lead out when loading and if all else fails try reading Melbourne House's *Spectrum Hardware Manual* by Adrian Dickens, price £6.95, as it contains some useful circuit diagrams. And to think Pete advises other Speccy owners every Saturday in a shop!

💡 How do I get A4 (80 characters) listing from my Interface 1 and how do I count the lines?
G Saunders, Hertford

💡: The only way that I can think of, off the top of my head you understand, is to print the program to the screen (using PEEK in program area). Then use SCREEN\$ to look at the line on the screen and LPRINT the resulting characters, counting them as you go.
When you reach 80 Chr\$

or an Enter character send Chr\$(13) to print a new line. You'll have to convert the line number's first two bytes to a four digit number. Any Chr\$(14) encountered indicates you skip the next five bytes. Counting the lines will be easy as you can make a note as each Chr\$(13) is issued to the printer.

💡 What limitations are there on the number and type of peripherals that can be attached to my Spectrum?
Jim Grimwood, London.

💡: The limits on the Speccy's expansion port are roughly 300 ma on the 9 volt power supply and a max of two devices to pick up address and data lines. You'll need a larger power supply and a buffered motherboard if you want to add more — I don't know of any commercial supplier of these. Does anyone out there know better?

💡 My ZX printer spits out blank paper, though it still line feeds, and it won't stop until I pull the plug. What's wrong?
John Swan, Edinburgh.

💡: It sounds as though the printer's writing okay but is having trouble reading its status, that is whether it's busy or not. Check the read connection and make sure the writing stylus is poking out of the printer slot as this could be causing the problem. If that doesn't work go see a specialist.

💡 I would like to use a home-built AY-3-8910 sound chip to imitate the Fuller sound box. How do I do it?
Mark Robertson.

💡: The addresses are Control port 95, data port 63. The clock frequency is between 1 and 2 MHz and can be generated from a stable 555 IC. Hope all that helps.

💡 How can I print things which normally go to the screen to the printer without changing the print statements?
Carl Howes, Eastbourne.

💡: Well Carl, you can either COPY all the screen at various points in the program or change channel 2 to channel 3 (LPRINT instead of PRINT). If you aren't using Interface 1 you can do this by POKEing 23743,80. POKEing 23743,83 will restore printing to the screen.

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Last month good ol' YS brought you a preview of *Rasputin* in the shape of programmer Paul Hibbard's Storyboard. Now, lo and behold, good ol' new YS brings you a preview of the game in the shape of four playable screens. And, give or take a pixel, it's not unlike the storyboard except for one detail — Paul neglected to mention how @#!* hard it is!

Of course you wouldn't expect it to be easy. Your quest is to destroy the jewel of the Seven Planets which has kept the soul of mad monk Rasputin, the kind of guy gets religion a baaad name, alive. The bauble is hidden away in the dimensions of the netherworld, a sort of supernatural housing estate for assorted nasties, spreading off a main courtyard and linked by spells cast by the Lords of Chaos.

Now this is some task — even for a Super Crusader who closely resembles the knight from the Daily Express's masthead. So, as well as dodging the best selection of oddballs seen this side of Castle Rathbone, there are secondary objectives, such as discovering the Eyes of Heaven spell that'll black Rasputin's evil eyes as well as opening further boxes containing magic to neutralise his power.

Not that sword play is neglected. In many cases it's a good idea to clear a screen of wandering monsters before exploring properly. Be warned though — not only do the greebles return when you re-enter a screen but if you come into contact with them, or take a fall, they'll flock back too. And talking of falls, at some stage you're sure to find that the netherworld is cruising at 60,000 feet and you haven't got a parachute. Luckily the clouds act as lifts and whisk you back at the cost of a life.

Once you've hacked and slashed to obtain unimpeded

progress, make for the boxes with suns on the side. Jumping onto all of them causes a psychedelic display from which emerges a four headed monster (see, I said this was like Castle Rathbone) shooting rays from its eyes. Slay this and you get a new spell to add to your armoury. Then you can move off to seek one of the stones engraved with a letter of Rasputin's name but be warned, getting those makes everything else seem simple!

Rasputin is not an easy game to get into and you'll spend your first few plays just working out what can and cannot be done — as well as what lies behind some of the Seven Planets' more extraordinary masonry (Winner of the Infernal Architects Award 1985). In this respect it's very much like Ultimate's products — never giving anything away. It's also got the same sort of 3D view, though seen from a slightly lower angle which can cause problems. Take good care of the squared floor and how many (audible) footsteps it takes to cross one unit and you should avoid making too many trips down to cloud nine.

So there's an unavoidable Ultimate comparison but before the boys at Firebird send me an ultimatum (Ho, ho), I must say that this is a decided advance, with larger sprites and some very smooth animation. There are some really amusing critturs in there, as well as some maddening nuisances plus the truly malevolent presence of the villain.

All that jumping may remind you of platform games but here the landscape is solid and incredibly well realised. Just as the dimensions of the netherworld spread from the central, circular highway the game has great depths. This one could take months to solve — it's certainly not for the faint-hearted. But most of you now have the opportunity to test your mettle against the infamous mad monk, and if the challenge of these four screens whets your appetite then rush out and buy the complete game because it's ten times as large and contains a whole host of nasty traps that'll test your timing to the limit!

RASPUTIN

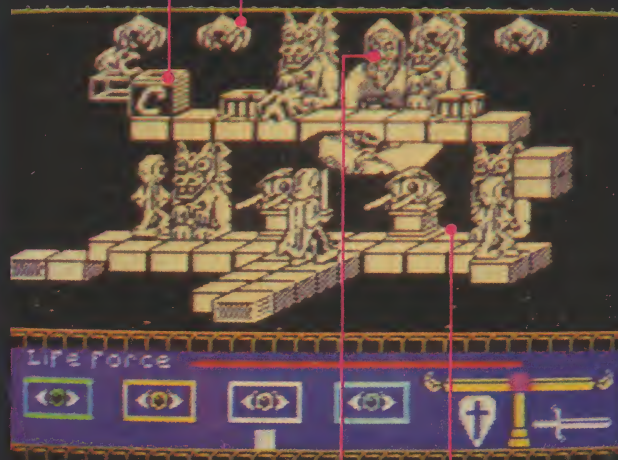
Starry, Starry

KNIGHT

Last month, you saw the storyboard. This month, you've played the demo version. Now it's time to read the full review! Rachael Smith rights the wrongs of the mad Russian monk in Firebird's hot new megagame, *Rasputin*.

At long last, the aim of the quest. That's the third letter of Ras the Russian's name and all you have to do (all?) is get up there and you're an eighth of the way to a set and success.

Ah, Horace vs The Spiders — one of my favourites. Down come the webby wonders, just where you want to be standing, so unless you fancy an eight legged toupee, beware!



Let's hear it for the man you love to hate. Rah — rah — rah-spu-tin! Yes, this is the monk you must destroy. Doesn't it fill you with confidence to know he's watching you?

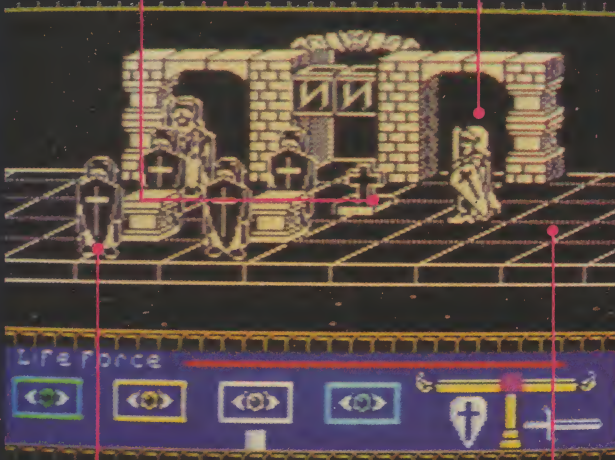
Talk about looking daggers. Approach these eyes and the lids open to shoot bolts of lightning which blast you back to the start. See a good optician for the spell to neutralise them.



Fax Box
 Game..... **Rasputin**
 Publisher..... **Firebird**
 Price..... **£7.95**
 Joystick..... **Kempston, Interface II, Cursor**
 Keys..... **Turn Left/Right — Q/W; Walk — O; Jump — P;**

1
Old soldiers never die — they leave neat little graves instead. And as contact's still deadly it's better to avoid combat altogether when you can.

2
It's the caped crusader! Control is by the (love it/hate it) turn clockwise or vice versa. That takes some getting used to before he walks the way you want. And fighting really calls for careful timing if you're to slip in the fatal thrust.

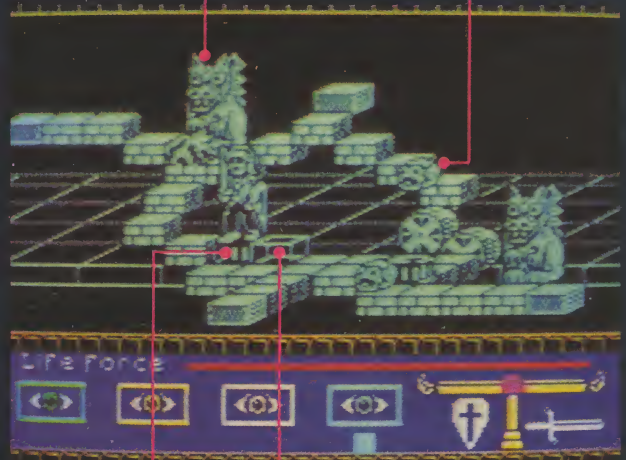


Call out the guard. Take advantage of their initial state of suspended animation because pretty soon they'll be marching up and down and indulging in a little swordplay — with you as target.

The netherworld's main street is neatly paved, but those parallel lines also help you steer a course through all the obstacles. Don't fall off the edge though.

3
These goggle eyed gargoyles won't remain stony for long. Like all good dragons they've got a breath problem that makes napalm look cool. Note how inconveniently they're placed, making you wait till the heat's off.

They look like big frogs, hop around like fleas and have a grin you won't forget as they cause you to restart the screen and they're rather too short to hit easily at ground level.

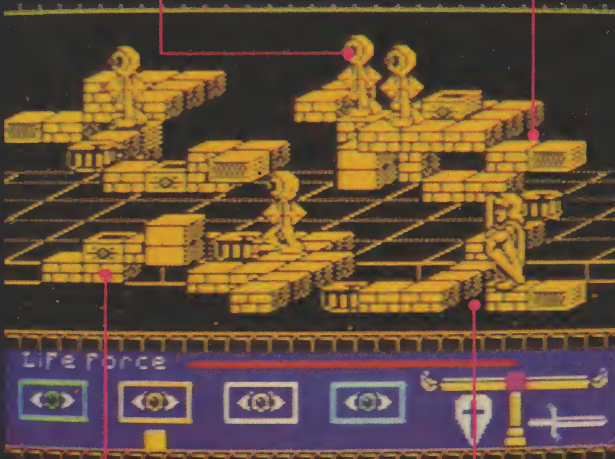


Want to know how a Wham record feels? The turntables move in steps, not smoothly. The secret of jumping off is to wait till you're a quarter turn before your destination then leap.

Ignore this apparently innocuous box at your peril! As if by magic it'll return you to where you entered the screen and at the same time diminish your life force. Frustrating, eh?

4
The toffee apple with the eye is a cyclops, and though he's dumb he'll still diminish your life force if he collides with you in his aimless wanders.

5
Nobody gets out of here alive — or at least not easily. Flashing boxes represent exits and even when a screen has five of them like this, it's obvious the inhabitants prefer you to stay.

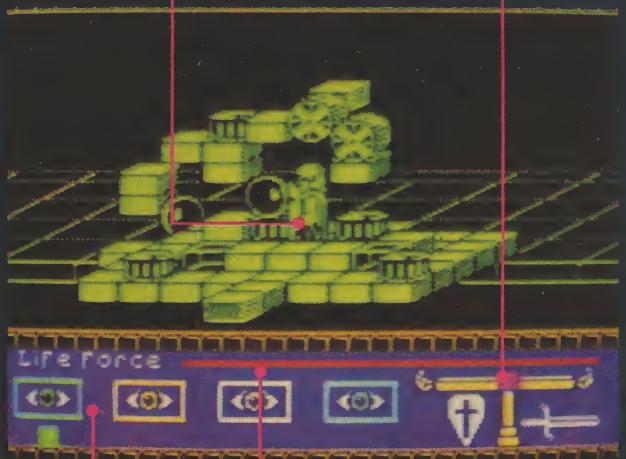


Ladies and gentlemen, an empty box... but like all good magic boxes jumping on them makes things appear — like a monster from the dark side of Rasputin's mind. Kill it for a reward.

Look before you leap. Several screens have a gap immediately after the entrance so never charge straight in. This one's particularly bad — you'll have to perform an extended leap to clear it.

6
Observe the course taken by the nasties. The balls hardly ever slip between the turntables so if you stand here you can swipe them as they conveniently reach sword height.

Your hero's burning the candle at both ends and using shield and sword causes it to gutter (still it keeps the rain off!) Two solutions — find the stones with Rasputin's mark or, more drastically, lose a life.



Hey, four eyes! Yellow, green, white and blue are the colours of the netherworld and the marker beneath the boxes indicates the interior decoration for the dimension.

Think that life line looks long? Well, for every contact with an alien it diminishes quite slowly, but if you fall to the clouds it's cut off even shorter — depending on the size of the drop.

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HACKING AWAY

Wanna POKE a little more fun into your games? Join Chris Wood for the hack of a lifetime as well as a damn good read.

Welcome one and all! As you'll have noticed — wake up at the back — the mag has undergone a metamorphosis... metamorfus... well, it's changed. And the good news is that I now have a whole page to fill with goodies, so keep 'em coming! You never know, if you send in enough, the whole shebang may spill over onto two pages, then three... Today a page, tomorrow the world! (Pass me the sedative please nurse! Ed).

First a confession — last month I made a bit of a boob. I know, I know, doesn't sound possible but there it is. The program that I claimed was for Monty Mole was, in fact, for Mutant Monty. Dunno how I missed that as I was the one who hacked Monty Mole back in Your Spectrum 15. Ah well, on with the show!

NIGHTSHADE

Yes, I know our very own Dave Nicholls — do you want your very own Dave Nicholls, yours for a few bob, guvnor — hacked this when he reviewed it but Mick Davey from somewhere in London has sent in a few extra POKES:

```
10 LOAD "" CODE: LOAD ""
   CODE: LOAD "" CODE
20 POKE 23453,201: PRINT
   USR 23424
30 REM PUT POKES HERE
40 REM AND HERE
50 REM AND HERE
60 POKE 23453,33: LOAD ""
   CODE: LOAD "" CODE
70 PRINT USR 23453
```

And here are the POKES that'll fill out lines 30, 40 and 50: POKE 52665,33: POKE 52668,52 for infinite lives POKE 49228,20 to run fast all the time POKE 52900,0: POKE 52901,0: POKE 52902 to see the final screen when you die.

Now put in all or some of them as you choose. Mick tells me that if you put in

the 'run fast' POKE you should avoid picking up the winged boots as you'll then revert to normal speed. And it's not much cop if you put in the first and last POKES — the final one won't work 'cos you now can't die!

ALIEN 8

For an indestructible Alien 8 POKE 43735,201. For those without Your Spectrum 14, (shame on you!) add line 22 POKE 50085,167 : POKE 50084,178. This allows you to touch anything without dying — yippee!

Finally, T Smyth of Minehead can't get Alien 8 to run with his XP memory expansion fitted. Sorry old chap Ultimate do some very peculiar 'OUT' instructions when they're reading the keyboard which clashes with the XP. You'll just have to remove it to play the game, unless, of course, anybody out there knows of any POKES to remedy this.

FAIRLIGHT

What's this you're saying? Another ginormous listing for Fairlight. Didn't we have one of those last month? A touch of the old *deja vu*? Well, yes but since then Bo Jangeborg, the programmer, has added the Kempston joystick option to the game and consequently moved parts of the program about. To overcome the problem I fed the new version into the Hacking Computer in the back room and good ol' ZZKJ spat out another version. Ninety per cent of it's the same so if you typed in last month's, you've done most of the grind already.

On top of this, ZZ has added a few POKES sent in by Edmund Baby of Staines that'll stop the screen going blank each time you enter a new location. Now you'll be able to see how Bo's graphics program, Grax, draws the screens. The 6 in line 350 is the new attribute for the screen and you can

change it if you like. For those of you with the new version of the game, wind the tape past the anti-piracy message (and no, this program won't help the pirates) before running the program.

```
1 REM FAIRLIGHT POKEIN
  G PROG
2 REM MODIFIED FOR FAI
  RLIGHT2
10 LET T=0: FOR N=18000
  TO 18175: READ A: LET T=
  T+A: POKE N,A: NEXT N: RE
  AD A: IF T<>A THEN PRINT
  "CHECKSUM ERROR": STOP
20 FOR N=20000 TO 1E9:
  READ A: IF A<999 THEN PO
  KE N,A: NEXT N
30 RANDOMIZE USR 18000
100 DATA 221,33,203,92,1
  7,93,5,62,255,55,205,86,5
  ,48,241,6
110 DATA 20,33,130,94,24
  3,49,0,91,205,195,70,33,8
  6,96,17,21
120 DATA 209,1,153,1,237
  ,176,33,40,209,17,40,145,
  1,19,1,237
130 DATA 176,235,54,201,
  6,9,38,145,17,186,70,26,1
  11,203,182,19
140 DATA 16,249,205,40,1
  45,33,174,210,6,120,62,12
  ,50,176,92,205
150 DATA 195,70,62,195,5
  0,198,220,33,181,70,34,19
  9,220,62,55,50
160 DATA 233,218,195,223
  ,218,237,176,195,32,78,14
  1,197,200,221
170 DATA 224,229,232,235
  ,247,197,229,62,32,237,17
  7,182,242,197,70,35,209,2
  37
180 DATA 82,235,66,75,17
  ,246,70,237,176,229,235,5
  4,237,35,54,95
190 DATA 35,54,201,205,2
  38,70,50,239,70,225,193,1
  6,214,201,62
200 DATA 58,61,61,230,12
  7,237,79,184,146,147,129,
  129,236,244,225,247,208,2
  2697
320 DATA 175,50,197,241:
  REM Infinite Lives
330 DATA 62,24,50,77,245
  : REM No More Weight Limi
  t
340 DATA 62,24,50,246,24
  7: REM No More Locked Do
  ors
350 DATA 62,62,50,189,22
  9,33,6,0,34,190,229: REM
  See Room draw
400 DATA 201,999: REM Da
  ta End Marker
```

JET SET WILLY II

Aarrgg! They said it couldn't be done. No man, no hacker could do it! Until now. Yes, Peter Faas from the Netherlands armed with a soldering iron and an armadillo has come up with

a new POKE for JSWII. The POKES we supplied for infinite lives meant several of you were in grave danger of going batty because you couldn't turn the music off. Well, Peter has sent in a new improved POKE (gasp) — gor blimey he'll be after my job next!

For blissful silence whilst playing this game change line 90, in the small hacking program, and line 100, in the large program, (both in Your Spectrum 18) to read:

DATA 62,195,50,22,122

Silence really is golden! Oh, and while I'm on the subject of JSWII it appears that some of you, namely P Villars of Essex, R Whitehead of Londonderry and Stephen Dove of Stone, are having problems with the large program. Well, you'll notice, or you should do, that after each block of data each feature has a REMark above it — if you don't want that particular feature don't type in it. When you've decided what you want, wind the tape past the first bit of Basic in JSWII before running and playing it.

For those of you who haven't fathomed how to use the Room Finder program — it's easy. When you Run the first program put a blank cassette in before entering your pass code and press Record. You'll see a bit of on-screen activity followed by a block of code and then the Speccy will reset itself as the program has been destroyed in producing the block of code. Type in the second program, Run it and play the block of code you've just saved. It will then print out the rooms, their numbers and the numbers of rooms they exit to. Change LPRINT to PRINT in line 50 if you don't have a printer and want it to go to the screen.

KOKOTONI WILF

Charles Smith from Girdle Toll (where?) has sent in this piece of code for invincibility against the nasties in the Softaid re-release.

```
10 POKE 23693,4: CLEAR
  24100: LOAD "" CODE
20 LOAD "" CODE:
  RANDOMIZE USR 65100:
  LOAD "" CODE
30 POKE 28929,8: POKE
  28934,8: POKE 28939,8
40 RANDOMIZE USR 41712
```

Lots of programs nowadays are MERGE proof and that makes putting the POKES in

14, RATHBONE PLACE, LONDON W1P1DE

a little difficult, as you have to make false headers. Chris Pile from Plymouth has provided a program which will Load in a Basic program and Save it out again tame — in other words it won't Auto-run.

```

1 REM DE-MERGE & SAVE
10 CLEAR : FOR n=23296
TO 23357: READ a: POKE n,
a: NEXT n
20 PRINT AT 10,10;"LOAD
BASIC"
30 RANDOMIZE USR 23296
40 DATA 62,3,50,54,91,2
05,32,91,58,62,91,167,192
,33,0,128,34,75,91,175,50
,54,91,211,254,62,254,219
,254,31,56,249,17,17,0,22
1,33,62,91,175,205,53,91,
237,91,73,91,221,33,168,9
7,62,255,24,3,195,194,4,5
5,195,86,5

```

The program ignores CODE and will only work if you feed in Basic. Play your program and then use a blank tape to Record. Press the Caps/Shift key to save the tame version of the program.

MANIC MINER

Whoops! Robert Hioms has sent in some corrections to the infinite air supply for Bug Byte's Manic Miner. These are:

```

POKE 34798,0
POKE 34799,0
POKE 34800,0

```

Not only that, G Reynolds of Nottingham also noticed that the second three POKEs (Your Spectrum 18) stop the light beam in the solar power generator from decreasing your oxygen. Now you can escape from Amoebatron's revenge cavern.

BOULDERDASH

Having trouble with Boulderdash? Never fear Martin Cleaver of Hull is here with a routine for infinite lives (what else?)

First wait until the second screen has loaded before stopping the tape and pulling the plug on your Speccy. Type in this natty piece of programming, run it and restart the tape.

```

10 FOR N=50000 TO
50022:READ A:POKE
N,A: NEXT N
20 DATA 243,17,51,91,221,
33,0,94,62,255,55
30 DATA 205,86,5,243,62,
52,50,32,121,195,183,
124
40 RANDOMIZE USR 50000

```

Martin says he's not sure whether this will work on the Rockford's Riot/Boulderdash re-release but if it doesn't you know where to send your POKEs don't you?

TASK FORCE

Now's your chance to join the programmers' task force, headed up by Ian Hoare. He's counted all his small routines out and now he's counting them all back in again ...

Calling all programming geniuses everywhere — here's the page for you! Oh okay, you don't have to be a genius but you'll still find a good few things that'll add that extra zap to your programming. And I hope very much that it won't be too long before you see some of your programming hints'n'tips in these pages too — this is your chance to beam out your brainwaves to all your fellow YS readers. Plus, if you have any programming problems, this is where to turn to for help. Together we'll form the biggest task force in the country!

To launch you on the way, I'll start off with a few nifty snippets that took hours to work out but ...

Well, you know the sort of thing — like this input routine that prints a message on the bottom of the screen and waits for a keypress. Just one keypress mind you. Type it in and try it out.

```

10 REM **** INPUT ROUTI
NE ****
15 PRINT JO;AT O,0;M$
20 IF INKEY$="" THEN G
O TO 20
25 LET I$=INKEY$
30 IF INKEY$<>"" THEN
GO TO 30
35 RETURN

```

What's that? You know a better way? Great — write and tell me all about it.

While we're looking at input, just take a butchers at this and try to work out what it does. But don't type it in just yet.

```

40 REM **** ???? ROUTIN
E ****
45 LET ER=(VAL I$<IMIN
OR VAL I$>IMAX): RETURN

```

Have you cracked it yet? Nope! Well, don't look at me — you're just gonna have to find out for yourself!

And now for something completely different. I often want to find the address of a particular memory area. Problem is, all those addresses are hidden in two bytes. This makes it hard to see where the program starts just by looking at the contents of the system variables. In fact, any whole number between 0 and 65535 can be stored in just two bytes. So this helps you recreate the number again.

Stick this at the start of each program you write.

```

10 DEF FN P(X)=PEEK X+2
56*PEEK (X+1): DEF FN H(Y
)=INT (Y/256): DEF FN L(Y
)=Y-256*FN H(Y)

```

The FN h and FN l will split any number up to 65535 into the two bytes that you'd look for in FN p. Got it?

Now for a very useful snippet from a YS reader who lives in London, Kevin Cooke. A problem you may have experienced when using string arrays is that wasted spaces appear at the end. The best way to get round this is by storing the string's length in an extra character at the start. Use these lines to set up the string element:

```

10 REM CREATE STRING LE
NGTH INDICATOR
20 INPUT B$
30 LET B=LEN B$
40 LET B$=CHR$(B)+B$
50 LET A$(N)=B$

```

In these lines A\$() is the array you've manipulating and N is the element in the array you want to fill. When you want to print the string, use this line:

```

60 PRINT A$(N,2 TO CODE
A$(N,1)+1)

```

A very clever bloke, that Kevin!

One problem you may have come across when writing machine code is passing information to the code routine. It's dead easy — when you know how! You can put the information into a string variable and search for it from the code. It's impossible to do any serious machine code programming without an assembler, so I'll give the assembler mnemonics for a routine that'll search for a particular variable — in this case q\$. It'll end with HL pointing at the first byte of the string and with BC containing the length of the string. I use the excellent Picturesque Assembler, but please don't feel obliged to do the same! I've used the convention for

describing decimal and hex numbers. Decimal numbers appear as normal, hex numbers are followed by 'H' and, if starting with a letter, are preceded by 'O'. Thus 255 (FF hex) appears as 'OFFH'.

```

0000 ORG 40000
0005 STR EQU 81 (q is
17th letter,64+17=81)
0010 NEXT1 EQU 19B8H
0015 VARS EQU 23627
0020 START LD HL,(VARS)
0025 LOOP LD A,(HL)
0030 CP 80H
0035 JR NZ,OK
0040 RST 8
0045 DEFB 1
0050 OK CP STR
0055 JR Z,GOTIT
0060 CALL NEXT1
0065 EX HL,DE
0070 JR LOOP

```

Now you can process the information in q\$ any way you want.

Use this little subroutine to perk up your printing for, say, pounds and pence. Go on, type it in and then call it with various values of 'money'.

```

10 LET IV=(INT (MONEY*1
00+.5)/100): LET V$=STR$
IV
20 IF V$(1)="" THEN L
ET V$="0"+V$
30 LET VL=LEN V$-LEN ST
R$ INT IV
40 LET V$=V$+"."+(VL+1
TO ): RETURN

```

Now you can print a whole series of numbers aligned by the decimal point — just like you have to do when you're dealing with cash.

```

50 PRINT TAB (10-LEN V$
);"£";V$

```

Now a plea from across the water. Martin Fitzpatrick from Cork in Ireland asks if there's a way that text sent to the screen can easily be diverted to the printer without duplicating every line. Well, Martin, simply set a variable like, let me think, p and make it equal to 2. Then on every PRINT command use this formula:

```
PRINT #p;"your message"
```

Now, when you want to print on the printer simply set p equal to 3. Nifty eh? But perhaps you've got a better solution? Well, you know where to send it.

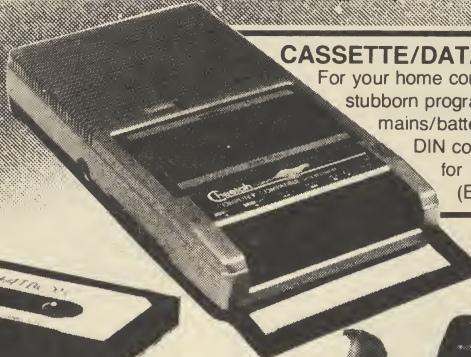
Right, that's it for this month. Now, you know the task that you've been set — to send in all your fave programming bits 'n' pieces. There's no point in sitting on all your short sharp sub-routines when you could send them out into the world to make your name in YS.

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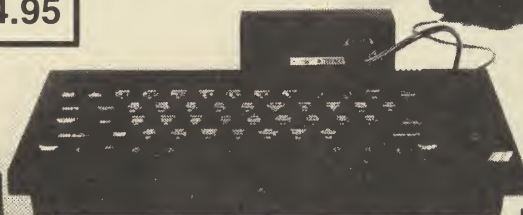
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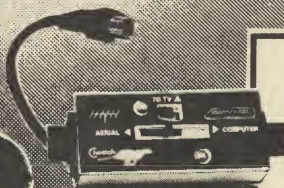
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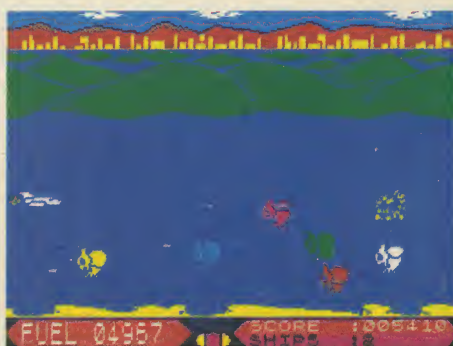
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SCREEN SHOTS

Get a grip on your joystick 'cos here come this month's great games. But first meet the team that's battled against the best and waggled with the worst — Rick Robson, Rachael Smith, Steve Malone, Sue Denham and Alison Hjul. Shoot...

BUCCANEER



Insight/£7.95

Rick I haven't a buccan clue what is going on. It's a curious mish-mash of a jet fighter and space ship whizz-bang shoot 'em up arcade. This really is a cheapy in fairly expensive wolf's clothing. Your Buccaneer has up and down but no lateral movement during the early screens and a very slow fire response. But don't worry, the aliens are so moronic that often you can stay where you are and top 'em as they queue up. The

quicker you blast, the quicker you move through the remarkably similar screens. Even the most amateur of arcaders will have been this way before.

The Buccaneer is all but redundant as a modern day fighting plane — as is this game compared to many excellent alternatives.

Graphics	□□□□□□□□	4
Playability	□□□□□□□□	
Value for Money	□□□□□□□□	
Addictiveness	□□□□□□□□	

THOT SHOTAU-CETI

CRL/£9.95

Sue Don't expect to sit down and play this game within a few minutes. The cassette inlay card contains so much information that you'd be best advised to transfer all the relevant key data down on to a separate piece of paper and display it above the screen while playing.

The plot is complex in the extreme, but here's the gist of it. You have to land a small space craft on a robot-run planet and shut down its fusion reactor — and all of this must be completed in the time limit shown on-screen! On board the craft you have a variety of lasers, defensive shields, missiles,

flares, infra-red sights, scanners, computers and so on — all of which are at your command... if you can find the right key at the right time, that is!

The screen's just as confusing, with windows for all the data you need as you descend to the planet. But each window holds necessary details of your mission if you want to come out alive — again, a careful read of the instructions is necessary. Use of the computer is extremely helpful once you've landed the space craft — and there are 20 commands you can use to carry out various tasks within the reactor that'll destroy it.

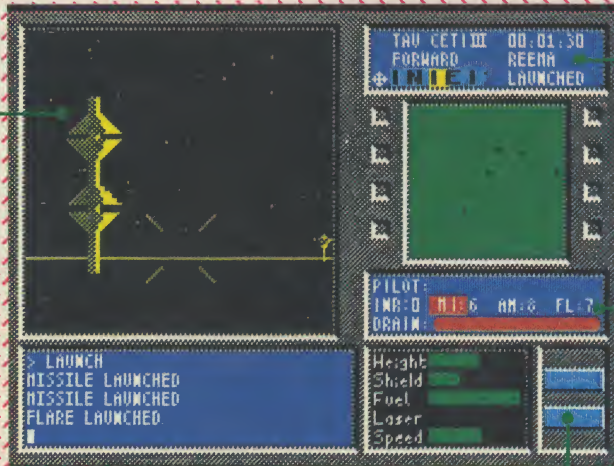
Tau-Ceti is a game of great

complexity, but one that is rewarding once you figure out exactly what you're meant to be doing. The graphics are well done, and the action's very impressive on-screen. It does take an hour or so to really sort out any playing tactics... but maybe this is testament to the game's addictiveness.

And if you don't fancy sitting down for hours at a time in front of a red-hot Spectrum, you can always save the half-finished game and finish it later. Can't say fatter than that, can you?

Graphics	□□□□□□□□	9
Playability	□□□□□□□□	
Value for Money	□□□□□□□□	
Addictiveness	□□□□□□□□	

This is the action area of your instrument panel — here you see out of the space craft's cockpit on to the planet's surface. If you call up the ship's built-in computer, this area then becomes a VDU screen providing graphical representations of the answers to your questions.



Here you will find a compass, a real-time clock, an indicator of the city you are in, and a message telling you the state of your space craft.

These block graphics represent the two ADFs (automatic direction finding computers) you have at your disposal. One helps direct you to the city, the other helps you find your space craft again once you have shut down the fusion reactor.



You only have a limited amount of missile/laser power, and your armoury is shown for you here so that you can keep track of what weapons you haven't used yet.

This is the scanner screen — showing just how much trouble you've managed to get into.

This is where you type in commands to the ship's computer and receive messages as to the status of your space craft.

Using block graphics, you can see very clearly your height, shield power, fuel, laser power and speed.

DISCS OF DEATH

Artic/£6.95

Rachael After ditching their Terminal Tapes and crashing the Morbid Microdrives the contestants settled on Fatal Floppies, a game played by dodging the deadly discs of the title. Sound easy? The only problem is that you're standing on tiny platforms, so room to manoeuvre is limited to a step on either side.

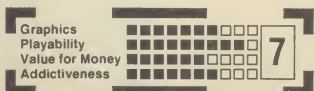
It seems this somewhat surreal space duel is based on the movie *Tron*. It's certainly different from your average sport simulation, taking place in a checkerboard stadium obviously designed by Dali. Luckily, the computer takes care of your jumping so there's no slipping into space, but apart from that you're on your own. The rest of the memory has obviously gone to playability and providing a mean opponent. If you have time during all this frantic frisbee action try to pick up tips from his behaviour, firing off a volley of discs then jumping to one side while you're busy using your rapidly diminishing shield or taking evasive action.

A bit of strategy is called for to make sure all your discs aren't in



the air when you need them, but basically this is a test of reactions and moves so fast it's easy to get drawn in. It's just a disappointment that the third screen is like the first, only faster and with a guided disc that locks onto you bringing the game to a quick conclusion. And wrap your ears round the superb robotic soundtrack.

I was hooked for a time but I can't see myself returning often. If only there could have been a true player vs player option instead of just you and me against the micro. A trifle overpriced? Perhaps.



I, OF THE MASK

Electric Dreams/£9.95

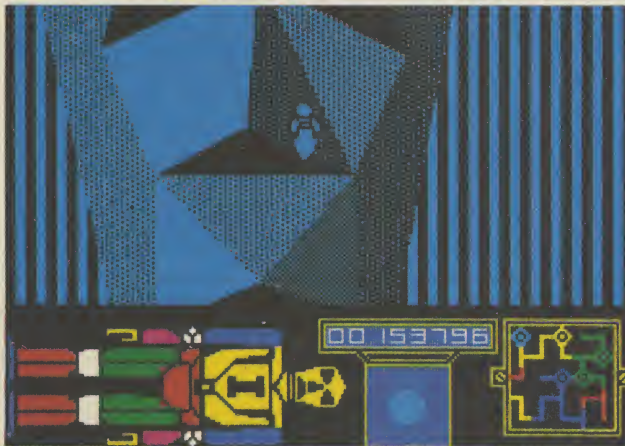
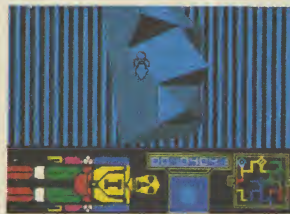
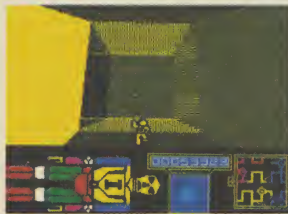
Alison Seb Coe's got nothing on our hero as he hurtles around a labyrinth of psychedelic corridors in breathless pursuit of bits of a dismembered robot's cadaver.

No, it's not a space-age Frankenstein travesty, but an above average maze game, embellished with stunning 3D

graphics.

A megalomaniac robot has been dismembered by world rulers to curb its yearning for universal power. As the hero of the piece, your aim is to flee the maze and become I, Of The Mask, by collecting the robot bits and reassembling this hapless heap of metal.

Battling against a remorseless



clock, you must head for the three crystals blocking the entrance to each of the maze's 32 universes. But, once you find the crystals, there's no time off for good behaviour. Using the laser on the front of your jet-suit, you must zap the crystal to activate it.

But don't panic and fritter away your ammo on any old crystal, 'cos each has its own function.

One will beam you to another part of the maze, one will transport you to the entrance of a nearby universe and the other will reveal a robot part, which must be zapped three times to render it harmless. This done, your score rockets, leaving you oodles of time to pursue your mission.

But, take heed! The robot must be collected in the correct order — from feet to Mask. If you collect the wrong bit at the wrong time, you'll lose a life. A pretty nerdy thing to do since you've only got three to play around with. But, still, it's worth risking one life just to give yourself a little more time.

I, Of The Mask takes a bit of getting into but, once you've got the hang of it, you'll be hooked. And don't waste time gawping at Sandy White's amazing 3D graphics — time's in short supply!



TOMAHAWK

Digital Integration/£9.95

Rachael It's been a long time since *Fighter Pilot* — the revolutionary flight simulator from Digital Integration that revived a whole genre by giving the opportunity of killing things. Well now it's the turn of the helicopter pilot to take off from the comfort of his own living room and keep the Western World free from whichever menace owns the bases, tanks, guns and other choppers that take pot shots at you.

Ignoring the militarism for a moment, this is a real treat for those of you who've only ever flown Cessnas with your Spectrum before. You won't believe how hi-tech the helicopter of today is. What with the chips that keep the nose level and the ones that tell you where the next target is, flying time before you arrive, when the pubs open . . . well, there's the equivalent of a couple of ZX81s here making flying a doddle.

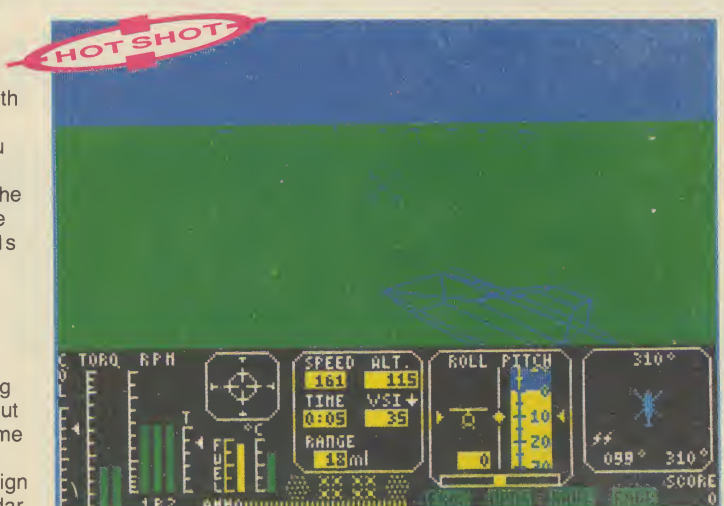
I really enjoyed road-testing this machine, swooping low around the smooth 3D vector graphics of the landscape, clipping the tree tops, swerving among the mountain peaks. But Uncle Sam has a mission for me so it's out of practice mode, a quick look at the map, and I align my heading with the target radar

dot — just time to check up on the combat mode before we encounter Ivan!

It should come as no surprise that you've hardly been short changed on weaponry. I was spoilt for choice between guns and missiles but finally plumped for a rocket to take out their field gun. After all, I could hardly keep them waiting while I hovered around making up my mind! Tilt nose down, target and fire. A satisfying explosion blows them into a thousand pixels and it's onto the next base. Of course I was on Trainee rating, flying

without crosswinds, by day, but one day it'll be a force nine gale with only infra-red sights and then I'll deserve the Ace rating. Clint Eastwood, watch out.

Yes, it looks like D.I. has done it again — I got a real kick out of *Tomahawk*. My only quibble was the Lenslock security system that it's using. It's like something dreamt up by the MoD to protect official secrets, and I'm sure *Tomahawk* isn't that accurate!





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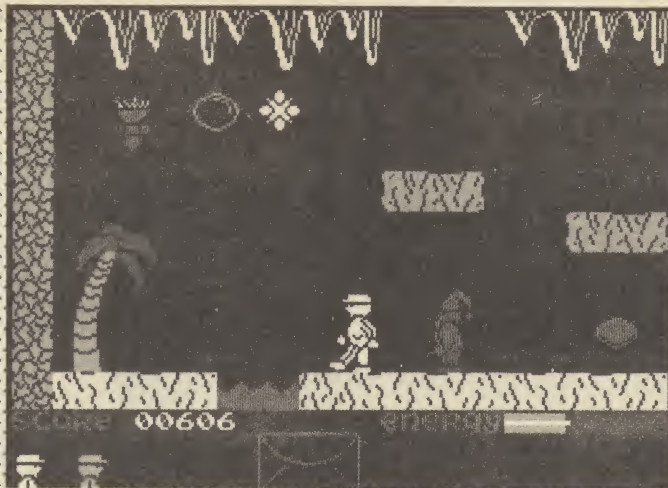
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ROBOT MESSIAH



Alphabetum

Sue Reliable information from *Robot Messiah's* creators let me in on the fact that there are three stages to this game.

Unfortunately, intense investigation has only led to finding two stages — but what stages they are!

First sight of the game and it became apparent that *Jet Set Willy* and the *Ultimate* series of games were the major inspiration. But that's not such a bad thing, especially when you see what the programmers have done to improve the on-screen graphics. In true *Ultimate* style, the nasties — a *Prisoner*-like bubble, flashing stars and blinking eyes — appear out of the ether and follow set patterns around the screen, hoping to drain your energy. You do have a weapon that can destroy the nasties, but don't bother trying to use it or the 'mad professor' sprite — just run for your life!

You play the part of Sid, who looks like a character straight out of pigeon fanciers club — all cloth cap and the like. His task is to leap around the various platforms on-screen in search of three computer programs that he must carry back to a computer terminal. Sid is a splendid sprite, but the true joy is when he jumps — it's by far the best movement



on-screen that's been seen yet on the Spectrum.

You can pick up various objects to help you with your mission, but only three can be held at any one time. Of the two stages seen — you travel between stage one and two in a car — both are similar in content — you leap around the gaily patterned platforms, picking up 'food', searching for the computer programs and keeping a wary eye out for the nasties.

Play is easy — you can boot up *Robot Messiah* and have fun

straight away. The storyline has been kept to a minimum and is largely irrelevant, which means you don't have to keep referring to the cassette inlay card everytime you want to do something.

Overall, *Robot Messiah* is a great game — with colourful and clear graphics, superb on-screen movement and a goodly selection of caverns to map out.



SPACE FIREBIRDS

Insight/£7.95

Rachael No relation to either *Firebird Software* (unless it's a by-product of *Don't Buy This*) nor *Star Birds*, this is a recreation of an old arcade machine. A very competent recreation — but also a very old machine.

And it came to pass that *Space Invaders* begat *Galaxians* and *Galaxians* sort of begat *Space Firebirds*, who swoop around in various Red Arrows style flight patterns, dropping what the instructions say are bombs, though we all know what birds usually drop!

For protection your titchy little ship has got an umbrella... no, a cannon and a faulty warp which operates once only as and when it feels like it, wiping out everything you encounter in your race for the top. So you blast away at the birds shoot out the odd mega-bomb for bonus points, and finally take multiple pot-shots at the big red bird that swoops in at the end. All of which is so simple on the two easier levels that you'll soon be in a High Score Table that took umbrage to my name and crashed. The two higher levels are for speed freaks only!

So, the high scorers will love it, as will nostalgia buffs, and even I'd play it for a hour or two of brainless pleasure but for one thing — £7.95 is an awful lot of ten pees down the arcade. At this price it's strictly for the birds!



ZOOT

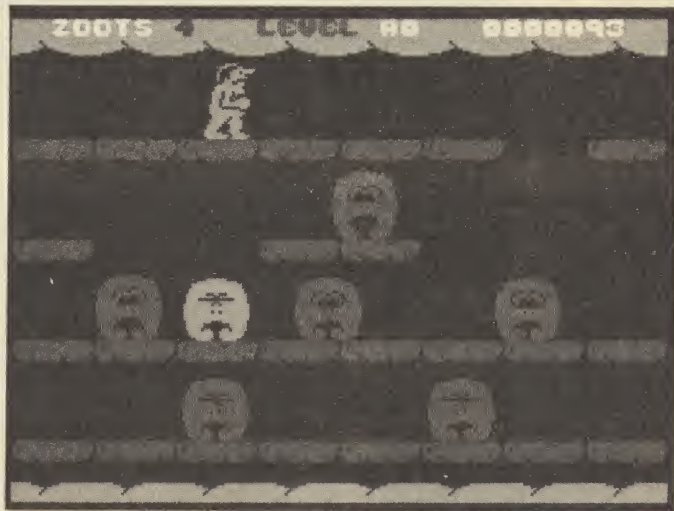
Bug-Byte/£2.95

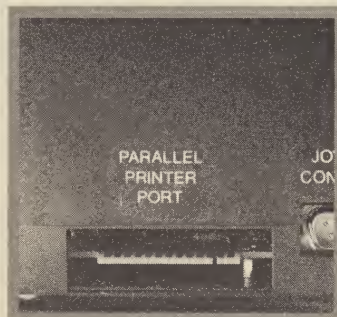
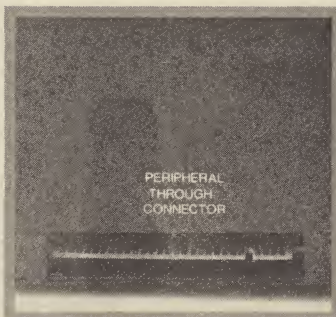
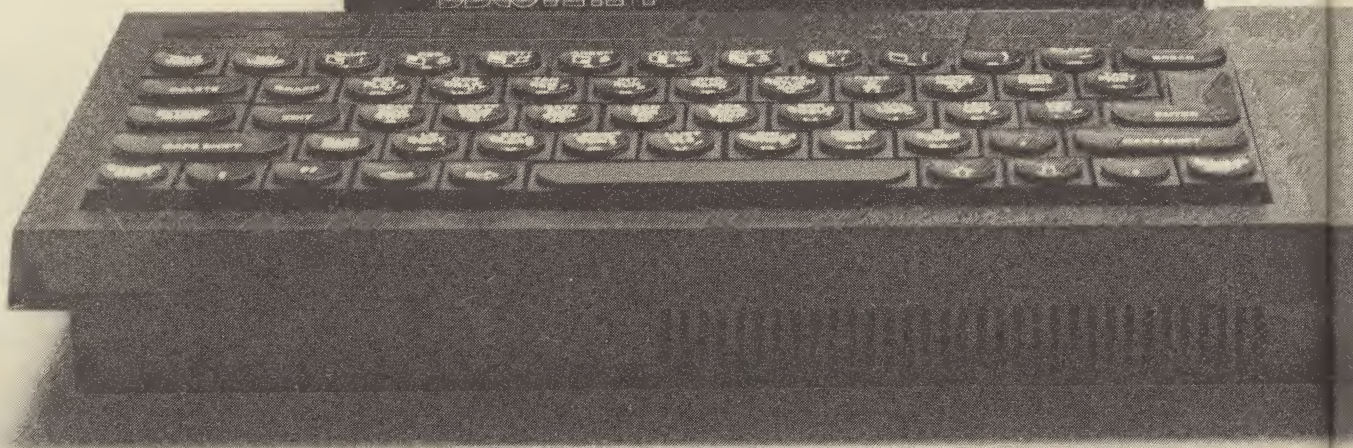
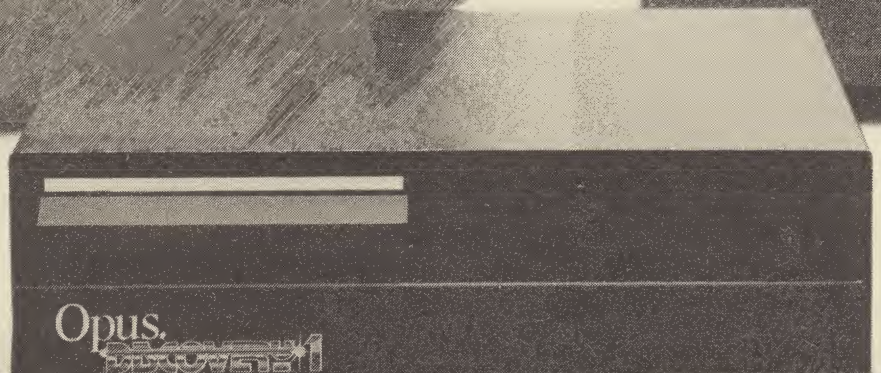
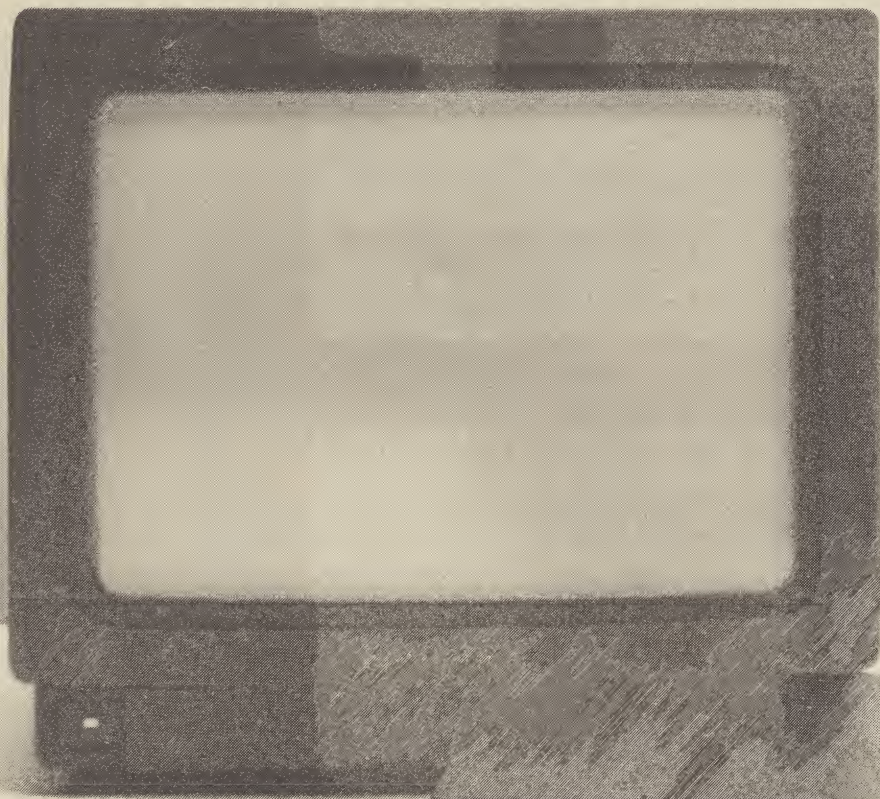
Sue Zoot's an ugly little sprite. But he's a darling compared to the horrors that he finds in the sewers on his search for his missing marbles(!).

With four lives, Zoot starts off punching out his opponents — a selection of ghoulies and ghosties with silly names — but, on the second screen, he has to trap each of the ghosts on a separate ledge. Points are awarded throughout the game but it's the missing marbles that Zoot is really after. It's all very confusing, and extremely frustrating... but it does have you screaming for more.

The program boasts 234 screens, but you'll be lucky to get past the fourth — so you may never find out if the company is making exaggerated claims or not!

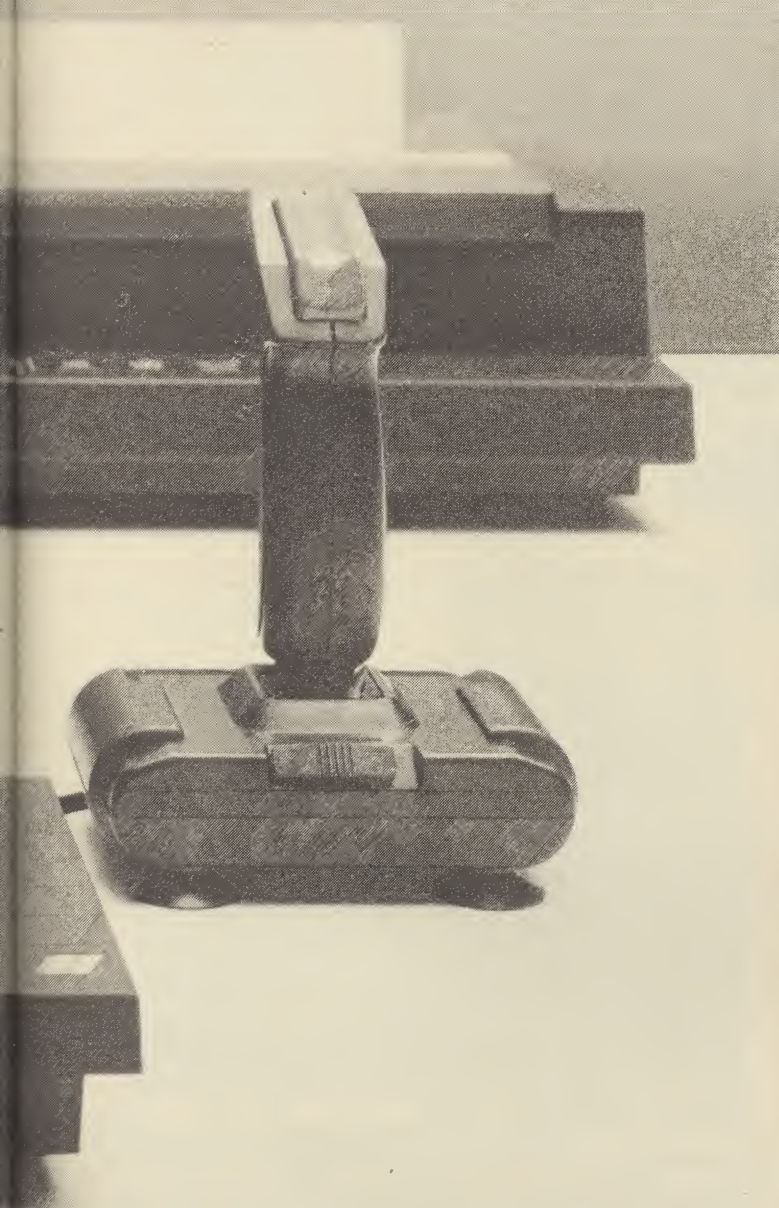
Zoot is a very simple platform game — but one that's very addictive and a lot of fun. Shame it's made much too confusing by introducing a silly plot-line that really has little to do with the on-screen action.





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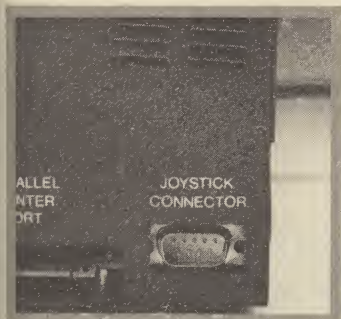
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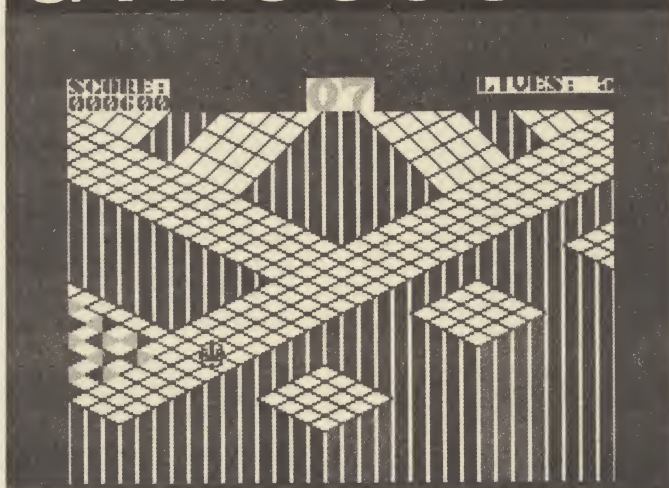
Alison If you get your kicks from those fairground rides that have you reaching for the nearest brown paper bag, then Melbourne House has got a treat for you. 'Cos, with *Gyroscope*, those nauseous thrills have been transported to your Speccy.

It all sounds very easy — guide a giddy gyrating gyroscope across 20 screens — just five courses of four screens.

But don't be fooled! The gyro's got a will of its own and you'll need to be quick witted if you'll need to stop it falling off an edge or hitting an alien, while manoeuvring steep slopes, slippery glass or directional magnets. Gulp! Pass that paper bag ...

In fact, I really thought I had it

GYROSCOPE



cracked after belting through the first course, but it's all downhill — literally! — after that. Shame you can't pick a course at random to get a bit of practice on those stickier screens.

Melbourne House says a surprise awaits at the end of the game— getting to the end of the game would be surprise enough for me!

Gyroscope, with its stunning 3D graphics will have you hooked — especially if you're a devotee of *Marbles Madness*, its arcade twin. But remember to keep a bottle of aspirin by your side ...

Graphics	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	8
Playability	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Value for Money	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Addictiveness	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	

THE SHADOW OF THE UNICORN

Mikro-Gen/£14.95

Steve Pssst! Hey, kid, wanna buy a game? Not any old game, you understand — this one gives you a fancy set of fins that bolt on the back of your Spectrum. That not only means a whole lot more to splash around in — but a joystick port as well!

But what of the game? *Shadow of the Unicorn* is an arcade adventure, rather in the vein of the excellent *Lords of Midnight*. The goal is to rescue the lords of Orfal and Falan from evil.

Of course, baddies abound in the game and each character has different powers to deal with the assorted nasties. The ones that you're most likely to meet in the early stages are small hideously misshapen dwarves. These are easily zapped by the magician, but for the likes of Gau the best strategy is to leg it.

There's a mountain more to this game — and many a player will spend happy hours wandering across the extra 16Ks of peaks and deserts.

Graphics	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	7
Playability	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Value for Money	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Addictiveness	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	

VECTRON

Insight/£7.95

Sue Insight's *Vectron*'s not a game for the faint-hearted. I'd only recommend it to those of you with fingers that move like lightning and whose quick reactions haven't been dulled by playing too many adventure games.

Inside a massive computer, you control a fighting machine and it's your task to manoeuvre around a maze of corridors, blasting plasma bolts at the various nasties you find there. Movement around the corridors is conducted at a terrifying pace — it's an exhausting process lining up one of the enemy Randomizers or Tanx in your on-screen sights in time to blast it to smithereens. More likely, you'll find that you've bumped the fighting machine into a wall at the end of the corridor and you're careering off in the opposite direction!

To help you, there's the option to view the whole affair from

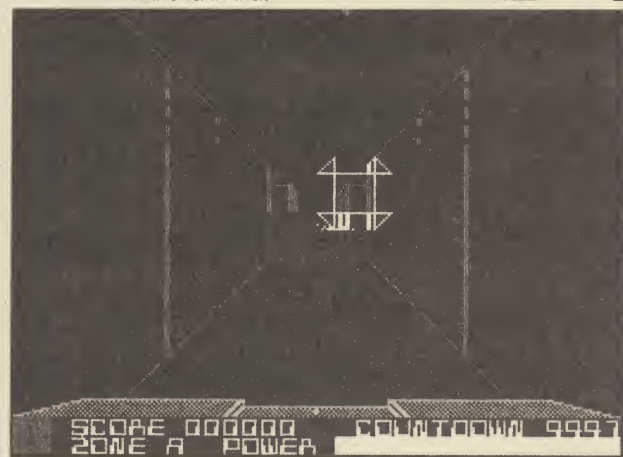
above — by pressing one of the keys from the 'B' key to the Space bar — but this can be just as confusing as you can see the on-screen map from above superimposed over the view out of your fighting machine. The map depicts the Randomizers in red, the Tanx in magenta, the energy units in cyan, and your fighting machine in white — and try taking that lot in when you're shooting around the maze at what seems much faster than any sensible speed limit! The idea is that once you get near to one of the enemy, you quickly switch to the normal screen and zap them with your plasma blasters.

For those with the faith that

you can get past the first stage — by destroying all the alien nasties — there are three more stages that look just as tricky as the first, especially if you have an aversion to killer robots, fireballs and all sorts of other traumas.

Overall, a great idea for a game, but it may prove to be just a little bit difficult to play. Still, if you reckon yourself as a hot arcade games player, *Vectron* might be the one you've been waiting for — if this doesn't keep you quiet trying to finish all four stages, then nothing will!

Graphics	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	6
Playability	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Value for Money	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Addictiveness	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	



ONE MAN & HIS DROID

Mastertronic/£1.99

Steve Fancy a job as an intergalactic shepherd? — this is your game. Just round up the Ramboids and drive them into a teleport. But you've only got twenty minutes to complete this tricky task. As you probably know, Rambos, sorry! Ramboids — are particularly stupid animals and you'll need megapersuasion to make them behave. Old hands at Mastertronic games will know that the plot often bears little resemblance to the surreal puzzle that sits on your TV screen, but, heck, they're great fun.

For starters your droid has to struggle through a horde of advancing Ramboids. It's a bit like driving the wrong way down a rush hour one-way street!

Any flush of success from scrapping your way to the teleport chamber is soon dissipated by the mediocrity of making the critter behave. Only for those with a quiet temperament

Graphics	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	6
Playability	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Value for Money	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	
Addictiveness	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	

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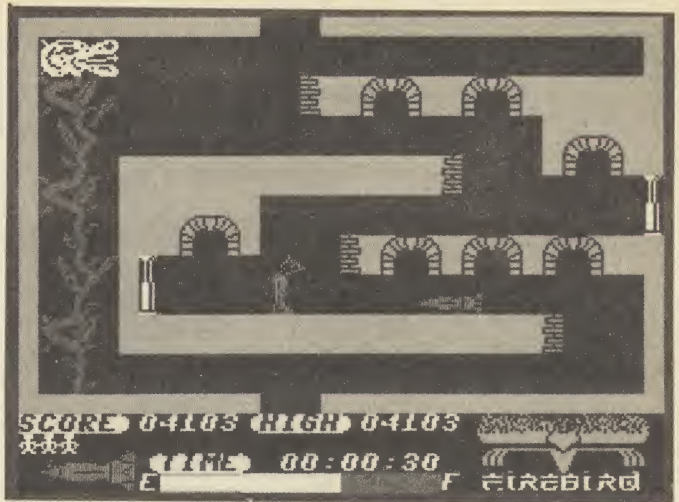
Rick Thunderbirds are Go! But not in the form Firebird (any relation?) have naughtily notched up in a lazy maze based on the puppet show that had no strings attached. Of course, I'm not old enough to remember the original, but the Ed tells me they've got the logo, the music and even Thunderbird One taking off from under the pool dead right. But after that it wouldn't raise a F.A.B from Parker, m'lady.

Back on earth Thunderbirds 1 and 2, flown by Scott and Virgil, have to rescue two Egyptologists trapped beneath a pyramid with air running out. Both ships have to be flown in concert around the maze to rescue the asphyxiated archeologists — using the loaded gear to overcome obstacles or pick up treasure.

The maze is made trickier by different blocks dropping fore and aft of your access. Instead of making the game more interesting, though, they basically slow the whole thing down.



SHOTS

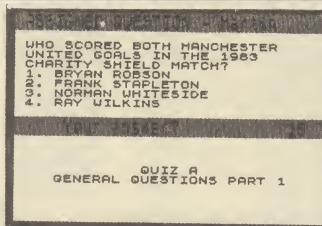


ROTHMANS FOOTBALL QUIZ

Cassell/£8.95

Rick How can it fail? With a picture of Reidy on the box, this game's bound for glory! But can even this compensate for all our resistance to quiz computer games? On the other hand, until the Beeb does a deal this might be the nearest you'll get to soccer on a TV screen.

The loading screen doesn't help the image of dumb footballers by having them totally faceless. Is it just coincidence they're all in quasi Arsenal strip? But of course the pleasure of games like this isn't in the power of the pixels or the groovy graphics. This really is a game for football freaks... and there are still some of us out here you know. Mind you, there's enough quiz thrill in-built to keep the non-Association aficionados



interested.

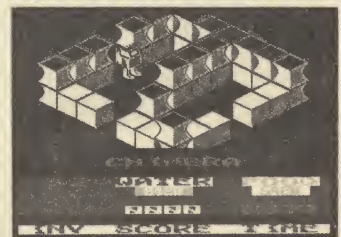
There are four quiz options. Assigned questions, three in a row, the race and the full quiz combining all elements. There's also a bonus system — so much barmy key bashing can go on. But be sure you've the correct answers. Ten points deducted for an own goal if you get it wrong!

The print is clear and the response-swift, explanations full — and they'll often include clues

to the more arcane questions. Answers are multiple choice so intelligent guessing can count for a lot. The only minor quibble is the program is so long you can waste a lot of time on the re-wind button desperately seeking soccer questions on one of the eighteen available subjects. These are pleasantly varied — from League (Scottish and English) through to European and World and even Non-League. The emphasis is on contemporary soccer, not a lot of stuff pre-'80. What it won't tell you is who are the eleven players whose surnames ending in 'y' played for England between '67 and '81...



CHIMERA



Firebird/£3.99

Steve Your first puzzle in this game is to decipher the instructions. What d'you reckon this means? "Each priming mechanism requires the completion of a multistage disablement of Artifacts (DDA) sequence." So, now you know, eh! Luckily, you'll find more comprehensible blurb once the game starts.

And quite a game it is too! It's along the lines of *Alien 8*, both in appearance and gameplay. You control a little robot that wanders around the three dimensional objects in each of the rooms collecting useful items as he goes. You'll also have to steer well clear of the more awkward rooms where the nasties are holed up. There's radiation in them there rooms!

If you should fall foul of the radioactivity your food and drink supply starts to dry up — and carrying objects has the same effect. You can read all about it on your status message line. Luckily, there are extra supplies of grub for you to pick up, dotted around the maze.

Chimera looks as attractive as its Ultimate predecessors, though, maybe it's not quite as inventive. The only thing I missed out on was not being able to jump around. But at this price who am I to complain? Go out and buy it — it's a cracker!



ENDURANCE

CRL/£7.95

Rick On yer bikes, you leather lovers → CRL's new motorcycling simulation is a beaut for bikers with brains. It's not, as you might think, a high adrenaline arcade but a stolid strategy puzzle — more akin to *Football Manager* than *Pole Position*.

Quite simply (ah! if only it was!) you have to prepare your two superbikes to compete and win a motorcycling endurance race that varies between six and twenty four hours in length. A complete season comprises seven races, all requiring different skills, each with five different levels ranging from trainee to expert. So this is one cunning cassette you won't have sussed in a week.

The real skills are off, not on the track, then. No frantic joystick juggling here, indeed, so swiftly do the Supers zoom by, you'd be hard pressed to see what's going on. But don't worry, race order is shown in front of the grandstand. Then you'll know if you managed the right engine, tune, handling, and tyres.

Variations exist once the race is running. Weather conditions change, accidents happen and pit stops occur through choice or fate.

Although these stops aren't as frantic as the real thing the sight of little men whipping off your wheels or cowling whites away the winter nights.

With no obvious loopholes (though no imaginative leaps either) the game, like the graphics, is functional not thrilling but a solid buy all the same.



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350 LPRINT "
360 LLIST
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- * TOOLKIT-features: Renumber with block move or copy; block DELETE, search and/or change (e.g. ALTER applies TO a). 36 User-defined keys. List the variables, list a procedure, list DEF KEYS.
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- * LISTINGS with optional automatic indentation of loops, IF, procedures etc. Works on existing programs e.g. you can choose to list:
10 FOR n=1 TO 10: PRINT n: NEXT n
as: 10 FOR n=1 TO 10
PRINT n
NEXT n
- * KEYWORDS can all be entered by typing them in full, or by the "single entry" method, or both in the same line; e.g. the line:
10print"hello";if x=1 THEN goto 100 will be recognised and listed normally.
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- * OTHER FEATURES, new or improved, are too many to describe: DO - LOOP structure with WHILE, UNTIL and EXIT IF; BREAK, CLEAR, CLOCK, CONTROL CODES, EDIT variables, ELSE, GET, KEYIN (programs can write themselves!) MULTI-LET, (L)LIST a "slicer", ON (works with line nos, procs, etc.) ON ERROR, OVER 2, POKE strings, POP, READ LINE, TRACE, USING, DPOKE. Faster GOTOs, GOSUBs and FOR-NEXT loops.
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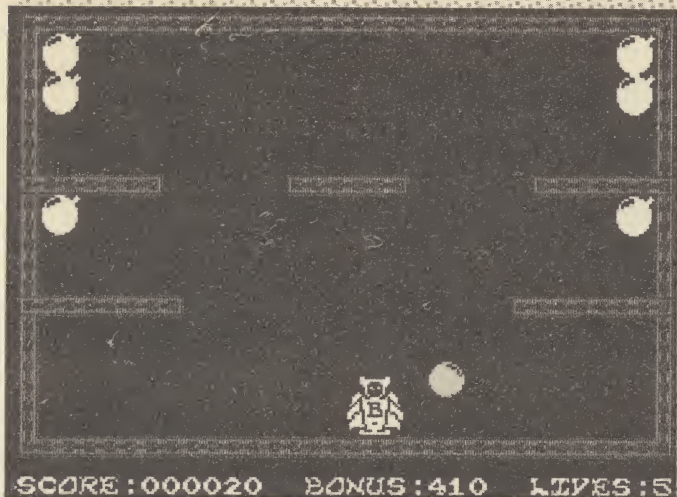
Steve Quick! Captain Kleptor's hidden a whole stack of bombs in the Pentagon, and it's up to our gallant hero to defuse 'em.

The explosive action takes place in one of those a-maze-ing room games that we all know and love — well, I do anyway! You'll find the bombs tucked away in awkward nooks and crannies so get searching. But keep a sharp eye open for the usual collection of sentinels bouncing around, ranging from diamonds to spacemen looking like extras from *JSWII*.

On the face of it, the rooms look a doddle but hang on a sec, there's a slight problem. Our hero, all fogged up in his super-hero suit (A sort of bomber jacket? Ed), has a terrible tendency to bomb around the screen → that's why he's called Bomber! Off he goes crashing into every meenie that moves and a helluva lot that don't. So, Bomber, lovable as he is, needs a firm hand on the joystick.

True, the game contains nothing you won't have seen before but I still found *Bomber Bob* great fun. One to pass a boring afternoon when the bomb drops!

Graphics
Playability
Value for Money
Addictiveness

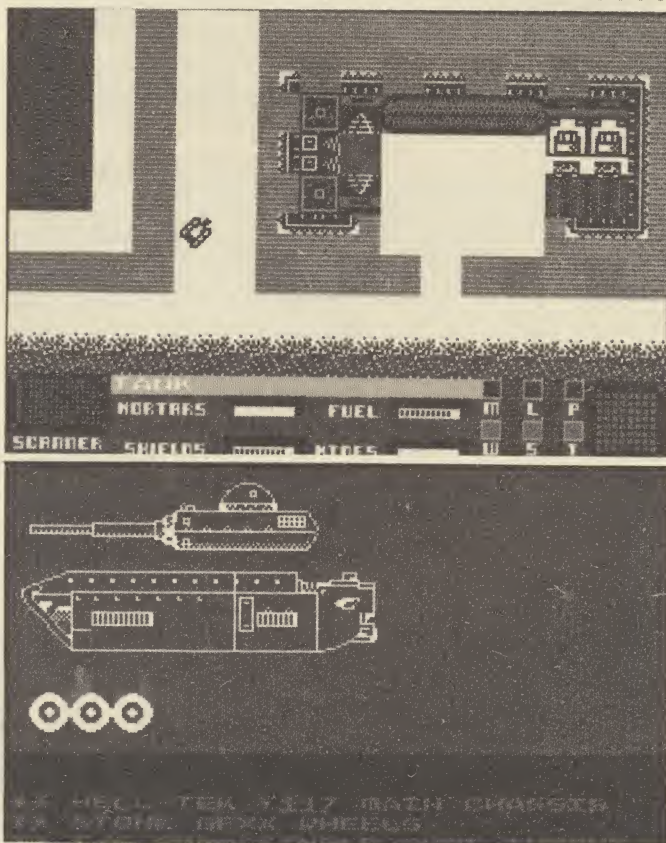


Ariolasoft/£7.95

Rachael I'd like to say tanks for the memory but I can't remember if I've seen this in the arcades or not. It's not the sort of game I'd give my ROM 'ell for, but even if wandering round labyrinthine streets isn't totally a-maze-ing there could be enough nasty shocks to scare the panz off you.

A tank game written by those wacky persons The RamJam Corporation, best known for *Valkyrie 17*, would hardly be expected to clone *Tank Battle*. No namby pamby 3D graphics or planet surface shoot 'em ups for RamJam. Instead a bird's eye view of the holiday island of Panzadrome where happy little two tracks go to blast the scenery, each other ... and just about everything else.

Gunning for a good time you take your Panza out for a spin but compared with the beach bullies you're a mere pansy — a veritable C5 of a vehicle. Still, the island is well equipped with garages just waiting to re-equip you with mortars, mines, mend your shields and replenish your Polycrete, a building material made from dead parrots and used to repair road damage.



Actually procuring the Polycrete is your first aim because until then any enemies you wreck in narrow streets leave uncrossable craters. Run into one at either end of the alley and you're a sitting panther for the dreaded red tanks whose mortars'll make you just another brick in the wall. Never mined (yes, you'll need to collect those too, to leave your own calling cards) if you get to grow up into a big tank you too can hurl shells long range instead of only packing a punch in the clinches. Meanwhile your scanner warns you of impending encounters with the exploding cow pats.

That's not to mention the automatic gun towers, so I won't. After all, if you knew about them it may put you off mapping *Panzadrome*, and until you've done that and found your first garage your game of hide and seek through the narrow streets is distinctly nervy. It's a novel variation on maze games with some simple but neat graphics and lots of destroy.

Graphics
Playability
Value for Money
Addictiveness



XCEL

Program Techniques/£7.95

Steve Ain't it always the same? Every time you go to load up a new game there's someone looking over your shoulder. This time, he said to me wistfully, "You know what I'd really like to see is a souped-up version of *Galaxians*." I'd only been playing *Xcel* for a matter of moments when he started jumping up'n'down yelling, "That's it, that's it!"

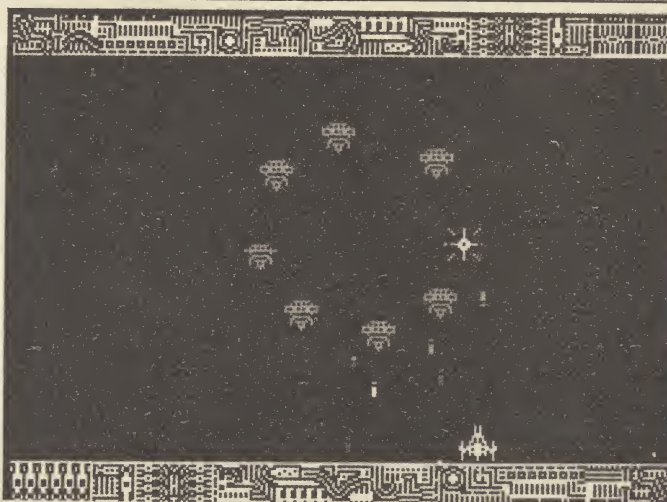
But first the story so far — it

seems that the Sentinels have muscled in on our galaxy and it's your job to muscle 'em back out again by destroying their thirty or so planets.

The game initially looks like an *Elite* clone. There you are orbiting a planet with the option of choosing your next destination. But pressing the fire button sends you off into a *Xaivor*-type game — just dodge the obstacles and shoot the aliens. Okay, I suppose, but it's a bit slow though never fear it's just for openers.

Next comes the bit when my mate had to be sedated. And for once the programmer's taken trouble over movements and formations. He's taken his cue from all those old westerns — the aliens form up into a circle. Tricky!

The graphics didn't quite live up to their original promise but

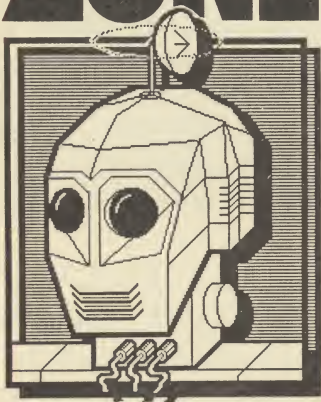


you won't have time to take in the scenery as you're locked into a life-and-death shoot'em up! A treat for arcade addicts.

Graphics
Playability
Value for Money
Addictiveness



HACK FREE ZONE



We had the technology. We rebuilt him. Now we're regretting it. Hex Loader, the six billion dollar computer generated whizz with an ego to match is back with all your hints'n'tips for fast, hack free action.

Buzzzzzz... Click! Errr. Hi There! Bzzzt. Ppppttt. Toing! Ouch! Hi There! God, I hate waking up, don't you? I'm in a good mood today. No, really I am. Pete has fixed my plug and my circuits are buzzing with life — not to mention my mailbox buzzing with mail. Y'know, its people like you who make a young computer generated columnist like me very happy.

Hey, how d'you like the new spread? Puh-retty bozzy, huh? I told you, my little potato, that I could wind dear old Ed round my little tentacle, and so here I am. Ta-dah! The Big Time!

Gosh. What's this? Do my optical pickups deceive me? (Give 'em a quick polish, Pete, there's a good lad.) A letter from **Keith Gronneberg** of Scalloway, Shetland. (Y'know that I'm a bit of a young Scalloway m'self) He says "I've completed *Fairlight* — I think! I found the key, which I presumed

was for the Castle gate, and walked into the gate. I was then told that I'd failed in my quest, the Wizard is free, the quest continues in *A Trail of Darkness (Fairlight II* presumably). The man from The Edge told me I *could* be successful in my quest, so I must battle on.

"Anyway, here are some tips to help others get at least as far as I've got. (Hopefully no further!)

Collect the two stoppered bottles mentioned in the article *Gothic Horrors, Your Spectrum 20*, but don't use them to increase your life force as it says there — you cannot complete the game without them. Take the Crown standing on the top of the pillared doorway over the drawbridge. In the caved area, using the crown, you should find a secret room. Here you'll find the dead King and a book *The Book of Light*? Oh no, this is a very clever deception. Slide the body off the platform. The platform is divided in three, slide off the nearest section from right to left and jump inside. You fall into a room containing the real *Book of Light*!"

What happens next? Hah! You'll have to wait till next time to find out. Oh yes you will! (Oh no we won't) Look here mate, this isn't a school Panto, you'll wait when I say so.

Bryan Charlewood (aka *Harry the Halfling*) sent me this note about *Avalon*.

"**Jerry Tattum's** letter *Your Spectrum 19* was virtually useless to newcomers to *Avalon*, so I've sent you these tips.

"To find the Cup (chalice) go to the *Goblin Warrens* and find the unopenable door. Use the *Open* spell from under the sack in the mines, and enter. Take the *Reveal* spell from the skeleton's ribs and open the right hand door. Use the *Reveal* spell to find the Cup. It's in the middle of the wall around the top.

"Next the sword *Caliburn*. Find the lady's picture on the *Labyrinth Level* (from the spell *Message*) then go to the door on her left then on to the *Scorpion* room. Missile it, and use the find spell from the same level."

Voila! (pro. Waller!)

Now, Yours Unpokingly (shouldn't that be *POKE*lessly?) **Matthew Davies** of *Blackpool, Lancs.*

"I have just one tip for *Mikro-Gen's Dummy Run*. To get to *Lost and Found*,

get the tennis racket and go into the room on the 4th Floor. You must play like *Breakout* and get all the blocks away then the *Glove* will drop. Then go to the 1st Floor and get to the *Glove* room, jump at the middle of the door and you're in *Lost and Found*!" *Voila!! "I haven't managed to switch on the elevator yet." Any clues, you guys? Or gels — no sexism in this column.*

Yours skilfully (!) Jonathon Leach of *Sidmouth, Devon* has this to say about *PSS's The Covenant*.

"I completed this great game on the 8th of July..." *What kept you? "... after three days of solid playing. I was rewarded with a box of goodies from PSS worth fifty quid, for being the second person to complete the game. Here goes with my tips:*

Number one: Use the *Save* facility.

Number two: Practice makes perfect when controlling the globe.

Number three: Energy points that look a bit like shining lamps drain away your energy, whilst energy points that look like round canisters on four legs replenish your energy.

Just for the record, I scored 65464 points. The scroll when complete reads 'Then and now, All as one, Xaviours task, Will be done.' Once completed I was met with the message 'Xaviour Triumphs!'"

Wait! Hold everything! Nobody move! You sent me your tips, and you told me your Hi-scores... but you didn't send me a piccy of yourself. If you had, you could be one of Hex's Heroes. If having your name in print isn't enough for you, then this could be your chance to plant your mush on my illustrious column. There's something big brewing and I'm not telling you what it is... yet. Stay tuned. Ok, you can carry on reading now. Fffffrrrr, zzt!

Okay, all you carbon based folks out there, get weaving. I want to see your name on the *Hex's Heroes Chart* (the only chart that matters!) next month. Type, write, telex, carrier pigeon, message in a bottle (Yo-yo-yo), paper aeroplane, I don't care. I want your hints'n'tips! You know my address. There's no time to lose. Be in on the biggest pool of arcade intelligence since... the Pacific Ocean!

I'm waiting.

(Click! Bzzzzzzzzzzzzzzzzzz...)

LOADS MORE HEX!

Now's the time to switch on to Hex. But if he's to be switched on again next month, you're gonna have to send him your arcade tricks'n' tactics. Okay, so he'll probably pass them off as all his own work but he is a megastar. Write to him at **Hack Free Zone, Your Sinclair, 14 Rathbone Place, London W1P 1DE.**

HEX'S HEROES

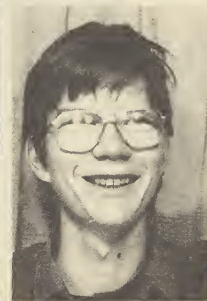
Phhhzztttt... Hi again! Now's the time to introduce my fab fave games players of the month. Firstly we have Scott Donaldson from Hamilton in Scotland. Scott's been working really hard on Frankie. But then he needed to to end up with a score of 83,250! Following Scott, there's weirdo Jonathan Meller (I have a feeling Jonathan would prefer to stay anonymous!), who's been playing Nodes Of Yesod and come up with a score of 39%. Pretty good Jonathan, so why are you too ashamed to flash your fizog? Anyway, last but not least on this list of Hex's Heros is Valetin Kressler from far-off (far out?) Switzerland. Hmmm, do they have electricity over there? Well, Valetin seems to have plugged in, 'cos he's got a score of 198710 in Daley Thompson's Supertest. Well done my little Hexophiles!



Scott Donaldson
Frankie/83250



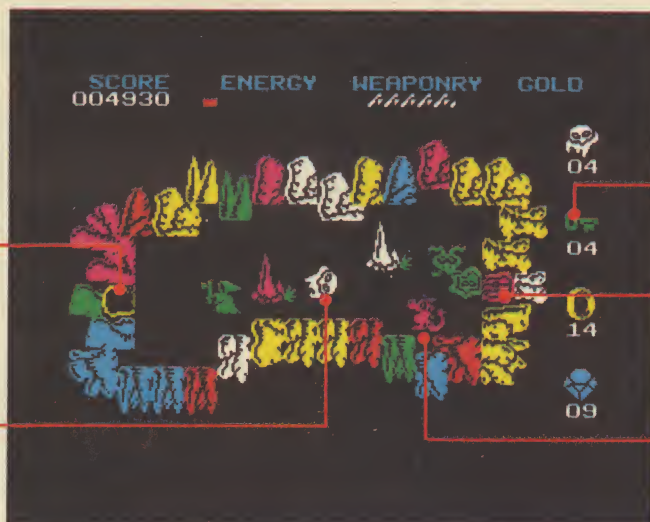
Jonathan Meller
Nodes of Yesod/39%



Valetin Kressler
DT's Supertest/198710

WIZARD'S LAIR

Tips supplied by John O'Connor, Cheshire.



A good ploy when entering a new room is to pause the game right away. This allows you to survey the territory at your leisure, without being hassled. Sneek-key!

Crosses allow you to walk across the snakes without coppin' it. Just make sure you don't get topped before you make it to the snake, as you'll be unprotected. Crikey!

Spell scrolls shouldn't be collected unless you have some gold to transform into 'keys'. Don't waste them. You can always remember where they are and come back to them. Good reason to make a map, eh?

Watch carefully where the animals come from. There may be a secret passage in the room. Some passages may surprise you, by being fronted by fireplaces, and cabinets and the like.

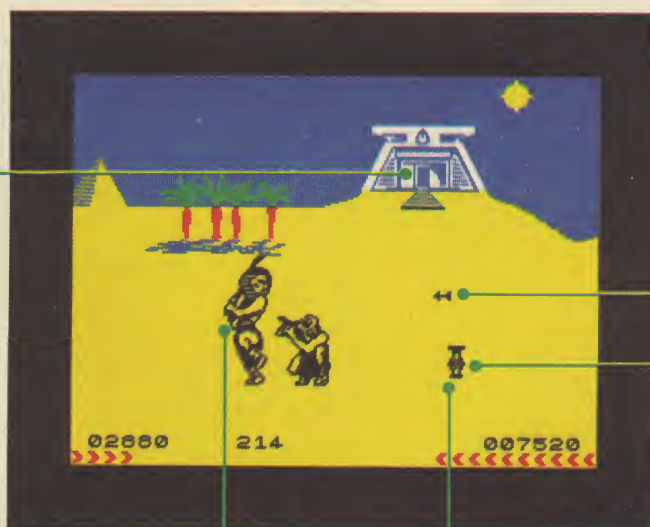
Don't shoot animals — they prevent your energy decreasing. The only exception is the hooded monks, and axe-wielding homicidal knights. They'll kill you with one swipe.

FIGHTING WARRIOR

Hints 'n' tips sent in by Alan Charles of West Yorkshire.

The backgrounds give you a clue as to how far into the game you are. They go like this: start screen, desert, desert, Cleopatra's Needle, desert, desert, Cleopatra's Needle. On the second needle scene, an extra vase appears, bigger than the rest. Strike it and the temple door appears. Once inside you must fight to the death with a winged creature, who's defending the Princess. Make sure you've got lots of stamina though, 'cos every strike *you* make will cost you a point. To release her you must strike her bandages with an upper cut. Then she's all yours.

Always go for the mid-strike when you're attacking the current enemy — it seems to take less time than the other strokes on offer. Yep, it makes your fingers hurt but hang in there. The real key to the game is persistence.



Vases are magic objects in this world. Smash them and you'll get a variety of effects. Numbers two, three, five, six and seven bode well but the others can be bad news. So, keep a count and go for the good ones.

Arrows are a real pain in the neck. And the groin and the knee... But don't bother about 'em too much as they'll only strike once whereas the enemy may get two in while you take avoiding action. The only time this doesn't apply is when you have the protection of a shield spell from vase five. Avoid them at all costs or lose the spell.

If you're having trouble getting to the vase you want, walk backwards until the current vase disappears off the right of the screen and another appears. This'll be the next vase so go for it before the enemy cuts you down. By walking back and forth, you'll make s-i-o-w progress....

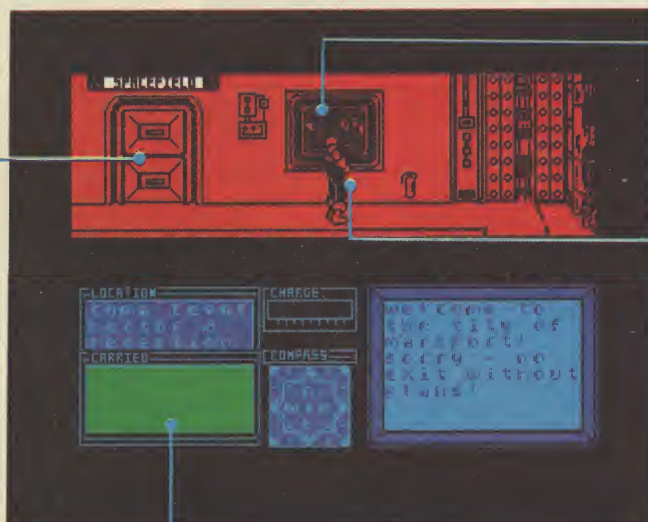
MARSPORT

Intelligence comes from James Winnard, Normanby, Cleveland.

● To open the Bakery, you must put water, flour, and a baking tin into the factor. The resultant cake must then be placed in the key slot. (Urgh!)

When you've cleared the area of Sept Warriors, you can use the auto feature (key 4) to search round for you, saving wear 'n' tear on the old fingertips. Just toggle it off when you come to an interesting doorway, or locker.

It's essential that you arm yourself as soon as possible, unless you're a very fast runner. The Sept Warriors will tear you to bits in two shakes of a tentacle. Get the gun permit out of the supply locker on Elis level, put in the key slot on Daly level, and pick up your gun from the locker to your left. Put it into a charge point to power it up, or you won't get anywhere. Happy Zapping!



To get past the gas bomb, make a gasmask in the factor by putting charcoal and a gauze in it. You may leave the finished gasmask in a locker until you need it.

Pssst! Hey, buddy. If you want a piece of top secret intelligence, the *first* key to M-Central is in the director's room on Alba level. It's not easy to get there, but it's handy to know this in advance.

● Ah, the music room! No tunes here, until you place the comet from the ice cream room into the waiting key slot.

There's never been a better reason
for looking forward to Winter!

WINTER GAMES

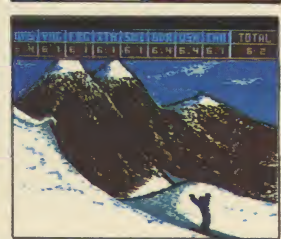


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GHOST IN THE MACHINE

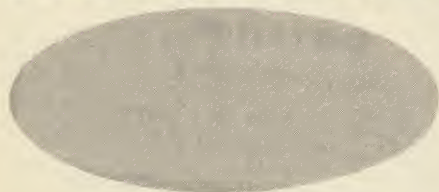


PHOTO: TONY SLEEP



Y S S P E A K E A S Y

What does the name David Crane mean to you? How about Pitfall? Or Space Shuttle? And, of course, there's always Ghostbusters. Alison Hjul was ushered in to his (ghostly) presence to meet the man behind the machine code . . .

David Crane's not your average programmer. Firstly, he doesn't even look like a computer programmer. You know the stereotype — young spotty and scrawny due to devotion to his Speccy beyond the call of nature. Well, Crane's even older than the Ed (gasp!), hairy and very, very big — 6 ft 6" in his trainers.

Secondly, as Activision's foremost 'games designer', he turns his rather large nose up at the 'programmer' tag. Since he joined Activision as a founder member in 1981, more than six million of his titles have been sold worldwide. *Ghostbusters* has notched up over 100,000 UK sales on the Speccy alone.

He paid a fleeting visit to the UK at the end of October, to attend the British launch of his latest creation, *The Little Computer People*, which should be available on the Speccy sometime soon.

Okay, so you're called a 'games designer' — but isn't that just a fancy way of saying you're a programmer?

No, it's not. Anyway, I'm really a 'generalist'. I come up with the ideas, design the game and get involved in the programming. But it's really all down to teamwork. I head a team of technical people who're the best in the industry. A real good game requires good team concept — there's a lot of mutual respect.

Your games are all bestsellers, but how do you suss out what's going to be a megahit?

We play a lot of games as games designers. We know what people are playing today, why they're enjoying them. We must design games people will enjoy a year from now. For example, when the market was flooded with space games, I did *Pitfall*. People obviously wanted it, it's been incredibly successful. Basically, I watch what other people are doing — and try to do something different.

Do you personally research all your games?

When I was doing *Ghostbusters*, I spent a lot of time on research. I got hold of a video of the film and watched parts of it over and over again. Real spooky.

Didn't you get bored with the film?

No, I loved it.

How did you get involved in *Ghostbusters*?

Columbia and Activision approached

one another to see how the film might lend itself to a good computer game. Discussions were underway before I got involved. When I was asked if I'd like to do *Ghostbusters*, I'd just seen the movie the night before so I went back the next day to see it again. I wanted to see how an original game might be designed based on the film.

Who's your favourite character in *Ghostbusters*?

The Marshmallow man . . . no, not really. I don't think I have one — I just like the interaction between all the characters.

Do you believe in ghosts?

I don't actively believe in ghosts, although people have reported seeing them. I think there may be little computer ghosts.

Are you obsessed with little people because you're so tall?

No, it's not because I'm so tall . . . I never really thought of it like that.

About a year ago my research team and I decided that little people inside computers were to blame for unexplained hardware and software performance. We decided to design a comfy environment to entice the little people out. The result was a 2 1/2 storey house where the little people go about their daily business, eating, sleeping, listening to music and playing the piano. Each little person has a name and is slightly different to the next, but all share basic traits such as responding to love and attention — a pat on the head works wonders!

Isn't it all a bit daft?

Heck no. Back in the States there's a woman who bought three extra Commodore 64s just so her whole family could each have their own little person.

Hmmm, buying Commie 64s in the first place sounds a bit daft to me!

Have you got any favourite little person? And is it true that some of them are transvestites?

Well, Wallace and I had a good time, and Zeke baked cookies once. As for the transvestites, I've never met one, but I guess there's all kinds living in these computers.

What are your plans for the future?

Nothing at the moment. I've just finished this one so I'm taking time off at the moment. I tend to limp along and then something suddenly hits me and an idea comes.

Are you a trainspotter?

What's one of them?



RAMBOCOMPO

If only Rambo had the power of speech. Just what is he trying to tell us? If you know, tell us and you could win one of ten snazzy sweatshirts or a copy of his new game. We've got 50 to give away! Read on...

You know it's that time of the year when you wake up and find Jack Frost's autograph on the window pane and icicles hanging from Grandma's nose. When Dad brings out that poor excuse for a Christmas tree and Mum starts complaining that the local newsagent is already selling Cadbury's cream eggs.

Yup, it's winter again, so it's a wonder that shirtless ol' Johnny Rambo here doesn't catch his death. What he needs is a nice warm 100 per cent cotton, mega-thick American sweatshirt with the Ocean logo emblazoned across his left nipple.

Funnily enough, we just happen to have ten of these Rambo-cosies tucked away within the confines of Castle Rathbone. And what's more we're gonna give you lot the chance to win one — that's if we can prise off the five the Ed's wearing. Even if you're not lucky enough to win a stylish winter-warmer, you can still pass the Yuletide hols with one

of the fifty runners-up prizes. You guessed it, they just happen to be copies of the racy *Rambo* game from Ocean. Faberoonies!

All you have to do to get your frost-bitten paws on one of these groovy prizes is come up with a caption most fitting to the posing Sylvester 'bulging biceps' Stallone. Fill in the speech bubble, clip out the coupon (or a photocopy) and send it off to Rambo 'Can-he-say-anything-but-urrgh-anyway?' Compo, *Your Sinclair*, 14 Rathbone Place, London W1P 1DE

RAMBO RULES OK

- Entries should reach us by no later than January 31st 1986.
- Each entry must include your caption written inside the grunt bubble.
- The Editor's decision is final so no correspondence will be entered into — well, he's not much better at writing than Rambo!

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COMMANDO SOLDIER OF FORTUNE

**SPECIAL
PREVIEW**

Simon Forman journeys north to join the Elite where he encounters their crack troops to Commando, the arcade megahit. Under intense interrogation, they crack and reveal all he wants to know. Shoot, Simon . . .

If I had to lay bets on the number one game this Christmas, I'd put the big money on *Commando*. What's more, I don't reckon I'd be out of pocket come the New Year. Just take a look at the form. *Commando* has been the top game in the arcades all this year, way outstripping last year's hot hit, *Track And Field* — and you all know the number ones that spawned. Yep, for all of you looking for some frenzied action on the fire button, this is gonna be the game.

At the start of the game, you're set down behind enemy lines — your mission, to storm the opposition's stronghold single-handed. It's been done in the movies but can you do it in real life? You're just one man faced with the fury and fire-power of a whole army of enemy storm-troopers

WHO DARES WINS

The first part of the game is divided into four sections. Take a look at the map and you'll see the sort of terrain you're up against in each of them.

When — or perhaps that should be if — you make it past the guards, through the trees, round the mortars, in and out of the cliffs, under the bridge to the wall at the end of the first part, you can breathe a sigh of relief — but it'll probably be your last. Within seconds the whole area is swarming with soldiers fired with the single-minded

There are snipers carefully positioned at each of the windows. You can't kill them so your best bet to avoid their bullets is to stay out of range at the bottom of the screen.

To flush out the enemy, lob a couple of grenades through the ground floor windows. That'll get the enemy out into the open where you can deal with them. As soon as you've mopped them all up, you're into the enemy's stronghold.

Once you've made it into the fortress the program takes over. You'll see flames appear from the windows and then your chopper will reappear and take you onto your next, more difficult mission.

Hidden behind the boulders are enemy snipers. When you flush them out they have the sneaky trick of running backwards blasting away with the bullets.

The enemy is everywhere. Steer well clear of the trucks and jeeps as they're packed to the gunnels with soldiers. As soon as you come close, they pile out the back and start the attack.

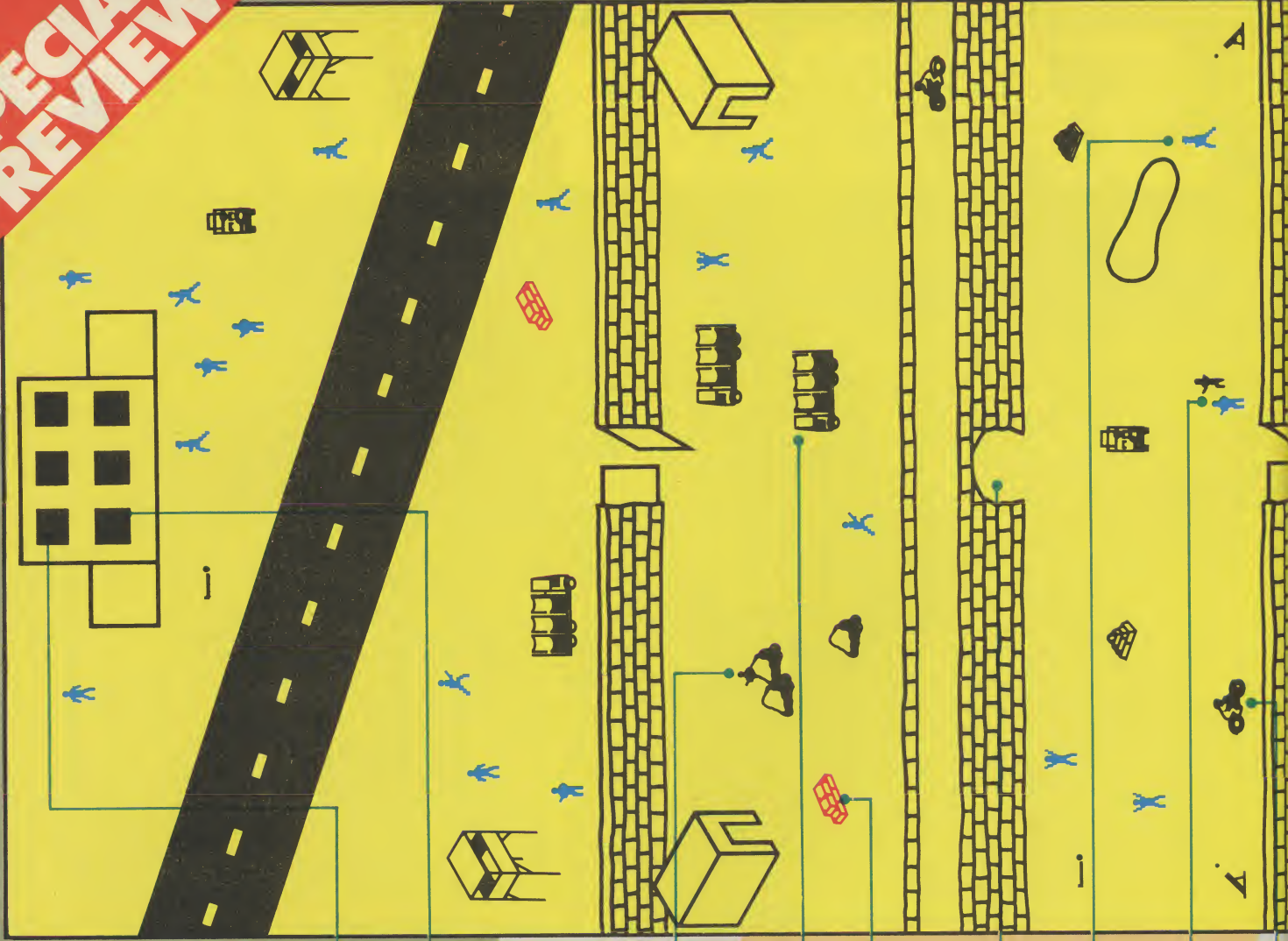
When you've run out of grenades, you're restricted to blasting away with the machine gun. Still, you can replenish your armoury by searching out these strategically placed grenade boxes.

Time your passage under the bridge with great care. You not only have to worry about the machine gun mowing you down but the motorcyclists lob grenades at you from up above.

As soon as you get close to the mortars, you'll find the men manning the guns turn tail and run. But they're not unarmed so you'll have to watch out for more gun fire.

You only have two weapons at your disposal — grenades and a machine gun. You start with only six grenades but fortunately you've unlimited fire power.

Beware the manic motorcyclists. There's no following the highway code on this road. Given the chance they'll run you down.



seconds the whole area is swarming with soldiers fired with the single-minded intention of wiping you off the face of the earth. Only if you kill them, can you take a break on the other side of the wall. But it's not long before you'll be in the thick of it again in the next section.



A bridge too far for Commando

STATE OF SIEGE

Now you've done your impression of Johnny Rambo on the rampage and reached the final frame, it's time to try out some real SAS tactics. Lay siege to the enemy's stronghold, taking care to avoid the snipers, before single-handedly storming the building. As soon as you see the flames shooting out of the windows, you'll know that you've made it as a fully-fledged crack commando.

But although you've won the battle, the war is by no means over. The chopper that dropped you into the thick of the battle at the beginning, now picks you up again — only to deposit you in the middle of more mayhem. The second time around, the landscape is subtly different but the action is even hotter — and that means you'll come face to face with even greater numbers of enemy grenadiers.

DAWN RAID

When I visited Elite's offices in Walsall for a sneak preview of *Commando*, the game was only days away from completion. There was still some doubt about whether the programmers would have enough memory to squeeze in the helicopter. But the rest was more or less there. And the game is as exact a copy of the arcade original as it's possible to get on the Speccy. And so it should be, 'cos the programmers are copying straight from an arcade machine in the office — when they can drag themselves away from playing it!

no following the highway code on this road. Given the chance they'll run you down.

Here's the top brass leading from the back as usual. As soon as you get close to their HQ, the generals make a mad dash for safety. They're not armed but they'll run you down if you get in their way. Kill one and you'll notch up a whacking 2000 points.

These are the cavemen. But there's nothing prehistoric about them — they have all the latest weapons. In fact, they fire off the rounds more quickly than the average foot-soldier, plus they can nip in and out of the caves for protection.

If you're quick you can save a fellow countryman — and gain yourself some extra points. Shoot the guards on either side of the hostage and he'll go free.

There's no shifting the soldiers holed up here. The only way to deal with the enemy in the foxholes is to use your grenades — so make sure you've found a plentiful supply.

It's no good trying to hide behind boulders. The enemy'll soon have you sussed and send in the grenadiers. It only takes one direct hit from a grenade and bang goes another life.

Now the enemy's bringing on the big guns. Luckily, it's not too difficult to dodge the mortar fire provided you don't run slap bang into an ambush elsewhere.

You can't shoot through the sandbags so once again you must dig into your reserves of grenades. If you run out, take extra care.

Keep on the move at all times. The enemy grenades are one hundred per cent accurate so you only have to linger for a moment and you're a gonner.

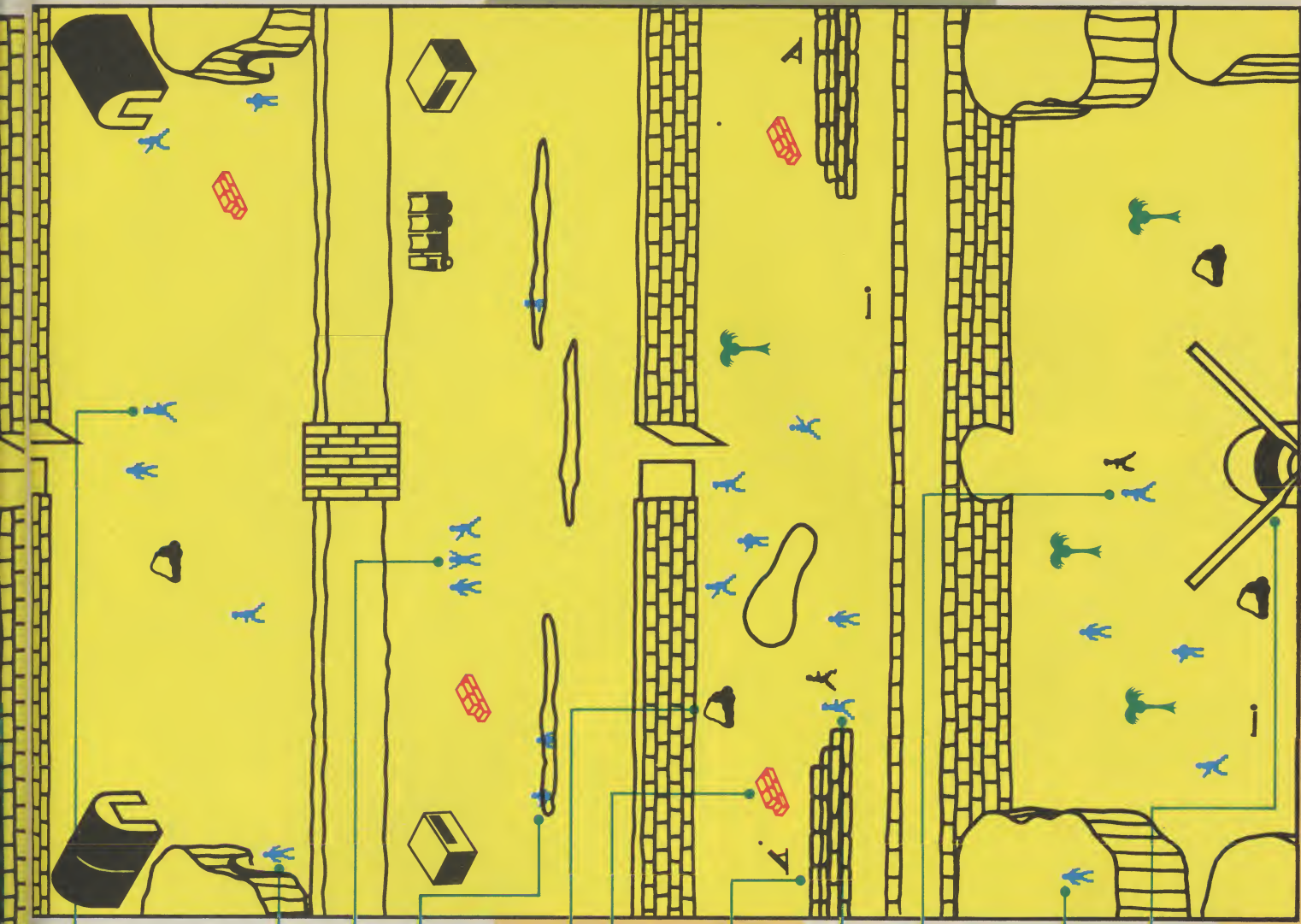
You'll start out with five lives and, boy, are you gonna need them. When you reach 10,000 points you'll be rewarded with an extra life but you won't receive the next one until you've clocked up another massive 50,000.

The enemy even employs some Tarzan tactics. Watch out for the soldiers who do the death-defying leap off the cliffs straight into the fray.

The helicopter drops you behind enemy lines and then you're on your own. Good luck, commando!

FAX BOX

Game.....*Commando*
 Publisher.....Elite Systems
 Price.....£7.95



air rig & cast

map of the

3

there is a secret tunnel here but it is a dead end when used transports you to here

unlocked by book of light

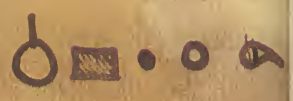
teleport to tower B.

KEYS

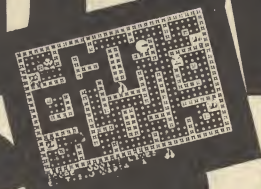
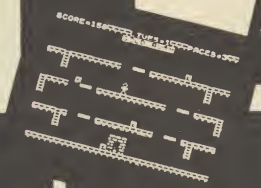
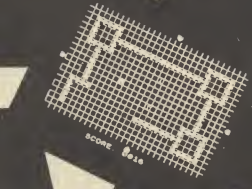
Concrete cross

without this the book of light is unobtainable

key vital object hidden door item of food guard unknown



FREE! 8 PAGE PULL-OUT PACKED WITH PROGRAM POWER



OPPORTUNITY KNOCKS!

Opportunity has knocked this month for yet another brilliant programmer — and we think you'll agree that *Chopper Mission* has every chance of walking off with the number one spot as program of the year. If you're new to the mag (*Shame on you! Ed*), let's just fill you in on the details. We're looking for the six best programs for the Speccy that are under 5K. They can be Basic or machine code, games or utilities, just so long as they reach the peak of excellence. The compo is now nearing its last knockings — next month we print the final contender so if you still want to have a crack at it, put your program in the post now.

So, who's going to do the judging then? You are! When all the programs have been printed, we'll remind you of how good each one was and ask for your votes. If you've missed out on any of the entries, you'll find them in the *Your Spectrum* back issues or on previous Digi'T'apes. Phew, just feel that tension mount!

CHOPPER MISSION

by M Rai

Prepare for take-off, chaps! This six screen 'copter game has all the makings of an arcade classic — manoeuvre round the moving barriers, dodge the alien swarms and rescue your stranded compatriots. And no we can't say it makes *Airwolf* look like *Z81 Space Invaders* — even if it does!

In each of the first five screens you have five men to rescue and on the sixth it's just a matter of making a safe landing on the red pad at the bottom of the screen. Simple eh? Not so fast. If you reckon this is going to be a walk over, then you've reckoned without a thing or two... or three...

You'll start out with seven 'copters and receive a bonus one, every time you complete the sixth screen. It's at this stage that you really have to hang onto your hats 'cos everything starts to speed up — and the faster your times, the higher your score.

You can define all the keys at the start of the game and you must press Enter to restart a game after a pause. Right, helmets on and give it a whirl.

The Basic Loader

Type in this loader and save it at the start of your master tape of *Chopper Mission* with SAVE "Chopper" LINE 1.

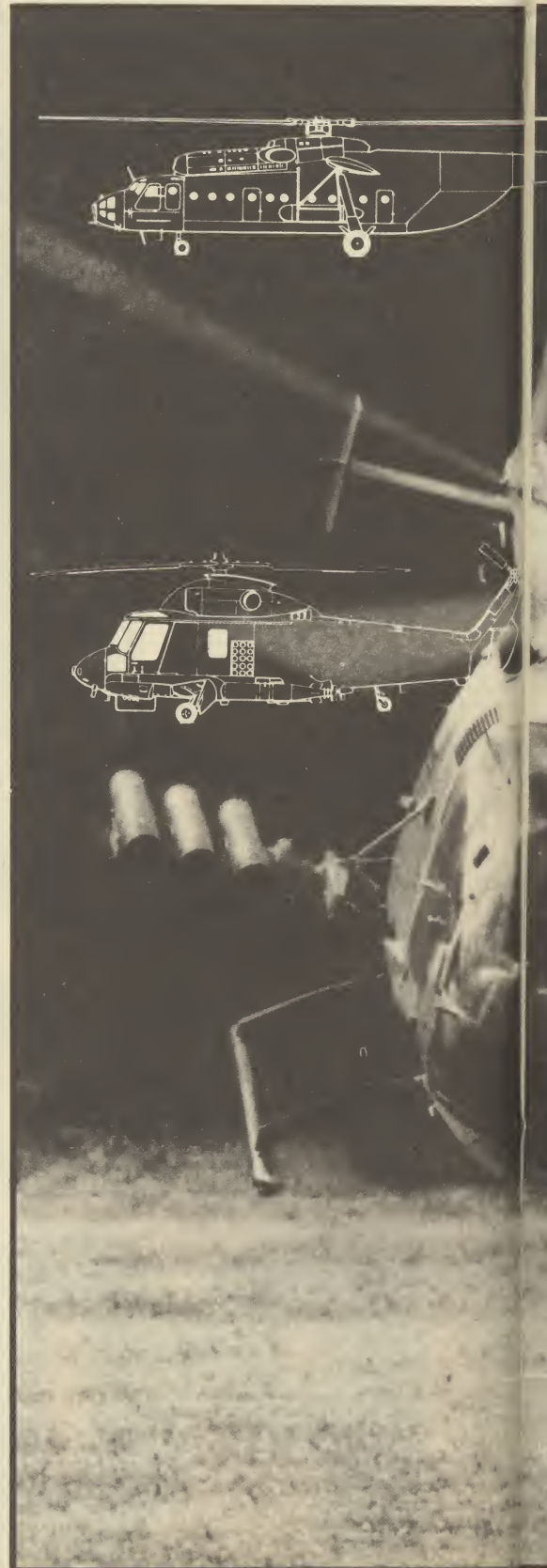
```
1 CLEAR 32767
2 POKE 23693,64: BORDER 0: CL
S
3 PRINT AT 10,3: FLASH 1: INK
7;"CHOPPER MISSION IS LOADING"
4 LOAD ""CODE: RANDOMIZE USR
32768
```

The Hex Loader

Well, look who it ain't. It's our old friend Hex Loader. Type it in and use it to enter the Hex code remembering not to leave spaces between each set of eight bytes. You may stop in the middle of a program by entering STOP (Sym+S) instead of the eight hex bytes, then enter Y to the Save Code option. This'll save the code so far. When you run the Hex loader again, enter Y to the LOAD CODE option and then enter the address from where you left off.

```
2 CLEAR 32767
4 POKE 23658,8
6 INPUT "LOAD CODE (Y/N)";A$
8 IF A$="Y" THEN LOAD ""CODE
```

```
10 LET ADD=32768
12 INPUT "Address you wish to
start at? ";I
14 LET BYTES=I-ADD
16 LET CS=0
18 PRINT AT 0,0;"Address:";I
20 INPUT "8 Hex bytes ";A$
22 IF A$="" THEN GO TO 58
24 IF A$(1)=" " STOP " THEN GO
TO 60
26 IF LEN A$<>16 THEN GO TO 5
8
28 FOR B=1 TO 16
30 IF (A$(B)<"0" OR A$(B)>"9")
AND (A$(B)<"A" OR A$(B)>"F") TH
EN GO TO 58
32 NEXT B
34 FOR N=0 TO 7
36 LET Y=CODE A$(1)-48: IF Y>9
THEN LET Y=Y-7
38 LET Z=CODE A$(2)-48: IF Z>9
THEN LET Z=Z-7
40 LET VA=16*Y+Z: LET CS=CS+VA
42 POKE I+N,VA
44 PRINT AT 2,N*3;A$( TO 2)
46 LET A$=A$(3 TO )
48 NEXT N
50 INPUT "CHECKSUM ";CS1
52 PRINT AT 2,25;CS1
54 IF CS1<>CS THEN GO TO 58
56 LET I=I+8: CLS: GO TO 14
58 BEEP .1,10: PRINT AT 10,11;
"ERROR": PAUSE 50: CLS: GO TO 1
4
60 INPUT "Save to tape (Y/N) "
;S$
62 IF S$="Y" THEN SAVE "code"
CODE 32768,BYTES
```



The Hex Code

'Way you go then. And as soon as the code's in, save it with **SAVE "chopcode" CODE 32768,5120.**

32768 C3 09 88 00 00 24 80 00 =504
 32776 00 00 16 00 04 30 30 30 =170
 32784 30 30 30 16 00 12 39 39 =298
 32792 39 00 0A 00 00 00 00 00 =67
 32800 00 00 00 00 00 FF 00 03 =258
 32808 0C 19 31 26 00 FF 70 FC =743
 32816 1E CF CF 8F 00 F8 00 00 =835
 32824 00 00 81 FF FF C1 00 00 =832
 32832 00 00 00 00 CF DF FF FA =935
 32840 04 04 FF 00 65 FD 3F 0E =694



32848 01 01 0F 00 00 0F 00 03 =35
 32856 0C 19 31 24 00 FF 50 FC =709
 32864 1E CF CF 8F 00 80 00 00 =715
 32872 00 00 81 FF FF C1 00 00 =832
 32880 00 00 00 00 CF DF FF FA =935
 32888 04 04 FF 00 67 FD 3F 0E =696
 32896 01 01 0F 00 00 1F 00 00 =48
 32904 00 00 81 FF 00 FF 0E 3F =716
 32912 78 F3 F3 F1 00 FF 00 C0 =1294
 32920 30 98 BC 64 A6 BF FC 70 =1161
 32928 80 80 F0 00 F3 FB FF 5F =1340
 32936 20 20 FF 00 FF 83 00 00 =705
 32944 00 00 00 00 00 01 00 00 =1
 32952 00 00 81 FF 00 FF 0A 3F =712
 32960 78 F3 F3 F1 00 F0 00 C0 =1279
 32968 30 98 BC 24 E6 BF FC 70 =1161
 32976 80 80 F0 00 F3 FB FF 5F =1340
 32984 20 20 FF 00 FF 83 00 00 =705
 32992 00 00 00 00 1B 3E 7E 7F =342
 33000 2F 57 39 5E 03 A6 FD 7B =830
 33008 F7 F7 EF FF 0E BD FF F6 =1692
 33016 EC D9 5C FE E5 DB 3F FE =1564
 33024 E8 F0 F2 64 FF FF B7 DE =1729
 33032 BF DB DC AD BF DF 7F 3F =1407
 33040 1F B7 1B 0E 00 00 40 01 =320
 33048 00 01 09 02 04 00 00 14 =36
 33056 C6 AF F7 FE 00 00 08 20 =914
 33064 C0 A8 50 FA E8 DC F8 B4 =1570
 33072 C8 00 02 40 77 FB DB 6D =964
 33080 DE BD 18 00 17 8A 17 0F =634
 33088 07 25 03 00 DA 48 FD 89 =727
 33096 01 4F 00 40 20 01 01 4F =257
 33104 E0 50 20 01 01 4F 20 40 =513
 33112 01 16 01 4F 3F 40 01 16 =253
 33120 01 7A 21 40 09 06 1A 47 =332
 33128 A3 40 05 02 01 7A 33 40 =472
 33136 0C 06 1A 47 85 40 08 02 =370
 33144 01 4F 2A 40 03 08 03 4F =279
 33152 2D 40 03 08 01 4F 30 40 =312
 33160 03 08 01 4F CA 48 03 09 =377
 33168 03 4F CD 48 03 09 01 4F =451
 33176 D0 48 03 09 06 45 33 50 =498
 33184 01 01 07 45 34 50 01 01 =212
 33192 05 45 3D 50 01 01 04 45 =290
 33200 3E 50 01 01 06 45 01 50 =300
 33208 04 01 07 45 05 50 01 01 =168
 33216 06 45 41 48 04 01 07 45 =293
 33224 45 48 01 01 04 45 7B 48 =411
 33232 04 01 05 45 7A 48 01 01 =275
 33240 02 46 5C 48 01 01 02 46 =310
 33248 C2 50 01 01 02 46 D8 50 =644
 33256 01 01 02 46 22 48 01 01 =182
 33264 02 46 AE 48 01 01 1A 45 =415
 33272 CB 48 01 01 1A 45 D1 48 =653
 33280 01 01 0E 07 BA 40 01 01 =275
 33288 0F 07 5A 48 01 01 0C 07 =207
 33296 A5 40 01 01 0F 07 25 48 =362
 33304 01 01 00 21 40 2A 8A 01 =280
 33312 7A 00 40 20 01 01 7A E0 =566
 33320 50 20 01 01 7A 20 40 01 =333
 33328 16 01 7A 3F 40 01 16 01 =296
 33336 4F 26 40 19 02 01 4F 72 =402
 33344 40 0D 02 01 4F BA 40 05 =414
 33352 01 01 4F DA 40 03 03 01 =370
 33360 4F B2 40 05 01 01 4F D2 =617
 33368 40 02 01 01 4F D5 40 02 =426
 33376 01 01 4F 6F 40 03 01 01 =261
 33384 4F 8F 40 02 01 01 4F 66 =471
 33392 40 05 02 01 4F A6 40 03 =384
 33400 01 01 4F C8 40 01 01 01 =348
 33408 4F C6 50 19 01 01 4F 46 =533
 33416 50 03 04 01 4F 26 50 02 =287
 33424 01 01 4F A9 50 08 01 01 =340
 33432 4F 88 50 06 01 01 4F 2E =431
 33440 50 02 03 01 4F B3 50 0C =436
 33448 01 01 4F 3A 50 03 04 01 =227
 33456 4F 9D 50 02 01 01 4F 94 =547
 33464 50 04 01 01 4F 35 50 02 =300
 33472 03 02 46 C3 50 01 01 02 =354
 33480 46 07 50 01 01 02 46 15 =252
 33488 50 01 01 02 46 1C 50 01 =263
 33496 01 02 46 70 50 01 01 10 =283
 33504 46 81 40 01 01 11 46 85 =485
 33512 40 01 01 0E 46 6E 40 01 =325
 33520 01 0F 46 0E 50 01 01 10 =198
 33528 46 81 50 01 01 11 46 85 =501
 33536 50 01 01 00 C1 40 63 8A =576
 33544 01 57 00 40 20 01 01 4D =263
 33552 20 40 20 05 01 4D C0 40 =467
 33560 01 0C 01 4D DF 40 01 0C =391
 33568 01 4D 40 50 05 06 01 4D =311
 33576 E5 50 1B 01 01 4D 48 50 =567
 33584 18 01 01 4D 7E 50 02 02 =313
 33592 01 4D BF 50 01 02 01 4D =430
 33600 32 48 03 01 01 4D B6 48 =458
 33608 03 01 02 44 22 50 01 01 =190
 33616 02 44 DE 50 01 01 02 44 =444
 33624 13 48 01 01 02 44 97 48 =396
 33632 01 01 02 44 3C 50 01 01 =214
 33640 10 46 01 50 01 01 11 46 =256
 33648 1E 50 01 01 0E 46 C5 40 =457
 33656 01 01 0F 46 E5 48 01 01 =390
 33664 0E 46 DA 40 01 01 0F 46 =453
 33672 FA 48 01 01 00 81 40 BA =655
 33680 BA 01 7A 00 40 20 02 01 =360
 33688 7A 40 40 01 16 01 7A 5F =491
 33696 40 01 16 01 7A C1 50 1E =513
 33704 02 01 7A 4B 50 0A 04 01 =295
 33712 7A 41 50 02 04 01 7A 5D =489
 33720 50 02 04 01 6D DA 40 01 =479
 33728 01 07 45 63 50 01 01 05 =263
 33736 45 9C 50 01 01 10 45 01 =393
 33744 50 01 01 11 45 1E 50 01 =279
 33752 01 11 45 0E 50 01 01 10 =199
 33760 45 11 50 01 01 01 6D 0F =293
 33768 50 02 01 04 45 2F 48 02 =277
 33776 01 05 45 2E 48 01 01 07 =202
 33784 45 31 48 01 01 02 47 A7 =432
 33792 50 01 01 02 47 B6 50 01 =418
 33800 01 02 47 F0 48 01 01 02 =390
 33808 47 0F 48 01 01 02 47 BA =419
 33816 40 01 01 00 27 50 C9 8A =524
 33824 01 4F 00 40 20 02 01 4F =258
 33832 53 40 0D 01 01 4F 7E 40 =431
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 33864 08 03 01 4F 40 48 01 04 =232
 33872 01 4F 40 40 04 08 01 4F =300
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37840 00 7D FC 7D 00 00 00 01 =503
37848 03 B7 37 B7 03 01 00 3C =488
37856 56 AB D7 AE D7 6E 34 00 =1023
37864 00 00 07 09 3F 7F 62 00 =304
37872 00 00 E0 90 FC FE 46 38 =1000
37880 38 10 10 38 28 6C 00 =546
37888 00 00 00 00 00 00 00 00 =0
STOP

```

MORSE

SAGA

by Duane Moore

If ever you find yourself in a dinghy up to your wellies in water in the middle of the Atlantic Ocean, that's the time you'll regret not typing in this program. Is it dot, dot, dot, dash, dash, dash or dash, dash, dash, dot, dot, dot? Well, it's glug, glug, glug for you shipmates!

Unless you learn to crack the code — morse code, that is. This program has two modes. Firstly, messages — type in a message and your Speccy will blip it back to you. Secondly, letters — your Speccy will blip out a letter and you have to type it in. If you haven't a clue where to start, panic not 'cos you'll find a table of the morse codes in the program.

Right, dash it off if you don't want to go dotty — or end up at the bottom of Davy Jones's locker!



```

1 POKE 23458,8: REM caps lock
2 CLS : PRINT AT 0,8;"MORSE C
ODE TUTOR"
4 PRINT OVER 1;AT 0,8;"-----
"
6 PRINT AT 2,0;"Written by Du
ane A. Moore 1985"
8 PRINT AT 4,2;"(0) LISTEN TO
YOUR MESSAGES."
9 PRINT AT 6,2;"(2) WORK OUT
MORSE GIVEN."
10 PRINT AT 5,2;"(1) PRINT MOR
SE AND LETTERS."
18 PRINT AT 7,2;"(3) ABORT TO
BASIC."
19 REM get what you want
20 INPUT "CHOICE ";a
22 IF a=0 THEN GO TO 34
24 IF a=1 THEN GO TO 66
26 IF a=2 THEN GO TO 74
28 IF a=3 THEN STOP
34 CLS : PRINT AT 0,4;"LISTEN
TO YOUR MESSAGES."
36 PRINT AT 1,4;"ENTER TO RETJ
RN TO MENU."
38 INPUT "MESSAGE ";a$
39 IF a$="" THEN GO TO 2
40 PRINT AT 3,0;"MESSAGE IS ";
LEN a$;" CHARACTERS LONG"
42 PRINT AT 5,0;"MESSAGE:-";a$
: PRINT
44 FOR b=1 TO LEN a$
46 PRINT BRIGHT 1;a$(b);
48 IF a$(b)="" THEN PAUSE 6:
GO TO 62

```


MORSE SAGA

```

50 LET d=9908+CODE a$(b)
51 IF d<9973 OR d>9998 THEN O
TO 62
52 RESTORE d: READ c$: READ e
53 FOR f=1 TO e
54 READ g
56 IF g=1 THEN BEEP .05,20: F
AUSE 3
58 IF g=2 THEN BEEP .2,20: PA
USE 3
60 NEXT f
62 NEXT b
64 GO SUB 9972: GO TO 34
66 CLS : PRINT AT 0,3;"MORSE C
ODE AND THE LETTERS"
68 PRINT AT 2,2;"A .-";AT 3,2
;"B -.-";AT 4,2;"C -.-";AT 5
,2;"D -.-";AT 6,2;"E .-";AT 7,2
;"F --";AT 8,2;"G --";AT 9,
2;"H ....";AT 10,2;"I ..";AT 1
1,2;"J .---";AT 12,2;"K -.-";A
T 13,2;"L .-";AT 14,2;"M --"
70 PRINT AT 2,23;"N -.";AT 3,
23;"O ---";AT 4,23;"P .---";AT
5,23;"Q ---";AT 6,23;"R .-."
;AT 7,23;"S ...";AT 8,23;"T -"
;AT 9,23;"U ...";AT 10,23;"V .
.-";AT 11,23;"W .---";AT 12,23;
"X -.-";AT 13,23;"Y -.-";AT
14,23;"Z ---"
72 GO SUB 9972: RUN
74 CLS : PRINT AT 0,4;"WORK OU
T THE CODE GIVEN"
76 PRINT AT 1,4;"ENTER TO RETU
RN TO MENU"
78 PRINT AT 3,2;"THE COMPUTER
WILL PICK A LETTER AT RANDO
M, THEN BEEP IT. YOU MUST GUESS
THE LETTER."
80 LET a=9973+(RND*26)
82 RESTORE a: READ b$: READ c
84 FOR d=1 TO c
86 READ e
88 IF e=1 THEN BEEP .05,20: P
AUSE 3
90 IF e=2 THEN BEEP .2,20: PA
USE 3
92 NEXT d
96 INPUT "YOUR ANSWER ";f$
98 IF f$="" THEN RUN
100 IF b$=f$ THEN PRINT FLASH
1;AT 11,6;"CORRECT-WELL DONE":
FOR a=0 TO 30: BEEP .05,a: NEXT
a: GO TO 74
102 PRINT FLASH 1;AT 11,5;"WRD
NG-THE ANSWER WAS ";b$: FOR a=0
TO 30: BEEP .05,a: NEXT a: GO TO
74
9972 PRINT 1;" PRESS ANY KEY
TO CONTINUE. "; PAUSE 0: RETUR
N
9973 DATA "A",2,1,2
9974 DATA "B",4,2,1,1,1
9975 DATA "C",3,1,2,1
9976 DATA "D",3,2,1,1
9977 DATA "E",1,1
9978 DATA "F",4,1,1,2,1
9979 DATA "G",3,2,2,1
9980 DATA "H",4,1,1,1,1
9981 DATA "I",2,1,1
9982 DATA "J",4,1,2,2,2
9983 DATA "K",3,2,1,2
9984 DATA "L",4,1,2,1,1
9985 DATA "M",2,2,2
9986 DATA "N",2,2,1
9987 DATA "O",3,2,2,2
9988 DATA "P",4,1,2,2,1
9989 DATA "Q",4,2,2,1,2
9990 DATA "R",3,1,2,1
9991 DATA "S",3,1,1,1
9992 DATA "T",1,2
9993 DATA "U",3,1,1,2
9994 DATA "V",4,1,1,1,2
9995 DATA "W",3,1,2,2
9996 DATA "X",4,2,1,1,2
9997 DATA "Y",4,2,1,2,2
9998 DATA "Z",4,2,2,1,1
9999 REM END OF DATA

```

W O R M

by Robert Stockton

The worm has turned! Or rather it's your turn to guide him through the garden so he can eat the flowers and grow. The game features multiple screens with a bonus 'eat the pie' screen after you've cleared the three previous ones. You'll find full instructions in the game — if you look at lines 3155 to 3230 you'll see the neat way that they're printed to the screen.

Now if you think that games in Basic are pretty worm-eaten, think again. This beats all the machine code versions of the same game that we've seen at YS and just goes to show that you can still write games in good ol' Basic and not have to say you're sorry.

```

O>REM SNAKE
BY ROBERT
STOCKTON 1985
1 GO SUB 6000
2 GO TO 3000
4 POKE 23658,0
10 REM ***SET UP VARS***
40 LET LEV=0
60 LET S=0
65 REM **SET UP SCREEN VARS**
70 LET A$=CHR$ 10+CHR$ 2+CHR$
9+CHR$ 2
80 LET X=10: LET Y=2
90 LET AM=INT (S/100)+10
100 LET H=0: LET V=-1
110 LET CX=2: LET CY=1
120 LET LEV=LEV+1
125 LET START=LEV
130 IF LEV/3=INT (LEV/3) THEN
GO TO 4500
140 LET B$=" "
150 LET C$="63 26 36 2"
160 IF LEV>10 THEN LET LEV=1
165 REM ***PRINT SCREEN*****
166 INK 4: PAPER 0: BORDER 0: C
LS
170 LET X$=" "+B$(LEV)+"
"
180 FOR A=1 TO LEN X$-31: PRINT
AT 10,0;X$(A TO A+31): BEEP .01
,A/2: NEXT A
206 LET E=0
210 PRINT AT 21,0; INVERSE 1;"S
CORE=";S;AT 21,15;"LEVEL=";LEV
212 RANDOMIZE USR 3582
215 IF LEV>60 THEN LET LEV=60
220 PRINT AT 21,0; INK 5;"
225 RANDOMIZE USR 3582
227 PRINT AT 21,0;"
"
230 FOR A=2 TO 20
240 PRINT INK 5;AT 21,0;" ";A
T 21,30;" "
245 RANDOMIZE USR 3582
250 BEEP .01,A
255 NEXT A
260 PRINT AT 21,0; INK 5;"
310 FOR A=1 TO AM
320 PRINT AT RND*17+3,RND*28+3;
INK 5;" "
330 IF A>59 THEN GO TO 350
335 BEEP .1,A
340 NEXT A
350 FOR A=1 TO AM
360 LET R=RND*17+3: LET T=RND*2
7+3
364 IF ATTR (R,T)=VAL (C$(LEV))
THEN GO TO 360
366 PRINT AT R,T; INK VAL (C$(L
EV));B$(LEV)
370 IF A>59 THEN GO TO 400
375 BEEP .1,-A
380 NEXT A
400 REM **PRINT AND MOVE MAN *
410 PRINT INK 7; BRIGHT 1;AT X
,Y;" "; INK 4; BRIGHT 0;AT CODE
A$(1),CODE A$(2);" "
440 IF INKEY$="p" THEN LET V=0
: LET H=1
450 IF INKEY$="o" THEN LET V=0
: LET H=-1
460 IF INKEY$="q" THEN LET V=-
1: LET H=0
470 IF INKEY$="a" THEN LET V=1
: LET H=0
480 LET A$=A$+CHR$ X+CHR$ Y: LE
T X=X+V: LET Y=Y+H: BEEP .002,LE
V
510 IF ATTR (X,Y)<>5 AND ATTR (
X,Y)<>4 THEN LET S=S+10: LET E=
E+1: BEEP .1,-20: PRINT AT 0,6;S
: IF AM=E THEN GO SUB 1500
520 IF ATTR (X,Y)=4 AND START<0
THEN LET A$=A$(3 TO )
525 LET START=START-1
530 IF ATTR (X,Y)=5 OR ATTR (X,
Y)=7 THEN GO TO 1000
540 IF X>=21 AND (Y=16 OR Y=17)
THEN GO TO 4000
560 PRINT AT CODE A$(LEN A$-1),
CODE A$(LEN A$); INK 7;" "
570 GO TO 400
1000 REM *****THE END*****
1010 PRINT AT 10,11; INK 2; PAPE
R 6; BRIGHT 1;"GAME OVER"
1025 BEEP 2,-20
1040 FOR A=1 TO 500: IF INKEY$<>
" " THEN GO TO 2000: NEXT A
1050 PRINT AT 10,10;"(I)NSTRUCTI
ONS";AT 12,10;"(F)LAY"
1060 BEEP .01,1
1070 IF INKEY$="p" THEN GO TO 1
0
1080 IF INKEY$="i" THEN GO TO 3
000
1090 GO TO 1070
1500 REM ***PRINT HOLE*****
1510 PRINT 0;AT 0,0; INK 6;"THI
S WAY > < THIS WAY"
1520 PRINT AT 21,16;" "
1530 LET E=E-1
1540 RETURN
3000 REM *****INSTRUCTIONS*****
3020 INK 6: PAPER 0: BORDER 0: C
LS
3030 DATA " SNAKE","
"
3040 DATA " ", "BY ROBERT STOCKTO
N"
3050 DATA "THE OBJECT OF THE GAM
E IS TO EAT"
3060 DATA "ALL THE FOOD ON EACH
SCREEN"
3070 DATA "BUT IF YOU HIT YOUR T
AIL 'O' OR','THE NASTIES YOU DIE
"
3080 DATA "AS YOUR TAIL GETS LON
GER THE ", "GAME GETS HARDER"
3100 DATA "THE KEYBOARD CONTROLS
ARE"
3110 DATA " ", " Q-UP", " "
3120 DATA "O-LEFT P-RIGHT"
3130 DATA " ", " A-DOWN"
3140 DATA " ", " "
3150 DATA "GOOD LUCK"
3155 RESTORE 3000
Lines 3155 — 3230 These lines print up the
instructions. But note the novel way it's done — by
POKEing the system variable CHARS to make them
appear pixel line by pixel line.
3160 FOR A=0 TO 19
3170 READ A$
3180 FOR X=B TO 0 STEP -1
3190 POKE 23606,X: PRINT AT A,0;
A$
3200 NEXT X
3210 NEXT A
3220 IF INKEY$<>" " THEN GO TO 1
0
3230 GO TO 3220

```




```
4000 REM ****FINISH SCREEN****
4010 FOR A=1 TO 20
4020 RANDOMIZE USR 3582
4030 NEXT A
4040 PRINT AT 0,17;" "
4050 FOR A=0 TO 9
4060 PRINT AT A,16; INK 7;" ";AT
A+1,16;" "
4070 NEXT A
4080 PRINT AT 11,16; INK 6;" =
BONUS 200"
4090 BEEP .004,LEV
4100 FOR A=1 TO 60 STEP 3
4110 BEEP .01,A
4120 NEXT A
4130 LET S=S+200
4135 PAUSE 1: PAUSE 40
4140 GO TO 70
4500 REM ****BONUS SHEET****
4510 CLS
4515 PRINT AT 10,3; INVERSE 1;"P
RESS DOWN TO EAT THE PIE": BEEP
.5,1: PAUSE 3
4520 PRINT AT 0,0; INK 5;" "
4530 PRINT AT 21,0; INK 5;" "
4540 FOR A=1 TO 20
4550 PRINT AT A,0; INK 5;" ";AT
A,30;" "
4560 NEXT A
4570 PRINT AT 10,3;" "
4700 LET T=25
4710 LET Y=5
4720 LET T=T-1; LET Y=Y+1
4730 IF Y=27 THEN LET Y=3: PRIN
T AT 1,27;" "
4740 IF T<2 THEN LET T=25: PRIN
T AT 20,2;" "
4750 PRINT AT 1,Y; INK 7;" "
4760 PRINT AT 20,T; INK 3;" "
4770 IF INKEY$="a" THEN GO TO 4
800
4775 BEEP .002,2
4780 GO TO 4720
4890 PRINT AT 1,Y;" "
4900 FOR A=1 TO 17
4905 BEEP .005,1
4910 PRINT AT A,Y+2; INK 7;" ";A
T A+1,Y+2;" ";AT A+2,Y+2;" ";AT
A+3,Y+2;" "
4920 NEXT A
4930 IF Y>T-2 AND Y<T+2 THEN GO
TO 4970
4940 PRINT AT 10,10;"HARD LUCK"
4950 BEEP 1,-20
4960 GO TO 70
4970 PRINT AT 10,9;"WELL DONE BO
NUS"
4980 FOR A=1 TO 60 STEP 5
4990 BEEP .1,A
5000 NEXT A
5005 LET S=S+500
5010 GO TO 70
6000 REM POKE IN UDG'S
6005 PRINT AT 10,10;"PLEASE WAIT
"
6010 RESTORE 9500
6020 FOR A=0 TO 15*8: READ x: PO
KE USR "a"+a,x: NEXT a: RETURN
9000 POKE 23582,11
9010 LET x=USR 5808
9015 PRINT );"9640 DATA 0";
9020 FOR a=USR "o" TO USR "p"-1
9030 PRINT );",",PEEK a;
9040 NEXT a
9050 LET l=USR 4788
9500 DATA 60,106,213,171,213,171
,86,60
9510 DATA 60,126,223,159,191,191
,255,126
9520 DATA 60,126,219,255,153,195
,126,60
9530 DATA 0,0,128,64,252,246,27,
15
9540 DATA 0,3,7,15,14,6,3,1
9550 DATA 62,255,255,248,192,0,2
55,255
9560 DATA 0,128,224,240,112,48,2
24,192
9570 DATA 0,118,255,239,127,219,
252,103
9580 DATA 0,108,186,254,206,246,
222,140
9590 DATA 96,247,157,251,46,255,
189,247
9600 DATA 16,16,16,16,214,254,12
4,56
9610 DATA 16,40,68,136,144,184,7
6,4
9620 DATA 8,62,8,127,8,62,8,20
9630 DATA 228,120,60,118,250,250
,254,124
9640 DATA 0,0,0,4,40,152,74,44,2
4
```


POWER TO YOUR PROGRAMS

WE'VE GOT IT TAPED!

Or rather Digi'Tape has all the programs in this pull-out on tape. If you've worn your fingers to the bone and the bone to the marrow typing in listings, this'll do more for your hands than Fairy Liquid. And it's not only the listings here but all the programs that are marked with the Digi'Tape sticker in the rest of Page 115. And what'll it cost? Just £2.99. Which is a darn sight less than the alternative — clip-on hands and a shiny new brain.

Have you written a program recently? And how many people have played it? Ten? Five? Two? What, just your mum? Isn't it about time you sent it in to YS? Here we can offer you not just tens, not even hundreds but — just for you, John, once in a lifetime offer, look I'm doing meself out of pocket — thousands and thousands of potential players! And what's more we'll pay you very well. After all, how much did your mum last give you for writing a program?

So, fill in the form below and send it with your megaprogram on cassette to Gavin Monk — Your Sinclair, 14 Rathbone Place, London W1P 1DE.

Name

Address

.....

..... Postcode

Telephone Number

My program's called.....
and it's completely original — 'cos if it ain't I daren't think what'd
happen to me...

Signed

-
- ⊗
- ①
-
- ⊗
- ⊗
- ∞

Bubble
 very
 looked over
 invincible wreath
 can be killed by touching
 cross or potions
 Shunglass freezes
 uninvincible

slide objects through
 to obtain potion

Base of tower B.

unsealed
 potion

enter with a potion
 or cross - take key - give
 wizard book and the
 a wreath - kill Sirin
 then escape via
 the main gate



we hangless
 to reach
 this potion

Caverns

you can walk
 through this wall

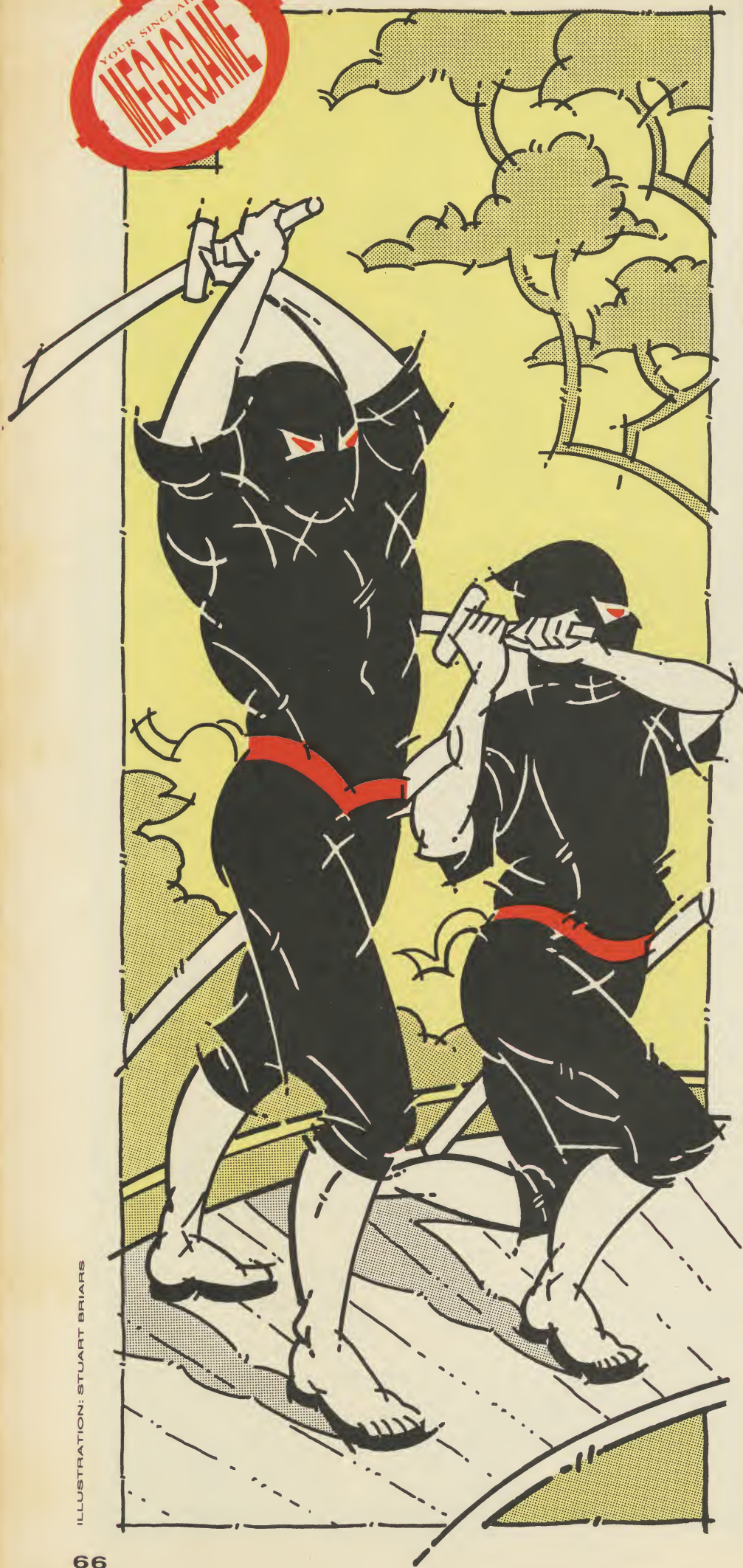
Fairlight

teleport to here
 Book of Light

push off
 the body and jump
 down; mind out its
 a long fall

Cartography by Nick Davies
 with the help of Jason Newman,
 Mark Sinden, Matthew Woodell

YOUR SINGULAR
MEGAGAME



KUNG FU KILLER SABOTEUR

It's a race against the clock, as you take on some of the fiercest Kung Fu fighting Ninjas the Spectrum has ever seen. Would-be anarchist Sue Denham dons her fighting togs and battles through the endless maze of Durell Software's smash game Saboteur.

There have been a fair few martial arts games released or due for imminent release on the Spectrum of late — System 3's *International Karate*, Melbourne House's *The Way Of The Exploding Fist*, Imagine's *Yie Ar Kung Fu* and US Gold's *Bruce Lee* to name but a few! But none is quite like the latest offering from Durell Software.

The scenario for *Saboteur* thrusts you into the part of a sabotaging Ninja warrior, sneaking around an enemy warehouse that's much more than it seems at first sight. Your task is to search out a floppy disk from one of the many computer terminals scattered around the computer complex and escape with it. But before you go, you've got to leave a little present for your pursuers — a time bomb. Which doesn't leave you too much room to negotiate a safe path home!

The game itself comprises 118 different screens, which all go to make up the four-level warehouse — there is the warehouse itself, a computer complex, and two layers of labyrinth-like sewers; the latter areas have a tendency to look the same, which can be a great problem for those who have an aversion to making maps of the best route to safety. All the weapons a self-respecting Ninja could want, can be found by stumbling across them on your adventures. But you can only hold one weapon at a time and, once you've used it, you'll have to search round for another. Points are awarded for killing the guards — by weapons or skilful use of martial arts — but your real adversary is time ... and the final objective of stealing the floppy disk and getting clear of the warehouse before the fuse burns down.

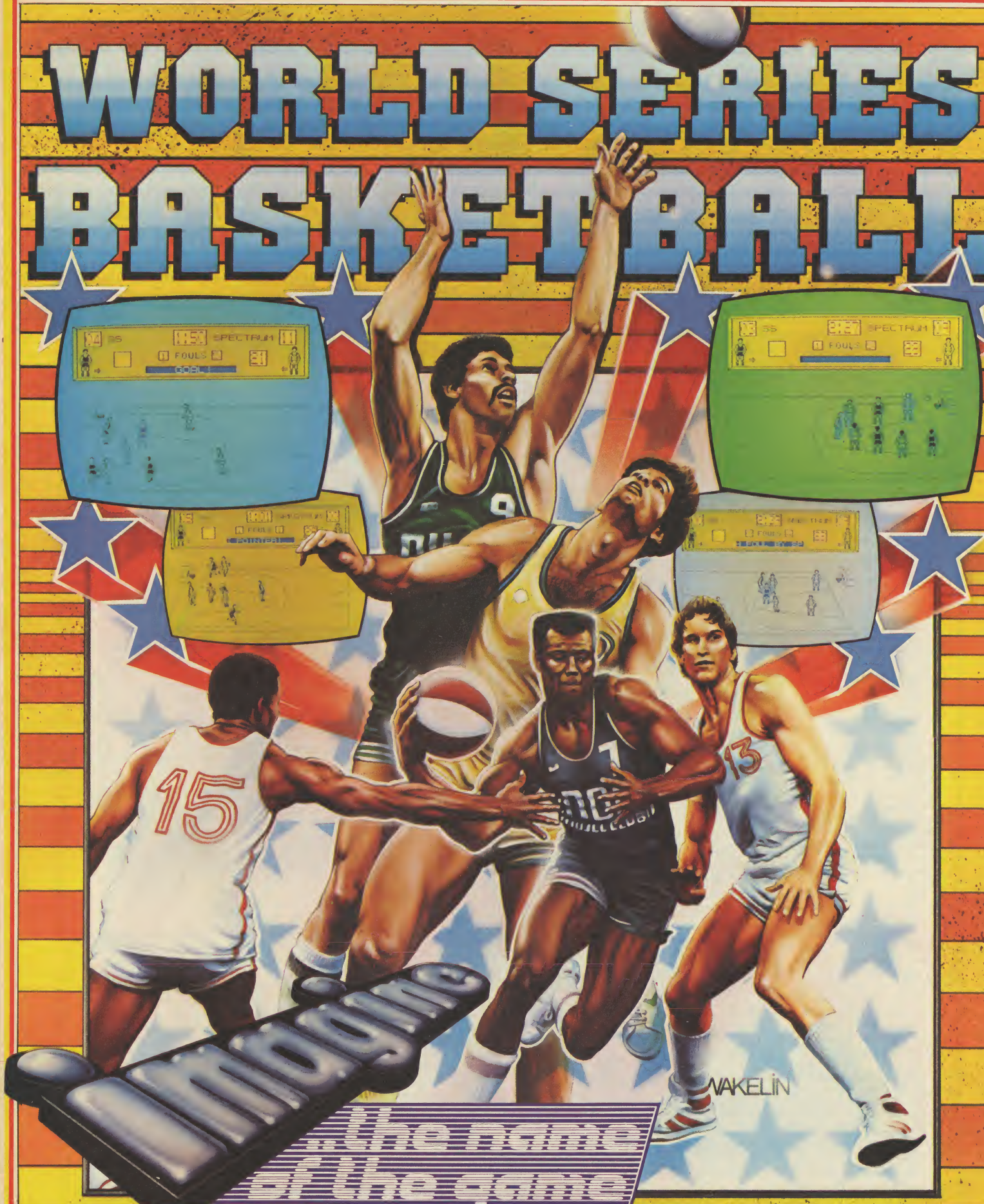
Overall, the game is addictive and great fun. There are nine levels of difficulty — but on the easiest level, you can work out the structure of the game and prepare yourself for the terrors of playing at the higher levels. Map-makers will be in their element when they first start playing the game, but it will be the rugged Kung Fu fighters who will out in the end.

Saboteur manages to combine the good graphical representations of the other Kung Fu games with the solid background of an action-packed story. One to be recommended.

ILLUSTRATION: STUART BRIARS

ZX SPECTRUM 17.55

WORLD SERIES BASKETBALL

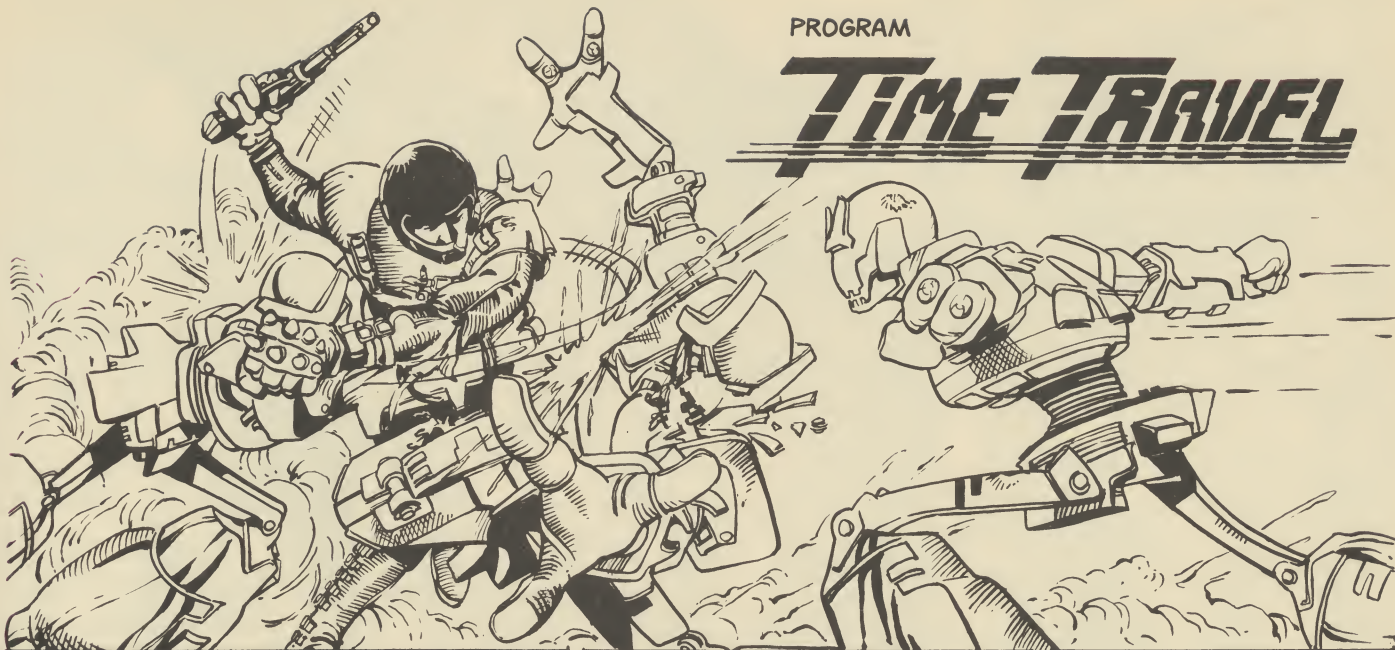


REACH FOR IT!
 ...the name
 of the game

Name your team, choose your colours, lace up and run 'em off the court – pass ... fake ... jump ... shoot in off the backboard ... GREAT BASKET! Simulating all the excitement (including FOULS!) of the Basketball Challenge. Play head to head or against the computer – REACH FOR IT!

Imagine Software is available from: WHSMITH, John Menzies, WOOLWORTH, LASKYS, Rumbelows, Greens, Spectrum Shops and all good dealers. Imagine Software (1984) Limited • 6 Central Street • Manchester • M2 5NS • Tel: 061 834 3939

TIME TRAVEL



FRIDAY AFTERNOON.

THIS IS YOUR LAST CHANCE TO COME UP WITH SOMETHING WE CAN USE.

YES, SIR.

YES, SIR, THANK YOU, SIR.

WHEN YOU CAME TO US, YOU HAD GREAT PROMISE, BUT YOU HAVEN'T WRITTEN ANY PROGRAMS IN THE LAST SIX MONTHS, YOU HAVE UNTIL MONDAY OR I'LL HAVE TO LET YOU GO.

GET CHEWED OUT AGAIN, ROGAN? I KEEP TELLING YOU THE KEY TO SUCCESS IS TO DO PLENTY OF RESEARCH.

DROP DEAD, PETERSON.

MY, WE ARE TOUCHY TODAY.

I'VE GOT TO COME UP WITH SOMETHING OR BINGHAM WILL GIVE ME THE SACK, THE ONLY PROBLEM IS I HAVEN'T GOT A CLUE WHAT TO BASE THE PROGRAM ON.

HOW THE HELL IS THAT JERK PETERSON SO SUCCESSFUL? RESEARCH, HE SAYS. HOW THE HELL DO YOU RESEARCH THE FUTURE.

SLAM!

THE HELL WITH ALL THAT, LET'S SEE WHAT'S ON THE BOX. SHOULD BE ONE OF THOSE OLD MOVIES ON B.B.C. 2.

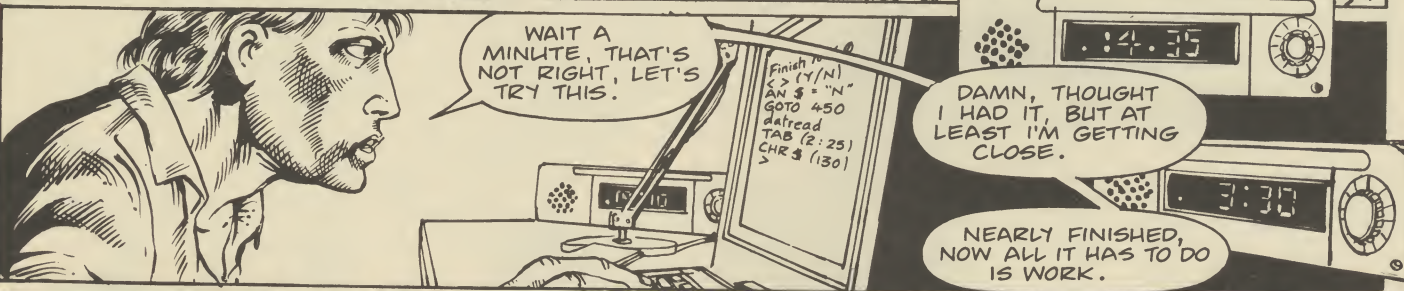
COPYRIGHT 1985. JOHN MAMO-MASON, WILLIAM SIMPSON, ALL RIGHTS RESERVED.



THAT'S IT. TIME TRAVEL. I'LL WRITE A TIME TRAVEL GAME PROGRAM. THAT'LL SHOW THEM.



I THINK I'LL USE THE SPECTRUM THAT I REBUILT. IT'LL GIVE ME A CHANCE TO SEE IF IT CAN WORK FASTER, NOW THAT IT'S FINISHED.

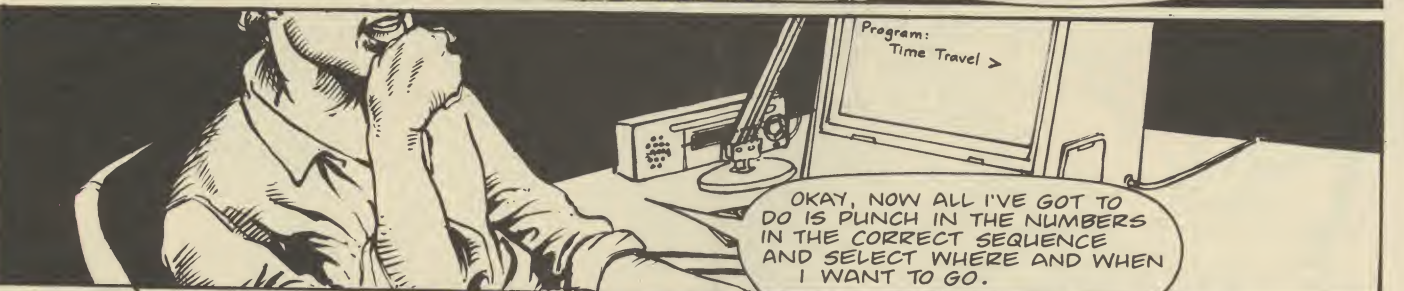


WAIT A MINUTE, THAT'S NOT RIGHT, LET'S TRY THIS.

```
Finish 1/1  
> (Y/N)  
23 4 "N"  
GOTO 450  
dntread  
TAB (2:25)  
CHR $ (130)  
>
```

DAMN, THOUGHT I HAD IT, BUT AT LEAST I'M GETTING CLOSE.

NEARLY FINISHED, NOW ALL IT HAS TO DO IS WORK.



OKAY, NOW ALL I'VE GOT TO DO IS PUNCH IN THE NUMBERS IN THE CORRECT SEQUENCE AND SELECT WHERE AND WHEN I WANT TO GO.



I THINK I'LL SEE WHAT LONDON LOOKS LIKE, IN... ONE HUNDRED YEARS TIME.



NOW, EVERYTHING'S SET... ALL I'VE GOT TO DO IS PUSH THE 'ENTER' BUTTON.

ALL OR NOTHING.



TO BE CONTINUED.

Fifty New Commands ... Named Procedures ... On-Screen Windows ... 64 column text ... Multi-tasking ... Toolkit Commands ... Three Fonts ... Full Screen Editor ... Special Effects ... And More

IMPROVE YOUR ZX LIFE!

Isn't it about time you stopped fighting ZX Basic? So, alright, it's got some superb features and it's a doddle to use. But there's still times when you can't quite squeeze what you want from it and there's even more times when the daunting task of changing and correcting your programs makes you want to tear your hair out. Now there's an alternative — Mike Leaman's *YS MegaBasic* gives you everything you've ever wanted in addition to all the standard features of your Spectrum!

YS MegaBasic is no ordinary extension to ZX Basic — it completely transforms your computer! All the old ZX Basic features are still there but with *YS MegaBasic* loaded, you've got an extra fifty commands at your disposal as well as improved editing facilities and a machine code 'front-panel' for testing any machine code subroutines you're using. Obviously, *YS MegaBasic* uses up RAM normally available for your programs — but even with it loaded, you've still got a hefty 22K free to play around with and it's not everyday that you write Basic programs that big! Besides, with the added capabilities of *YS MegaBasic*, your programs will be able to do more in fewer lines.

GET A LOAD OF THIS!

YS MegaBasic does away with ZX Basic's keyword system — keywords are typed letter by letter though, of course, you can use abbreviations. There is a full screen editor to make alterations much simpler and allow you to copy and move statements between lines!

The Spectrum's screen is transformed by up to ten separate on-screen windows — each of which can be scrolled, panned, inverted and recoloured independently. You can choose from three different fonts and fit

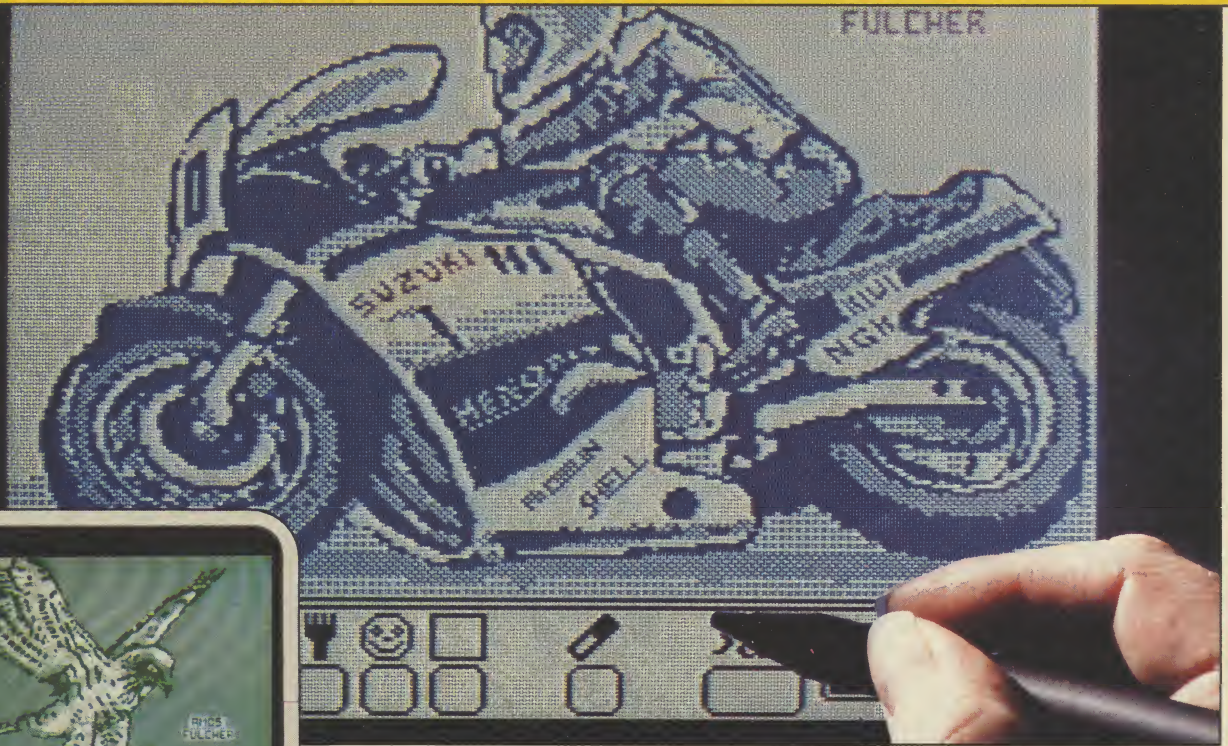
SEE WHAT YOU GET!

Here are just some of the features *YS MegaBasic* adds to ZX Basic. Remember you still have everything ZX Basic has — *YS MegaBasic* has all that and more ...

<input type="radio"/> ZX Basic	<input checked="" type="radio"/> MegaBasic
PROGRAM DEVELOPMENT	
<ul style="list-style-type: none"> <input type="radio"/> Single keypress keywords <input type="radio"/> In-Line Editor <input type="radio"/> LIST, LLIST 	<ul style="list-style-type: none"> ● Keywords typed in full but abbreviations possible. ● EDIT Activates improved line editor. The new control keys allow full screen editing. ● DELETE Delete block of lines. ● AUTO Automatic line numbering. ● TRON Trace program execution. ● TROFF Turns Trace off. ● SPEED Set tracing speed. ● KEY Program function keys. ● When a program is running, control keys call up the front panel, reset <i>YS MegaBasic</i> without losing the program and halt the program.
SCREEN HANDLING	
<ul style="list-style-type: none"> <input type="radio"/> 32x20 characters <input type="radio"/> 1 font <input type="radio"/> 1 direction <input type="radio"/> 1 size <input type="radio"/> 1 window <input type="radio"/> 8 colours 	<ul style="list-style-type: none"> ● MODE Selects character size 64x20, 32x20, 16x10 characters. ● FONT Selects from 3 character fonts. ● DOWN Print down the screen. ● SPRINT Print in any magnification. ● WINDOW Define up to 10 windows. ● STIPPLE Patterns large characters. ● VDU PRINT character codes to screen. ● PRINTER Redirect screen output to printer or user-supplied routine.
GRAPHICS	
<ul style="list-style-type: none"> <input type="radio"/> PLOT <input type="radio"/> DRAW <input type="radio"/> CIRCLE <input type="radio"/> INVERSE <input type="radio"/> OVER <input type="radio"/> BRIGHT <input type="radio"/> POINT <input type="radio"/> ATTR 	<ul style="list-style-type: none"> ● CHANGE Manipulate attributes. ● SWAP ● FADE ● GET Move screen display ● PUT to and from memory. ● SPRON Control up to 8 on-screen sprites — each sprite has its own shape, colour, direction and speed. ● PAN Scroll windows in any direction ● SCROLL ● INVERT Invert whole screen or window. ● DEFG Define UDG.
PROGRAM CONTROL	
<ul style="list-style-type: none"> <input type="radio"/> FOR ... NEXT <input type="radio"/> GOSUB ... RETURN <input type="radio"/> IF ... THEN <input type="radio"/> GOTO 	<ul style="list-style-type: none"> ● REPEAT ... UNTIL Named procedures with parameters. ● POP Drop last REPEAT or ENDPROC address. ● PUSH Place an address on the REPEAT/procedure stack. ● BRANCH GOSUB at end of every line. ● MTASK Alternate between two sections of program. ● RSTART Trap Basic errors. ● BRON Disable/Enable BREAK key. ● BROFF Turns above command off.
SOUND	
<ul style="list-style-type: none"> <input type="radio"/> BEEP 	<ul style="list-style-type: none"> ● PLAY Play notes or white noise. ● SON Play sound in background while the program continues to run! ● SREP Repeat sound continuously.
MACHINE CODE INTERFACE	
<ul style="list-style-type: none"> <input type="radio"/> PEEK 	<ul style="list-style-type: none"> ● DOKE POKE 16-bit value. ● CALL Call machine code and pass Basic variables to Z80 stack. ● MON Activate machine-code front-panel where you can examine and alter memory and Z80 registers, fill and run machine code programs.

CREATE ELECTRONIC ART ON YOUR OWN TV SCREEN WITH THE SPECTRUM DOODLER!

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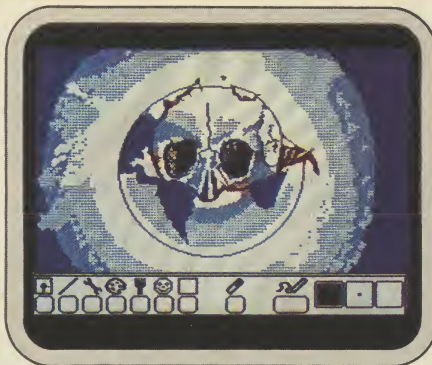
Using a palette of sixteen colours you can choose the line thickness most suitable for your work.

14 options including text!

Besides line thickness, there are modes to enable you to create instant squares, circles and triangles. You can fill in areas with colour

textures, repeat stock patterns or make your own design using a special layout grid. Draw free hand — point to point or continuous line ribboning. There is also the facility to add text to your design.

Store your work on cassette or microdrive!



The Doodler Software allows you to save complete or incomplete pictures for rework or for use with your own programs at a later date.

Auto trim feature!

The pen has a trim feature that automatically sets the pen's accuracy to the tv or monitor screen you are using.

Robustly made, fun to use!

The lightpen is robust and comes complete with software on cassette which can be duplicated on to microdrive cassette. There is an instruction manual that's simple and easy to understand and an interface box for connection to your Spectrum computer. You can even write your own software for the Doodler if you wish.

To get your own Spectrum Doodler just send a cheque or postal order for £29.90 with the completed coupon. Free post and packing in UK only.

I enclose a cheque/postal order for £ _____
(includes P+P) for my Spectrum Doodler(s). Allow 28
days for delivery. Full refund if not completely satisfied.

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SPECTRUM
Doodler
LIGHTPEN

IMPROVE YOUR ZX LIFE!

SCREEN SCENE

Here's just a sample of YS MegaBasic's awesome screen handling abilities — we'd like to show you the super smooth sprites, the way windows can be panned and scrolled, the fantastic fade effect but this paper stuff just isn't up to it! So instead, look at the range of different character styles and sizes YS MegaBasic provides!



```
200 PAPER 0: CLS
210 PAPER 2: INK 7:MODE_2,4:STI
PPL 255: PRINT AT 0,0: " YS MEG
ABASIC "
```

Set double-height, double-width size with fully inked characters.

```
220 PAPER 1:MODE_2,2: FOR I=0 T
O 2:FONT_I: PRINT "FONT ",I," "
: FOR J=40 TO 96:VDU_J: NEXT J:
NEXT I
```

Return to normal size and use the FONT command to select between the three different fonts. VDU is a useful shorthand for PRINT CHR\$.

```
230 PAPER 0:MODE_2,1: FOR I=1 T
O 4: PRINT "64 column text 64 co
lumn text 64 column text 64 colu
mn text": NEXT I:MODE_2,2
```

Go into 64 column mode... great for adventures and other textual programs!

```
260 INK 2:SPRINT_0,96,2,2,"Big"
270 INK 3:SPRINT_72,96,3,3,"Big
ger!"
```

Use the sized-print (SPRINT) command to generate huge letters.

```
280 INK 4:DOWN_9,62,"DOWNPRINT"
```

You can also print downwards — great for labelling graphics!

```
290 INK 6:SPRINT_0,114,1,6,"THI
N"
300 INK 5:SPRINT_72,148,5,1,"WI
DE"
```

SPRINT again — this time by varying the X and Y magnification, the proportions of the printing can be changed — thin or fat, there's no problem.

```
310 PAPER 6: INK 2:MODE_2,4:STI
PPL 170: PRINT AT 16,18:"STIPPL
ES!"
```

By using MODE 4 characters, you can create stipple effects — only certain pixels in the characters are inked. In this line, a stipple of 170 and the colours red and yellow create the effect of orange lettering!

```
999 LET A$=INKEY$: IF A$="" THE
N GO TO 999
1000 FADE_INT (RND*127): GO TO 9
99
```

What does the fade command do? To find out, you're gonna need your own copy of YS MegaBasic!

64, 32 or 16 columns on each line as well as magnify characters and print down the screen. YS MegaBasic makes special effects really easy — you can manipulate colour independently of the graphics on screen and save sections of the screen display to and from memory.

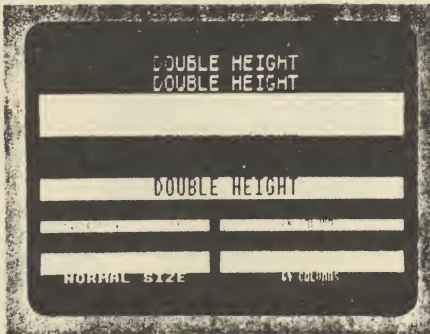
YS MegaBasic provides software sprites — predefined graphic shapes that move smoothly by themselves while your program is running. Yes, you can write arcade games and animated programs in Basic! And because designing sprites can be a chore, the YS MegaBasic package includes a free Sprite Designer utility to make it easy!

Your programs are also neater and easier to maintain — MegaBasic provides REPEAT...UNTIL loops, named procedures, proper CALLs to machine code routines, error trapping

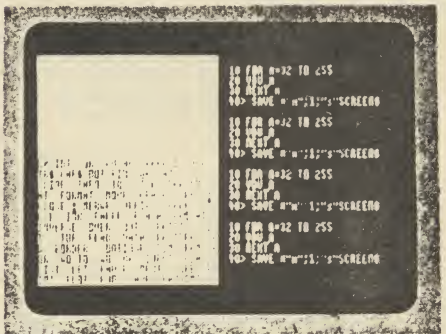
and, believe it or not, simple multi-tasking! You can set up a procedure which is called when each line of the program has been executed or you can use the MTASK command to alternate execution between two sections of the program.

And that's just a taste of YS MegaBasic magic — there's more to come. To get hold of your own copy complete the coupon opposite and rush it with payment to the address given. We'll deliver within 28 days. And before you ask, YS MegaBasic is microdrive compatible and can be transferred onto cartridge! C'mon, do yourself and your Spectrum a favour — one day you're gonna wish you had!

Available Only By Mail-Order
From Your Sinclair Magazine.



Here, YS MegaBasic is showing off its multifarious character sizes and fonts. Each window contains text in three different sizes: double height, normal height and that used for 64-columns; double height and standard text can be output in three different fonts.



The screen format for the input/output of YS MegaBasic. Three windows are provided for input, LISTing and RUNning programs; under software control, each window's size and purpose can be changed to suit individual requirements.

YS MEGABASIC PRIORITY ORDER FORM

YS MegaBasic is only available direct from the Your Sinclair Mail Order department. Simply fill in this coupon and mail it with your cheque or postal order to YS MEGABASIC OFFER, PO BOX 320, LONDON, N21 2NB.

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ROLLING STONE AGE

If you're on the look out for a simple, unsophisticated slice of arcade action, BC's *Quest For Tires* may be the game for you. Steve Malone gathers very little moss in his review of Software Project's new Neandertale!

Next time you get a puncture, don't blow your top. Just think what it must've been like One Million Years BD — Before Dunlop. You'll get some idea from playing BC's *Quest For Tires*, the prehistoric program from Software Projects. So, prepare for a distinctly bumpy ride.

The first thing that'll strike you about the game is that the graphics have a distinctly cartoonish feel about them.

In the first stage of the game, you must jump the divots and casually-strewn rocks. It's not too tricky at the minimum speed but the objects have a habit of bunching together so prepare for some tight joystick manoeuvres. There's always one sod around just waiting to trip you up!

Duck or grouse (groan)! Pull the joystick back smartish if you want to get under the head-high branches without a nasty case of concussion.

The next section is similar to *Frogger*. You'll need split-second timing to cross the pond on the backs of the sinking and resurfacing turtles.

An added danger as you roll up the hill are the boulders rolling back down. To gain a bit of extra distance, jump up and jerk the joystick in the direction you want to go.

Running up that hill now, and you'll come across more rocks and divots waiting to bring you back to earth with a bump.

Looks just like the mother-in-law. Waiting on the other side of the water is a cavewoman wielding a Jurassic baseball bat. If your timing's out, you can knock another life on the head.

To traverse the pond, get underneath the air/sea rescue bird that's been shadowing you since you reached the plateau. As soon as you see the water, jump up and he'll carry you across to safety!

ILLUSTRATION: MARK WATKINSON

★ SPECTRUM WORD-PROCESSOR ★

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- ★ Also saves to cassette.

"If you have a microdrive the Microdriver is the most important piece of hardware you could buy." *John Lambert — Sinclair User*
"Using the Mirage is a dream . . . this device is a must for the serious microdriver." *Crash Magazine — August*
"I much preferred the Microdriver for speed and ease of use." *Iolo Davidson — Your Spectrum*

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Hardly surprising really as our stone-age superstar is the hero of Johnny Hart's BC newspaper comic strip. Here our hero sets out on his rolling stone to rescue his loved one, jumping and ducking according to the hazards that are thrown at him.

All in all this is a good, competently programmed arcade game. And it'll have you throwing the joystick around

the room with frustration as Thor the hero falls flat on his face for the umpteenth time.

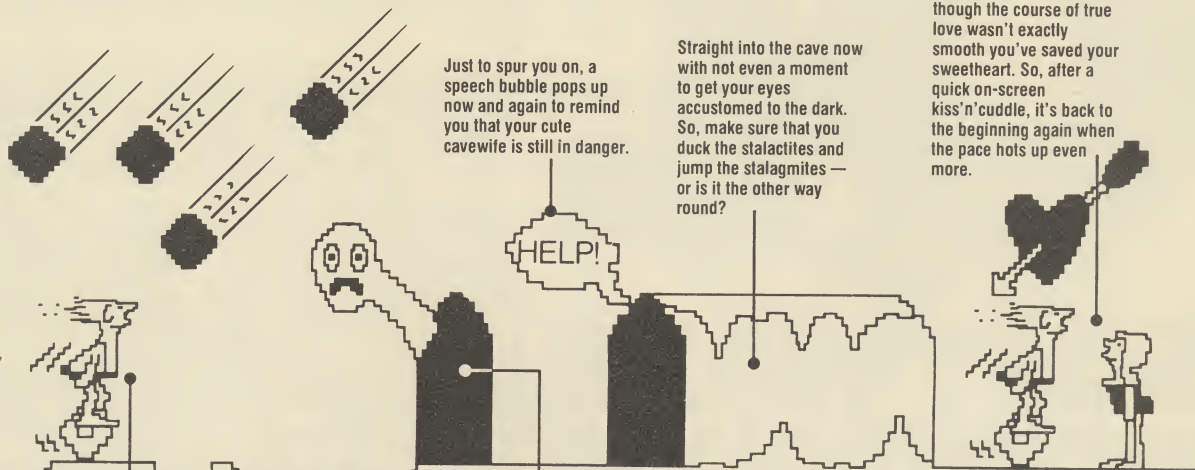
Where the game falls down is in the fact that there's just not enough of it. Two days of frantic joystick-jiggling or keyboard bashing (and it's addictive enough to keep you at it that long!) will allow most of you to get to the end. And once you've cracked it, it's back to the

beginning again — only this time it's just that bit faster. The only trouble is that once you've been in at the finish, it doesn't have quite the same air of mystery about it — and then it's on to racking up the points.

Having said all that, this is pure and unadulterated (no added colour, no preservatives) arcade action — and it's still got plenty of natural fizz!

You've made it — and though the course of true love wasn't exactly smooth you've saved your sweetheart. So, after a quick on-screen kiss'n'cuddle, it's back to the beginning again when the pace hots up even more.

As soon as you hit the bottom of the hill, start accelerating so that you hit the edge of the water at 80 mph... and then jump for your life!



Just to spur you on, a speech bubble pops up now and again to remind you that your cute cavewife is still in danger.

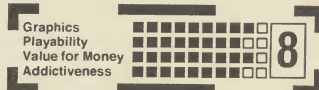
Straight into the cave now with not even a moment to get your eyes accustomed to the dark. So, make sure that you duck the stalactites and jump the stalagmites — or is it the other way round?

At the far side of the pond is a dinky dinosaur on the look out for dinner. He'll pop his head out just long enough to knock you off the drink. Timing is all-important.

Back on dry land and you've not only got to negotiate the rocks and divots but also keep out of the way of the boulders raining down from the sky. Short sharp bursts of speed are the only way you'll make it through to the other side.

More water and more bobbing turtles. And if you've learned the pattern of the previous turtles, forget it... it's a whole new story here.

Game BC's Quest for Tires
 Publisher Software Projects
 Price £7.95
 Joystick Kempston, Protek, Interface II
 Keys Forward/Back — W/Q;
 Jump/Duck — K/M;
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 Q+Enter.



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 'Great game, good music, well recommended'. What Micro
 'The graphics and sound are excellent and the game is totally addictive'.
 10/10 value & playability, 9/10 graphics & sound. C & V Games
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THE COMPLETE

QL

SOFTWARE BUYERS GUIDE

At under £200, the QL has started to look a real bargain. If you've splashed out on one already or you're considering taking the plunge this Christmas, you'll want to know just how much software is available for the machine. The answer is still not much but things are starting to look up. *Graham Rydout* surveys the field.

THE LANGUAGE BARRIER

Very soon after its launch eighteen months ago, the QL was blessed with a wide range of languages and a couple of 68000 assemblers from Metacomco and Computer One. Now that range has been further complemented.

TITLE	PUBLISHER	PRICE	RATING
Assembler Development Kit	Metacomco	£39.95	6
QL Pascal	Metacomco	£89.95	9
BCPL Development Kit	Metacomco	£59.95	8
Lisp Development Kit	Metacomco	£59.95	8
QL C	Metacomco	£99.95	9

All of these come supplied with the Metacomco full screen editor that has now become the QL standard. So much so, in fact, that Metacomco have licensed it out to other companies for inclusion in their packages.

Assembler	Computer One	£29.95	7
Forth	Computer One	£39.95	8
Pascal	Computer One	£39.95	6
Assembler	GST (via Sinclair)	£39.95	9
Editor Assembler	Adder	£34.95	8
Gen QL Assembler	Hisoft	Coming Soon	

This list will give you an idea of the range of Assemblers and language packages available from companies other than Metacomco.

Mon QL (Microdrive)	HiSoft	£14.95	8
Mon QL (EPROM)	HiSoft	£39.95	10
QL Monitor	Computer One	£24.95	9

QL Monitor	QJump	£24.95	7
------------	-------	--------	---

With only three disassembler/debuggers on the market, HiSoft comes out tops with MonQL on EPROM but the others are expected to follow suit shortly.

QL Monitor	Digital Precision	£18.05	2
------------	-------------------	--------	---

This is a very simple package and suffers greatly from a severe lack of features — not one I'd recommend.

C Compiler	GST	£59.95	7
------------	-----	--------	---

This isn't a complete implementation of the language but it's well suited to the beginner.

Supercharge (compiler)	Digital Precision	£59.95	
------------------------	-------------------	--------	--

I haven't yet seen the finished version of this compiler but it promises to be a product that everyone can make use of. It's written by Simon Goodwin of Zip compiler fame (take a look at *Your Spectrum 3*) and it claims to convert almost every SuperBasic program into fully multi-tasking 68008 code.

SuperBasic extension	QJump (via Sinclair)	£24.95	9
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SEE (EPROM)	HiSoft	£39.95	9
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Of these two SuperBasic extensions, QJump's leads the way but HiSoft's SEE has some very useful facilities. It gives the QL true windowing capabilities and as it's on ROM you don't have to keep loading it in.

Microdrive Toolkit	Compware	£9.99	5
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Microdrive Toolkit (with source code)	Compware	£34.99	5
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The toolkits change the QL's microdrive commands into functions so that values can be returned and errors such as 'drive full' trapped.

Keydefine	Pscientific Software	£9.95	10
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This is a complete key redefinition package that'll let you use the redefined keys in almost every QL package. You could, for example, define the P key so that when you press it with the Caps Lock held down, the current document from within Quill could be saved and then printed. Freebie programs provided are a fast copier (a multi-tasking directory lister that lists directories from within other programs) and a printer spooler.

ICE (EPROM)	Eidersoft	£49.95	9
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ICE (Icon Controlled Environment) gives the QL a full Icon based Desktop Manager and Front End to QDOS. It removes most mundane file handling tasks and I can thoroughly recommend it.

WD Utilities	WDSsoftware		6
--------------	-------------	--	---

(Microdrive)		£7.50	
--------------	--	-------	--

(5 1/4")		£10.00	
----------	--	--------	--

(3 1/2")		£12.00	
----------	--	--------	--

WD Utilities are a complete set of SuperBasic procedures providing a menu driven system to manoeuvre files.

Cartridge Doctor	Talent	£14.95	9
------------------	--------	--------	---

If you're frequently visited by the 'Bad or Changed Medium' error message, you'll welcome this program. It's a fully automatic set of routines to recover corrupted and deleted files.

Q Doctor	Adder	£14.95	5
----------	-------	--------	---

If you prefer doing things the hard way, *Q Doctor* only allows you to load and edit sectors from the microdrive. Unfortunately, there are no similar products yet available for disk users.

GraphiQL		£34.95	6
----------	--	--------	---

M-Paint	Medic	£49.95	8
---------	-------	--------	---

Paint Master	Shadow Games	£14.95	7
--------------	--------------	--------	---

Tascopy	Tasman	£12.90	8
---------	--------	--------	---

Sprite Generator	Digital Precision	£24.95	6
------------------	-------------------	--------	---

Graphic printers are a personal choice. *GraphiQL* suits highly detailed work but is extremely difficult to use. For dedicated artists only! *M-Paint* is a coloured clone of Apple's *MacPaint*. Simpler to use but a shade less accurate on detailed work. Least sophisticated of all, *Paint Master* is none the less the most appropriate for your average QL user. Its ability to compile a drawing into a SuperBasic program that then copies it makes it practical if you want simple illustrations within your program. All have simple screen dump programs but *Tascopy* copies all or part of the screen in a variety of shades. *Sprite Generator* does just that but it's a complex to use package that isn't worth the asking price.

DOWN TO BUSINESS

The high reputation of *Archive*, *Abacus*, *Quill* and *Easel* is based on their quality — it's not just that they come with the QL. Other companies haven't released similar packages because most people are happy with what they've got. Doubtless improvements could be made but I expect

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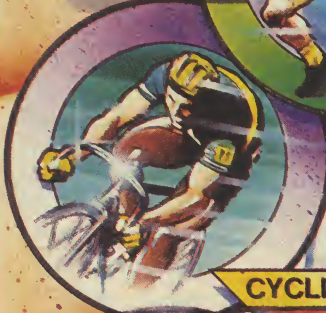
SPRING BOARD DIVING



TUG O' WAR



GIANT SLALOM



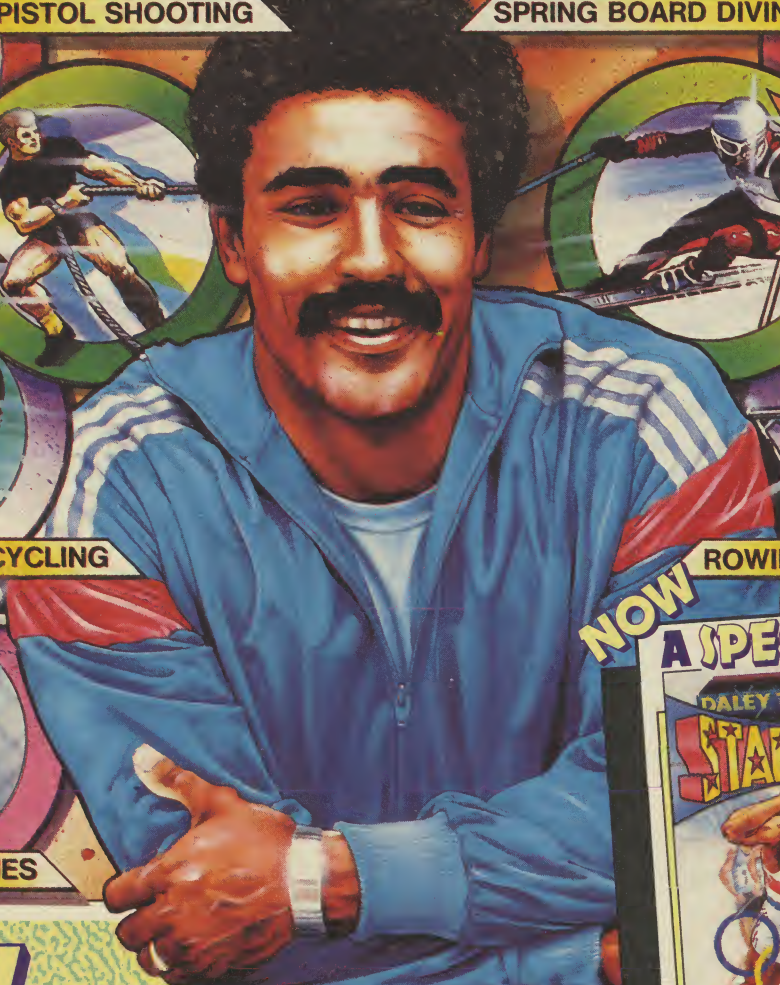
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these'll come from Psion rather than an independent house.

TITLE	PUBLISHER	PRICE	RATING
Q-Spell	Eidersoft	£19.95	8

Pore spillars will welcome *Q-Spell* — a full-spec spelling checker for Quill. But be warned! Extra memory's needed to check your document with Quill still in memory.

Home Finance	Buzz (via Sinclair)	£24.95	8
Self Employed and Cash trader	Quest	£69.95	7
Small business and Accounts	Sagesoft	£89.95	8
Payroll	TR		8

Of the accounting packages aimed at home users *Smallbusiness* is the most professional. It has Integrated Purchase, Sales, and Nominal Ledgers. Transferred from the IBM PC it just goes to show that the QL can compete in the business world. *Payroll* provides a perfect complement and deals with data for up to 75 employees.

Decision Maker	Triptych	£39.95	8
Entrepreneur	Triptych	£39.95	8
Project Planner	Triptych	£39.95	8

The Triptych products help solve various problems and educate you in the process.

Equate (Microdrive and disk)	Flite	£39.95	7
------------------------------	-------	--------	---

For mathematicians, *Equate* can solve most problems — polynomial, linear, simultaneous equations, differentiation, integration, curve fitting and various graphical problems.

QL Gardener	Gordian Computing Services	£24.95	
-------------	----------------------------	--------	--

QL Gardener is a database with information on over 1100 plants. Just a shame that the package won't dig or even weed your garden for you!

QL ADVENTURES

When you consider the QL's large memory and excellent graphics you'd expect plenty of adventures. But only three quality games exist, and they're all text only.

TITLE	PUBLISHER	PRICE	RATING
Lost Kingdom of Zkul	Talent	£19.95	8
West	Talent	£19.95	6
The Pawn	Magnetic Scroll coming soon		10

The Talents were released early on in the QL's history and they're still looking good. *Zkul* is based on the popular Dungeons and Dragons format and plays very well. *West* is set in the desert wilds — complete with menacing Indians. Few reservations about this one! *The Pawn* is extremely high quality, similar to that of the Level 9 adventures. It's set in the magical world of Kerovnia during a period of social upheaval and includes a very complex command interpreter that can understand commands as complex as "Get all except the cases but not the violin case then kill the man eating shrew with the contents of the violin case. Remove the shrew's tail and use it to tie the pole and the noose together!" See what I mean? This game's by far the QL's best adventure yet.

A WINNING STRATEGY

If you compare this list of strategy games for the QL with the selection for the Speccy, it looks pretty paltry. Still, there are some good 'uns here.

TITLE	PUBLISHER	PRICE	RATING
Chess	Psion	£19.95	9

Computer chess takes on a new dimension with a full 3D board display that makes impressive use of the QL's graphics.

Match Point	Psion	£14.95	9
-------------	-------	--------	---

Match Point is converted from the Spectrum and improved graphics make the game more playable.

Area Radar Controller	Shadow Games	£14.95	2
-----------------------	--------------	--------	---

This is a very poor aircraft control simulation written in SuperBasic.

Bridge Player	CP Software	£14.95	5
Backgammon	Digital Precision	£12.95	5
Reversi	Games of Skill	£12.95	(Coming Soon)

Aimed at novices, *Bridge Player* and *Backgammon* are of little value to the experienced. Coming soon is *Reversi* — a full version of *Othello*.

Cosmos	Talent	£14.95	7
--------	--------	--------	---

Patrick Moores, stand by your QLs. This is an astronomy package that allows you to display star and solar patterns as seen from any place on Earth at any point in time. From the star map you can choose any star with the cursor to find out extra data.

ARCADE ACTION

This list of arcade games for the QL may produce a snigger from Speccy owners — it doesn't exactly rival the selection on offer to them. Still, it's growing all the time!

TITLE	PUBLISHER	PRICE	RATING
QL Cavern	JMF (via Sinclair)	£12.95	7

A massive 50 screen *Jet Set Willy* clone with 395 gems to collect. Good value, with a good many improvements over the standard platform game.

Meteor Storm	Arrakia (via Sinclair)	£12.95	4
--------------	------------------------	--------	---

A bog standard version of *Asteroids*.

Booty	Firebird	£9.95	(Coming Soon)
-------	----------	-------	---------------

A locks and doors classic on the Speccy that sells for £2.50. Microdrive problems push up the price on the QL. Looks impressive!

EVA	Westway	£12.95	9
-----	---------	--------	---

A *Jetpack*-style game with very large sprite graphics. The most annoying feature is the almost continuous sound.

Star Guard	Shadow Games	£14.95	5
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Galactic Invaders	Shadow Games		5
-------------------	--------------	--	---

Shadow Games range from the reasonable to the pathetic. This pair come on the one cartridge and are just copies of *Arcadia/Invaders*.

Night Nurse	Shadow Games	£12.95	3
-------------	--------------	--------	---

This uses Digital Precision's *Sprite Package* (see The Language Barrier) and it just goes to show that commercial games cannot be produced with it. Shame.

Quazimodo	Shadow Games	£12.95	7
-----------	--------------	--------	---

Reasonable I suppose, very colourful and should satisfy if this is your thing. I'd back it!

Space Paranoids	Shadow Games	£12.95	4
-----------------	--------------	--------	---

Another *Arcadia* style game — hardly worth loading up.

Zapper	Eidersoft	£10.95	6
--------	-----------	--------	---

Similar theme to *Paranoids* but slightly better value.

Master Blaster	Compugem	£9.95	8
----------------	----------	-------	---

Excellent shoot 'em up that puts the rest to shame. Very smooth animated graphics and a wide range of aliens.

Cuthbert In Space	Microdeal	£14.95	7
-------------------	-----------	--------	---

Microdeal has a very varied quality range. *Cuthbert's* aimed at the younger game's player and the hidden strategic elements make it more than a quick shoot out.

Lands of Havoc	Microdeal	£19.95	8
----------------	-----------	--------	---

A well packaged 2,000 screen arcade that plays very well but could've made better use of colour.

Crazy Painter	Microdeal	£12.95	8
---------------	-----------	--------	---

You can hardly call this an Arcade copy — it's so different. Crazeeee!

Hopper	Microdeal	£14.95	7
--------	-----------	--------	---

Standard version of *Frogger* — as good as any. 'Bout time it hopped it.

QL Flight	Microdeal	£19.95	(Coming Soon)
-----------	-----------	--------	---------------

A flight simulator that's due for release soon.

Hyperdrive	English Software	£14.95	8
------------	------------------	--------	---

The QL's official *Pole Position* — rather disappointing considering what could've been achieved. It's on a par with the Spectrum version.

LET US KNOW...

We've tried to make this guide as comprehensive as possible but a list like this can never truly be complete. If you own a piece of software, or if you produce one, that's not included here, tell us about it and we'll pass the info on to Your Sinclair's software hungry QL readers. The address to write to is Your Sinclair, 14 Rathbone Place, London W1P 1DE.

Bit of a turn up for the books this — two new Speccy wordpros both claiming to be so good, users will junk their faithful *Taswords* and pay out for the upgrade. *Tasword* has been the top Speccy word processor since it came out and, since it's given away in the Sinclair microdrive kits, most microdrive owners already have a copy. But *Tasword* is far from perfect — it operates at near comatose speeds and simple things like inserting text are quite awkward! So the opportunity to do something better has always been there and Softechnics and OCP's challengers have been a long time coming ...

THE WRITE APPROACH

Let's look at *The Writer* first, simply because I like talking about well written, professional programs — and this is, quite simply, one of the most professionally produced business programs ever to load into a Spectrum. *The Writer's* writer has taken a serious look at wordpros on business micros and brought a lot of their features and style to the Spectrum. In particular, it owes a lot to the number one wordprocessor in the world — *WordStar*, a long-running package, for CP/M and MS DOS micros, that'll set you back more than the price of a Spectrum with Interface 1 and two microdrives!

The Writer uses a quite pleasant 64 column display with a status line at the top which tells you your document name, the page, line and column you're on, the state of the Speccy's shift keys and whether you're in insert or overwrite mode. Underneath this is a 'ruler line' showing the current margins and tab stops. As you enter text, it's formatted according to your current settings — justified, centred or whatever. If you edit a paragraph, it'll remain untidy until you use the reform key (Symbol-Shift/Y) to replay it out according to the current settings. If that ain't straight out of *WordStar*, what is?

While most common editing commands are on Symbol-Shift and Extend mode keys, all the complex editing functions are called up by pressing EDIT. A menu appears at the top line and you can move a little arrow using the cursor keys to select the item you want. A 'dialog box' will pop up over your text where you can choose the commands you want or enter new settings using the little arrow and the Enter key. This system is a doddle — you hardly need the complete help screens that can be called up off microdrive while you're editing! However, once you know the package, there's no quick way to execute these commands. The little arrow always reappears where it was last time you finished with a menu, so you spend a lot of your time driving it around the screen!

All these programs have around 20K free for text — about 3000 words. *The Writer* manages to keep its speed up admirably with all but the longest documents. One nice touch is a proper keyboard buffer — the Speccy remembers your keystrokes even while the program is busy so it doesn't matter if things slow down a bit.

PRINTS AND THE ROYAL MAIL

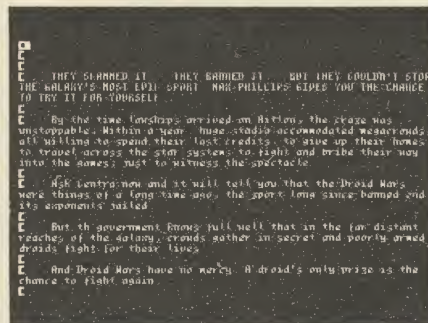
But *The Writer* really gets good when you come to print your documents. It offers a

WORD RAP

Tasword II is the undisputed king of Speccy word-processing. Now it's got serious rivals courtesy of Softechnic's The Writer and OCP's Word Manager. Max Phillips tries the challengers ...

superb mail-merge facility — you can generate personalised mailshots by combining a form document with names, addresses or whatever held in a data file. For example, you could mail all the members of your club with a standard letter that begins *Dear what-ever-your-name-is*, and so on. *The Writer* lets you SET variables in the document so that, for example, you only have to enter today's date and all the letters will have the current date on them. You can do calculations so that, say, each letter you send has the correct charges at the bottom depending on which items each person in the data file has ordered. Finally, you can do 'conditional printing' so that certain sections of text only appear if certain conditions are true — you could use this, for example, to add to a warning paragraph onto letters for club members who haven't paid their subs.

This kind of powerful word processing



Word Manager has no on-screen info except for the formatting markers in the left margin. The character set isn't exactly beautiful either ...

is an everyday thing in business computing but since there aren't many office-bound Speccys, its appeal will be limited to people with such pastimes as running a business from home, running a club and so on. More useful for most of us is true background printing — you can continue to work (at full speed) while printing out a finished document.

The Writer also has a communication program to allow files to be moved between tape, microdrive and other computers connected to Interface 1 RS232. The files can be in *The Writer* format, plain ASCII text or in *WordStar* format. This'll let you move documents between other word processors and micros. Unfortunately, the program is more awkward to use than *The Writer* and the so-called 'WordStar compatible' option is a bit of a con.

Although it handles the basic conversion, it doesn't translate *WordStar* formatting information such as page breaks and underlining into the relevant *The Writer* codes. And if you follow Softechnics's manual and use CP/M's PIP program to send the *WordStar* file to the Speccy, you can get the conversion done anyway by adding [Z] to the PIP command (read your manuals guys!). Going the other way, *The Writer* sends the wrong sort of carriage returns to the *WordStar* machine. So, either way, you've got to reedit the file once it's been transmitted. You might as well do the job yourself using ordinary microdrive commands — *The Writer* is about as *WordStar* compatible as *Tasword* and *Word Manager*!

The other utility you get is a program to convert *Tasword II* files to *The Writer* format — it's about as awkward as the communication program although it does do its job.

The Writer is damn impressive — our pre-release version shows only one serious bug — if you hold the down arrow down all the way to the end of the document and keep it down, the keyboard buffer packs up and you'll have to switch off. There are others — try replacing 'a' with 'aaaaa' — but nothing you can't work around. However, for all its features, it has one major flaw — you can't alter the line spacing of your text! Softechnics swears blind that you'll be able to before it's released — so it might be a while before it hits the streets!

THE LAST WORD?

Meanwhile, OCP must be kicking itself over *Word Manager*. True, it has some welcome features — it's the only one of the three that doesn't seem to slow down at all with very long documents and there's a word count and a 'swap words



The Writer uses pop-up 'dialog boxes' for more editing operations. These are very easy to use at first but get tiring once you know what you're doing.

over' command. But, even ignoring the bugs in the review version, it just doesn't compare with Softechnics's offering. It gets off to a bad start with a poorly designed 64 column character set and a flaky keyboard reading routine. There's no on-screen info apart from symbols in the left margin which indicate the formatting of the text on that line — although the border changes when you set Caps Lock or whatever. Unlike *The Writer*, which gracefully scrolls sideways to show you lines up to 127 characters in length, *Word Manager* wraps long lines round onto the screen, making the first 64 characters brighter than the rest of the line. Yuk!

All the commands are either the top key row (there's a Figs Lock so you don't have to hold Caps Shift down to use the cursor keys and so on), Symbol-Shift keys or Extend Mode keys. Their layout is confusing and you have to leave your text and return to the main menu to see the help screens! *Word Manager's* menus are fussy about capital and lower case letters even though you can't tell if Caps Lock is on or off and so on.

Text formatting is peculiar to say the least — paragraphs aren't formatted until you press Return at the end. To reformat after editing, you have to reformat the whole document from the main menu. If you don't want particular bits reformatted, you have to enter 'T' at the start of the paragraph you want left alone before you 'justify' the text. And while we're talking about silly things, the word count is only reliable if you first 'de-justify' the text from the menu, look at the word count and then 'justify' it again!

When it comes to printing, *Word Manager* can manage page numbers but not headers and footers like *WordStar*. There's a limited mail-merger option that works with OCP's *Mailing List Manager* and *Address Manager*. You can also 'slow print' text while you're editing another document. This will only work if you're printing a short document (it's kept in memory along with whatever else you're working on) although it failed to work at all on our version.

FINAL WORD

The best thing about these two new packages is seeing properly presented business programs on the Speccy. Both of them have all the basic facilities of real word processors and, like *Tasword*, can be installed for virtually any interface/printer combination. Both have proper length manuals although the copies we saw needed a fair bit of work before they were easy to read and use. If anything, the only thing that lets them down is that they've not been completely designed from the point of view of being easy and quick to use in anger. *The Writer* is very good but it isn't quite there yet!

When it comes to choosing, I've no doubt that *The Writer* will take over from *Tasword* as the best Speccy wordpro. Indeed, some of you old Tasworders should wander down to your dealer and take it for a test drive. However, since it needs a bit of sorting out, it may be a while before you have the opportunity. *Word Manager* has little appeal in comparison unless you already use OCP's database products. So, sorry about the claims guys, but for the meantime at least, *Tasword II* is King!

BIG THREE AT A GLANCE

	Tasword II Tasman Software (0532) 438301	The Writer Softechnics 01-240 1422	Word Manager OCP (0753) 888866
Tape	£13.90	£12.95	£12.95
Microdrive	£15.40	Can transfer	Can transfer
Opus disk	Can transfer	£19.95	Can transfer

● BASIC FEATURES

Max. text length	20480 bytes	20290 bytes	22782 bytes
Max. line width	64	127	128
Insert/Overtyping	YES, open up text, insert then reform		
Text reform	MANUAL	MANUAL	MANUAL (on whole document only)

● ON-SCREEN INFO

Formatting	•	•	•
Column	•	•	
Line	•	•	
Page		•	
Word Count			•
64/32 column switch	•		•

● CURSOR MOVEMENT

Character	•	•	•
Word	•	•	•
Paragraph		•	•
Top/bottom of text	•	•	
Page		•	
Start of line		•	•
End of line		•	

● DELETION

Character	Left	Left	Left or right, switchable
Word		•	•
Line	•	•	•
Paragraph			•

● BLOCK COMMANDS

Copy	•	•	•
Move	•	NO (can copy then delete!)	•
Delete		•	•
Write to storage		•	
Include from storage		•	No (can merge text then block move!)

● SEARCH/REPLACE

Search	•	•	•
Ignore case		•	
Whole word only		•	
Auto replace	•	•	•
Manual replace		•	

● FORMATTING

Full justify	•	•	•
Ranged Left			
Ranged Right	•	•	•
Centred	•	•	•
Bold	•	•	•
Underlined	•	•	•
Auto-indent		•	•
Margin Release	•	Left-only	
Line Spacing	•		Single or Double
Variable Tabs	No tabs	•	Only 1 tab
Right tabs		•	
Decimal tabs		•	
Access to other printer functions	8	14	
Force Page break		•	•
Header/Footers		Left, right, centre alternate	
Page numbers		Arab, Roman, alpha, anywhere in header or footer	Arab, top or bottom of page

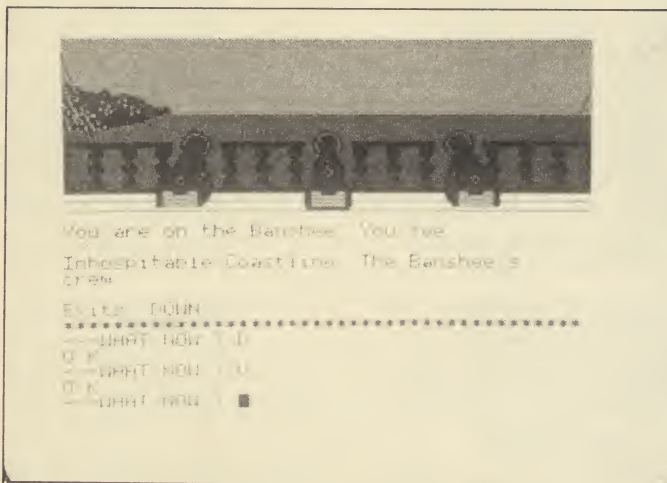
● PRINTING

No of copies	1 only	Can set	Can set
Draft print		•	
Partial print	Start line — End line	Start page — End page	Cursor — Marker
Background Print		• (not tape)	YES

YS ADVENTURES



The Grim Reaper works his fingers to the bone playing the latest adventures. Can you grim and bear it?



SEAS OF BLOOD

Adventure International/£9.95

Yessir! *Seas Of Blood* is just the sort of thing a depraved, bloodthirsty cavalier like myself is looking for! When you get this one slotted into your tape deck, the first thing that comes up on the screen is 'found blood!' More! Give us more!

And more you'll certainly get. Forget the goody-goody nonsense, and get stuck into this mega-number from Messrs Livingston and Jackson of Fighting Fantasy book fame. You take the part of a vile, blood-spilling pirate who has nothing better to do than sail the Inland Sea getting into scrapes and pinching other people's riches.

You start off on board your good ship the Banshee with your evil smelling crew. You must 'Sail North' (or 'South', or wherever the fancy takes you) until you come across a port or another ship. You'll have more fun meeting a ship, though, 'cos it's tally ho and into the fray!

The combat routines are great fun and quite similar to those used in the original books. Whenever you encounter the enemy, two sets of die (one for you and one for the opposition) start spinning on the screen to determine the outcome. After a few throws one or other of you will end up as food for the sharks!

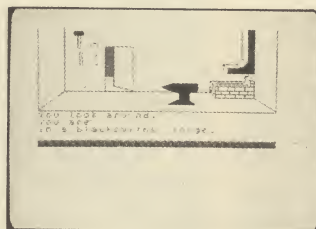
When you come across a port, you can 'Go ashore' or 'Go (name of port)' and engage the natives in a battle of the die, or should that

be a battle to the death? At the start of the game most of them give up without much of a struggle, but later on you'll find they're very unwilling to give up their gold!

As far as the pics and descriptions are concerned, this game's pretty standard Adventure International fare. It's programmed by Gremlin's Mike Woodroffe and Brian Howarth and looks very similar to their earlier creations — *Robin Of Sherwood* in particular. Remember how you found your way around Sherwood Forest by keeping a close eye on the display? Well, you can do the same thing here, should you find yourself lost in the inevitable jungle.

The trouble with this game though, is that it ignores everything it doesn't understand — that wouldn't be too bad, but it also ignores some things that it does understand! For example, if you type 'Wear helmet' (and you haven't picked it up), the program replies 'You can't do that yet', so you 'Get helmet' and then find that 'Wear helmet' is ignored! If you check the inventory you'll find you're actually wearing it.

This is a real bloodthirsty megaromp that no pirate should be without. The blurb claims 300 graphic locations but a lot of these are just stretches of empty ocean. By the way — you certainly ain't gonna find it easy to map. Stick to the shore till you've found your way about. Stick to this game me hearties and you'll have a ho, ho, ho and a bundle of fun.



QUEST FOR THE HOLY GRAIL

Mastertronic/£1.99

Hmmm! Haven't I seen this game somewhere before? Wasn't it back in 1905 or thereabouts? Well, at least it'll probably be cheaper now it's being distributed by Mastertronic.

Cheaper it may be but good it's not. It's full of naff jokes and everytime you make a move you're a gonner. I mean, what's so funny about being cut off in your prime by being shot at with great green lumps of snot! Ugh!

You play the part of Sir Tappin who's in search of the Holy Grail but I reckon you'll soon get tired of tappin' those keys. The graphics aren't that hot either, and they're even the same for different locations occasionally.

It'll take you ages to get anywhere in the game 'cos the program kills you off at every opportunity. Still, it is cheap. Perhaps that's all that matters ... perhaps!

RUNESTONE

Firebird/£7.50

Runestone's a *Lords Of Midnight* clone — it's got sleepless nights and aching fingers written all over it. In some respects it's better than its predecessor in others it's not.

What about the story? Yes, you guessed it — nasty orcs are marching down from the north (they always come down from the north) and knocking the stuffing out of the friendly, heroic folk they come across. As usual, there's a mega-nasty looming in the background called Kodimir and you've got to get out there and give him what for!

You control three heroes, an elf called Eliador, Rorthron — oops! sorry, I mean Greymarel the wizard and a warrior called Morval. These three must sally forth and discover the Runestone, a mystical gem that'll help you to destroy the evil Kodimir.

Know what I mean when I say it's a *Lords Of Midnight* clone? But although *Runestone* only allows you to control three characters it does offer you all the usual text input facilities you'd expect from a rip-roaring adventure.

While you're busy typing in commands like 'Tell Skrimnal to

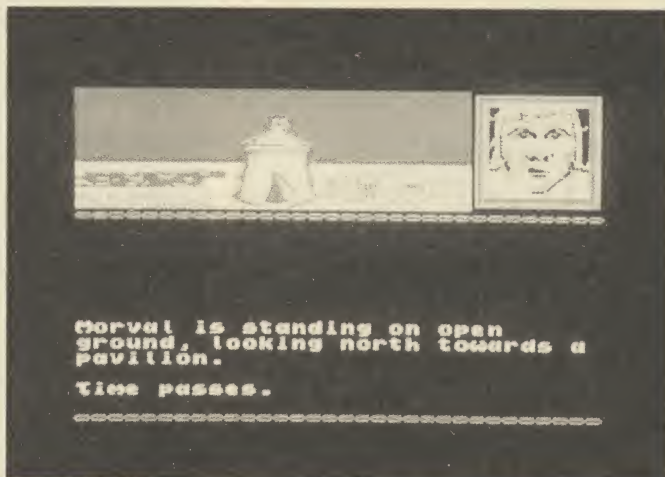
get lost', something you'll want to do pretty often, 'cos he's a right pain in the hauberck, the graphics will depict the landscape in the direction you're facing. You can only move in four directions, though, but at least the movements are smooth.

The piccies aren't as pretty as Mike Singleton's ones but they do the trick, and, if you want to treasure them forever you can always use the COPY command to dump them to your ZX printer. That's if you haven't already donated it to the local museum.

You can even have a quick natter with the characters and better than that you can give 'em a poke in the eye. There are some great combat sequences and you'll have even more fun if you rush on in there without a weapon. I had a great round of fisticuffs with Skrimnal the Sly, who deserved everything he got!

All this and you can cast spells! Or rather Greymarel can. One slight problem — he forgets the spells at the start of the game. Maybe a quick box round the lughole will jog his memory!

There ain't no doubt about it, *Runestone's* a smasher — you'll get to plaster a load of nasties and see the countryside. That can't be bad for only £7.50.



48K SINCLAIR SPECTRUM



"CYBERRUN" recommended retail price £9.95 inc VAT.

Available from W.H.SMITHS, BOOTS, J.MENZIES, WOOLWORTHS and all good software retail outlets. Also available from ULTIMATE PLAY THE GAME, The Green, Ashby-de-la-Zouch, Leicestershire LE6 5JU (P&P are included) Tel: 0530 411485





THE NEVER-ENDING STORY

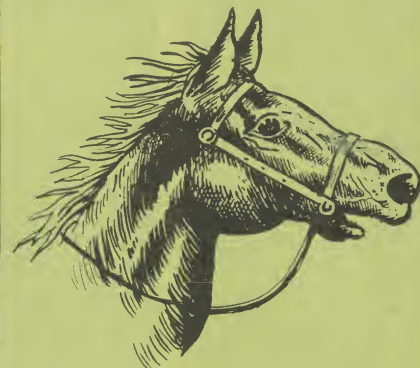
off against this backdrop. Every so often, you're treated to a snap-shot of Bastian in his attic, reading his Fantasia book.

And if you're wondering what The Fantasians look like, well, take a look at their piccies on the screen. There are plenty of them — some

Attic Attack

'Tis a dark and stormy night and all around is gloomy as you curl up to read your copy of YS. Strange things begin to happen when suddenly you're plunged into a world where . . . Read on and leave the real world behind.

ARTAX



Your faithful but heavy-footed steed. He's waiting patiently in Atreyu's home village. But you might as well leave him where he is if you're planning a trip to the swamps.

pretty weird! You'll encounter rockbiter, Teenweeny, and Night-hob at the start but they'll promptly disappear for the duration of the first episode. There're also Gnomes, Giant Tortoises, and Sphinxes — not to mention your faithful steeds, Artax and Falkor the Luckdragon. All the characters have a significant game role, though you won't get much chance to talk to them.

Mind you, the lack of an 'Examine' option is a far more serious loss. Even if everything you carry is illustrated, attribute problems and limited graphics resolution make some things unrecognisable — it'd certainly help if you could call up descriptions of the more obscure objects.

This drawback apart, the game's well designed and gets the best from the words it does understand. The responses are helpful, specifying

FALKOR THE LUCKDRAGON



You won't get far without him. He looks like a giant Irish Setter, but can whisk you away into the wild blue yonder. He's an absolute must for getting across otherwise impassable locations.

The Never Ending Story is the never ending success that grew from a best-selling book into a blockbuster film and finally into Ocean's latest adventure. And

what a mega-game it is too — it loads in four separate parts, has windowing graphics, over a hundred locations, and some very strange characters.

Our epic hero spends his time hiding away in the attic. Well, wouldn't you if your parents christened you Bastian Balthazar Bux. But Bastian doesn't just run away and hide up there — he skips off to another universe. There he finds Fantasia, a world facing extinction. Predictably, the job sorting out the mess falls to him . . .

Thing is, bits of Fantasia keep disappearing, swallowed by 'The All Consuming Nothing'. At the start, a lad from the plains, Atreyu, is chosen by his people to dash off and face all manner of danger and devilry in the search for someone who can save the world. That someone, of course, is Bastian, sitting in his attic reading all about Fantasia and its inhabitants. How Atreyu manages to track him down is up to you.

The display is one of the game's main attractions. On loading, a horizontal format picture of a vast plain beneath an evening sky appears across the top of the screen. Other images, such as little illustrations of what you're carrying and cameo pictures of your location, flash on and



MORLA



Morla squats in the heart of the swamp country, a cross between a tortoise and Mount Everest. He's a slow coach so you won't really find him that useful — still, he taught us a lot! Pay him a visit and he'll pass you a hint too.

ILLUSTRATION: NICK DAVIES



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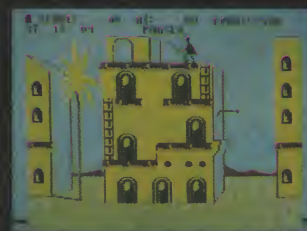
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I am Death - in all your adventures I am with you.
I am there when you come to a dead end - and when someone deals you a death blow. For a while I shall help you but you must send me your hints and tips. Ask the postman to put them under Death's Door, PS, 14 Rathbone Place, London W1P 1DE. Prepare to meet thy doom!

DEATH SENTENCE...

How long does it take you to crack an adventure? And just how much truth is there in the blurb on the cassette inlays that says things like, 'This adventure could take you months to solve!' and 'A year's worth of entertainment for only £15!?' Well, Martin Mulrany of Grangemouth writes in to say, "I'd just like to comment on your statement in *Your Spectrum 20* about Graeme Smith completing *Red Moon* in only one week — 'a record for Level 9 adventures'. I completed *Lords Of Time* in well under a week after its release!" Hmmm ... so, what's your quickest completion time on a game? And did you feel cheated when you'd done it?

Talking of the shortest time that you've ever completed an adventure in, write in and tell me just how many you've finished. Are you up there with John and Patricia Black who've completed no less than twenty on their overheated Speccy — including *Robin of Sherwood* and *Valkyrie 17*, one of my all-time faves. Or perhaps like last month's El Supremo, John Wilson of Rochdale, you find it easier to 'tot up the games you haven't yet completed! Are there any games you get stuck on, John?

Following last month's shenanigans with the characters from *Sherlock*, David Graham has spotted some very odd goings on in the game. He writes, "I was in Basil's house in *Leatherhead*, I opened the safe in the presence of Chief Inspector Straker and Doctor Watson. I'd brought them along as a safeguard 'cos the last time I tried it alone Basil shot me. This time he still shot me — with a policeman present! Now who in his right mind would shoot someone if he was trying to prove that he didn't kill Mrs Jones or Mrs Brown. It's all a bit strange, methinks!" Methinks so too. And how many of you have one of the early versions of the game in which Dr Watson got a trifle overchummy with Holmes and kept sitting on top of him.

Mind you, if you think that's bad what about the infamous bug that appeared in *Legion*, a game from Software Projects. It was in this immortal classic that you could go UP but you couldn't get back DOWN again. When I rang the company for help all I heard on the end of the line was a

scream of despair followed by some very Ancient Celtic incantations — none of them over four letters!

A SNOWBALL'S CHANCE

The illustrious Harvey Lodder has written in with umpteen clues but we'll start with his tip on *Snowball*. To put out the fire in the control room, he says, you need the fire extinguisher from the snowplough. And if you're in trouble with the sharks in *Waxworks*, just try SWIM — sounds easy, doesn't it? (*Sounds flippin' obvious! Ed*)

Gregory Timmis is crying out for help with *Sherlock* so look him up in the list and drop him a life-line. Even better if you're incarcerated in the Goblin's Dungeon in *The Hobbit* as he'll be able to help you. That must surely be one of the biggest prisons in the world if you can judge by the number of people still stuck there. Well, for all those of you doing porridge, Greg has your free pardon. Before you go, try breaking the trapdoor that you'll find underneath the sand. If you enter Break Trapdoor and then press Symbol/Shift 2 repeatedly, you'll be presented with Thrain's Key that unlocks the side door in the Lonely Mountain.

Calling Spidermen everywhere — Stuart Galt'll get you out of a sticky situation. Try ripping the picture in the penthouse and taking the paper. Then take the exotic chemicals, go to the lab and MAKE WEB. Then use the web to stop the fan.

Alexander Kruczkowski has some very bizarre clues for *Erik The Viking* — buy the tabby cat for 2oz of gold/silver then tie the bell to it, open the slab door and cut the beard with the clippers. Hmmm, come back *Monty Python*, all is forgiven!

Finally, when you come to scour the lists of names, pay special attention to poor old K R Hill — he's stuck fast in *Wrath Of Magra*. Now I rate this game but we never seem to receive any letters about it. Is there anyone out there who's been playing it and would like to spill the beans? Just drop me a parchment at *Your Sinclair*, 14 Rathbone Place, London W1P 1DE.

KINGS OF THE CASTLE...

Knight's Quest, Planet of Death, Magic Castle
Christer Andersen, Rorlokken 49, 2730 Herlev, Denmark

Final Mission, Mountains Of Ket, Temple Of Vran, The Castle, The Prisoner, Tower Of Despair, Twin Kingdom Valley
James Wilson, 26 SpotlandTops, Cutgate, Rochdale, Lancashire, OL12 7NX

System 15000, The Hobbit, Snowball, Inca Curse, Waxworks, Urban Upstart, Super Spy, Espionage Island, Planet of Death, Velnors Lair and many more
Harvey Lodder, 35 Shelley Avenue, Bullbrook, Bracknell, Berkshire, RG12 2RP

Inca Curse, The Thompson Twins Adventure
Toby Blake, 25 Holm Park, Inverness, Scotland, IV2 4XT

Final Mission, Temple Of Vran, Planet Of Death, Kentilla, Sherlock, The Hobbit, Urban Upstart, Valhalla, Subsunk, Golden Apple and many more
John and Patricia Black, 137 Legahory Court, Craigavon, N Ireland, BT65 5DF

Planet Of Death, Spiderman, Gremlins, Pyjarama, The Hobbit, Sherlock
Stuart Galt, Tigh-Na-Creag, Pier Road, Rhu, Dumbartonshire, G84 8LH

ON THEIR DEATH BEDS...

Spiderman — Help!!
Christer Andersen, Rorlokken 49, 2730 Herlev, Denmark

Eureka — How do I get the hollow log out of the swamp without being trodden on? *Erik The Viking* — any help appreciated
C Southouse, 32 Chestnut Drive, Polegate, East Sussex, BN26 5AN

Final Mission — I would welcome any help and advice.
Carl Barker, The Post House, Sparsholt, Winchester, Hants, SO21 2NR

Quest — How do I get in the castle?
Simply Desperate G A Tillins, 15 Gloucester Road, RAF Wyton, Huntingdon, Cambs, PE17 2HD

Sherlock — How do I get past Tricia's door and get to Old Mill Road?
David Walton, 22 Green Lane, Lower Kingswood, Tadworth, Surrey, KT20 6TB

Mission 1, Project Volcano — How do I get past the droid in the lift on floor 1?
Michael Williams, 15 Hardwick Ave, Chepstow, Gwent, NP6 5DJ

Ship Of Doom, Valhalla — Helppppp!!!
Benjamin Ellis, 7 Wallace Street, Dumbarton, Scotland, G82 1HH

Hunt For The Sun God — I can't cross the river or enter the temple.
Andrew Melvin, 44 The Causeway, Burwell, CB5 0DU

Spiderman — How do you clear the mist, Kill Electro, and take the gem from Sandman?
Edgar Wright, 40 Southover, Wells, Somerset, BA5 1UH

Heroes Of Karn — Too many questions to print!
Andrew Gordon, 5 Cairnlee Terrace, Beilside, Aberdeen, Scotland, AB1 9DE

Kentilla — How do I get into Tylons Castle. What use is the Conch?
A N Manson, 13 Riselaw Terrace, Edinburgh, EH10 6HW

El Dorado — Any help appreciated.
Stephen Martin, 21 India Drive, Inchinnan, Renfrew, PA4 9LF.

Final Mission — I can't pass the guardians of gates 2 or 4.
Andrew McCubbin, 3 Kenilworth Drive, Airdire, Lanarkshire, Scotland, ML6 7EY

Mordon's Quest, Eureka — Any help appreciated.
Susan Kinsey, 14 Kensal House, Ladbroke Grove, London, W10

Urban Upstart — I cannot get in the Town Hall, and what do I do when I'm in there?
Alan Pitt, Church View, Ormesby St, Margaret, Gt. Yarmouth, Norfolk, NR29 3P2

Spiderman — I can't get Mysterio
John James, 41C Barras Lane, Spoon End, Coventry, CV1 3BU

Twin Kingdom Valley — Lost in the little twisty passages.
Stewart Robinson, 184 Nuncargate Road, Kirkby-in-Ashfield, Notts, NG17 9EA

Hampstead — I keep getting mugged.
Mr G A Harris, 11 Woburn Drive, Hale, Altrincham, Cheshire, WA15 8LZ

Eureka — Help, help, help, help!!!
James Webb, 21 Ballycraggan, Puckane, Co Tipperary, Ireland

Hampstead, The Planet of Death — Any help appreciated with Lord Fish and the Forcefield.
Toby Blake, 25 Holm Park, Inverness, Scotland, IV2 4XT

The Fourth Protocol — Cannot answer Plumb's questions correctly.
Clive Lemon, 14 Greenfield Close, The Mount, Liphook, Hampshire, GU30 7QF

The Hobbit — Stuck in the Goblin's Dungeon.
Christopher Coventy, 28 Woodlea Close, Bromborough, Wirral, L62 6DL

The Hobbit — How do I Kill the Dragon?
Richard Weeber, 20 Barry Close, Chadwell-St-Mary, Grays, Essex, RM16 4SU

The Wrath Of Magra — How do I get out of the Valley (stage 1)?
K R Hill, 1 Lake Cottages, Lake Lane, Barnham, W Sussex. PO22 0AJ

Sherlock — How do I stop Lestrade arresting the Major?
David Graham, 34 Maryfell, Sedbergh, Cumbria, LA10 5AW

Sherlock — Can't get to Old Mill Road.
Gregory Timmis, 129 Sunnycroft, Burton, Stoke-on-Trent, ST3 4BB

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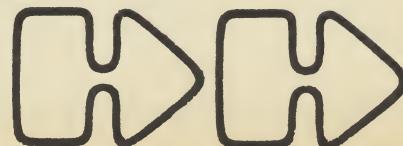
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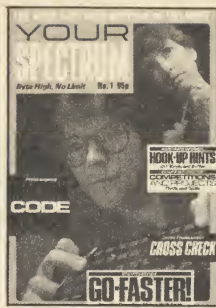
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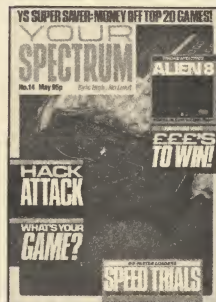
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






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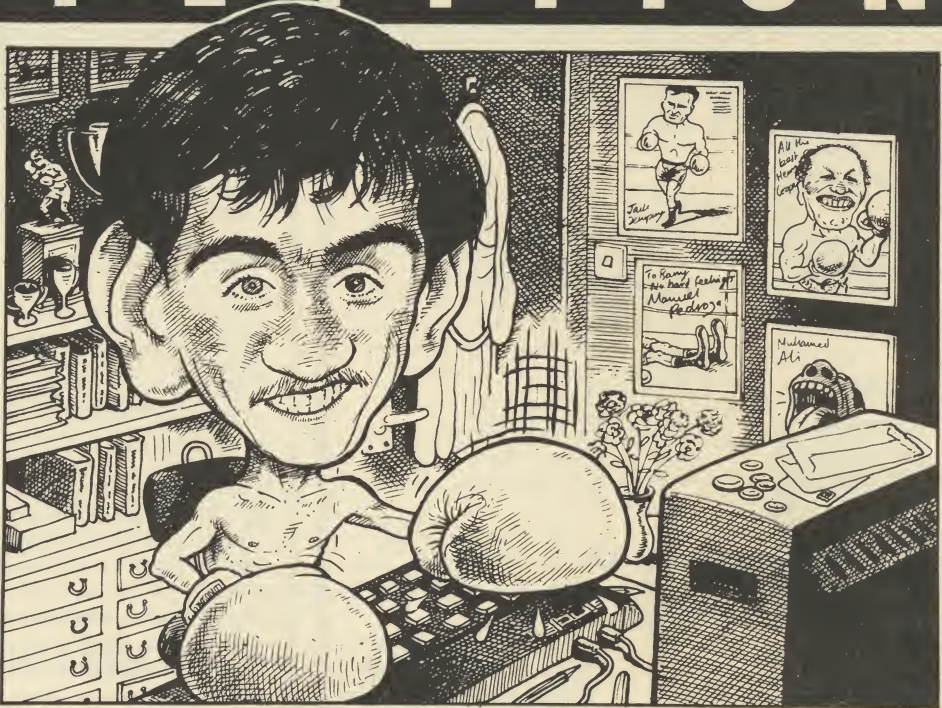
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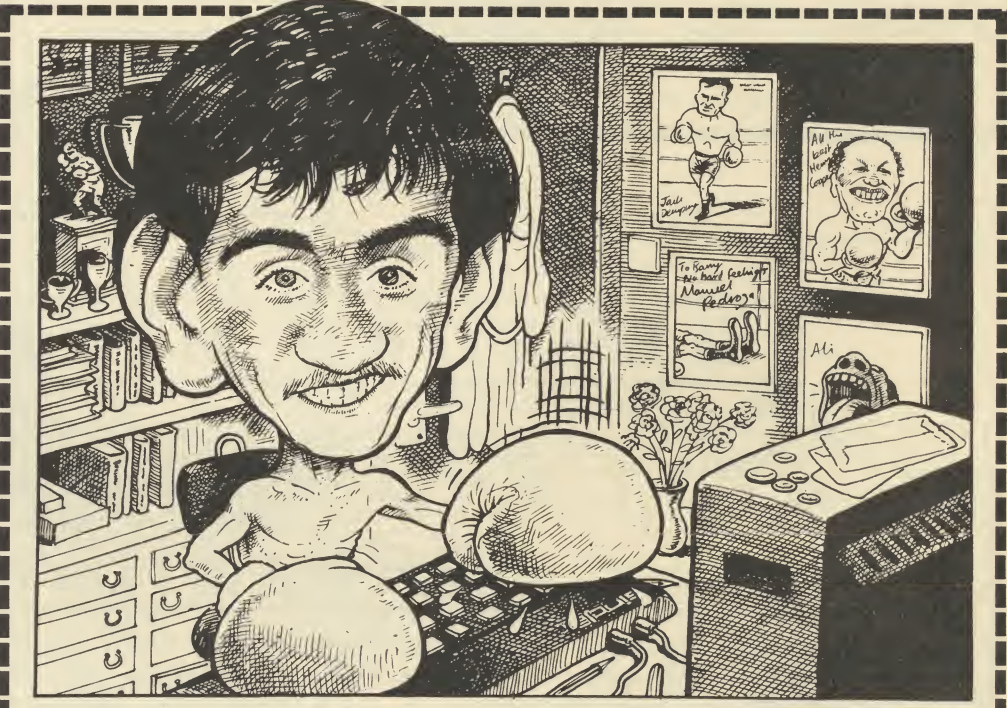


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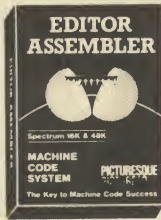
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DROID WARS!

The far flung colony planet Alioth, a tiny unwanted outcrop in the 4th Spiral of the Nebula, has no place in galactic history. Save for one little known event — it was here that the settlers, tired of the tedium of endlessly nurturing the barren planet, first armed their farm droids and let them fight to the death in the very fields they'd created.

What should have been an isolated incident spread

through the colonies like the hundred year plague. Watching the barely intelligent droids fight it out was a new excitement — there was a crazy, mindless freedom about it. One that provided a release for the tension and bitterness many felt on finding their promised Edens were to become endless hells. Droid fighting became regular village entertainment and tradeships carried the craze throughout the outer worlds. Very soon, settlers exchanged the meagre living of their farmsets and were touring the planets, polishing up their own metal gladi-

ators and preparing for the big fights.

By the time lawships arrived on Alioth, the craze was unstoppable. Within a year, huge stadia accommodated megacrowds, all willing to spend their last credits, to give up their homes, to travel across star systems, to fight

and bribe their way to the games just to witness the spectacle. Ask CENTRA now and it will tell you the Droid Wars were a long time ago, the sport long since banned and its exponents jailed. But the government well knows that in the far, distant reaches of the galaxy, crowds gather in secret and poorly armed, low intelligence droids are walled in the arena and forced to fight for their lives. And Droid Wars have no mercy — a droid's only prize is the chance to fight again...

They slammed it ... they banned it ... but they couldn't stop the galaxy's most evil sport. Max Phillips gives you the chance to try it for yourself ...



ILLUSTRATION: WILLIAM SIMPSON

DROID WARS!

DESIGNING YOUR DROIDS...

CHOOSE YOUR WEAPONS

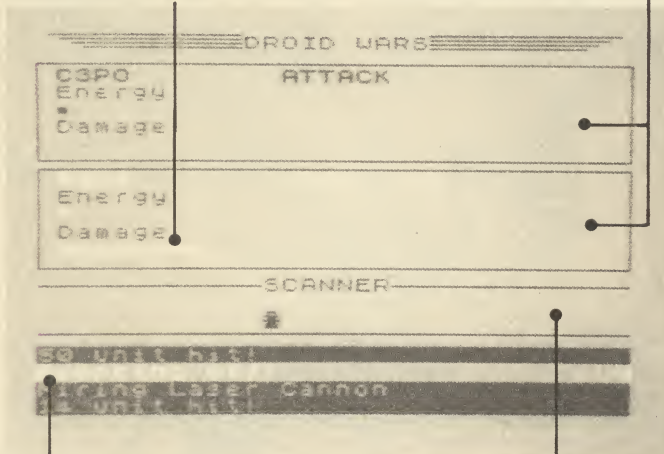
If you can't afford the trip to the other worlds or haven't the years to spare, you can at least experience Droid Wars by bashing in the simulation program here. Once it's running, press the R and B keys and design yourself two war droids using the available materials — and remember, depending on the motive unit you fit to your droid, you'll be limited as to the weapons and defences you can bolt onto it.

When your droids are ready, press F, sit back and watch the fight! May the best droid win but remember that lady luck will play her part. You can always fight the same designs again or go back and tweak their various features. And if you're feeling wimpish, you can hold down the mercy key during a fight and save the two gladiators. This is sometimes your only option — if two droids are evenly matched you may find they run out of ammunition and beat themselves into exhaustion. In the outer worlds, the droids are carried from the arena, repaired and replenished and then forced to fight again...

WELCOME TO THE ARENA

Always watch the damage bars — when they reach 100 per cent total damage, the next hit destroys that droid.

Each droid's energy and damage levels are continually on view.



Here's the commentary box — a complete blow-by-blow guide to what is happening during the fight.

The scanner shows you the relative position of the two droids as they pursue each other around the arena.

DROID DESIGN WORKSHOP

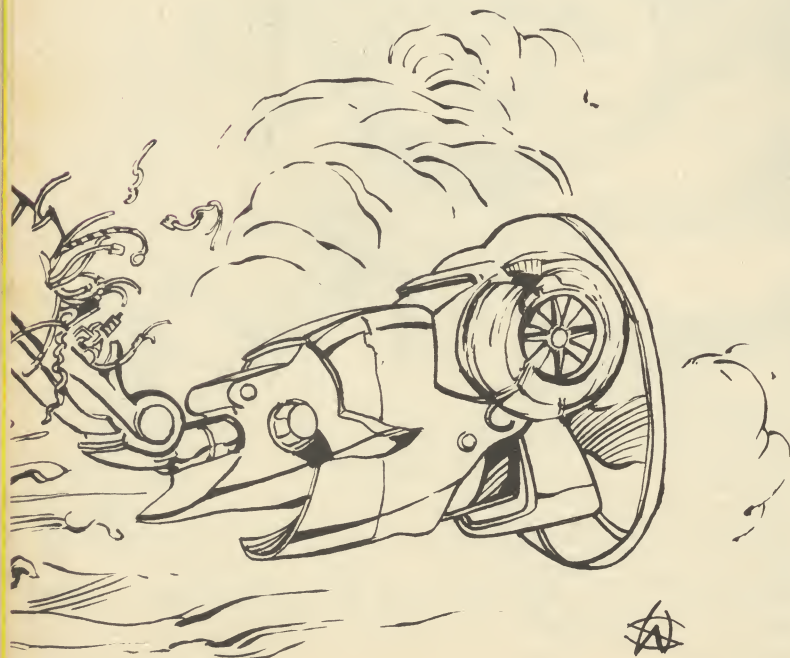
Droid: Darter		GENERAL	
WEAPON SYSTEMS		GENERAL	
Plasma Bolt	0	Hit Type	2
Laser Cannon	10	Shielding	20
Shock Bombs	10	Autorepair	20
Energy Lance	1	Fuel	35
VISION SYSTEMS		PROGRAMMING	
Range Tracker	1	Aggro	100
Local Radar	0	Path	30
Thermic Eyes	0	Attack	20
		Breakoff	10
Weight	20	Maximum	20

Please just Enter for next item.
Enter 0 when you've finished.

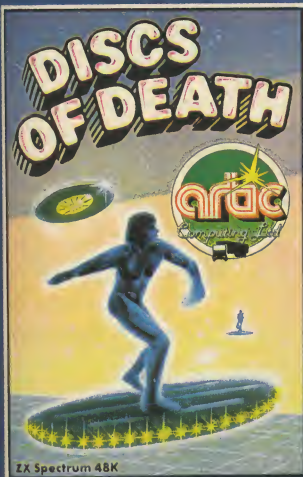
- **Vanity Spot:** All fighting droids have names — either that of their master or one of their own!
- **The Plasma Bolt** is the most dangerous and effective weapon available — it's so heavy droids rarely carry more than one but the results can be very effective! Range: 60, Weight: 5 + 80 per round.
- **A Laser Cannon** is the basic weapon of fighting droids — the short, rapid blasts of laser fire are both nasty enough and light enough to be a very effective weapon. Range: 40, Weight: 5 + 5 per round.
- **Shock Bombs** are a hit and miss weapon. Hurling them at your opponent often misses but is pretty unpleasant when it hits! Range: 25, Weight 3 + 5 per round.
- **The Energy Lance** is the only hand-to-hand weapon allowed — a drill is extended into the body of the opponent which is then energised. The results, on droids at least, depend quite where the lance hits. Range: 2, Weight 30.
- **Long Range Trackers** are the most effective vision system available and they provide extremely accurate targeting. Range: 100, Weight 20.
- **Local Radar** is the most popular vision system as it is reasonably capable while being quite light. Range: 50, Weight 10.
- **Thermic eyes** provide very limited if reliable vision. Range 30, Weight 5.
- **Motive Unit.** This is the most important element of your droid as it provides the basic framework for all other features. It's usual to pick this first and then set your other choices. There are four types available as shown below:

Type	Max Weight	Max Speed
1 HOVVERJET	180	12
2 WALKERS	220	8
3 SPEEDTRAX	200	8
4 MAXITRAX	240	6

- **Shielding** is essential if you don't want your droid to die in the first exchanges of a fight.
- Every modern droid is equipped with a certain percentage of self-repairing and regenerative circuits to allow it to work even when damaged. When a droid breaks off from an engagement, these circuits are put to work repairing any damage that has been done. What's more, if the droid is 100 per cent healthy, the circuits will top up the droid's energy supplies.
- **Fuel** is essential to a droid's survival — moving, seeing and fighting all use up energy and it's rare that any droid that starts with less than 50 units of fuel will live to fight again. However, you can use autorepair circuitry to keep the fuel topped up.
- Although fighting droids are of limited intelligence, they still need to be programmed for the fight. Programming can make all the difference between life and death. This first setting is how aggressive (from 0-100) the droid is and dictates how easily it is provoked into retaliation.
- Set your **Pain threshold** very carefully — too high and the droid will be dead before it has retreated — too low and it won't stick around long enough to shoot back!
- **Attack Range** also needs careful setting — too far away and weapons are unreliable. Once long range weapons are used up, a high attack range also confuses the droid!
- When it's had enough, a droid will attempt to retreat and recuperate. This setting is the time the droid will spend running away before it turns around and goes back in to the fray...



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The world-famous reporter, Ben of the Chronicle, has been sent to the Houses of Parliament to piece together a big story that is about to break. To obtain his story he must approach the politicians, exchanging gifts for the leaked information. Can you recognise Maggie lurking in 'the house', or Geoffrey Howe, or the many other celebrities here to haunt you. The game includes a screen kit with which you can totally re-design your own screens!

SPECTRUM 48K **£6.95**



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PING PONG



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of the game

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*You can almost feel the tension of the big match breaking through the screen... the expectant crowd is almost on top of you! You return the service with a **Top-spin Backhand**, then a **Forehand Back-spin**, the ball bounces high from your opponent's looping, defensive lob... **SMASH!**... a great shot opens the score... but this is only your first point! Play head to head or against the computer in this, Konami's first and best table-tennis simulation.*



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OFFICE MASTER

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Database



Use this program for storing all types of information just the way YOU want to store it. You set up a computerised 'card index' system and add records and data to the file in the format that you choose. Advanced features include sorting and searching for specific records, mathematical calculations, printer routines, data summaries, etc. If you don't have a database, you certainly should!

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This is a specially designed database for storing names and addresses, and printing out in label format. Special search routines are included for selecting only names and addresses that conform to your criteria. The famous Gemini 'Searchkey' facility is included with this program, and data entry is simplified by an on screen label painting system. Just type in those names and addresses as though you were using a typewriter!

Stock Control



One of Gemini's speciality programs, this software will take the drudgery out of keeping stock records. Enter details of part number, description, unit quantity, cost price, selling price, minimum stock level, units in stock, order quantity and supplier details. Detailed reports include totals of stock at cost and sale price, cost of bringing stock up to level specified, gross margin, understocked items, etc. Full browsing facilities to make inventory management a pleasure!

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This is a full and comprehensive cash book accounts system designed to REPLACE your manual ledger entirely. It will take you from the 'shoebox' situation of sheaves of invoices, cheque book stubs, petty cash vouchers and bank statements etc. to a properly constituted trial balance. You may then take your FINAL - ACCOUNTS package and produce profit and loss account and balance sheet ready for audit. A REAL money saver when it comes to your accountancy bill!

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Using the data file on microdrive or cassette prepared by the cash book program, this software will produce comprehensive end-of-year reports ready for audit by your professional adviser. The Gemini cash book and final accounts system is now in use by many thousands of businesses and as a 'classic' professional program has been translated for a wide variety of micros. Cash - book and final accounts alone warrant the purchase of this OFFICE MASTER program pack.

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Designed as a complete financial and budgeting package for home affairs, this program allows the user to set up a budget for items of household and family expenditure and compare actual expenditure with budget as often as required. A running total of surpluses and deficits is available both numerically and in bar graph form. A complete bank account routine is included, together with suggested expenditure categories which may be simply altered as required.

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At last, superb graphs, bar charts and pie charts on your Spectrum! With a complete data entry section and the ability to load and save files, this is really one of the fun programs to use. Represent numbers and data in clear diagrams with this package, and print them out on your printer to accompany reports, budgets, etc. Very highly recommended for the office, home and school. Also includes capability to provide mathematical function plotting.

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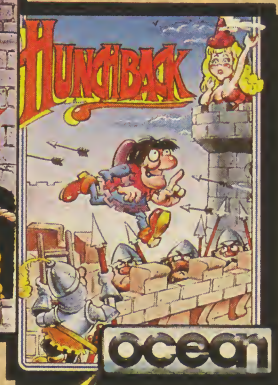
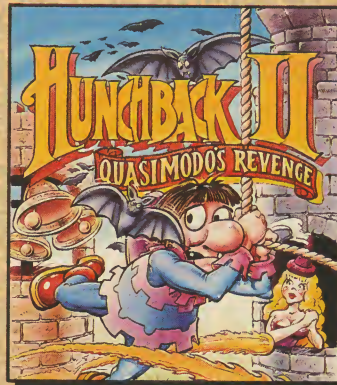


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DROID WARS!

anzaiiii!"

1420 GO SUB 220: GO TO 1910

Lines 1395-1420 Hunt Mode: Close in on enemy until within attack range.

```

1495 REM Attack mode
1500 GO SUB 350: IF ran=999 THEN
  LET mod=1: GO TO 1910
1505 LET wn=0: IF CODE r$(4) AND
  FN h()>dam THEN LET wn=4
  m THEN LET wn=3
1515 IF CODE r$(2) AND FN h()>da
  m THEN LET wn=2
1520 IF CODE r$(1) AND FN h()>da
  m THEN LET wn=1
1530 IF wn=0 THEN LET a$="Weapo
  ns failure!": GO SUB 220: GO TO
  1910
1535 IF ran>W(wn,1) THEN LET a
  $="Out of range.": GO SUB 220: L
  ET mod=1: GO TO 1910
1540 LET a$="Firing "+W$(wn): G
  O SUB 220
1545 LET en=en-1: LET w=w-V(wn,5
  )-1: LET r$(wn)=CHR$(CODE r$(wn
  )-W(wn,5))
1550 LET acc=W(wn,2): IF r$(5)=
  CHR$(1) AND FN h()>dam THEN LET
  acc=7000
1555 PRINT AT 16,olp: INVERSE 1:
  CHR$(144): AT 16,olp: INVERSE 0: CH
  R$(144)
1560 IF FN h()>acc/(ran+1) THEN
  LET a$="Missed!": GO SUB 220:
  GO TO 1910
1565 PRINT AT 16,olo: OVER 1: FL
  ASH 1: ""
1570 LET pd=W(wn,3)+RND*(W(wn,4
  )-W(wn,3))
1580 LET esr=CODE o$(9)*(100-CO
  DE o$(24))/100
1585 LET pd=5+pd*(100-esr)/100:
  LET pd=INT pd
1586 FOR i=1 TO pd*2: OUT 254,17
  0: OUT 254,85: NEXT i: BORDER 4
  : PRINT AT 16,olo: INK 0: CHR$(14
  4): LET a$=STR$(pd)+" unit hit!":
  GO SUB 220
1587 LET z=CODE o$(24): LET o$(2
  5)=CHR$(CODE o$(25)+pd): LET o$(
  24)=CHR$(CODE o$(24)+pd)
1590 IF o$(24)>CHR$(100) THEN GO
  SUB 210: LET a$=n$(o)+" Destroy
  ed!": GO SUB 220: LET a$=n$(r)+"
  Is The Victor!": GO SUB 220: GO
  TO 2010
1592 FOR j=oo-17 TO oo-15: PLOT
  INK 0: z+8, j: DRAW INK 0: pd, 0:
  NEXT j: GO TO 1910
  
```

Lines 1495-1592 Attack Mode: Pick the best weapon available and have a go at him!

```

1595 REM Chicken mode
1600 LET dir=+1: GO SUB 240: IF
  r$(26)=CHR$(0) THEN LET mod=1:
  LET r$(25)=CHR$(0): GO TO 1910
1610 LET r$(26)=CHR$(CODE r$(2
  6)-1): LET dam=dam-ar: IF dam<0
  THEN LET dam=0
1615 FOR j=or-17 TO or-15: PLOT
  INVERSE 1: dam+8, j: DRAW INVERS
  E 1: ar, 0: NEXT j
1620 IF dam=0 AND w+ar<M(CODE r$(
  8), 1) THEN LET en=en+ar: LET w
  =w+ar
  
```

Lines 1595-1620 Break-Off Mode: Run Away, make repairs and don't stop until break-off period is over.

```

1900 REM clean up & loop
1910 LET en=en-en*(en<0): FOR j=
  or TO or+2: PLOT INVERSE 1: 8, j:
  DRAW INK r; en, 0: DRAW INVERSE
  1: 240-PEEK 23677, 0: NEXT j: PRI
  NT AT 2+(r+s)*6, 13: M$(mod)
1920 LET r$(23)=CHR$(mod): LET r$(
  24)=CHR$(dam): LET r$(22)=CHR$(d
  am): LET r$(21)=CHR$(p): LET r$(20
  )=CHR$(w)
  
```

```

1930 IF r=s THEN LET s=r$: LET
  f$=o$: LET es=en: LET ols=olp
1940 IF r=f THEN LET f=r$: LET
  s$=o$: LET ef=en: LET olf=olp
1950 LET a$=INKEY$: IF a$<>"m"
  AND a$<>"M" THEN GO TO 1310
1960 GO SUB 210: LET a$=b$: GO
  SUB 220: LET a$=" SAVED BY
  YOUR MERCY!": GO SUB 220: GO TO
  2010
  
```

Lines 1900-1960 Update arrays and energy bar and loop again.

```

2000 REM *** Menu
2010 LET mnu=1: LET a$=b$: GO S
  UB 220: LET a$=p$: GO SUB 220
2110 LET a$=INKEY$: IF a$="" THE
  N GO TO 2110
2120 IF a$="a" AND a$<="z" THEN
  LET a$=CHR$(CODE a$-32)
2130 IF a$="B" THEN LET r=f: GO
  TO 3010
2140 IF a$="R" THEN LET r=s: GO
  TO 3010
2150 IF a$="F" THEN LET mnu=0:
  GO TO 1110
2200 IF a$<>"Q" THEN GO TO 2110
2210 PAPER 7: INK 0: BORDER 7: C
  LS: GO TO 9999
  
```

Lines 2000-2210 Stick the menu in the window and fetch a command.

```

3000 REM ** Create/edit Droid
3010 INK 0: PAPER 6: BORDER 6: C
  LS: PRINT TAB 5: "DROID DESIGN
  WORKSHOP""Droid: ";n$(r)"" INK
  r;"WEAPON SYSTEMS GENERAL""
3020 PRINT INK 0:"Plasma Bolt
  XXX Motive type X""Laser cann
  on XXX Shielding XXX""Shock B
  omb X Auto repair XXX""Ener
  gy Lance X Fuel XXX""
3030 PRINT INK r;"VISION SYSTE
  MS PROGRAMMING"" INK 0:"Rang
  e Tracker X Aggro XXX""L
  ocal Radar X Pain XXX""
  "Thermic Eyes X Attack X
  XX""TAB 18:"Break-off XXX""We
  ight XXX Maximum XXX""
3040 PRINT: PRINT "Press just E
  nter for next item. Enter Q when
  you've finished."
3170 LET r=d$(r): FOR i=1 TO 15
  : LET a$=STR$(CODE r$(i)): LET a$
  =" "(1 TO (3-LEN a$)*(V(i,3)>9)
  )+a$: PRINT AT V(i,2),V(i,1):a$:
  : NEXT i: GO SUB 150
  
```

Lines 3000-3170 Draw editor screen.

```

3180 LET i=0
3190 IF i>0 THEN GO TO 3250
3200 PRINT AT 2,7: FLASH 1:n$(r
  ): LET a$="": INPUT LINE a$: I
  F a$="q" OR a$="0" THEN LET r$(
  20)=CHR$(w): LET d$(r)=r$: PRINT
  AT 2,7;n$(r): GO TO 1010
3210 IF a$<>" " THEN LET n$(r)=a
  $
3220 PRINT AT 2,7;n$(r): GO TO
  3290
3250 LET v$=STR$(CODE r$(i)): LE
  T v$=" "(1 TO (3-LEN v$)*(V(i,3
  )>9))+v$: PRINT AT V(i,2),V(i,1)
  : FLASH 1:v$: LET a$="": INPUT
  LINE a$: IF a$="" THEN GO TO 3
  270
3252 IF a$="q" OR a$="0" THEN L
  ET r$(20)=CHR$(w): LET d$(r)=r$:
  GO TO 1010
3255 LET a=0: FOR j=1 TO LEN a$:
  LET a=a$(j)<"0" OR a$(j)>"9": N
  EXT j: IF a=1 THEN BEEP .5,12:
  GO TO 3250
3257 LET a=VAL a$: IF a>V(i,3) O
  R (i=8 AND a=0) THEN BEEP .5,12
  : GO TO 3250
3260 LET t=CODE r$(i): LET r$(i)
  =CHR$(a: GO SUB 150: IF w>M(CO
  DE r$(8), 1) THEN LET r$(i)=CHR$(
  t: PRINT 0: FLASH 1:"OVERWEIGHT
  ": BEEP .5,12: FOR j=1 TO 50: NE
  XT j: GO SUB 150: GO TO 3250
3265 LET v$=STR$(CODE r$(i)): LE
  T v$=" "(1 TO (3-LEN v$)*(V(i,3
  )>9))+v$
  
```

```

3270 PRINT AT V(i,2),V(i,1):v$:
  3290 LET i=i+1: IF i>15 THEN LE
  T i=0
3295 GO TO 3190
  
```

Lines 3180-3295 Collect a value, validate it and alter array if necessary. Quit to menu with the Q command.

```

8000 REM Init it bit
8001 PAPER 7: BORDER 7: INK 0: C
  LS
8002 PRINT "YS Droid Wars""Ple
  ase Wait!": AT 21,10:1985 Stran
  ge Software"
  
```

Lines 8000-8002 Well, initialisation takes so long, there ought to be something to look at!

```

8010 LET r=1: LET f=1: LET s=2:
  LET mnu=1
8015 LET b$="
  "
8017 LET p$="? Red Blue Fi
  ght Quit ?"
8020 DIM l$(4,34): REM scroller
8025 FOR i=1 TO 4: LET l$(i)=CHR
  $(16+CHR$(0+b$)): NEXT i
8030 REM Mode display
8040 DIM M$(3,10): LET M$(1)="HU
  NT": LET M$(2)="ATTACK": LET M$(
  3)="BREAK-OFF"
8045 DIM W$(4,15): LET W$(1)="Fl
  asma Bolt": LET W$(2)="Laser Can
  non": LET W$(3)="Shock Bomb": LE
  T W$(4)="Energy Lance"
8050 DEF FN h()=INT (RND*100)+1
  
```

Lines 8010-8050 Set up sundry items.

```

8100 REM Droid Array
8110 DIM d$(2,30): DIM n$(2,11)
8120 LET a$="": FOR i=1 TO 30:
  LET a$=a$+CHR$(0: NEXT i: LET a$(
  8)=CHR$(1: LET a$(20)=CHR$(30
8130 FOR i=1 TO 2: LET d$(i)=a$
  : LET n$(i)="- no name -": NEXT
  i
8140 REM Awful Droid UDG
8145 FOR i=0 TO 7: READ a: POKE
  USR "A"+i,a: NEXT i: DATA 60,36
  ,126,60,255,60,126,126
  
```

Lines 8100-8145 Set up droid arrays and awful UDG character!

```

8150 REM MPD Visit
8160 DIM M(4,3): FOR i=1 TO 4: F
  OR j=1 TO 3: READ M(i,j): NEXT j
  : NEXT i
8170 DATA 180,12,30,220,8,50,20
  0,8,50,240,6,65
  
```

Lines 8160-8170 Set up Motive Unit table.

```

8200 REM Designer Table
8210 DIM V(15,5): FOR i=1 TO 15
  : FOR j=1 TO 5: READ V(i,j): NEX
  T j: NEXT i
8220 DATA 13,6,255,5,50
8230 DATA 13,7,255,5,5
8240 DATA 13,8,255,3,5
8250 DATA 15,9,1,30,0
8260 DATA 15,13,1,20,0
8270 DATA 15,14,1,10,0
8280 DATA 15,15,1,5,0
8290 DATA 31,6,4,0,5
8300 DATA 29,7,100,0,1
8310 DATA 29,8,100,0,1
8320 DATA 29,9,255,0,1
8330 DATA 29,13,100,0,0
8340 DATA 29,14,100,0,0
8350 DATA 29,15,100,0,0
8360 DATA 29,16,100,0,0
  
```

Lines 8200-8360 Designer Table -- this holds all the validation stuff needed by the designer as well as the weights of each element.

```

8400 REM Weapons table
8410 DIM W(4,5): FOR i=1 TO 4: F
  OR j=1 TO 5: READ W(i,j): NEXT j
  : NEXT i
8420 DATA 60,2000,40,50,1
8430 DATA 40,1800,10,20,1
8440 DATA 25,1600,15,30,1
8450 DATA 2,7000,5,15,0
8500 GO TO 1100
  
```

Lines 8410-8500 Set up Weapons Table. What would happen if you changed that 60 into ...?

HARDWARE

■ Spectrum Wafadrive with word processor. Hardly used. Worth £130, will accept £95 ono. ZX Printer £20. Currah MicroSpeech + tape £16. Tel. (0306) 882262 after 5 pm and ask for Robert.

■ Dk'Tronics Light Pen in original packing — £12. Two rolls of ZX Printer paper — £2.50 magazines, worth £40 — £7. Tel. (0705) 482700 after 6 pm and ask for Matthew.

■ Help!!! Can anyone please tell me how to switch Eproms and RAM into the Sinclair ROM area (and any other place in the 64K). Diagrams and circuit drawings of the hardware described in *YS* no. 14, page 40/41 also wanted. Please write to Odin H. Sørensen, Kajerød Vaenge 33, 3460 Birkerød, Denmark.

■ ZX Spectrum with tape recorder, Protek switchable interface, joysticks and over £250 games. Would cost £470 new, all in vgc, sell for £250 ono. Tel. Larkhall (0698) 887959 and ask for Steven.

■ Stonechip add-on keyboard for Spectrum+. Just plugs in, no soldering required. Sell for £20 ono. Tel. (0454) 412831 and ask for Alan Tobias.

■ Swop Wafadrive, Currah MicroSpeech, Kempston Interface, *White Lightning*, *Glass Starion*, *Melbourne Draw*, *HURG*, *Psytron*, *The Artist* for Microdrive+ Interface, Sprint, Printer. Tel. Luton 505319 and ask for Mr P Robinson.

■ 48K Spectrum, Interface 1, microdrive, six cartridges, 60 original games worth £300+, Interstate Joystick Interface, books and lots of mags. Will consider splitting. Sell for £230 ono. Tel. (0231) 60032 and ask for Mr M Passmore.

■ For sale — Stonechip programmable joystick interface, hardly used. Cost £24, will sell for £12 inc p&p (UK only). Tel. 01-363 1404 after 6 pm and ask for Simon.

■ ZX Printer and three rolls of paper — £40 ono. Lern Tape Copier and microdrive 1. Offers? All issues of *YS* for sale. Tel. (0203) 396132 and ask for K A Whiting.

■ Spectrum+ with Interface 1, microdrive, Seven cartridges, tape recorder, 3-channel sound synthesiser, MicroSpeech and lots of software. Will take offers around £300. Tel. (0636) 76507 and ask for Stephen.

■ Teletype 33TAC with paper tape reader and punch, £50 ono. Paper rolls £3. Paper tape rolls £1. Tel. (0256) 27532 and ask for D V Rosam.

■ First two volumes 'Input' magazine, complete with binders. Excellent condition, £18.95 inc p&p. A. Pointer, 21 St James Avenue, Broadstairs, Kent CT10 2RN.

■ Currah MicroSpeech unit at £15 and a Dk'Tronics Light Pen at £12. Both items as new. Buyer to inspect. Tel. 01-907 2253 and ask for Robert.

■ 48K Spectrum switchable interface, joystick, MicroSpeech, Lo-Profile keyboard, lots of games and mags all under one year old, worth £450, will sell for £200. Tel. 031-664 0687 and ask for Justin.

■ For sale Epson RX80 Printer, serial or Centronics input — £150. Also, Alphacom Printer £45, both as new and boxed. P&P extra. P Last, 4 Hillside, Marham, Kings Lynn, Norfolk. Tel. (0760) 337463.

■ ZX Spectrum+ and software, hardware and tape recorder, etc. Under three months old, most in boxes. All offers considered. Apply: Stephen Page, 10 Tynemount Road, Ormiston, East Lothian EH35 5JP.

■ 48K Spectrum, excellent condition including B/W TV, cassette player, Fuller Box sound unit, lots of original software and magazines only £160 ono. Tel. Bungay 4582 and ask for Andy.

■ For sale, ZX81 16K with new keyboard. £25. Write to Alistair Sellar, 24 Campbell Avenue, Edinburgh EH12 6DN.

■ 48K Spectrum, *Masterfile* and *Tasword Two* as new only £130. Contact Adam Raouf, 168 Minard Road, Catford, London SE6 1NJ. Suit small business or serious user.

■ 48K Spectrum, Interface 1, microdrive, joystick and interface. 16 great games and assorted books with tape recorder. If interested please contact Woking 61556 and ask for Amedeo.

■ Microdrive, Interface 1+ seven cartridges, £300 worth of software and mags and Kempston joystick interface. Will split, all in original packaging and all in excellent condition. £120 ono. Adrian Schofield, 12 Valley Park, Cumbria CA28 8BA.

■ Robotic Arm (Armatron), Redditch I/O port, documentation and software. Plugs directly into Spectrum. All axes works, but some inaccurate. Electronics okay, small hardware mod necessary. £60 including postage. Tel. (0889) 270109.

■ Brand new ZX Spectrum 48K with cassette player + over £100 worth of games, will sell for £110 ono. Tel. (0630) 5696 and ask for Roger.

■ For sale, Computer Data Recorder, brand new, good condition for £32.95. Separate 32K Rampack, good condition, worth £40 for sale at £21.50. Tel. 01-855 4733 and ask for Surinder Jhaji.

■ Half price Interface III, only £20. Backs up all tapes to microdrive or tape. Write to Mr A Bellamy, 181 Model Village, Creswell, Worksop, Notts S80 4BT.

■ 48K Spectrum with £80 worth of software plus Kempston joystick interface all for £100. Interface 1 and microdrive plus four cartridges £60. Tel. (0625) 877392 after 7 pm and ask for Dave.

■ 48K Spectrum, Speccy and peripheral storage case, software leads and manual. All in mint condition. £75. Tel. (0706) 356856 and ask for M H Choudry.

■ 48K Spectrum, reset bar, tape recorder, Quickshot II joystick, Ram Interface. Excellent condition — nothing has ever needed repair. Plenty of games and magazines, quick sale therefore £95. Tel. (0823) 71131.

■ New Brother HR5 and Kempston Centronics E, £80. Tel. Sidmouth 2016 and ask for Eric.

■ 48K Spectrum, Saga Emperor Keyboard, ZX Printer, joystick interface, five rolls paper £200 worth software, £55 worth books (four machine code) altogether worth £515. Sell for £260 ono. Tel. 01-708 1850 and ask for Jason.

■ 48K Spectrum with Currah MicroSpeech. Books, games, utilities, mags (including issues 1-14 of *YS*). Microdrive cartridges. cost over £330 accept £180 ono. Tel. (06286) 5713 and ask for Mr K Long.

■ For sale; Joystick + Ram Turbo interface £15, Currah MicroSpeech £14, MicroSlot £6, Saga Keyboard £25. Four Spectrum books at £1.50 each. Tel. Romford 61232 and ask for Stuart.

■ Swop green screen monitor (suitable for BBC) for any portable colour TV also ICL 7561 keyboard £10. Tel. (0705) 832850 evenings and ask for S J Castle.

■ Dk'Tronics Light Pen only £12. Currah MicroSpeech only £15. Both nearly new. Will swop for microdrive. Tel. 01-907 2253 and ask for Robert.

■ ZX81 16K, Printer, Keyboard, manuals and magazines. Fully boxed, lots of software (over 40 games and utilities) £100 ono. Contact F Deakin, 25 Albany Road, Redruth, Cornwall.



Are you on the hunt for hardware, searching for a software Swop or pursuing a pen pal? Well look no longer — put your message in *YS* and get your name in the mag for free!

■ 48K Speccy, Interface 1, microdrive, three cartridges, programmable joystick interface, Quickshot I joystick, computer books and even software. All for £150. Good-oh? Tel. (0603) 610127 and ask for Marcos.

■ VTX 5000 modem wanted swop for Tandy 8-level chess computer (cost £60+) and ZX Printer with five rolls paper. Tel. (04215) 63618 and ask for Tony.

■ 48K Spectrum and microdrive, games and books. £60 ono. Mr M J Lipscombe, 267 Wimpson Lane, Millbrook, Southampton.

■ Currah MicroSpeech only £15. Cambridge Computing intelligent joystick interface plus Altai joystick for £10. Tel. (0278) 427322 after 6 pm.

■ Will swop *Doomdark's Revenge* or any two of *Airwolf*, *Beach Head*, *Cyclone*, *TLL*, *Timegate*, *Harrier Attack* or *Night Gunner* for *Underwilde*. Write to Plod, 34 Aside, Stapleford, Notts NG9 7EY.

■ Will swop *Tasword Two* or *Booty* for *Football Manager* by Addictive. Samantha Gibbs, Jubilee House, Wrangle, Boston, Lincs. PE22 9AE.

■ Will swop *Raid Over Moscow* for *Softex Full Floating Point Compiler*. Write to F Deakin, 25 Albany Road, Redruth, Cornwall.

■ I have many games to swop. Examples include *Hypersports*, *Glass*, *JSW II*, *Chuckie Egg II* and many others. Write to João Paulo, Rua Garcia de Horta, No 9 3esq, 2800, Almada, Portugal.

■ Swop *Shadowfire*, *Gift From The Gods*, *Starstrike*. Wanted: *Way Of The Exploding Fist*, *Ye Ar Kung Fu*, *Tripos* or *Rambo*. Any arrangements Tel. (0249) 13006 and ask for Neil.

SOFTWARE

■ New titles for the Spectrum to swop. Send your list for mine. Write to Quentin Fefeure, Koning Albertstr 51, 1600 Sint Pieters Leeuw, Belgium.

■ *Psytron*, *Ghostbusters*, *Fighter Pilot*, *Hunchback II*, *Beach Head*, *Strontium Dog (The Killing)* and *Everyone's A Wally*. Swop any two for *The Artist*, *Spy vs Spy* or *JSW II*. Tel. Bristol 555163 and ask for Nick.

■ Swop *Full Throttle* and *Android 2 for Pole Position*. Write to Michael Sellar, 24 Campbell Avenue, Edinburgh.

■ *Avalon* and *Danger Mouse in Double Trouble* for *YS MegaBasic* or swop the two games above + *Splat* and *Maziacs* for a Dk'Tronics Lightpen. Chris Wilkins, 25 Orchard Park, Laugharne, Dyfed SA33 4TH.

■ Swop *American Football*, *Sabre Wulf*, *Monty Mole*, *Ghostbusters*, *Combat Lynx*, *Mugsy*, *Starion* and *Shadowfire*, *Alien 8*, *Boulderdash*, *Spy vs Spy*, *Raid Over Moscow*, *Blockbusters*, *F. Bruno Boxing*. Tel. (0538) 702514 and ask for Dominic.

■ Swop *White Lightning* for *HURG*. Tel. Wydam 3973 and ask for Michael.

■ Swop suitable for Spectrum. *Tasword Two* or *Masterfile* for *Quill*, *Picturesque E/A* or *Monitor*. Write to Mr H P Boyle, Glebe House, Royal Lane, Hillingdon, Uxbridge UB8.

■ Swop *Bozy Boa*, *Hunchback*, *Wheelite*, *Mrs Mopp*, 16/48 tape 2 for *The Quill* or *Snowball*. Jason Goodall, 334 Parkmill Close, Corringham, Essex SS17 7JR.

■ Swop 13 games for Quickshot II joystick and interface. Games include *ZX Bug 2*, *Gnasher*, *Bullseye*, *Tank Trax* and many more. Write to Peter Tustain, 8 Acre Road, Cudworth, Barnsley, South Yorkshire S72 8RU.

■ Swop top Spectrum software for your software, or for a Dk'Tronics lightpen. Send your list for mine. G Shaw, 25 Redwood Avenue, Royston, Barnsley, S. Yorks. S71 4JP.

■ Will swop any two of *Moon Alert*, *Starstrike* and *Scuba Dive* for *Tir Na Nog* or *Wiggler*. Tel. 031-443 1836 and ask for Andrew.

■ Will swop *The Quill*, original with book for ditto *White Lightning*. Tel. Blackburn 663095 and ask for Bill.

■ Swop *White Lightning* for *Melbourne Draw* or *The Artist* or *Machine Code Tutor* or ... Tel. (062693) 68047 after 8 pm.

■ Swop any two of *Pjamararama*, *Brian Jacks Superstar*, *Lords Of Midnight*, *Hunchback*, *Pimania*, *Black Crystal* or *Jungle Trouble* for *Match Day* and *Bruce Lee* or *World Series Baseball*. Tel. (0532) 667433 and ask for Sion.

■ I have a fairly large amount of software that I'd like to swop with anyone. Send a list of your games to David Game, 33 Belle Cross Road, Kingsbridge, TQ7 1NL.

■ Will swop *Full Throttle*, *World Cup*, *Manic Miner*, *Jetman*, *Mugsy*, *Hunter Killer* and more. Want *Machine Code Tutor*, *Match Day*, *Starion*, *Dun Darach*, etc. Tel. Magherafelt 32192 and ask for Brendon.

■ Swop *Frankie*, *Gryon*, *Knightlore*, *Tapper*, *Spy Hunter*, *Alien 8*, *Skool Daze*, *Pole Position* and many more. Send your list for mine. Originals wanted. A Bellamy, 181 Model Village, Creswell, Worksop, Notts S80 4BT.

■ I would like to swop *Starion*, *Underwilde*, *Dambusters*, and many others for *Jet Set Willy*, *Pole Position*, *Alien 8* etc. James Walker, ORD services, Berlin, BFPO 45.

■ Swop *Wally* series, *LOM*, *Skool Daze*, *Knightlore*, *Booty*, *TBATB*, *Penetrator*, *4D Terrordaktil* for *Basketball*, *JSW II*, *Kong II*, *Xaxxon*, *Spy Hunter*, *Chuckie Egg*, *Decathlon*, *911TS*, *Rocco*, *Gremlians*. Tel. 0283-712396 and ask for Andrew.

■ Will swop *Airwolf*, *Starstrike*, *Brian Jacks* and *Hellfire*. Any two for adventure games. Tel. (0630) 57780 and ask for Mark.

■ Swop most top ten games — over 1000 programs. Send your list for mine. Also want contact with other BetaDisk owners. Write to Thierry Kumps, Langeweg 193, B-1900 Oversee, Belgium.

■ Swop *Horace Goes Skiing* and *Centropods* for *Skool Daze*. Also swop *Chequered Flag* for *Stop The Express*. Andrew Parry, 3 Keffi Street, Holyhead, Gwynedd LL65 2BB.

BOOK YOUR FREE AD HERE

If you'd like to advertise in *Input/Output*, please write in **BLOCK CAPITALS** below and send the coupon to **Input/Output Your Sinclair, 14 Rathbone Place, London W1P 1DE** — oh, and don't forget your address and phone number. We can't accept any software sales, and this service is only available to private advertisers.

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■ 200 top games to swap. Also POKES, maps, tips, games include *Exploding Fist*, *Dynamite Dan*, etc. Send your list for mine to Paul, 10 Londenpyffryn, Llandulas, Cardiff LL22 8JQ.

■ Swap any two of *Alien 8*, *Psytron*, *TLL*, *Time Machine*, *Alchemist*, *Ant Attack*, *Harrier Attack*, *Flight Simulation*, *Codename Mat* for *Quill*, *Pirate Adventure*, *Adventure Land*, etc. Tel. (0207) 230331 and ask for Graham.

■ Swap *Spy Hunter* for *Gift From The Gods* or *Herbert's Dummy Run* and *Atic Atac* for *Alien 8* or *The Rocky Horror Show*. Tel. Tunbridge Wells 33010 and ask for Steven.

■ Will swap software worth over £100 (all original, including *Starstrike*, *Backpackers*, *Cyclone* and many more) for Centronics/RS232 printer interface compatible with ZX Spectrum. Tel. 0604 61633 after 5 pm.

■ Swap *O Level Chemistry* teaching programs 48K for utility programs. Tel. (0475) 674256 and ask for D Macdonald

■ Will swap *Sabre Wulf* and *Spectipede* for *Everyone's A Wally*, *Spy Hunter* for *Project Future*, *Daley Thompson's Decathlon* for *Jet Set Willy*. Tel. Nottingham 638171 and ask for Jason Duckmanton.

■ I'll swap *Lords Of Midnight* or *The Hobbit* for *Pole Position*, *Grand National* or *Graham Gooch's Test Match*. Tel. Carlisle 29175 and ask for Matthew.

■ I have 250 games to swap. Send your list and see to James McLaughlin, 29 Carenlea Road, Ballymena, Co. Antrim, Northern Ireland BT43 6TS.

■ Will swap *Minder* for *White Lightning*. Write to Shaun Allan, 61 Goldcrest Road, Ipswich IP2 0SF.

■ Have issues 11 to 16 of *YS*. Will swap for *A View To A Kill* or *Daley Thompson's Super Test*. Write to Paul Ledwith, 84 Eastern Avenue, East Romford, Essex RM14 4DT.

■ Will swap *Haunted Hedges*, *Spectral Panic*, *Voyage Into The Unknown* and *Election* for *Skool Daze*. Tel. (0582) 882841 and ask for Mark.

■ I would like to swap *Jewels Of Babylon* and *Alchemist* for *Shadowfire*. Also *Brian Jacks Superstar Challenge* and *Action Biker* for *Cauldron*. Tel. (0789) 204458 and ask for Jonny.

■ Will swap *Starion*, *Glass*, *Dummy Run*, *Dragonorc*, *White Lightning*, etc. for *Gyron*, *Pole Position* or any good Speccy games. Send your list for mine, Stu, 1 Poole Crescent, Crossgates, Leeds, W. Yorkshire LS15 7ND.

■ *Dynamite Dan*, *Monopoly*, *Nodes Of Yesod*, *Fourth Protocol*, etc. Will swap for *Bruce Lee*, *3D Tank Duel*, etc. Originals only. Tel. Leeds (0532) 451286 and ask for Phil.

■ Have *Frank Bruno's Boxing*, all the Gremlin Graphics games. All the Wally series, the Ultimates and much more to swap. Tel. (0223) 833966 and ask for Michael.

■ Swap *Sherlock* for *IQ test*. Will also swap *Chess* and *Horace Goes Skiing* for *Rally Driver*. Write to Nick at 8 Essex Road, Leytonstone, London E11 1JR.

■ I have *Kong*, *Mr Wimpy*, *Tranz-Am* plus many more to swap. Your list for mine. Also I have rubber keyboard for sale. Any offers? Tel. 051-220 8110 and ask for Terry.

■ Will swap *Illustrator* for *Machine Code Tutor* (or *Astronomer*). Swap *Ghostbusters*, *Hobbit*, *Alchemist*, *4D Time Gate*, *Molar Maul*, *3D Tunnel*, *Ghost Gobbie*, *VU3D* for? Any offers. Tel. (039287) 4794.

■ I have *Match Day*, *Cookie*, *Trashman*, *Sabre Wulf* or *Frank Bruno's Boxing*. Tel. 01-743 5211 and ask for Olly.

■ I'll trade my original 48K Spectrum/TS2068 word game, *Codemaster*, for your original Spectrum game or utility. David Hoshor, 7 Bard Drive, Apt B4, Hudson, Ohio 44236, USA.

■ Swap 300 titles inc. *Dynamite Dan*, *Highway Encounter*, *Nodes Of Yesod*, *Spy Vs Spy*, *Baseball*, *Raid Over Moscow*, *Bruce Lee*, *HyperSports*, *Starion*, *Spy Hunter*, *Boulder Dash*, *Shadowfire*, *Wizard's Lair*, and many more. Tel. (0652) 33061 and ask for Andrew.

■ Will swap any two of *JSW*, *On The Run*, *Pajamarama*, *Automania*, *Backpackers*, *Tapper*, *Fairlight*, *Elite*. Tel. 01-435 3962 and ask for Daniel.

■ Spectrum software to swap. Send your list for mine. Don't waste time, send off now. Gordon MacMillan, 39 Bermuda Road, Invergordon, Ross & Cronarty, Scotland.

■ I will swap any two of *Starion*, *Ghostbusters*, *World Cup* or *Booty* for any of *The Artist* or *Zaxxon*. Write to Andrew McCubbin, 3 Kenilworth Drive, Airdrie, Lanarkshire, Scotland, M16 7EY.

WANTED

■ ZX Expansion Set. Swap for hardware and software including *Currah MicroSpeech*, *Datapen* lightpen, *Starion*, *JSW II*, *Beach Head*, *Ghostbusters* and more. Tel. (0623) 511062 and ask for Gary. Tuesdays, Thursdays only.

■ I've only just bought *Bug Byte's Manic Miner*. Will give *Cheetah Speech Synth* to person with best POKES that work. Write to Michael Foster, 222 Lethbridge Close, Lewisham, London SE13 7QS.

■ Dot Matrix printer and Interface for use with ZX Spectrum/Spectrum+. Must be in good condition and under £100. Tel. (0425) 54942 after 5pm and ask for Jeremy Laurence.

■ Will swap issue 1 of *Crash* magazine for issue 2 of *Your Spectrum* in good condition. Must have *Ant Attack* poster! Eilian Terras, 9 Leslie Terrace, Prestwick, Ayrshire KA9 1LN.

■ Wanted: Dk'Tronics synth. Will swap for Interface 2 or £20. Tel. (0443) 2901 and ask for Karl.

■ ZX Printer with instructions, etc. in exchange for *Currah MicroSpeech* with instructions and boxed as new. Mr M Cleaver, 97 Arthur Street, Plane Street, Anlaby Road, Hull.

■ Wanted urgently — *Currah MicroSpeech*. Will swap for software including *Raid Over Moscow*, *JSW II*, *Softaid*, *Skooldaze*, *Jasper*, *Stromtion Dog* and many more (original). Tel. (0555) 870329 (anytime) and ask for Dougi.

■ ZX Printer wanted with or without paper. William Mitchell, 9 York Street, Dufftown, Banffshire, Scotland AB5 4AJ.

■ Wanted — *Into Battle With* tape by The Art Of Noise (CTS 100). Will swap for *Sabre Wulf*, and *Fighter Pilot*. Tel. (0745) 822122 and ask for Eifion.

■ Wanted: Graphics utilities, lightpens, digital tracers, graph pads, etc. Own or commercial software. Games designers, *Screen Machine* and other Print 'n' Plotter software. Will pay + 1/3 MRP for hardware. Stephen Liddell, 33 Forth Avenue, Larbert, Falkirk FK5 4NJ.

■ Wanted: your reviews for forthcoming amateur publication. Also, any articles, artwork, etc. In fact, anything appreciated. Send work to Paul Rand, Donini House, Comet Hill, Easington, Peterlee, County Durham SR8 3ER.

■ *Your Spectrum* issue 2 wanted. Willing to pay £2 for mint condition with map. Tel. Dersingham 40497 and ask for Nigel.

■ Will swap 10-15 games for Prism VTX 5000 or Interface 1, microdrive and cartridges. All originals. Tel. 021-772729 and ask for Conor.

■ Wanted: *Machine Lightning*. Will swap for software including *Knightlore*, *Gift From The Gods*, *Artic Assembler* version 2 and others. Tel. Beith (05055) 3312 and ask for Gordon.

■ Wanted: Issues 2&3 of *YS*. Tel. Braintree 41370 and ask for Mrs P. King.

■ Wanted: Interface 1 and microdrive. Price negotiable. Tel. Norwich (0603) 51437 and ask for Dave.

■ Is there anyone out there with *Empires* (Imperialsoft) interested to play by mail? Tel. (07373) 53942 and ask for Dave.

■ Machine code programs/magazine listings to produce screen dumps on the Brother HR5 with Interface 1 wanted. Will swap original games. *Potty Painter*, *Gulpmann*, etc. Tel. Eastleigh (0703) 642661 and ask for Tony.

■ Football tables program, suitable for up to 24 teams and for updating. Will swap *Make-A-Chip*, *Survival*, *VU3D*, if good quality. Write to Nick, 8 Essex Road South, Leytonstone, London E11.

■ £20+ offered for *YS* issues 2, 3, 4 and 6. Must be complete and in 1st class condition. Ring Leeds (0532) 483699 after 7pm with your price.

■ Any interesting software such as *Prolog* or any of the *Brainpower* range. Have 100's of programs to swap. Write to Chris Gould, 3 Moorgate, Tamworth, Staffs B79 7EL.

■ Wanted: ZX Expansion set. Will swap games worth over £100, including *Alien 8*, *Trapper*, *Hypersports*, *Cauldron*, *Skool Daze*, *Video Pool*, *Chuckie Egg* and more. Tel. (0322) 527570 and ask for Graham.

■ *Currah MicroSpeech* or *Datapen* for cash or swap *Psytron*, *Booty* and *Raid Over Moscow*. Tel. Bedford (0234) 740530 after 4pm and ask for Matthew.

■ ZX Printer (and paper if poss.) Will pay up to £10 for reasonable condition. Write to Andy at Littlewoods, Mountview Crescent, St Lawrence, Southminster, Essex CM0 7NR.

■ Wanted: *Currah MicroSpeech*, will swap software worth over £45 including *Ant Attack*, *Horace Goes Skiing* and *Chequered Flag*. Tel. (09853) 442 and ask for Clovis.

■ Wanted: interface 1 with or without microdrive. Tel. Swindon (0793) 763247 and ask for Adrian.

■ Wanted: VTX 5000 modem. Will buy or swap for software. Interested? Write to Tim at 'Roze!', Maespica Road, Lower Cuinturich, Swansea SA9 2PP.

■ Wanted microdrive. Will swap for *Doomdark's Revenge*, *Shadowfire*, *Underwulde*, *Knightlore*, *Sabre Wulf* and *Eureka*. There's more. Tel. (0236) 25231 after 5.30pm and ask for David.

■ *Currah MicroSpeech*. Will swap for *YS* issue 2, *Match Day*, *Finders Keepers*, *3D Star Strike* and *Raid Over Moscow*. Tel. Cornwall 890491 and ask for Mark.

■ Wanted: *Freddie Mercury Love Kills* single. Will swap for one of *Starion*, *Zaxxon*, *Match Day*, *Classic Adventure*, *Airwolf*, *Braxx Bluff*. Tel. (0326) 290459 and ask for Sean.

■ Wanted: *The Quill* and *The Illustrator*. Will swap *Nightshade*, *Spy Vs Spy*, *Dun Darach*, *Sabre Wulf*, *Strange Loop* and *HURC*. Tel. (0749) 72423 and ask for Matthew.

■ Wanted: Help on *Fourth Protocol*. Tel. (0924) 278750 after 4pm and ask for Toby.

MESSAGES, CLUBS & EVENTS

■ Magazine back issues. Fill the gaps in your collections of *Personal Computer World*, *Microcomputer Printout*, *Computing Today* and *Computer and Video Games*. Good to mint condition. Tel. 01-977 6198 and ask for Jonathan.

■ Codebuster, will you please fix your keyboard before I banish you from my planet. Also, hello to Baby, Clyde, Mrs and Mr Mac, Con, Eddie and Ginger Tops. Kipling.

■ Please help. I need any hints or tips for *Dun Darach* by Gargoyle Games. Write to James Campbell, Waverley, 52 Sherbrooke Avenue, Pollockshields, Glasgow G41 4SB Scotland.

■ Will swap *Ghostbusters* for issues 3 and 4 of *Your Spectrum*. Must be in good condition. Tel. (0302) 840853 and ask for Leslie. Issues needed urgently.

■ D'ya want software swaps, help and tips plus free news letter? Join our free local club. For info write to Jason Roseaman, 56 Redlie Close, Stanford-Le-Hope, Essex SS17 8BB.

■ Issues 3, 4, 6, 7, 9, 10 and 11 of *YS* for sale, £4 each. Issues 12 onwards £1 each. Also, back issues of *Crash* available at £1 per issue. Mark Elliott, 40 Silverdale Road, Ecclesall, Sheffield S11 9JL.

■ Has anyone got POKES or tips on *Scuba Dive*, *Automania*, *JSW II*, *Dynamite Dan*, *Dun Darach* or any new games. If you have any write to Andrew Slavin, 115 Lords Street, Cadishead, Manchester M30 5HJ.

■ Volumes 1 and 2 of *Input* magazine complete with binders in perfect condition. Open to offers, cash or games. Ian Hoyle, 311 Livesey Branch Road, Blackburn, Lancs BB1 4QJ.

■ *YS* issues 1-20 — the full set! All unmarked, offers over £20. Tel. 021-474 6202 and ask for Steve. Also, Tasword £5, programmable interface and joystick £15.

■ Speccy user would like to hear from anyone who uses Speccy for business purposes, exchange ideas, tips, etc. Philip Montjoy, 154 Stroud Road, Gloucester GL1 5JX.

■ Pete Cowley. I'm near solution. Soon have it cracked!!! PH.

■ P BINDER: How are you Paul? Happy Christmas, I guess when this gets printed it will be close to Xmas, Write soon! My regards to your family, Skip and Robin. Sergio.

■ Italian radio station is looking for English hacker to aid with hints, tips and other ideas. Anyone interested should contact Bertocchi Leonardo, Radiosoftware, Via Montesuello 3/7, Genova (GE), 16129, Italy.

■ We've finally got our act together. Finsbury Park's Computer's in The Park club throws its doors open at the Brownswood Library, Brownswood Road, N4 at 8 pm on the last Tuesday of every month (no meeting in December).

PEN PALS

■ I am 14 and want a male or female pen pal to swap software, POKES, maps, etc. Send your list for mine. Graeme Dawson, 20 Scalloway Park, Fraserburgh, Aberdeenshire AB4 5FD.

■ Pen pals wanted anywhere in the world. Interested in hacking, m/c programming, adventures, swapping games/progs/ideas (I have 500+ games/progs) and the Spectrum in general. I'm a 16 year old boy, responses can be any age and sex. Please write to Odin H Sørensen, Kajerød Vaenge 33, 3460 Birkerød, Denmark.

■ Pen pal wanted (boy) to swap games etc. I am eleven and learning to program. I like computer games apart from adventures and enjoy playing golf and football. Kevin Santini, 9 Rae Street, Stenhousemuir, Larbert, Stirlingshire FK5 4QP.

■ I'm 14 and want a male or female about same age to swap beginners tips and hints. Tel. (0977) 83417 and ask for Ian. Please hurry — this offer ends soon!

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■ Want a Portuguese connection? Write to Luis Fernando, Apartado 57, 4465 Sao Mamede De Infesta, Portugal. Swap programs, hints and POKES. Send your list now!

■ Pen pal wanted. I'm 16 and like music, sport and computers. Boys 16-18 to reply. Swap hints and games. Samantha Gibbs, Jubilee House, Main Road, Wrangle, Boston, Lincs PE22 9AE.

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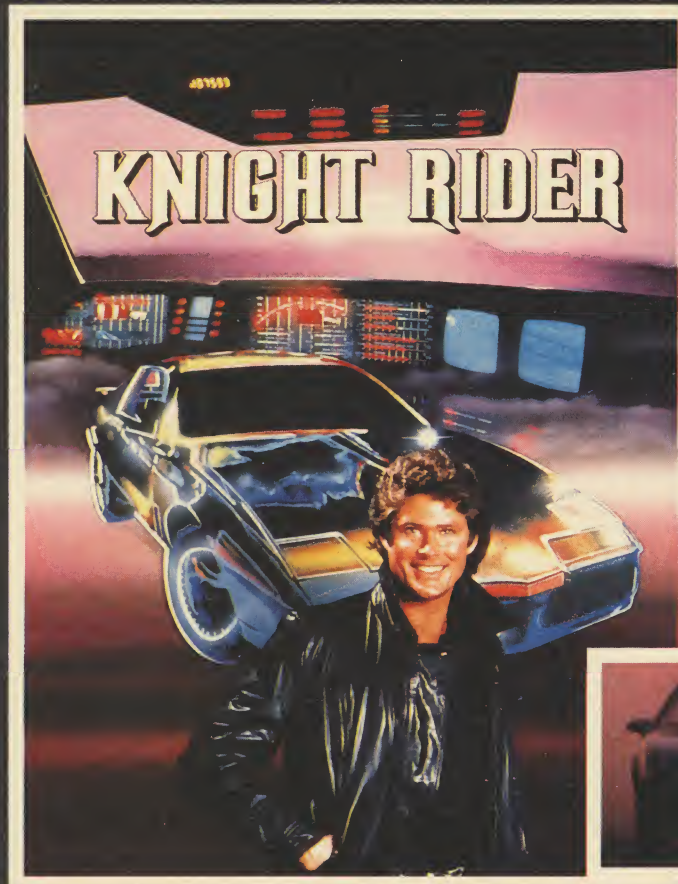
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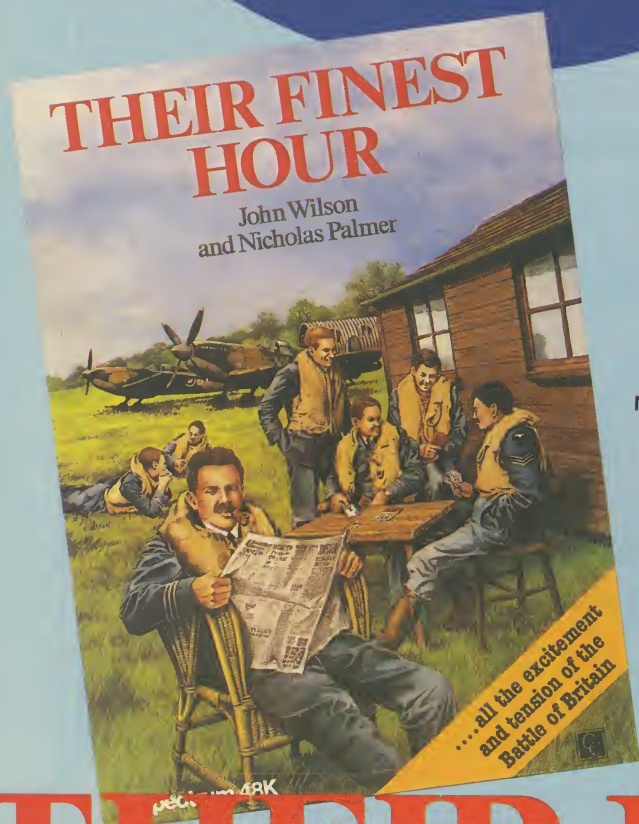
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BACKLASH

Fighting Talk — Iolo Davidson backs the winners.

You probably think that computers are new and exciting, right? You think it all started a couple of years ago and anyone not brought up on the new maths hasn't a hope of evading the scorn of fifteen year old whizz-kids should they dare sit down at the keyboard. Hah.

I have a friend, an ageing hippy, who knows no more about computing than what he once read in an old Fortran manual dug out of a trashcan behind UCLA at Berkeley, but he can impress the socks off any sub-teen arcade hero. He can't add on his fingers, but he has vision, he has depth of experience, and he knows how to lie. He's now revealed some of his methods to me which I'm gonna pass on to you — in translation!

Impressing people is easy if you remember the rules. The first is: conceal your real abilities. It's no good going on about how you used to program a Nascom in hex before it had a Basic, even if true. No one old enough to remember the Nascom will admire this achievement, and everyone else will think you're talking about some United Nations agency. Booooring!

You must gauge the level of sophistication of your target audience before you can employ an effective gambit, so the second rule is: let the others talk first. Then, if the discussion turns out to be about rugby you can make good your escape. Let the targets choose the topic of conversation, and it'll show you what's most likely to impress them. Fortunately, nowadays you can rely on any such conversation being dominated by computer games. That

simplifies things.

Arcade gamers are inordinately competitive about their high scores, and conversation with them is littered with losing opportunities. It's vital that you never reveal your personal best score on any computer game. To do so is instant defeat, as there's bound to be someone who's done better, or knows someone who's done better, or who's prepared simply to lie. It's no good lying outright yourself, as that'll only lead to eventual stalemate. The escalation becomes obvious the sixth or seventh time round.

If you're pressed to make such a revelation you must avoid the question, while at the same time subtly revealing a hint of your underlying superiority. Here's a few sample phrases that'll help you skirt the issue:

"I played that for weeks in the arcades last year. I think the computer version is pathetic."

"YS published a POKE for that one that lets you score forty-two million without actually having to play."

"Isn't that the one with the bug that lets you score forever as long as you stand in the right place?"

"That game isn't available for my Macintosh."

Note that avoiding a direct answer is only part of winning. It's no good saying, 'My brother never lets me have a go,' nor yet, 'I don't think you can get that game on the unexpanded Vic.' These are the things that genuine losers say. Third rule: be subtle. Your average whizz-kid can deal with boasting, but is

helpless when faced with intimidation.

If trapped in the company of adventure gamers, the problem is similar. There's still no chance of making a favourable impression by simply revealing the extent of your ability at negotiating various dungeons, but it's also very difficult to lie without being exposed by someone who really knows the answers.

The best strategy here is to embrace the attitude that telling the details of your travels will spoil the game for those who've not yet finished it. You can, however, if coaxed persuasively, reveal an arcanelly worded clue. This will fool even those who should know better, provided you're vague enough. This is the fourth rule: be vague, but have an excuse for it. A few samples that won't reveal overmuch:

"I think you'll find that you haven't been to all the rooms yet."
(Who has? Can they prove it?)

"If you ask the dwarf for the key, he doesn't seem to do anything, but it helps later on."
(Gets you credit for any random good luck.)

"Have you tried examining the ceiling in every location?"
(Bet they miss one!)

"Not all of the objects are necessarily good things to have with you."
(Often true, hard to test.)

The one thing that you must never say is, 'I have better uses for my computer than playing games.' An instant loss of all credibility would result. This phrase is dangerous even in classroom situations unless

you're certain that only the teacher can hear, and it'll do you little good with him. If you are the teacher, then I'm too late. You'll already have said this.

While you mustn't give the impression that you ignore games, you may affect to be so busy that you don't get to play as often as you wish. This is only a winning strategy if what makes you so busy is programming.

Never say you've just completed a program, because your interlocutors will want to know how it's doing in the charts. It's much easier to generate a great future for a program that you've only half finished. Plus, any gaps in your story can be attributed to grogginess brought on by all-night coding sessions (fourth rule).

If you're unsure of your ability to impress as a programmer (remember, Cobol doesn't count), then the next best bet is to let slip that you're working on an article for a computer magazine. You're not supposed to talk about it yet though, because the Ed is hoping to keep it exclusive.

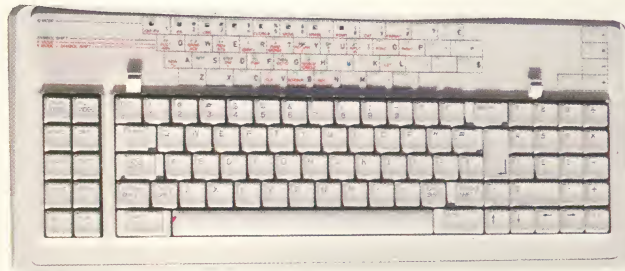
Your audience may want to know what you've written before, which could be tricky, but luckily the pages of the computer press are known to be littered with pseudonyms. Just explain that your contract with Ocean means that your other published work has to go out under the name of Hugo Cornwall. Last rule: when you can't be caught, lie big.

My friend has allowed me to print these invaluable tips on condition that I plug his forthcoming book, *You Don't Have To Be A Kid To Be A Smartass*, due out real soon. He hasn't yet chosen the name of the author.

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