

YOUR 'SINCLAIR'

NEW

JOYSTICKS

TEN BEST TEST



SCOOP

**THE
YOUNG
ONES**

WE SPILL THE LENTILS!

BEACH HEAD II/THREE WEEKS IN PARADISE/SWORDS & SORCERY/BACK TO SKOOL
BLADERUNNER EXCLUSIVE/LORD OF THE RINGS COMPO/ART STUDIO
FRIDAY THE 13TH MAP•MATTHEW SMITH INTERVIEW•GAMES REVIEWS

SABOTEUR!

DURELL
software getting harder



SPECTRUM
&
AMSTRAD

R.R.P. £8.95

DURELL sales dept.,
Castle Lodge, Castle Green, Taunton TA14AB

INSIDE SCOOP!

60

The Young Ones

A special preview of the first Spectrum screen shots. Brilliant!



MEGAGAMES

36

Three Weeks In Paradise

The new game from Mikro-Gen all mapped out — a complete fool's paradise!



72

Beach Head II

Fight 'em on the beaches...

80

Worm In Paradise

Take a trip to Level 9's new adventure — but can you worm your way out again?

SPECIAL PREVIEW

59

Bladerunner

CRL's razor sharp new game — we tell the full story.

INTERVIEW

40

Show Us Your Willy

Matthew Smith flashes for the photographer and reveals all!

YOUR SINCLAIR

SOFTWARE

24

Screen Shots

Reviews of *Back To Skool*, *Swords And Sorcery*, *Robin O' The Wood*, *Commando*, *Think* and many more...

42

Art Studio

The new icon-driven, mouse-compatible graphics package from Rainbird. But is it art?



PROGS

45

Program Power Pull-Out

In this month's hot slot are *Hot Shot* and *Alien*. Crack on.

83

Macclone

Three pull-down programming utilities that'll turn your Speccy into a Macintosh — well, almost!

POSTER MAP

44

Friday The 13th

Shock, horror! A spine-chilling, blood-curdling, hair-raising poster. Eeeek!



GAMES

Hack Free Zone 34
Robotic hints'n'tips for all-in arcade action from Hex Loader.

Adventures 79
Games reviews and helpful hints.

COMPOS

Lord Of The Rings Compo 14
Tolkien of compos, Hobbit to this one!
Saboteur Compo 39
The YS bubble competition.
Bladerunner Compo 69
Spot the robots and win one.

CARTOON

Program: Time Travel 63
There's no going back now — and there may be no going on.

REGULARS

Frontlines 4
Fab four, free fangs, and Troubleshootin' Pete... finkin'!

QL News 11
Isn't that that snooker player... Steve Wossisname?

Hit List 13
And in the number one spot this month, it's...

Letters 19
What a scrawler!

Task Force 67
Short solutions to programming problems.

Subscriptions 68
An offer you can't refuse.

Back Issues 75

Hacking Away 76

The pick of the POKEs.

Microdrivin' 77

Brrrrm, brrrrm!

Hard Facts 88

Easy times for your hardware.

Backlash 96

Sir Clive — the alternative history.

READERS' REVIEW
JOYSTICKS-
TOP
TEN
TEST
Three YS Testers
Give It Some Stick!

55

TALK TO US!

01-631 1433
EDITOR Kevin Cox
PUBLISHER Stephen England
SUBSCRIPTION Suzie Matthews
01-580 0504/631 1433
ADVERTISEMENT ENQUIRIES
David Baskerville/Neil Dyson
Your Sinclair, Sportscene Specialist
Press, 14 Rathbone Place, London
W1P 1DE

O'LEVELS

not just revision but also tuition
for the Spectrum 48K

Mathematics

8 programs TOTAL 150K

Fractions, square roots, decimals, logarithms, areas, sets, accuracy, bases, interest, volumes, indices, standard form, modulo, number set, pie charts, histograms, simultaneous equations, bar charts, averages, probability, algebraic laws, quadratics, matrices, vectors, transformational geometry, trigonometry, differentiation, integration, factors, angles.

Physics

7 programs TOTAL 140K

Reflection, wavelength and frequency, refraction, lenses, the eye and its defects, diffraction, colour, magnetism, motors, Ohm's law, amps, volts, series, parallel, electronics, heat, gas laws, energy forms, specific heat, kinetic energy, half-lives, atomic structure, radiation, isotopes, Newton's laws.

Biology

6 programs TOTAL 120K

Plant and animal cells, genetics, inheritance, reproduction in man, asexual and sexual reproduction, flowering plants, photosynthesis, osmosis, transpiration, transport, bacteria, food classes, diet, alimentary canal, respiration, excretion, eye, skin, nervous system, ecosystem, food cycles, fungi, earthworm, amphibians, birds, mammals, response.

Computer Studies

7 programs TOTAL 140K

Data collection, coding, storage, processing, presentation, validation, d.p. systems, privacy, security, hardware, I/O devices, software, low and high level languages, machine-code, assemblers, interpreters, compilers, errors in programming, aids to debugging, microcode, machine organisation.

Chemistry

8 programs TOTAL 150K

Matter states, action of heat and electricity, reaction with air, water, acids, alkalis, halogens, oxygen, sulphur, nitrogen, phosphorus, carbon, hydrogen, alkali metals, alkaline earth metals, transition metals, organic chemistry, atoms, formulae, molar mass, equations, ions, periodic table, bonding, gases, metal extraction, polymers, fertilizers.

French

8 programs TOTAL 160K

Regular and irregular verbs, reflexives, indicative, subjective, passive, infinitive, agreement, pronouns, definite, indefinite and partitive articles, single and compound nouns, adjectives and their forms, adverb phrases, comparatives and superlatives, conjunctions, prepositions, idioms, measurements.

Electronics

8 programs TOTAL 150K

Energy and its sources, power distribution, e.m.f., p.d., charge, current power, r.m.s. values, resistors, series and parallel, capacitors, time constants, inductors, transformers, resonance, microphones, loudspeakers, heat and light sensitive devices, diodes, transistors, logic circuits, multivibrators, meters, CRO, amplifiers, feedback.

Technical Drawing

10 programs TOTAL 100K

A set of animated tutorials showing isometric projections, the construction of cylinders, cones and other projections.

ALSO AVAILABLE

Maths Sprint

A fast exciting game for 1 or 2 players. Random questions covering 18 topics. Advance with correct answers and beat your previous time. Suitable for O' level students.

Principles of Computing

Part I takes you through binary counting in easy stages with exercises showing the use of 8 bit byte, character formation and the display file. Part II deals with theory and the use of the higher 8 bit byte, the 16 bit word, number conversion and Z80 registers.

EACH SUBJECT ONLY £5.00 INC P&P

PASCAL & C

1 program Each 30K

Teaching versions of these languages, including a full text editor (screen editor) and a 48 page tutorial manual. Saving and loading of programs is a screen editor function. Trace facilities are provided for easy tuition and debugging. Availability: Pascal now, C now, Logo soon, Forth soon.

each language only £5.00 inc. p/p

GCE TUTORING

quality educational software



HILLSIDE, KIRSTEAD, NORWICH, NORFOLK NR15 1EB
Tel: (0508) 50624

Please send me:

.....

.....

My computer is a:

I enclose a cheque/PO for £..... Made payable to GCE Tutoring

My name and address is:

.....

YS 2/86



This girl is dangerous.



This boy is a fugitive.



NOW YOU CAN EXPLOIT SPECTRUM GRAPHICS TO THE ULTIMATE.

With the Graphics Suite from Print 'n' Plotter.

If you're interested in producing great graphics with your Spectrum, then these programs are designed with *you* in mind.

And you *don't* have to be an expert. Even with no programming knowledge the programs will enable you to produce fantastic graphics to use in every piece of software you write.

Or you can use them just for the fun of producing computer art.

Each of the programs are inter-active and together they form the most accomplished graphics toolkit you will find on the market today.

But you can also use each of them separately, as each are self-contained and cover a specific area of graphics programming.

With Print 'n' Plotter's 'GRAPHICS SUITE', everything is made so simple you won't believe it.

Just a few of the things you can do...

PAINTPLUS (GRAPHICS SUITE 1)

If you want to produce fantastic screen graphics or UDG's on your Spectrum, then you will find PAINTPLUS not only a complete graphics toolkit... but also the simplest to use at every level.

Facilities include: DRAW, PLOT, ARC, CIRCLE, FILL IN SOLID OR PATTERNS, FILL IN OVER MODE, DRAW RADIALLY, ARC RADIALLY, ENLARGE TO EDIT, PAPER WASH, BOX DRAW and so on...

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.

For instance:

SCREEN MACHINE will compress the memory consumption of your graphics to cram even more into the computer's memory -

As well as memory compression, SCREEN MACHINE allows you to put your graphics through a series of highly-sophisticated graphics manipulations.

These include ENLARGE, REDUCE, RELOCATE TO OTHER PARTS OF THE SCREEN, STEP AND REPEAT, BLEND SCREENS TOGETHER, RECOLOUR SELECTIVELY OR GLOBALLY, FLIP SCREEN, etc.

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.

There's never been a simpler Sprite program to use. All you have to do is draw your Sprite and then choose from a fantastic range of options to get it doing what *you* want.

You can: animate your Sprites, choose any direction and starting position, adjust speed, adjust height, choose running time, decide on edge actions such as bounce, wraparound, reflect or stop, make intelligent decisions like strike and collision actions, colour your Sprites or take colour from the screen, trace or non-trace, etc.

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

Instruction booklet and demo are included with the program.

Now *you* can have professional Sprites in *every* program you write.



ORDER NOW OR ASK YOUR LOCAL COMPUTER SHOP!

Send to: Dept YS Print 'n' Plotter Products Ltd.

19 Borough High Street, London SE1 9SE

Credit Card phone orders: 01-403 3622

Please send me the following:

.....Paintplus @ £9.95

.....Screen Machine @ £8.25

.....Art-O-Matic @ £8.25

.....Sprite Machine @ £9.95

I enclose remittance in full

Please bill my Access/Barclaycard/Visa No. _____

I enclose 17p stamp for details of products.

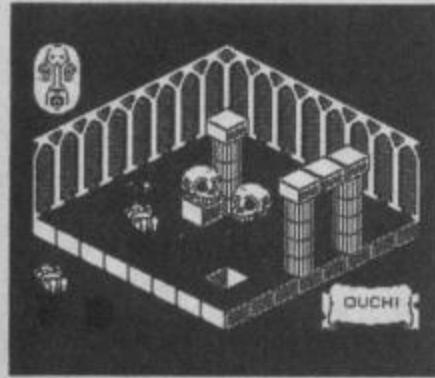
Name _____

Address _____



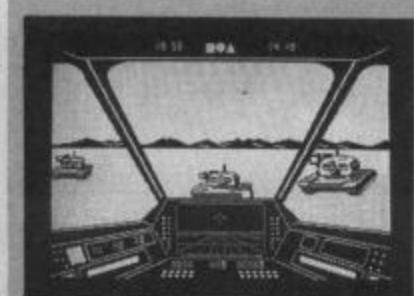
Prices include post & packing for U.K. delivery. Overseas orders please add 20% for additional handling and post.

Print 'n' Plotter Products



Confused? You will be, when you read this zany bit of prose. Come on in and enter the world of Sweevo, a cute but absolutely clueless robot. This brainless heap of metal is extremely intelligent, clumsy, accident prone and has a lot of faith in apples.

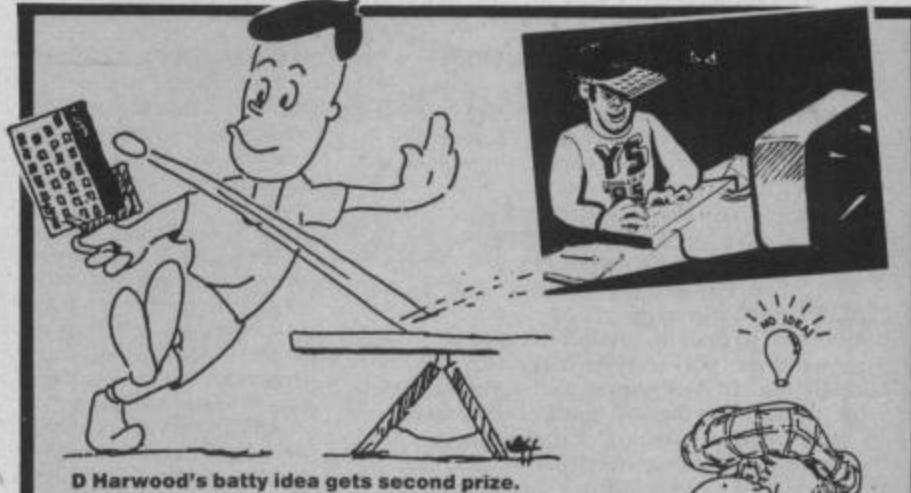
Gargoyle invites you to help poor 'ol Sweevo reach Active Status by getting rid of the widgets (don't ask) and clean up Knutz Folly. It sounds completely Knutz to us!



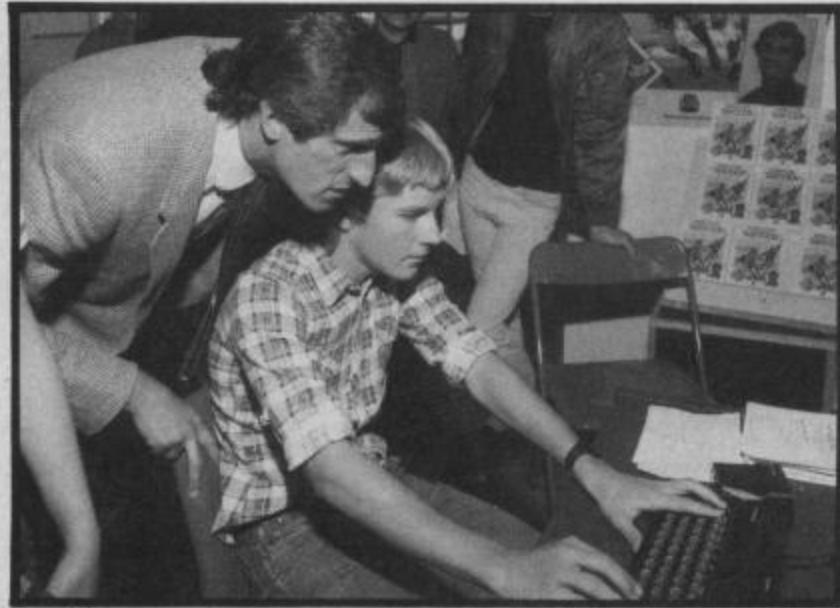
You can tank Ariolasoft for this game. Called Skyfox, it's a flight and combat simulation that's defected from those Commie devils onto the winning side, ours! The Speccy version costs £8.95 and is due for release on January 6th. So, strap yourselves in and take off in your Skyfox to shoot up tanks and shoot down planes. That'll show those Commies!



Hey, Jude. Yesterday, all my troubles were so far away. Now it seems there here to stay. Help! I wanna hold your hand. Remember the fab four? No 9 Software has just released *Beatle Quest*, a text and graphics adventure for the Spectrum specially designed for all you children of the Sixties. It's based on the song lyrics by John, Paul, George and Ringo, 'cept he never wrote any, and features puzzles involving thirteen of their most famous songs. Quite a Magical Mystery Tour.



D Harwood's batty idea gets second prize.



Ray Clemence, top international goalie and professional football hunk launches MacMillan Software's new game, *World Cup Soccer*. Nice one Ray!

WHAT A SAGA!



Stop holding your breath — the winners of the Saga Compo are about to be announced! Gasp! Cor! Wow! Calm down for a minute and cast your minds back to Your Spectrum 19 where we asked you what you'd do with your Speccy's rubber keyboard.

The four first prize winners certainly came up with the goods. Adam Norton of Farnborough said "I'd have it framed" and enclosed illustrations of 101 uses for a dead Speccy keyboard. Alan Bristow of Grimsby sent in a poetic use for his faithful friend. S.P. Kaliszizak sent in a rather sadistic suggestion, "I'd cut it up and use it to enter a Your Speccy compo" and that's just what he did — a blackmail type letter made up of the keys! And finally A Burton from Barnsley who produced an excellent drawing. (Another keyboard gone for a Burton, eh? Ed.) Congratulations to you all, you'll all be receiving a Saga 3 Elite keyboard.

Don't go away just yet though. The three second prize winners who each get a Saga 2 keyboard are Colin Maclarens of Paisley, for his tippeped message, Trevor White and D Harwood who sent in cartoons. Take a look for yourself and see what you think!

Finally, the three Saga 1 keyboards go to P Camp of Cowley, Colin Reekie of Fife and Jose Alexandre Casteo of Portugal for their visual offerings.

And that just leaves us time to say a big thanks to everyone who entered — you'll all be receiving your £5 discount vouchers soon.



Here's one for the Guinness Book Of Records — Troubleshootin' Pete thinking? Well, he needed to 'cos he had to take on macho man Chris Palmer at the recent launch of Ariolasoft's Think. And shock, horror, gasp, Pete won!



What an amazing discovery! Opus' sales fall mainly in Spain and Italy and Germany and Sweden... Well that's what John Harris, Opus' Sales Director says. "We've made a tremendous impact in Spain and secured contacts in other countries too!" And the baby behind all this success? Well, that's a Discovery.



What a posy pair! Wonder-boy Stevie Smith and Yehudi White here are playing at the Black and White Minstrels and singing a merry note, to the tune of a cool one million, Saga's latest turnover. P'raps someone should teach them a thing or two about their instruments. The only noise their keyboards are likely to let out is a little wine!



Eek, it's a mouse. Mice were never really a problem that Frontlines worried about too much. But now the place is overrun with them. Fortunately, the one that AMS sent us has a lead attached to stop it running away from the Speccy. The idea is to grasp it in the palm of your hand and move it around while pressing its ears. Cruel but after all it's only plastic.

The AMX mouse, from AMS, costs £69.95 — for that you'll get body, tail and interface with a Centronics printer facility and a fully illustrated operating manual.

Much more important is the software — AMX Art is a drawing program that uses trendy icons and pull-down menus. For more details about the feeding and breeding habits of your mouse, call AMS on

061-483 2737.

FANGS a million

Get your teeth into this! Domark has donated 100 pairs of falsies (teeth, silly!) to Frontlines and we're gonna give 'em to you. Just tell us whether people with wisdom teeth are cleverer than others and send your answer on a postcard to Your Sinclair, 14 Rathbone Place, London W1P 1DE. And if you forget to tell us your name and address, you won't get no fangs from us!

T'Zers...

The **YS** team has certainly been zipping about the country this month — it's a wonder we've had any time to write the magazine! I've been to see the Spectrum version of **The Young Ones** (see the amazing preview this issue) at Orpheus' headquarters in Bedfordshire. And what a hike that was — still I was well looked after by those nerds at Orpheus. It's actually in Gamley, near Sandy and the office is a converted mill. There's even the original pigsheds — maybe that's where it locks up its programmers while they're writing new games!

Troubleshootin' Pete had a flying visit to Bury St Edmunds (wise man) to see Martech's new game, **Zoids**. It's a strategic wargame where you have to pit your wits against the evil robot Zoids. More of that next issue.

So what else is new this month? Well, Saga is about to release a word processor that it says is better than **Tasword** — we shall see! It's also going to bring out another keyboard, the Saga 2+ but that's all I know at the moment.

Domark is keeping busy. It plans to release eight to ten games next year and there's a good chance that you'll be seeing **Eureka II** amongst them. There'll be prizes too, though not on the scale of **Eureka** — sorry chaps. Oh, and I nearly forgot, Domark is also hoping to secure the rights to the new James Bond film. Let's hope it'll be better than the last one — game that is!

Electric Dreams is bringing out **Back To The Future**. Funny that, since it didn't know anything about it last month. Well, you know where you read it first.

Ocean has plans to release absolutely zillions of games next year. You should see the appearance of **Cosmic Wartones**, a shoot'em up, **Nomad**, another shoot'em up and **Hunchback II**, not a shoot'em up (it's an adventure) before Christmas. Things should hot up even more in 1986. January sees the release of **NFL Superbowl** to coincide with the final of the Superbowl.



These two wenches were out promoting Sir Fred when they fell into the hands of programmers David Perry and Nick Jones. Now who's gonna rescue these poor damsels in distress?

Seems that Quicksilva has joined the wargames bandwagon. Set in the final stages of a terrible war (aren't they all) Death Wake will have you quaking in your shoes. You play the part of the Admiral in Chief with the awesome task of restoring the homelands' morale and helping his army reclaim lost territory. But it ain't easy — the enemy is only a step away from producing, da da, an atom bomb! Sharp intake of breath. Arm your battleship The Undaunted and prepare to destroy the enemy. This is your last chance.

SEE YA LATER, GLADIATOR



Now you know just what it's like working on YS — not much fun! Slaving away over a hot typewriter, thrown to the lines, being instantly whipped by his imperial majesty, the Editor. Doesn't he know that Rome wasn't built in a day? Who's ya hero, Nero? (Get on with it, slave, Ed) Well, in Roman times, nobody and nothing was free — unless you fought for it. Domark has recreated the atmosphere of the Coliseum in its new game, *Gladiator*, reviewed in this ish. But fortunately you won't have to fight for the freebie that's on offer. To find out if our gladiator here ever makes it to the top, just fill in the coupon (or a photocopy of it) and send it to Domark. In return, you'll receive a huge full colour poster of the complete cartoon. That gets the thumbs up from us!

Those of us who are about to receive a full colour poster of a *Gladiator* in action, salute you.

Name.....

Address.....

Postcode.....

Now send it to Domark Ltd, 204 Worple Road, London SW20 8PN.



FROM EL HIP

Morris from Hemel Hempstead and Laura Thompson from Epsom who wrote in for help.

Alex Miller of New Longton, Preston wrote me a note saying, "It's come to my attention that certain printer manufacturers are getting a little shoddy in their work. Gone are the standards of the British Industry..." Get to the point Alex. "I can't suss out the listing of *The Grid*, Your Spectrum 21. The offending lines are on the bottom of page 72." Hmmm, I see what you mean. Line 49576 should read:

BB 34 10 F5 21 4F BB 34 = 851

More printing problems come from Daniel Golder from Benbulben, Co. Sligo. Daniel's having difficulty reading line 4740 in the *Worm* listing in last issue. It actually reads:

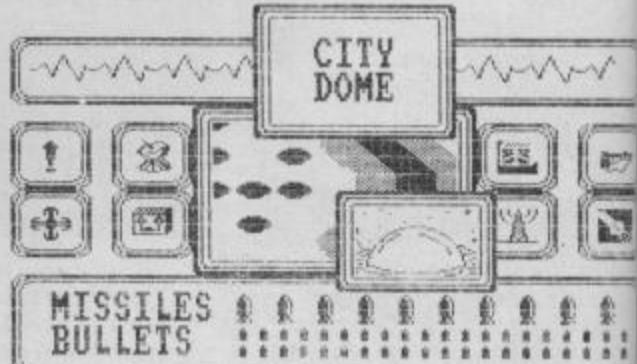
4740 IF T>2 THEN LET T=25:

PRINT AT 20,2" "

Got that Daniel? I hope that solves all your worries.

Well that just about puts the lid on it for another month. If you have any problems with the programs or the POKEs in the mag, drop me a line and I'll try to come up with the cure. Send your missives (Or your missiles! Ed) to From 'whatever-language-he's-into-this-month' Hip, YS, 14 Rathbone Place, London W1P 1DE. Adios pardners.

TROUBLESHOOTIN' PEDRO.



The Zoids are coming to a Spectrum near you. Mighty metal monsters locked in mortal combat in Martech's new megagame. Mmmm. You can get a good idea of the game from this exclusive preview screen shot. Your mind has been merged with the Zoid and what you see on the screen is exactly what the Zoid sees. Your mission is to find the scattered pieces of Zoidzilla and restore him to wholeness!

Hey this is really off the wall or maybe off the floor. The Stock Exchange has just surfaced as a new software company and its first offering is *Bulls And Bears*. And no it's not a platform game set in a zoo! It's an investment game. Or maybe you get a free copy of the FT with it!



FRONTLINES



Crikey, Virgin games has made so much dosh out of Now Games that it's decided to bring out a sequel, *Now Games 2*. Virgin Games' MD Nick Alexander said, "We were so pleased with the Now Formula that we're doing it again!" This time round Virgin's sticking on Elite's *Airwolf*, *Tir Na Nog* from Gargoyle, *Cauldron* from Palace, *Chuckie Egg 2* from A'n'F and *World Cup* from Artic. Hang on though where's the Virgin game then? On second thoughts maybe it's not such a bad move to leave it out! Just a joke, guys.

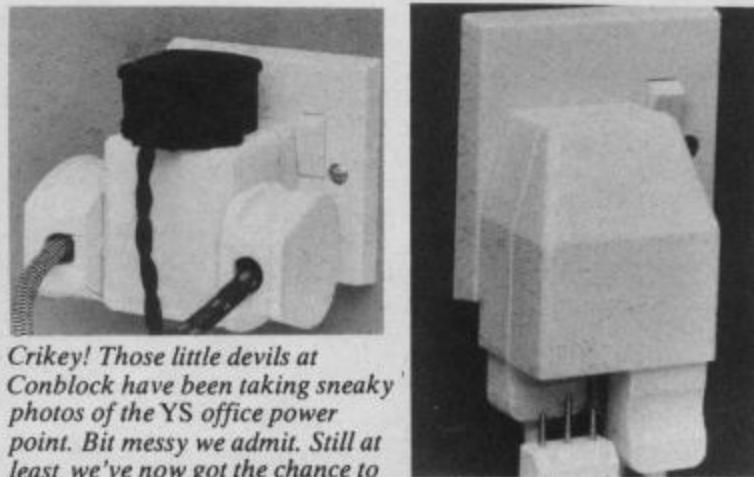


Hot on the heels of *The Art Studio*, Audiogenic has released *Icon Graphix* just in time to sneak onto the shelves before *Artist II*. It looks very much like a Commie conversion and lacks the one thing that everyone's screaming for — a mouse! Everything else is there, though — pull down menus, icon-driven commands and amazing fill structures. At £9.95 it's not a bad buy — even better if they'd included a rodent option.



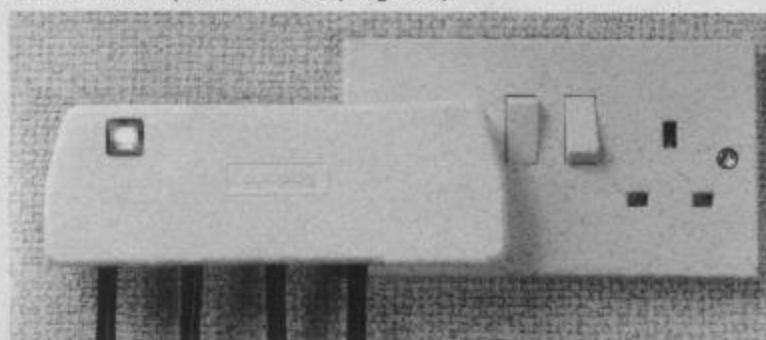
Tony Rainbird proudly announces the launch of Rainbird Software. Co-founder of Firebird, Tony has handed over the company to Herbert Wright so he can concentrate on the new company.

Rainbird Software will produce mainly state of the art type packages including applications software, strategy games, adventures and simulations. Good luck Tone.



Crikey! Those little devils at Conblock have been taking sneaky photos of the YS office power point. Bit messy we admit. Still at least we've now got the chance to buy Conblock's new four-way adaptor. It could knock your block off!

And if that doesn't switch you on, what about Duraplug's new four-in-one plug — the MultiLine? No need for four separate plugs — just wire up four appliances into the one megaplug. What will they think of next? (A five-in-one-plug? Ed).



Wacky software house, Global Software, is on the verge of releasing some new games. There's *The Beer Hunter*, calm down all you CAMRA fans, and *Attack Of The Mushroom People* — hey that's really heavy man. Look out for them early next year.

Buonos dios Juan, gotta new motor? Lucky old Juan Manuel Perez Vazquez picked up a cool £12,800 as the prize winner in Firebird's Gyron competition. He decided against the Porsche. A wise choice — imagine the insurance for a 16 year old!



Here's an interesting little fact. If you unroll all the **Rasputin** tapes we gave away last issue and lay them end to end they'll run to 2106 Kilometers. Wow! Ed reckons that's the distance between here and Russia, but then he's never been very good at geography.

What else? Oh yeah, **Movie** — an interactive 3D adventure. The action takes place in gangland New York and you've gotta find a cassette tape that contains vital info. Sounds fab! And for sci-fi addicts there's **V**. It's based on the TV series. Ocean is also rewriting **Street Hawk** 'cos it thought it was too dreadful to market. For once it's the first to admit it.

The rights to **Superman** outside the UK have been snapped up by software giants US Gold.

Argus Press Software hasn't exactly taken the charts by storm this year even with its subsidiaries Quicksilva, Bug Byte and Lothlorien but it looks set to release simply squillions of games next year. Let's see how good it is at keeping its New Year resolution.

One of the first of these games will be about telly's favourite plastic presenter, **Max Headroom**. It's due to stutter out s-s-sometime soon.

And finally we've a detective story with a happy ending — but don't try this yourselves kids. Odin had a break-in about a month ago and thieves got away with a lot of old deleted titles and eight copies of **Nodes Of Yesod**. Paul McKenna said, "Villains smashed down the door of Bug Bytes' premises where we were storing some software and helped themselves. We put the feelers out and got info that the goods were out on the streets in Manchester and Liverpool only an hour later." Odin actually recovered nearly all the software and six of the eight copies of **Nodes Of Yesod** but not with the help of the Police as I'd assumed. "Once we knew who had stolen the stuff and where it was located it was fairly straightforward. We just paid a little visit to these villains at 1 o'clock in the morning and got back all the stuff. They certainly won't do it again." That sounds ominous. Paul added, "Incidentally we weren't insured." Good job you got your stuff back then, eh lads?

Teresa Maughan

We'll take you beyond

QUICKSHOT II AUTO RAPID-FIRE JOYSTICK

SPECTRUM INTERFACE

DIGITAL
WAVE

DATA
LINK



This lady is deadly.



This man is harmless.

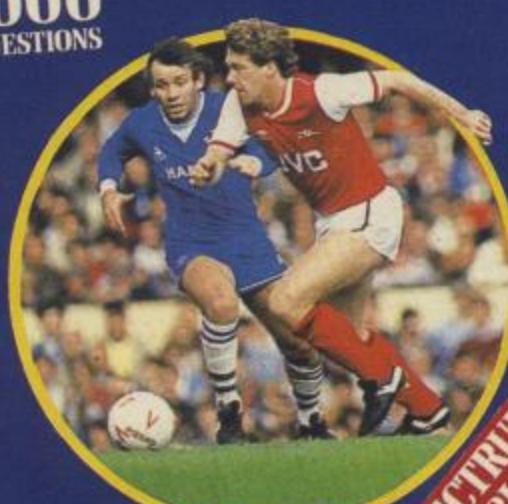


SCORE WITH FOOTBALL QUICK QUIZ

ROTHMANS FOOTBALL QUICK QUIZ

Editor: Peter Dunk

1000
QUESTIONS



VOLUME 1

SPECTRUM
48K

SOFTWARE FOR THE SPECTRUM 48K

- The mind-bending, memory-testing quiz game for 1 to 4 players or teams.
- 1000 challenging questions on British, European and International football – everything from historic goals to trivia!
- 3 fast-moving quizzes in one – "Assigned", "3-in-a-Row" and "The Race".
- Featuring full colour graphics · sound · continuous score display.
- Created by Peter Dunk – football journalist and Editor of *Rothmans Football Yearbook*.

QUICK QUIZ contains 1000 questions on the following subjects:

General Questions · FA Cup · League Cup · English League Football · FIFA World Cup · Football Trivia · European Championship · Managers · Famous Goals and Goalscorers · European Cup · Cup Winners Cup and UEFA Cup · British International Football · Scottish League Football · Scottish Cup · Scottish League Non-League Football.

QUICK QUIZ cassette for Spectrum 48K – price £8.95. Available from all good Computer Games Shops or direct from Holt-Saunders Ltd (Accounts Dept.), 1 St Anne's Road, Eastbourne BN21 3UN. (Please make cheques payable to Holt-Saunders Ltd and allow up to 28 days for delivery.)

ORDER FORM

Send me copy(ies) of Rothmans Football Quick Quiz 1 at £8.95 (inc. VAT, + free p & p in UK).

Name & Address (PLEASE PRINT)

I enclose payment of £ by cheque/postal order or debit my Access/Barclaycard/Amex/Diners card number

..... Date

Signed (ISBN 0 304 31269 X)

SU11/85

24 HOUR CREDIT CARD ORDERING ON FREEPHONE 2568. All other enquiries, tel: 0323 638221.

Cassell Software from HOLT SAUNDERS

QL NEWS

What the Q 'ell's going on for the QL? Find out here...

Metacomco is delighted with sales of its latest product *QL C* which was launched in September. A Metacomco spokesman told *Frontlines*, "QL C has sold extremely well since its release and is now one of our most successful products."

CDS has just released the QL version of *Steve Davis Snooker* — right on cue. And very playable it is too. Among its features you'll find computer play options with demo games, editing facility so you can set up your own tricks, three table speeds, accurate control over the degree of spin, joystick option and a variety of skill levels. And all for £14.95

The only trouble is we reckon it cheats. C'mon, even our Steve couldn't have pulled off some of the stunts the computer was throwing at us. There was this trick shot... (Hmmm, sounds like someone's a bit of a bad loser. Ed)



All looks jolly interesting, Steve!

Psientific Software has just released *Q Calc* at £9.95. It gives you an on-screen calculator that multi-tasks with other programs and is available at any time. It runs perfectly happily with programs such as Metacomco's *Editor* and there's even a cut-down version called *Mini-Calc* for

use with programs that require a lot of memory like the Psion packages.

Marriage a la modem. This complete communications package from Tandata is designed to colour coordinate with your QL. Called QL-Comms it consists of three modules that stack together. Q-Connect is an intelligent serial port that includes all the software you need for full viewdata and Prestel emulation. Q-Mod is a matched modem operating at 1200/75 bps and 1200/1200 half duplex. Finally, Q-Call completes the system with an auto-dialler that also works as an auto answer modem. And the cost of this little lot? £173.90 plus VAT. Tandata's just bought the system off another company, so if you'd like to buy one off them, give 'em a ring on 01-940 6211.



Firebird Software has finally decided to leap on the QL bandwagon with its first offering for the QL — *Booty*.

Booty sold over a 100,000 copies on the Spectrum and Firebird reckons the time's right for more games for QL owners, so it's decided to convert it. It's a platform game that takes place on board a ship. You play the part of Jim, the cabin boy, and have to wander round the ship collecting a number of keys that'll enable you to open the pirate's treasure chest.

Booty costs £9.95 on microdrive — more than other Firebird games, but to offset this Firebird has decided to throw in another game, *Grin Wars*, completely free. When asked why Firebird had decided to move into the QL market, Phil Pratt said, "We've been approached several times by hardware dealers urging us to bring out QL material and it seemed a logical step as many of our games are already available on the Spectrum." He added, "Many QL users have been left in the cold when it comes to games as there simply aren't that many available. We think it's good to have a presence in the market."

Booty should be available shortly before Christmas for all those hankering after some QL game madness.

QL CASH TRADER

DISK DRIVE VERSION
(CST, MICRO-PERIPHERALS ETC.)

£15.00 INC VAT

ANALYSER (DISK DRIVES ONLY)

This is a reporting module that allows you to extract virtually any sort of report for any period, reference, comment, analysis head or VAT type; from your randomly entered documents. If you or your auditor need detailed, specific historic information then you need Analyser.

£24.95 INC VAT

10% DISCOUNT FOR TRADER CLUB MEMBERS

Contact D. McNulty
Quest International Computers Limited
School Lane, CHANDLER'S FORD, HAMPSHIRE SO5 3YY
Tel: (04215) 66321



INCREDIBLE!

TRANSFER ANY PROGRAM TO MICRODRIVE CARTRIDGE
THE FULL POTENTIAL OF YOUR MICRODRIVE
CAN BE REALISED WITH THE

MIRAGE MICRODRIVER

NOW WITH EVEN MORE EXCITING FEATURES AND STILL

ONLY £39.95 inc P&P

Features:

- ★ NEW even faster loading from cartridge.
- ★ NEW optional saving of screen display.
- ★ NEW copy function for screen dumps to ZX printer.
- ★ NEW dump function for program hacking.
- ★ Consists of hardware only, no additional software required.
- ★ Transfers any program to Microdrive in one simple operation.
- ★ Extremely easy to use.
- ★ Freeze any game at any point, save it, and restore it later.
- ★ Compacts program for efficient use of cartridge.
- ★ Through connector for other peripherals.
- ★ 'Poke' facility for infinite lives, etc.
- ★ 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*

UPGRADE SERVICE: We will upgrade your existing Microdriver. Simply return the unit to us with a cheque for £5.95 and we will fit the latest version ROM.

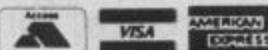
Note: This unit is intended for software owners to transfer programs on to microdrive cartridges for speed and ease of access. Programs saved using the Mirage Microdriver are *unreadable* unless the Microdrive is present.

Now available from your local computer store or in case of difficulty order directly from us:

MIRAGE
Microcomputers
Limited

Trade and overseas enquiries welcome.

24 Bank Street
Braintree
Essex CM7 7UL
Tel: (0376) 48321



HIRE SPECTRUM SOFTWARE

- ★ OVER 500 different titles available for hire including ARCADE, ADVENTURE, BUSINESS, EDUCATIONAL, etc.
- ★ OVER 10,000 tapes in stock. All publisher's originals.
- ★ LOWEST HIRE CHARGES - hire up to 3 tapes at a time, from only 63p (plus P&P and VAT) for 2 weeks hire.
- ★ FREE printed CATALOGUE.
- ★ FREE newsletter with hints, tips, reviews, etc.
- ★ TAPES for sale at DISCOUNT prices, (eg MANIC MINER £2.00).
- ★ FAST, FAST SERVICE. All tapes sent by 1st class postage.
- ★ HALF-PRICE OFFER - LIFE membership ONLY £3.00 (normally £6.00).
- ★ FREE first hire tape. (For limited period).
- ★ EUROPEAN MEMBERS WELCOME. (Payment in Sterling).

Have you ever been disappointed with software you've purchased? Now you can hire it first. If you like it, buy it at £1.00 off our already discounted prices. If you don't, send it back and it will only cost you the hire fee.

NSL is the best SPECTRUM library, with over 8,000 delighted members, the largest range of tapes and controlled by our computer with 22 mb hard disc. JOIN TODAY, or, if you don't believe our claims write or phone 01-661 9240 for a catalogue, and check our competitors. We're confident you'll join NSL

NATIONAL SOFTWARE LIBRARY

42 Harefield Avenue, Cheam, Surrey SM2 7NE.

I enclose £3.00 for LIFE MEMBERSHIP. Please rush my membership kit to me. If, within 28 days, I'm not delighted with your service you'll refund my membership fee.

Name _____

Address _____

ROMANTIC ROBOT present

56K Spectrum extension? Instant back-up of any program?

Joystick & video interfaces? YES! All this & even more with

NO1 SPECTRUM MULTIPURPOSE INTERFACE

multiface one Version '86

UNPRECEDENTED - UNPARALLELED - UNBEATABLE

at £39.95!

* Internal 8K ROM and 8K RAM open new concepts in Spectrum computing: 100% reliable saving of anything, anytime and onto all types of peripherals with extra 8K at user's disposal and with a full peek & poke facility covering the entire 56K. MULTIFACE ONE does not take any part of Spectrum RAM & does not need any additional software. Just push a button to freeze a program, save it and restart from the same point next time. Peek/poke facility and 8K RAM (say with a monitor disassembler) are also ideal for studying, modifying, developing programs.

* Menu-driven with prompts & one-touch commands: 1) Push button 2) Select function: exit/return/save/poke
3) Input name 4) Save to: tape/cartridge/wafer/opus/beta

* Extremely powerful & efficient compressing for fast re-loading & using minimal room on cartridges, tapes, wafers, disks. A 7K screen can be compressed to a few hundred bytes, the whole RAM into a few K (depending on a program).

* Option to save a full 24-line screen only

* Pressing the button & return can restart a "crashed" computer

* Through extension bus for connecting other peripherals

* User friendly, fully error trapped, simply magic

* Users must ensure the copyright laws are not infringed

Expand your Spectrum to 56 K and stretch its capabilities even further with

multiface one ESSENTIAL SPECTRUM COMPANION

I enclose a cheque/PO for £..... (UK & Europe orders please add £1 overseas £2)

or debit my No.

Name Card expiry

Address

Please send me (tick as applicable):

TRANS-EXPRESS cartridge	£9.95	<input type="checkbox"/>	tape (for m'drive)	£ 7.95	<input type="checkbox"/>
disk (Opus Discovery)	£9.95	<input type="checkbox"/>	wafer (Rotronics)	£ 9.95	<input type="checkbox"/>
MUSIC TYPEWRITER	£7.95	<input type="checkbox"/>	with supplement	£ 9.95	<input type="checkbox"/>
WRIGGLER Spectrum tape	£4.95	<input type="checkbox"/>	or cartridge	£ 6.95	<input type="checkbox"/>
WRIGGLER Amstrad tape	£7.95	<input type="checkbox"/>	or disk version	£ 11.95	<input type="checkbox"/>

THE HIT LIST

Wanna know who's chasing who up the charts? What bubblers have burst on the scene or what raves from the grave are still grooving around? Then cast your opticals no further — all that's hot is here in the YS Hit List.

Chart Chat 2

This month's chart sees *Fairlight* dropping down from the top spot to number 6. Melbourne House's two martial arts games, *Way Of The Exploding Fist* and *Fighting Warrior*, have also been chopped down to size dropping from number 2 to 5, and 4 to 7, whilst *Daley Thompson* is holding his own at number 3. *Frank Bruno's* own particular brand of exploding fist still lurks around the nether regions of the chart (*Bit below the belt that! Ed*).

The chart's high flyers have gone underground this month. *Monty Mole* has burrowed his way straight up the chart and surfaced in the number 1 slot with *Monty On The Run*. Close on his heels (or should that be paws?) is the underground bunker game, *Impossible Mission*.

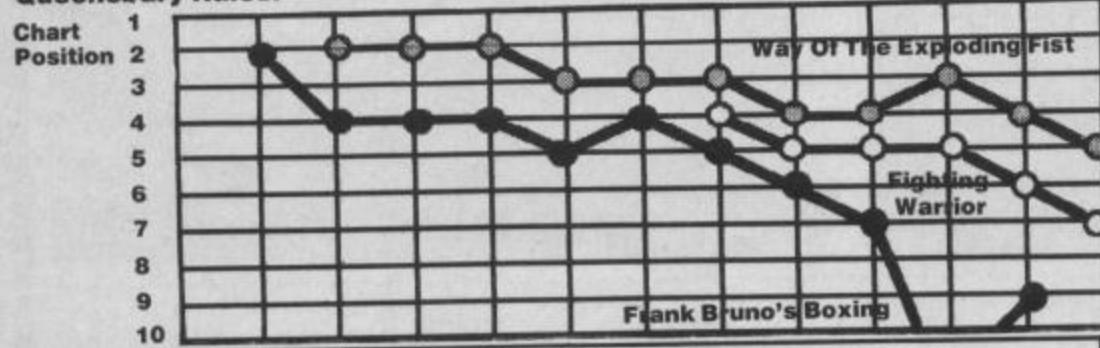
Adventures seem to be out of favour though. *Starquake*, *Gyroscope* and *World Series Basketball* all enter this month, whilst *Shadow Of The Unicorn*, *Bored Of The Rings*, *Nightshade* and *Sorderon's Shadow* all 'Go West'.

This Month's Top Ten Titles

Position	Last month	Weeks in Chart	● Title/Publisher
1	—	5	● Monty On The Run /Gremlin Graphics
1	—	3	● Impossible Mission /US Gold
3	3	8	● Daley Thompson's Super Test /Ocean
4	—	2	● Starquake /Bubble Bus
5	2	11	● Way of the Exploding Fist /Melbourne House
6	1	8	● Fairlight /The Edge
7	4	6	● Fighting Warrior /Melbourne House
8	—	1	● Gyroscope /Melbourne House
9	—	2	● World Series Basketball /Imagine
10	8	10	● Frank Bruno's Boxing /Elite

Fist Fight

This chart shows the ups and downs of the fighting freesome (shome misstake surely! Ed). Those inscrutable oriental types seem to have the droop on our own Frank Bruno — but then again, they don't play by the Queensbury Rules!



This chart 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, ask the manager to call Mark Salmon on 01-631 1433 — we'll send a copy every week.

12 Months Ago

Position	● Title/Publisher
1	● Underworld /Ultimate
2	● Daley Thompson's Decathlon /Ocean
3	● Eureka /Domark
4	● Knightlore /Ultimate
5	● Tir Na Nog /Gargoyle
6	● Combat Lynx /Durell
7	● Pyjamarama /Mikro-Gen
8	● Avalon /Hewson
9	● Travel with Trashman /New Generation
10	● Battle Cars /Games Workshop

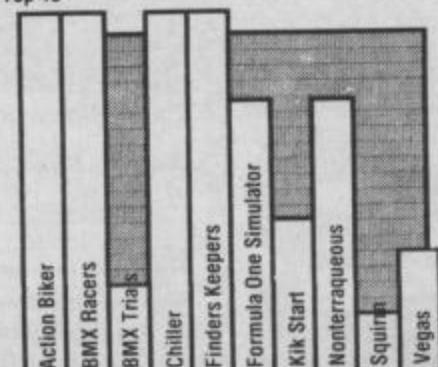
18 Months Ago

Position	● Title/Publisher
1	● Mugsy /Melbourne House
2	● Sabre Wulf /Ultimate
3	● Psytron /Beyond
4	● Codename Mat /Micromega
5	● Jet Set Willy /Software Projects
6	● Trashman /New Generation
7	● Fighter Pilot /Digital Integration
8	● Solo Flight /Microprose
9	● Blade Alley /PSS
10	● Atic Atac /Ultimate

Masterful Ten

In recent months Mastertronic has had ten hit titles. Five of these have helped Speccy owners get their show on the road, on either two wheels or four. In particular, Mastertronic's *Action Biker* and *BMX Racers* have both had a sustained period of success. The bar chart below shows how each of Mastertronic's games has fared over the past three months.

Weeks in Top 40





COMPO

When Mr Bobo Baggybelly of Rathbone End announced he was about to celebrate his eleventy-first birthday and the launch of Melbourne House's Lord Of The Rings with a magnificent compo there was much talk and excitement in Speccyton.

LORD OF THE RINGS

"Wotta we gotta do?" said Dilli and Divvi with one voice.
"Something about summarizing *Lord Of The Rings*."
"Bored of the Things?" asked Frond, Basildon Frond.
"No, *Lord Of The Rings*, the Tolkien book — we have to tell the whole story in less than 25 words."
"What's it worth?" asked Dildo
"Yikes — it says here a wow, whizzo, amaze-ing, absolutely fave rave and fab hologram worth squillions of readies"
"What? You mean one of those fabarama 3D amazingly life-like images that you can hang on your hut wall?"
"Who's it of?" cried the assembled mass of Rathbone fairy folk.
"Er ... the Dark Rider"
"Spooo — keee" said Gland Alf, silently.
"Groo" said Baggybelly "Who's coming to the goblin party?"
"After we've filled in the coupon — even thirty runners up get copies of the game" So send your entries to Bobo's hole in the ground — not a nasty, dirty wet hole you understand, oozing with worms, but because it's an editor's hole, one that means comfort — its address is *Lord Of The Rings* Compo, Your Sinclair 14 Rathbone Place, London W1P 1DE.

Honest Injun, I don't live or work in Rathbone End. The complete story of *Lord of the Rings* in less than

twenty five words is

Name Rune

Address Rune

Post code rune

Daytime Tel. number Rune

Lord of the Rings Compo, Your Sinclair, 14 Rathbone Place, London W1P 1DE

If you don't fancy cutting off Bilbo in his prime use a photocopy instead.



Lord of the Rings Runes, sorry, Rules

1. Entries should reach us no later than February 28, 1986, earthling calendar, that is.
2. There is no rule 2.
3. Bobo Baggybelly's decision is final. No correspondence will be entered into because the postman won't go to Middle-earth — he won't even go to Middle Wallop.

GLADIATOR



Spectrum 48K at £8.95

Choose from
45 weapons and
fight for your freedom

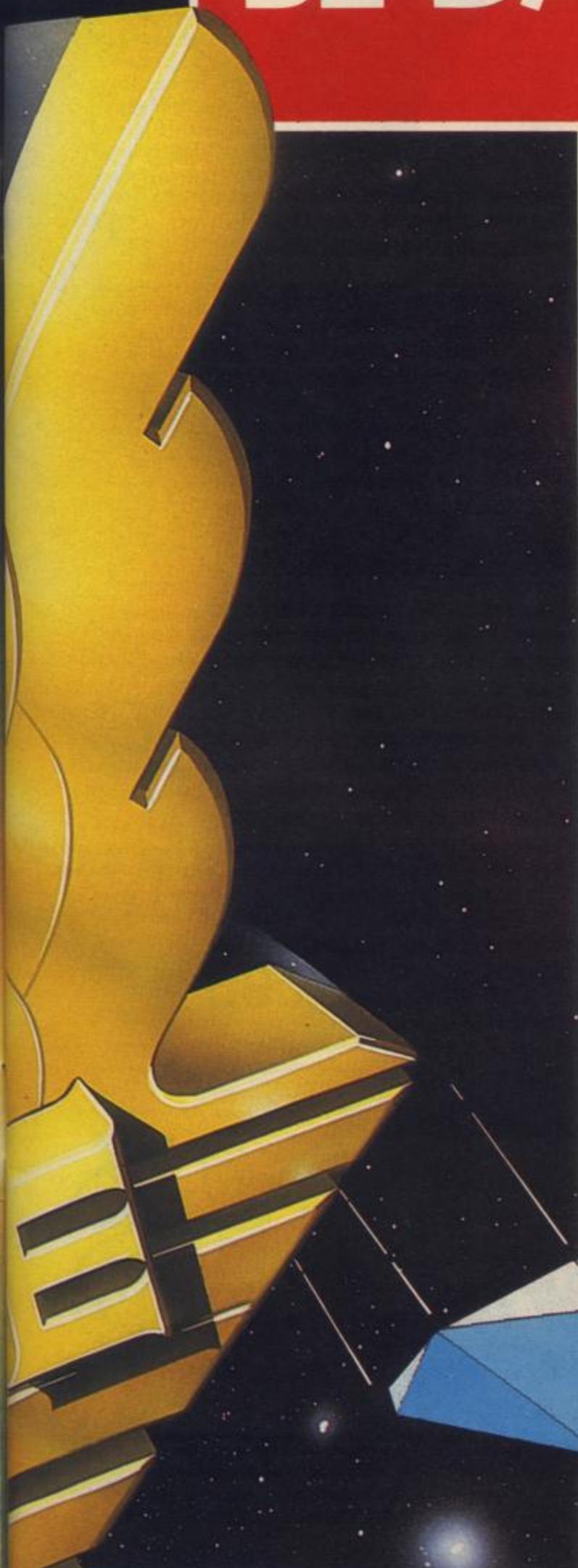
DM
DOMARK

Name _____
Address _____

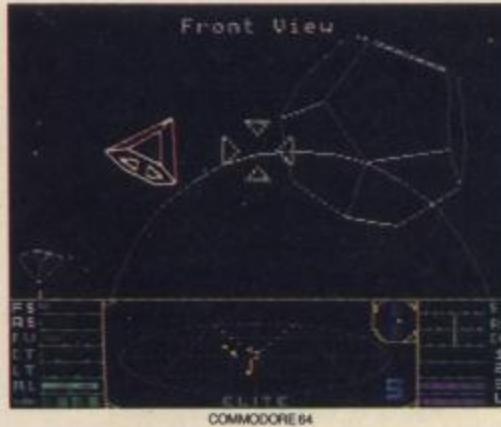
Write enclosing £8.95 (inc. p+p) to
204 Worple Road, London SW20 8PN
or telephone with your credit
card number on 01-947 5624. vs



BE DANGEROUS.



Play **Elite** – the ultimate, award-winning space challenge. It's an interstellar mind-game with incredible 3D Vector-Graphic space flight simulation. Elite's been called the "Game of a lifetime"*



You take command of a Cobra MK III combat craft and trade with alien cultures on over 2000 planets in eight galaxies. Pick your destination on the starmap, check the computer's 4-way viewscan – and make your first jump into hyperspace.

Starting with 'Harmless' status, you pick

up combat skills to win ratings of 'Average' to 'Dangerous'.

If you can handle it you could become one of the **Elite**, and win the chance to compete in the Elite World Championships.

It's dangerous all the way.

"To play it is to be entranced, enthralled and ensnared ... stunning." (Computer & Video Games Magazine).

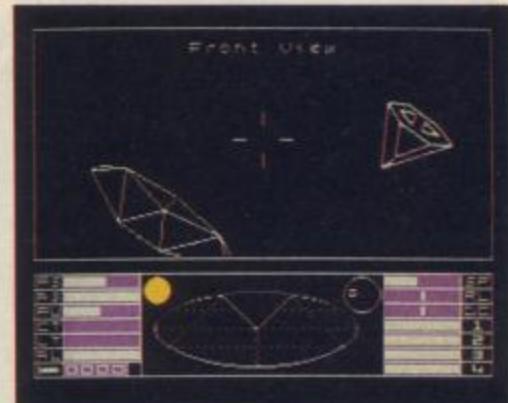
"A brilliant game of blasting and trading ... truly a mega-game" (Gold Medal Award, Zzap! 64 Magazine).

"One of the most imaginative games ever designed to run on a home computer ..." (Crash 'Smash', Crash Micro Magazine).

Elite is here now for the **Commodore 64** and **128** and **Spectrum**, and (very soon) for **Amstrad** and **MSX** too – complete with Manual, Novel, Control Guide, Ship Identification Chart and more.

Elite.

Be dangerous.



*Zzap! 64 Magazine.



FIREBIRD SOFTWARE · WELLINGTON HOUSE
UPPER ST MARTIN'S LANE · LONDON WC2H 9DL

GOLD
EDITION

"...THE FUNNIEST CARTOON ADVENTURE
YOU'LL EVER TAKE PART IN..."



SPECTRUM 48K
AMSTRAD 464

£7.95

SWEEO'S WORLD



GARGOYLE
SPECIAL EDITION

GARGOYLE GAMES LTD., 74 KING STREET, DUDLEY, WEST MIDLANDS DY2 8BB
Telephone: (Sales) 0884 238777 (General) 0384 237222

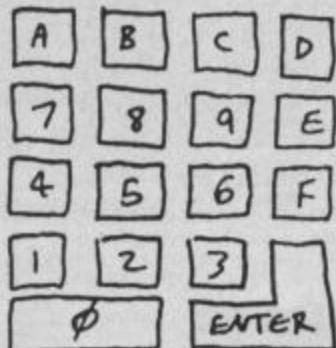
LETTERS

YOUR SINCLAIR, 14, RATHBONE PLACE LONDON W1P 1DE

A HEX ON YOU

I see that the new 128K Speccy has a small keypad attached to it. That set me wondering why a manufacturer hasn't yet come up with a hexadecimal format keypad to make typing programs in hex format into the Spectrum easier.

Such a device could plug into the interface port and simulate the relevant keys. It could look like this:



The arrangement of the keys with hex letters A-F on it, would certainly be more useful than a keypad with just numbers on it.

Perhaps YS Enterprises could market it. I'd certainly buy one!

SG Wylie
Ramsgate, Kent

Now there's an idea. Pass the soldering iron, Pete. But what do we do with all those left-over letter transfers — the ones that run from G-Z? Anyone else got any more bright ideas? Ed.

STAR CROSSED

I was very pleased to see my letter in your September issue made Star Letter.

I was even more pleased to see that a bundle of free software was on its way to me. Is it waiting — or where is it waiting — or what is it waiting for? I've just got the October YS and I see there's a bundle of free software for HIM too. Do I have to write 'more' Star letters and build up a 'bundle of free software' worth posting? Is all this in my mind? Am I dreaming? Does YS really exist? (All these questions will come under discussion in Philosophy — What's It All Mean and Why Are We Watching Channel Four At A Quarter Past Midnight? Ed).

Please write soon or I'm

sending my wife to stay at your office for a month. Then you'll know what hassle is and why I need my Speccy so badly!

Mac Pittman
Newark, Notts

I just hope your wife doesn't read this or that's one less reader for YS. As for the main drift of your draft, I'm very tempted to make this the Star Letter again and not send you two lots of free software but I s'pose it's somebody else's turn not to receive 'em.

Oh, alright, so someone here's been a bit lax but I'm not going to say exactly who — it might just be me. I'll get one of the minions to look into it. Peeeee-ter! Ed. Who're you calling a minion — I am not a vegetable! T.P.

IT'S NO LAUGHING MATTER

This is going to be a sensible letter. (It'll be the only one in the mag then! Ed). It therefore follows that I shouldn't mention Peet Shore's name and indeed I haven't.

The Troublemaker (shouldn't that be shooter? No, he always misses!) has been makin' trouble lately, though.

Take From The Hippy in Your Spectrum 19. Here Pete tells us how to 'deal with' dec/hex conversion. He tells us to put the number we want 'dealt with' into the A register and call the shadow routine. Notice he never actually says that this is the number that'll be converted — which is just as well since he doesn't tell us where the hex value can be found.

Maybe this is partially

caused by his physical disability — I wondered who the 'Invalid' in all those error messages was! Apparently, he doesn't have a 'beak to sip me coffee' either. I've always managed perfectly well without one . . . I don't feel sorry for Gollum!

Has anyone tried using the USR call from Codebusters on the YS MegaBasic input command? Nope? Well try it!

Can I say hello to Carl Whitwell? (No, you ruddy well can't. What d'you think this is? Radio 1? Ed)

Paul Taylor (Hacker Extraordinaire)

PS I'd use my old Speccy keyboard as a rubber fly swatter (CW). Don't get many rubber flies around here (PT).

Is there a doctor reading the mag? Quick, I think the Ed's just had a nasty attack of philanthropy. This — the Star Letter? Can you blame me for not sending out those bundles of free software! Troubleshootin' Pete Yes! Ed

WE-EIRD!

Hey you. Yes you, the purple frog with the six heads, nineteen eyes and the little sign on your desk reading 'Ed'. (I do hope you're not referring to our illustrious leader — well, it is the time of the year for my pay rise! Troubleshootin' Pete). You will:

1. Please send me full details of this new game, Alien 9 you seem to have invented in Input/Output ish 21. Or could it be ... No... it can't be ... yes, it's a cock up! What am I on about? Put a sarcastic comment here

and you won't receive another one of my wonderful letters. (Quick Pete, pass the file of sarcastic comments before he sends us more scribblings like this. Ed)

2. Please award this Star letter or a Trainspotter 'cos this is my third attempt. (Going for the sympathy vote, eh? Ed). Failing that, start up a new award like Weirdo of the Month and give the first to me! It'd shut me up for the next few issues.

Yours for ever crawling from the bottom of my elbow.

Mark J Weirdo Jnr OBE, President of the Hugo is a weird name society. (Membership 2)

PS Did you know that the controls for Ocean's new game Rambo are O to go left, P to go right and S to stop firing.

Weird? You're a positive fruitcake! And no, I'm not going to start an award for you and the other nutty member of the Hugo society. You need help, not encouragement! Ed.

RIGHT LETCHER

I've got a little gripe for you. (What, only one? I'd just love a bunch of gripes. Ed). About a week and a half ago while I was out shopping in a town known to most of us as Stevenage (a small area on Venus for the uninitiated) what did I come upon but a copy of Your Speccy ish 20.

Now I would've bought a copy there and then if it wasn't for the fact that I've already got an order placed on the other side of the galaxy with a Letchworth newsagent. Well, I've just got back from said newsagents holding a copy of my precious mag (creep, creep) and what do I find? A couple of compos in Frontlines that say 'and the first twenty people to send in the correct answers to these questions could win . . .'

Isn't that just a bit unfair to all Letchworthians? I bet that at least nineteen of the right answers came from Stevenage!

DOODLEBUGS



If you don't want to send in a long drawn out letter, draw it out instead and send it to Doodlebugs, Your Sinclair, 14 Rathbone Place, London W1P 1DE

These cartoons are part of Adam Norton's winning entry in the Saga Keyboard Compo from Your Spectrum 20. Plus Adam, you've now won a game from Doodlebugs!

LETTERS

Oh, I suppose that making this the star letter will put all these things to right.

David Willmott
Letchworth, Herts in the right place.

PS While you're at it you could persuade the delivery bloke to come here first!

When it comes to compos the Ed's decision is final and he is unable to enter into correspondence on this matter ie the lazy old coot wants me to give you an answer. And the reason for running compos in YS that so obviously discriminate against Letchworthians is because ... we've got it in for you, we're running a vendetta against the town, we just can't stand you. Happy, now? **Troubleshootin' Pete.** And now tell 'em the real reason. **Ed.** Oh okay, what we really meant to say was that the first twenty people out of the Ed's hat win a prize — they'd just better not come from Letchworth that's all! Well, not all of them anyway! **T.P.**

WILDGOOSE CHASE

• flying doctor. me a Trainspotters Award by deserve compensation so rush Castlemaine XXXX. I think I something other than from my hat. I almost drank nearly maimed by flying corks jump backwards and I was shock of this mistake made me Great Fire of London. The except for a screen shot of The mag was printed upside down, eyes, I noticed that the whole with tears welling up in my final Your Spectrum (sob, sob) While browsing through the What are you Poms up to?

Nuneaton, Warwickshire Wildgoose)
An Irate Wallaby (Karl

Ed You to XXXX Castlemaine so. Gone already it's — T.A. no. Like more wally — wallaby about dunno. Special Antipodean an was Spectrum Your of issue last the that realise you didn't. Sport down kangaroo me tie well.

THAT WAY MADNESS LIES

I want to tell you how much I like YS but there's one thing that's driving me mad. As I live miles from civilisation — and photocopies — I'm forced to buy two copies of the mag so that I can enter the compos and take advantage of your features like Digi'T'ape and Program Power. By the time I've cut out all the forms, the magazine is dead and I have to go and buy another copy. Is this a plot on YS's part to

TRAINSPOTTER AWARD



Seen the newest adventure from Mosaic House lately? Terror-Mole-nos! You have to construct a diary of your Spanish hols. But beware, you must bring back ten out of twelve successful pages of the diary.

Confused? Take a quick look at page 59 of Your Spectrum 21 and see what I mean. Come off it Ed, surely

make more money? The death of a copy of YS is a serious matter and so is my financial position. My solution to this problem is either to give me the 95p to buy another copy or include a pull-out booklet of entry forms.

Dennis Carroll
Howwood, Renfrewshire

It seems obvious to me that living miles from civilisation is indeed driving you mad. But look at it this way — out there in the back of beyond without even the fun of the photocopier to fill the hours between dawn and dusk, what else is there to fritter your money away on? No discos, no Smarties, no Wham records — hmmm, not so bad after all! All those pound coins jangling around in your pocket means you'll eventually grow up lop-sided which is useful for walking up the sides of heath-covered mountains but not much cop for forming deep and meaningful relationships, and then you'll end up a bitter and twisted old miser. No, all things considered, YS is doing you a great favour. Ever considered buying three copies a month? **Ed.**

AGONY AUNTIE

I have a problem. Perhaps you can help me Pete? (You really do have a problem if you think Pete can help you! **Ed.**) Well, actually, it's not me personally but a mate of mine. It's like this. He doesn't know whether to buy a Spectrum or a BBC or even a Commie 64.

I've told him a million, million times to get a Speccy but he's

you can come up with something a bit harder. I don't care anyhow 'cos I claim my Trainspotter Award so there!

Stephen Trask
Rochdale, Lancashire

Herumph. I think you're just making a mountain out of a Mole-hill but you don't terrify me. Let's see what the next contender for the Trainspotter Award has to say for herself...

I've just read Your Spectrum 21 upside down for the first time ever — it's worth doing this when you get to page 51 as it's the only way to get a good look at the screen shot of The Great Fire Of London even if you do miss out on the rest of the info on that page! I thought I'd be safe for the rest of this issue. Surely, even you would not subject your readers and fans (?) (?? **Ed**) to yet more complicated contortions.

Who could have guessed that you — in your wisdom (??) (?? **Ed**) — had planned

still unsure. D'you think he's bonkers? I mean when I got my computer I went straight to a Speccy dealer. Could you give him a few words of inspiration to make him buy a Spectrum?

Nigel Clarkson
Durham

Well, Nigel dear, I can see you really do have a problem. Oh, sorry ... your 'friend' really has a problem. But if we're lucky, you may have caught it just in time — another couple of weeks and it could've proved fatal. The trouble is that if your 'friend' can't see that the Speccy has the best games, the best graphics, the best ... well, it maybe that surgery is the only answer! There maybe a hope, though — even your 'friend' will be able to see at a glance that the Spectrum has one great advantage over the other machines. It has by far the best mag on the market — this one. So, get round there and show him a copy now. Will

SMALL PRINT

...Owing to a shortage of brain cells in vital areas, I am totally machine code illate... illrate.. blind — see, when they were giving out brains, I thought they said trains so I lashed out for a small, slow one! (Yep, you've got all the makings of a first-class trainspotter! **Ed**).

David M Gibbon
Salisbury, Wilts

...and before I run (from Ed's claws) I think Digi'T'ape should have programs on it that are too long for publication in the magazine. This way programmers would feel free to create 30K games. (Feel free! Sounds like a

on driving us all up the wall by printing another screen shot of Adrian Mole's Diary under the heading of *Terrormolinos*?

Now, hanging from the ceiling and confused as to which way up to read your mag, I'm in urgent need of a restorative for the nervous tension caused by this issue of YS — so how's about a Trainspotter Award... or two???(???? **Ed**)

Mrs L O'Neill
Transylvania

All that hanging upside down must have driven you completely batty! As for pointing out our mistakes, all I can say is fangs for nothing — you really got your teeth stuck into them, didn't you? Still, this month's Trainspotter Award will have your name on it — written in blood! You can stake your life on it, in fact. Now pass the garlic, **Ed**! I suppose you're going to tell me my job's at stake now... **Art Ed.**

you do that for me? Will you, dear, will you? **Troubleshootin' Pete.**

SPACED OUT

Here's an incredibly simple idea that everybody probably knows already. But I'll tell you anyway. If you want to put a lot of instructions in a Print statement, after the first quotes fill the remainder of the line with spaces and start writing on the next line as you want it to appear. When you've finished all the information you want to print, you can erase the first line of spaces. This saves a lot of time searching and justifying half words and the like.

Steve (useless programmer and games player) **Osborne Carlton, Notts in my hankie**

As Mr Caine would say, norra lot of people know that! **Troubleshootin' Pete.**

good idea. We've got the tape if you've got the time! **Ed**)

Freddie Lewis
A Barton lad from Bedford

...I was thumbing through issue 21 of Your Speccy — yes, that's the one with a picture of the Ed on the front cover, grovel, grovel. (Ho, ho, who're you trying to kid. The Ed as Rambo? Dumbo, more like! Troubleshootin' Pete. Uuugh...if I could only pick up this Bullworker I'd clobber you with it. **Ed**)

Fraser B Wallin
Ramsgate, Kent

...Is it true that only Groan-ups can crack jokes as badly as the Ed? (Oh, groan. **Ed**).

Andrew McGutchion
Earlsdon, Coventry

Add a new dimension to your Spectrum

SPD1 Disk & Printer Interface

- NEW - SNAPSHOT feature copies practically all tape based SOFTWARE direct to Disk.
- Uses standard BBC type Drives and Printers.
- Simple commands such as SAVE★"name".
- FREE Disk full of UTILITIES and HELP files.

68FX2 Professional Keyboard

A rugged high-quality printed keyboard with 68 full travel keys, full space bar, numeric and cursor pads and many individual keys.

LMT Products offer professional quality and ease of use at a price you can afford.

Imagine having almost a MEGABYTE of storage on floppy disks, using FULL SIZE Daisy or Dot Matrix printers all coupled with a REAL Keyboard, making Computing a pleasure.

£89.95
inc. VAT
inc. P & P

SPECIAL OFFER

Both products are separate but for a combined price of £114.95 you have **BOTH** -

SAVING £15!



*Your Spectrum's
best friend!*

LMT Computers Limited
South Street Commercial Centre
Bishop's Stortford, Herts CM23 3AL
PHONE 0279 506801/54437

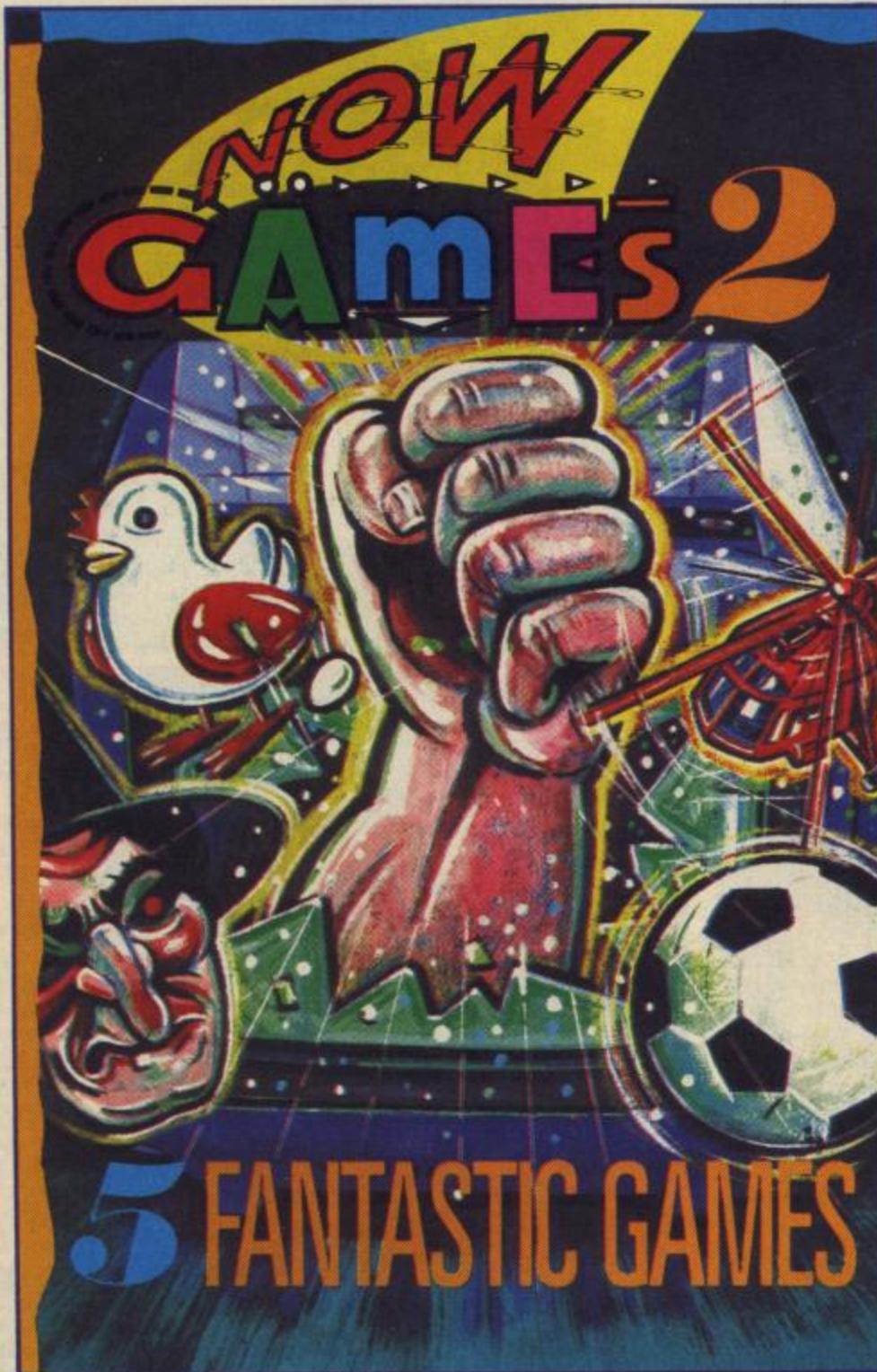
Name _____
Address _____
P/Code _____
Please allow up to 28 days for delivery.

I enclose cheque/postal order charge my Access/Visa



Five Fantastic Games

Keep your eyes peeled for **NOW GAMES 2**. Five major software hits jostle for your attention on this packed-solid-with-fun cassette.



Now that's what I call value



STILL AVAILABLE - NOW GAMES

featuring

Lords of Midnight, Brian Bloodaxe, Strangeloop,
Pyjamarama, Arabian Nights and Falcon Patrol II
for only

£8.95

Available from all good software retailers

Also available directly from: Virgin Games Mail Order, 2-4 Vernon Yard, Portobello Road, London W11 2DX

Available for
COMMODORE 64 and **SPECTRUM 48K**
and for only

£8.95



1. AIRWOLF - Elite Systems Ltd

Stringfellow Hawke must use his helicopter to free five imprisoned scientists in this exciting arcade game which takes place in a subterranean terrorist base!



2. TIR NA NOG - Gargoyle Games

This remarkable interactive graphic adventure allows you to play the mythological Celtic, Cuchulainn, searching for the fragments of the Seal of Calum.



3. CAULDRON - Palace Software

Take up the witches' challenge and unravel the mysteries of this beautiful land in this striking arcade adventure.



4. CHUCKIE EGG 2 - A & F Software

Help Hen House Harry in the smooth running of the A & F Chocolate Egg Factory! He must find equipment and find out where to use it in this amusing arcade game.



5. WORLD CUP - Artic Computing

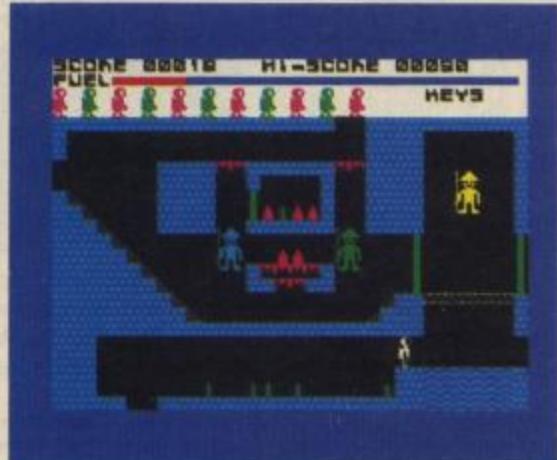
This great football simulation lets you re-enact the tough fight to the World Cup Final. Play a friend or the computer (a pretty tough opponent)!!

All screenshots from the Commodore 64

SCREEN SHOTS

That motley crew
Rick Robson,
Rachael Smith,
Steve Malone,
Luke C. and Alison
Hjul, are back with
their joysticks at
the ready to bring
you a bumper
collection of the
latest games.

CAVES OF DOOM



BACK TO

HOT SHOT

Microsphere/£6.95

Rachael Oh God, 'orrible Eric's back! Why they didn't expel him at the end of last year I'll never know — he makes that Adrian Mole of 4C look like a saint. But he didn't end his Skool Daze when he stole his report and now he has to sneak it back into the headmaster's safe. That's not just a question of catching masters with a crafty catapult either. Oh no, the alterations to the building have made life a whole lot more difficult and he's even saying he'll come over here into the girl's school. And do you think that the threat of lines from our headmaster will stop him? No! He'll just suck up to his girlfriend and get her to do them.

The reason he's coming over here is because the key to the headmaster's safe hangs round the headmistress's neck.... and we'll be gossiping about that behind the bike sheds, I can tell you! But the spotty little Rambo is well armed and he thinks it's funny to release a frog or a mouse here.

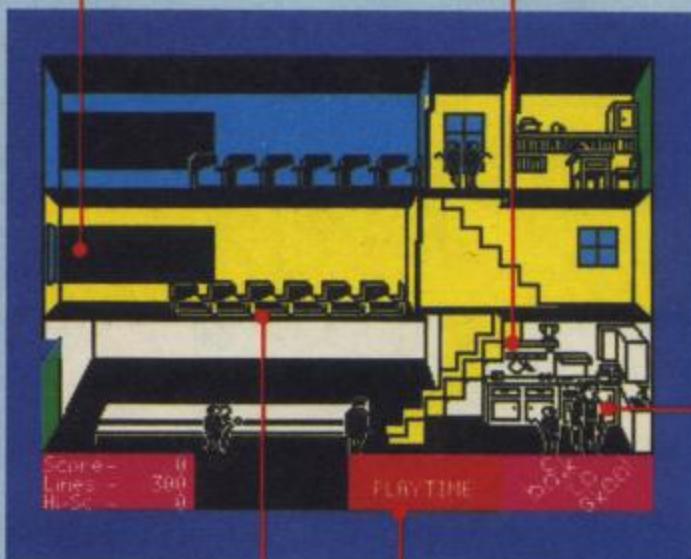
Mastertronic/£1.99

Steve Despite its title, this game is not a philosophical discourse on whether a machine has a soul — score 100 points for each deterministic fallacy disproved. It's instead one of those games where you enter the lair of an evil genius in order to save mankind.

On the face of it, Soul is an ordinary arcade adventure featuring Mastertronic's improved graphics. There's the usual series of obstacles to get through, filled with mobile nasties, and commands to fire and pick up useful objects. However, you won't get out of a section until you find the key. Since both these objects are fairly well hidden, players might find themselves doing a lot of wandering around before

Blackboards are for writing on. In fact, they're the only way to enter the combinations that free the bike and open the biology store.

How to deliver an amphibious chapeau. Drop the frog in here then topple it onto the head's head with a catapult. Sneaky, huh?

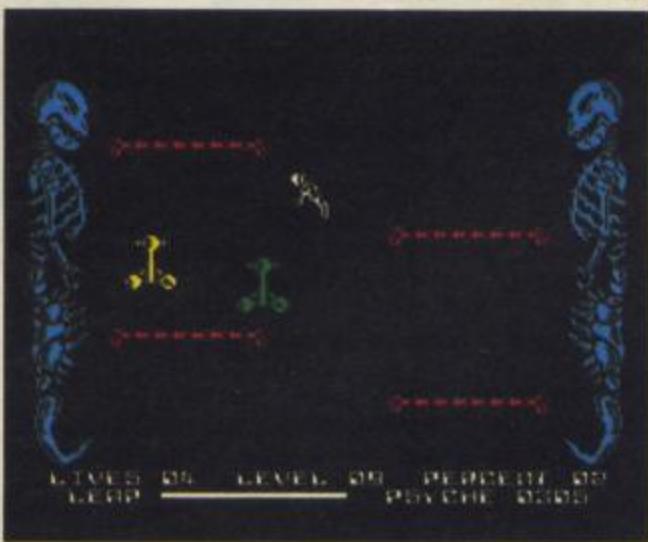


You'll find armory scattered around the desks. When you first enter a room try as many as possible before others occupy them.... and don't forget the girls' school.

Miss Take, our headmistress, and woe betide if she catches you here. Mice can provide a satisfactory diversion though.

Every school has its timetable — and chances are Eric will be ignoring it. However if he gets caught he'll need to go at double speed because the lines add up if he dawdles.

SOUL OF A ROBOT



finding them.

Luckily, the constant buffering you get from the nasties doesn't mean you lose a life, it just diminishes your energy. But be warned! I had to restart the game when my

robot got itself stuck between a platform and a spaceship!



Mastertronic/£1.99

Alison Imprisoned in a maze of caves, embedded in the planet of Doom, you must collect five keys to escape the evil clutches of the villainous Lord of Darkness whilst avoiding the usual selection of traps and nasties.

Well, if that induces the same feeling of impending comatose in you as it did in me, you'll be surprised.

Caves of Doom, with its little boiler-suited hero, may look like a poor-man's *Jet Set Willy*

//, but it's a battle of dexterity and wits as you zoom through forty locations, dodging marauding minions, in pursuit of your ultimate escape.

Well, I'm told there are forty locations — I couldn't even get through half that number. Cheaper than the price of a cinema ticket, it'll certainly keep you glued to the screen for a helluva lot longer!



SKOOL

The target of Eric's
struggle, the safe.
'Fraid that door
remains shut till the
head unlocks it.



Stairs can present a
control problem
unless you
remember that Up or
Down, if pressed
early, will still move
you forward until you
reach the steps.

Watering the pots
makes the plants
grow. Could
producing a flower
at the school gates
win a female heart...
and help with lines?

How to conker
Albert, the caretaker.
Drop a stink bomb
here when the
head's around then
knock a horse
chestnut out of the
tree onto the oddjob
man's noggin. But
it'll mean more
lines.

● Eric's inventory.
The well equipped
schoolboy never
travels without at
least one mouse,
some stink bombs
and a water pistol...
but try to avoid the
lines that appear to
the left.

That boys school still looks
like an ant colony and all the
old masters, ugly as paintings,
are back trying to keep Eric
where he should be. Only Eric
has to get the bike and get the
teachers drunk and to do that
he's got to get our
headmistress's sherry —
which gives him even less
time for studying than before.

I've always found Eric a bit
uncontrollable and there are
times when he seems to be
going his own sweet way. And
the masters are as bad as
ever. They don't give you time
to move before dishing out
even more lines, which might
mean that Eric's education
comes to an abrupt end. But
on the whole I'm sure he'll live
to try again, and a lot of
people won't be sorry.

I will though. You see, I only
know so much about Eric
because... yes, I'm his
girlfriend. And if he asks me to
write out any more lines I think
I'll hand him over to the head
myself.

Graphics
Playability
Value for Money
Addictiveness

ALADDIN'S CAVE

Artic/£6.99

Steve Just when you thought
it was safe to go back into the
Mansion, those awfully nice
people at Artic have brought
out another JSW clone.

Actually *Aladdin, Son of
Willy* isn't all that bad. There
are some fairly fiendish rooms
to get through and Artic has
added stings to the tail.

Firstly, you can change into
a dolphin, genie or whatever,
which makes collecting
objects much easier. The old
trick of picking up the easy
pieces and coming back won't
work on this one. If you leave
a room before you've picked it
clean, you lose all your other
pieces.



Graphics
Playability
Value for Money
Addictiveness

CHICKEN CHASE

Firebird/£3.95

Rick This may be a Gallic two
screen cheebo that you won't
need to buy on higher perches
but it's high on the pecking
order of this type of game.
Essentially you have to direct
your petit cock round his coop,
upstairs, downstairs and
occasionally in his lady's
chamber, where the little red
rooster learns all about the
bees and the humans. Along
the way he must eat to keep
his strength up to satisfy his
Frenchmen's 'apetite'.

However, rotten rodents
ranging from rats to stoats
keep ripping off Madam's
eggs. This harrasses the hen
to the point where she wallop's
our game cock about the
wattles. Most amusing.



Graphics
Playability
Value for Money
Addictiveness

GLADIATOR

Domark/£7.95

Rachael The stench of blood
in the hot sun. The roar of
voices. A battle where victory
means freedom from slavery...
and defeat means death!
Never before has a game
captured the spirit of Castle
Rathbone so well. *Gladiator*
may be set in a Roman arena
but the mechanics are much
the same. And above all the
bloodshed sits Emperor Ed,
the man who can give the
thumbs down to our efforts.

Domark's addition to the
D.S.D. (Do Someone
Damage) genre is divided, like
Gaul, into three parts. First
you can watch a bout or two in
the arena, perhaps laying the
odd bet, though you'll have to
do this in pence rather than
denarii because the gambling
option isn't any more than a
flashing message saying 'Bet
Now', as far as I could see.
Despite the cheeky suggestion
that betting is a programmed
part of the game it's a
compliment that the fights
appear realistic enough to
make them worth watching.

Once you've lost all your
change by buying Gladiators
it's time to practise in the
woods. Choose the two player
option then leave your
opponent static as you dance



PLACE BETS

around him before dealing a
nifty thrust with a sword. Or a
spear or dagger, or throw a
net, or whatever, because
equipping yourself for combat
from the complete classical
arsenal is an important part of
your preparations. Then it's
back to the arena for the best
of three falls and the
emperor's thumb, which turns
at the end of each combat.

It's an interesting addition to
combat games with 25 moves
available, though the pre-
production copy's method of
control, using two prods of the
fire button for some blows, is
highly unsatisfactory. While

Domark promises to replace it,
the alternative remains to be
judged. Providing it works
better than this it should give
you real involvement with your
fighter. I felt cheated that two
player combat is not available
in the arena so, in this mode
you cannot win your freedom.

Perhaps not the most
enduring of games, but with
superb animation, it's certainly
different and it gets my
qualified thumbs up.

Graphics
Playability
Value for Money
Addictiveness

7

The COMPLETE

PART 1

SPECTRUM

All you want to know about the world's best-selling computer

A Database Publication



AT LAST! The partwork more than 2 million
Spectrum owners have been waiting for!
PART 1 NOW ON SALE AT YOUR NEWSAGENTS

In six monthly parts

£1.50

ROCKMAN

Mastertronic/£1.99

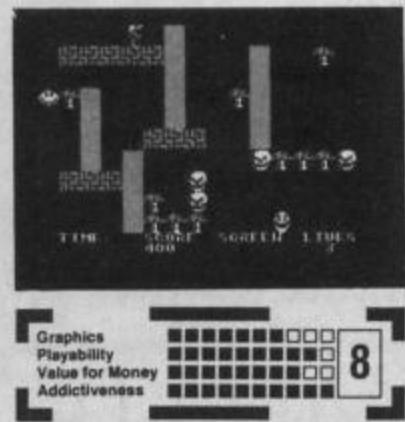
Luke Here's yet another addition to the long line of *Manic Miner* clones where the game's addictiveness more than compensates for the lousy graphics.

As the Rockman, you have to tear around the screen eating mushrooms and avoiding the ghoulish smiling faces that seem to follow you wherever you go. I say 'seem to follow you' because they do have quite a strict routine of movement which can, after a while, be predicted.

Rockman can move incredibly fast when he wants to, but he can also be controlled accurately.

Once you reach certain levels, you're assigned a password which means you can bypass the easy and familiar levels and start on unknown territory right away.

Overall, not one of the best arcade games I've seen but, if you're looking for a game to while away an hour or two, *Rockman* comes highly recommended.



Activision/£7.99

Rick Our 'Energy'd enjoy this one. Activision's made a noble effort at presenting the ignoble sport for the small screen in a game that puts as much emphasis on the pre-fight training as it does on the bruising bout. You play both trainer and boxer. So it's brains as well as brawn that'll decide whether you're champ or chump.

Your first task is to create your own boxer. You have the technology, but do you have the imagination? He can be endowed with all sorts of qualities — not just the obvious ones of stamina and strength but also image and attitude. You can even choose hair colour.

Through the promotor (who will appreciate your rapidly rising winnings) you can choose your opponent — either from the title contenders or the new pro-listings. The further up the listing you go the tougher your fight. Aware of his qualities, you can have up to twelve weeks in the training camp, where you have to choose how much time to spend on each part of your program — light bag, heavy bag, hand bag, weights or whatever.

Let's hope you get it right 'cos now it's the Real McCoy. A bout can last up to twelve three minute rounds. You're able to use a good number of pugilistic punches and counters — and again you'll have to decide your best strategy — keep your guard up or go for the kill. Beware — three clean blows could mean the end of the bout.

My only minor criticism is the lack of manoeuvrability — the boxers scuttle crabwise about the ring. And where's the skipping rope in the training camp? No wonder these boys aren't so light on their feet! All in all a top-ten contender in the software boxing championships.

SPELLBOUND

Mastertronic/£2.99

Rachael *Finders Keepers* was the game that proved that budget need not mean cheap and nasty. While it lacked state of the art graphics it was playable way beyond its £1.99 price tag. Now here's David Jones again, with our old friend Magic Knight, and a far better looking game, but at a higher price. A whole pound more! Questions will be asked in the House because, despite the 50 per cent price increase... this is probably even better value!

Now we are talking larger sprites, though with no less charm; more detailed settings, with less of the platforms element; and a far more complex game but one that is wonderfully playable.

At the heart of *Spellbound* are the nested menus, summoned by Fire. Using them you can pick up, drop, examine, read, interact with characters, throw things... in fact there seems to be an option for virtually every situation! Just as in a traditional adventure you spend a lot of time searching for objects. You'll always need to check what you're carrying because many things contain clues. The speed of the menu



system makes this almost effortless. And it won't take long to discover that some objects, however fishy they may seem, can be very helpful!

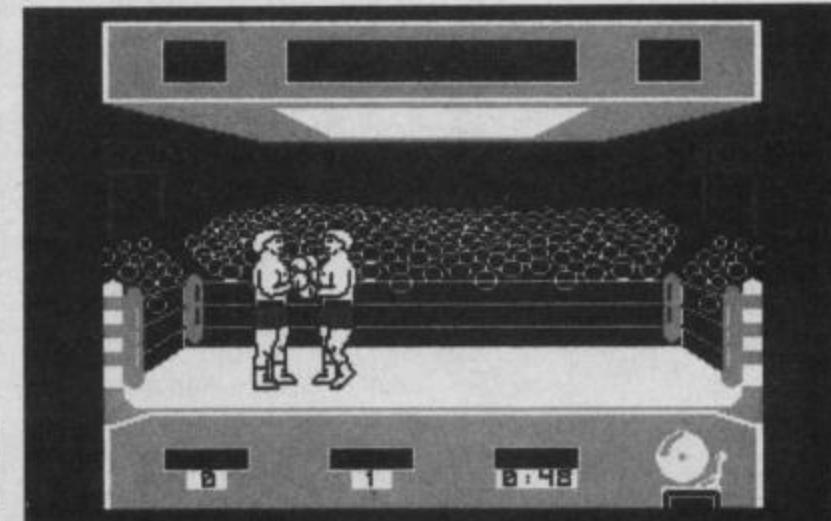
But to the plot. As Magic Knight, you have to enter the castle of that mad, bad mage, Gimbal who has got his necromancy in a twist once again. And as well as trapping himself in a soul bleaching spell, he's taken seven other highly individual characters with him. You must free them as well as the incompetent illusionist before time runs out. This is all presented with a

wonderful selection of logical puzzles and humorous touches and even the odd bit of arcade action thrown in for good measure.

It doesn't take the Crystal Ball I found in the lift to predict that this will be at least as big a success as Jones the Programmer's previous chart topper. But the really crucial puzzle I still can't solve is... how do they do it at the price?



BARRY McGUIGAN'S WORLD CHAMPIONSHIP BOXING



Graphics
Playability
Value for Money
Addictiveness

8

Costa Capers

Firebird Software/£7.95

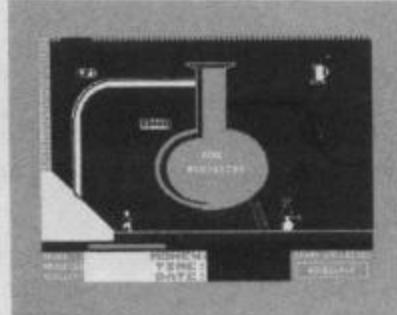
Luke Call this a holiday? It's more like a nightmare!

Poor ol' Ted has lost all his luggage on his way to Spain, and he's first got to find his credit card and then buy back all his belongings... especially his camera so that he can take snapshots to show his workmates back home. Drinking cans of lager help him in difficult moments... but a drunken Ted is not easy to control, and the hangover's even worse!

At first sight, *Costa Capers* really looks the biz. Modelled on *Jet Set Willy*, there are loads of screens cluttered with various nasties as well as useful items, such as parasols to keep the sun off. Trouble is, you can't tell which objects are useful to pick up and which ones kill you — you often just have to lose a life to find out and then remember which objects to avoid. The programmers have also opted to include the 'die for ever' syndrome from *JSW*, in which you keep falling through screens to your death. (If you get as bored as I do with this, an undocumented tip is to press the Break key and return to the beginning.)

Another little tip is to switch off the accompanying theme music as soon as you can — playing *Costa Capers* with the plaintive strains of *Viva Espana* in the background is no fun at all!

Overall, the idea of *Costa Capers* is an awful lot better than its execution.



Graphics
Playability
Value for Money
Addictiveness

6

Elite/£7.95

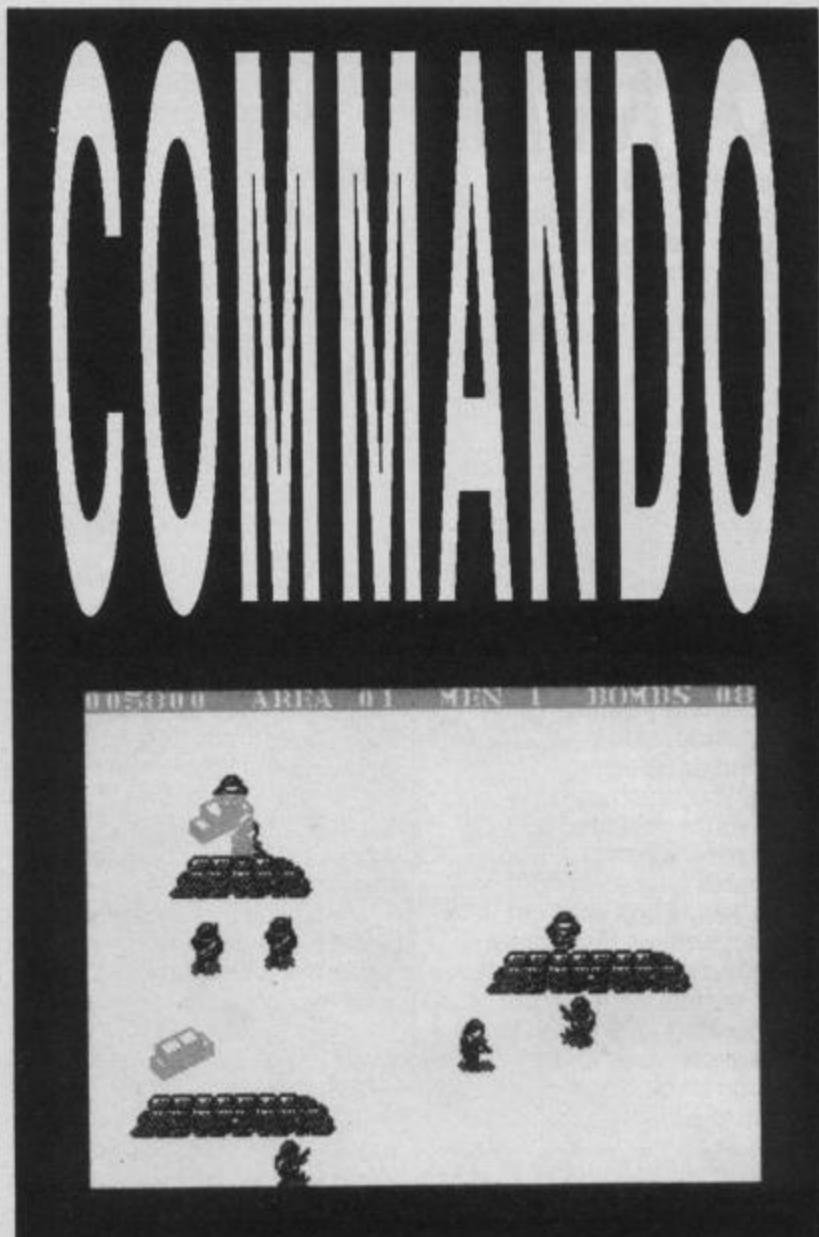
Alison If you've started to miss those mindless shoot'em ups that marked the start of Speccy game playing — you'll be dying to have a crack at *Commando*. Super Joe is the ultimate killing machine, his sole mission to wipe the enemy forces from the face of the earth. And he's armed only with his sub-machine gun and six hand grenades.

The game is an almost exact copy of *Commando*, the arcade hit. I say almost, as the programmers were forced to leave out some of the little touches from the original — like the chopper that drops our hero off at the start. The only thing you may miss is the sound — the taktakta of the machine guns and the kerpow of the grenades.

Once on terra firma, the game's the same — it's kill, kill, kill all the way to the end. Then it's straight back to the beginning where the slaughter starts all over again.

There are no real rules — just get in there and blast away, slaying the stormtroopers, gunning the grenadiers and blowing up the enemy battalions. Your machine gun's got unlimited fire power so spray those bullets about like a man with no arms — and after an hour or so's keyboard bashing your arms'll ache so much, you'll wish you didn't have any either!

The graphics are really neat but you'll hardly have time to admire the scenery — hang around too long in one place and the enemy sends in the heavy mob.



Commando won't stretch your mind and if you've got a downer on mercenary militarism then give it a miss. But if you like your shoot'em ups simple, they don't come much simpler than this. Play it

and blast away a few brain cells — yours and the enemies!

Graphics
Playability
Value for Money
Addictiveness

9

INTERNATIONAL KARATE

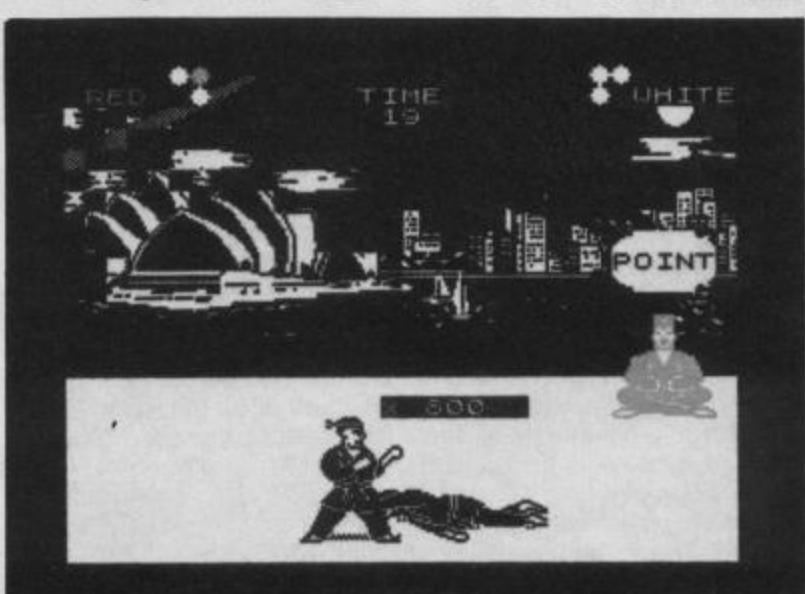
System 3/£6.50

Luke With so many games based on the thrills and spills of the old Kung Fu movies, *International Karate* is definitely a worthy attempt at being the best.

Animation's fine, but the backdrops of the various countries you fight in get pretty boring after a while. But then graphics isn't what the game's all about. Clobbering your opponent hard and fast's the aim of the game... *International Karate* has its Bruce Lees positively leaping all over the shop!

The fighters can choose from sixteen different movements but, as you can imagine, the logistics of carrying out these sophisticated moves — especially in a two-player bout! — is more than a set of weary fingers — or even a jaded joystick — can contemplate.

The judge of the fight announces — yes, the



program speaks... and it's almost understandable too! — the scores, and puts the players back to the starting grid if the fighting gets too silly.

It's an enjoyable game — but getting the maximum out of your fighting figure is a little difficult. All the same, it's fairly addictive and, if you just

restrict yourself to a well-chosen routine of kicks and punches, you can generally get good enough to fight your way through the levels.

Graphics
Playability
Value for Money
Addictiveness

7

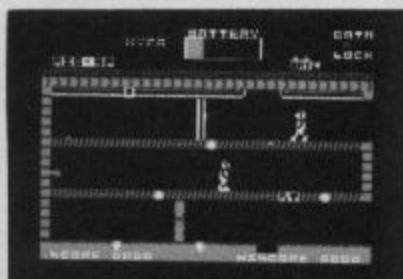
New Concept/£11.95

Rick Wax down the three-fin thruster, break out the factor five and the Ray-Ban sunnies, surfies... mmm, zinc oxide is so becoming.... This is it, the Big One, New Concept's square deal surf game *Surfchamp*, endorsed, no less, by the Irish Surfing Association — are they the ones who looked for a downhill lake for the water skiing team?

Credit where it's due. This really is a whole new concept in computer games, centred around the new Dublin based company's tactile interface that makes a joystick redundant. Well, in fact, it's a bit of plastic shaped like an ironing board you put on top of the keys. Then instead of pumping keys you simulate the movement of a surfboard — with your fingers, not your pins, you understand.

Titter not. It's not as silly as it sounds. In fact, for your average player it's too much like surfing and not enough of a computer game. A lot of time will be spent just paddling out looking for a wave and then mastering the skills to stand up, ride it, aerial, hang five and hang ten. Multiply this by weather variations, choice of board and gear (five of each) and you'll see there is plenty of game variation. There's also a choice of a ten speed practice mode or actual competition (with real life compo possibilities). And you've got to put your vital statistics in to increase the lottery.

So, not a lot of people might like this, but I loved it.



HYPRA RAID

Atlantis/£1.99

Rachael Platforms and ladders provide the basis for *Hypa Raid*, but as it's at a budget price we need not complain. It's a case of completing screens by travelling from floor to floor via teleport lifts, opening doors by walking across panels with your fire button pressed, or pushing buttons on the walls and collecting pieces of an object — all while avoiding the wandering baddies. Later rooms include booby traps, which can only be crossed when they flash blue, and teleports to other rooms.

Those with an eagle eye will have realised that I've only described this in the most abstract terms (thought I'd slipped up, huh?). That's because I quite like the game on this level. What I don't like is the plot that's been tagged on. 'The Russians have built... a MIG Starfighter... As a top CIA Agent... you are the natural choice to... save the West from Russian domination.' Gee, well, it's quite a thrill to be helping Uncle Ronnie further his Star Wars project and ensure that those Reds have no counter measure.... I don't think.



Graphics	Playability
Value for Money	
Addictiveness	
	7

SURFCHAMP



SWORDS AND SORCERY

PSS/£9.95

Rachael Through the mists of time in the dim and distant past a proclamation was made throughout the land.... Yea, verily, PSS will produce a true computerised role playing game and it shall be called *Swords And Sorcery*, to follow the alliterative vogue. But as time passed many scoffed and said that such a task was beyond the heroes of the age. And then one day the clouds rolled and the heavens thundered and the earth shook and the postman delivered a package. Only two years later S & S had arrived.

The great thing about *Dungeons and Dragons* and the like as far as I'm concerned is that they fire the imagination and draw you into a convincing world created by the game master. A lot of that involvement comes from playing with like minded people (or for those who have never become involved, loonies). Obviously you loose that element with only the hum of the computer to keep you company.

Role playing games are also notorious for the involved mechanics of running a world; constant dice rolling, looking up tables and consulting charts is conducted by the referee. But a good dungeon master will make it all look effortless and create an ongoing narrative with the players. Again the computer fails because the cluttered screen is far too busy. Familiarity will help you accustom yourself with the relevant windows, but even then I'd have preferred less of the bones showing.

The visual display. Here's a skeleton who's mindless, antagonistic, and illustrated in rather blocky graphics.



The best part of the game. Your chance to threaten the nasties with the cutest curses going and they can give as good as they get — only too few to choose from!

The scrolling action menus which are surprisingly easy to get into and amazingly versatile. But beware — eat without first dropping your sword and though you'll be told it wasn't edible it'll have gone!

Above all though, the dungeon should be believable, and it's the curse of bad players to create chamber after chamber of monsters. Unhappily the computer reproduces this 'hotel corridor' syndrome perfectly, replacing subtle traps and vivid description with continuous battles.

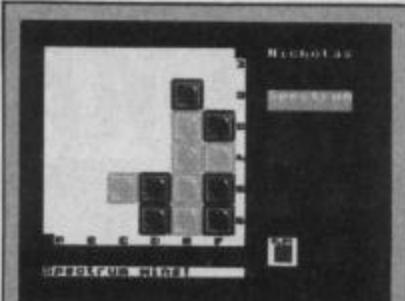
Not that it's all bad, and I'm sure S & S will become a cult of sorts. There's room for better dungeons as later levels are added to the core MIDAS system. And the true spirit of the game starts to come

Here's your map, showing where you're going and where the wandering monsters are.

All the latest news, from what you're carrying to how that last jab with a sword did. During combat you'll find your eyes crossing as you try to watch this, the command menu and the status panel all at once.

through if you get a chance to indulge in a little casual conversation with a monster before combat — the battle cries and insults are great. You also train your warrior at the start in various skills and attributes can be increased. But in the end I found it all too mechanical to do what it set out to, which is indulge the player in role playing.

Graphics	Playability
Value for Money	
Addictiveness	
	7



THINK

Ariolasoft/£7.95

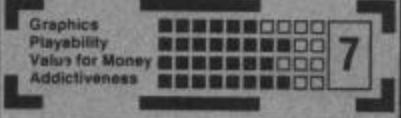
Allison So much for good old fashioned thinking, you'll need a PhD in applied mathematics to get one over the computer in this souped up version of Connect 4. Well, at least that's what I thought 'til the Ed thrashed me... so what better incentive to persevere with the game?

It all sounds pretty mindless — get four counters in a row on a six by six board. But, although it's easy to learn, it's a devil to master.

You can only push your counters in from the bottom or right of the board and, to heighten your frustration, as soon as you make a move, all the counters on that row or column budge along one.

But, just to ease things along, Ariolasoft has provided not only natty little icons with which to select the type of game you wish to play but also a tutorial mode where the computer will only let you select winning moves. Trouble is, on the lower levels, since the computer refuses to think ahead, the game's likely to get itself into a loop as you both place your counter in the only conceivable winning position!

If you're into zapping and killing, give this one a miss — strictly one for the strategists.



Micro-Computer/£7.95

Rick Remember how *Hampstead* starts — you're stuck in a grotty bedsit, watching 3-2-1 — it's the height of the social deprivation. Well, I've no desire to attain *Hampstead*, but Micro-Computer's cheap adaption of a cheap TV game just adds insult to injury.

It begins with a moronic True or False quiz which simply repeats the same questions with each round of the game. It moves on (though it's flattering to suggest this game has any sense of progress) with the wit and vision of a dead anchovy to a platform game of such unremitting mediocrity that I cannot even crack jokes of Ted Roger's standard to alleviate the gloom. The jolly chap chats away on the tape between sections explaining the rules. I'd never have thought I'd be glad to hear his voice!

Despite the massively inappropriate blurb the point is not to encourage family harmony via the home computer "avoiding the isolation that is so often caused by the machines that we are presented with in the modern world," but greed. By sending off your winning scores you can qualify for prizes which include a seven day holiday in Spain. And that's where all the money's gone folks — not on the program. Assign this one to Dusty Bin. It's so bad that if I was offered a choice between this and a season ticket at Highbury I'd seriously waver before buying it. The game, that is.

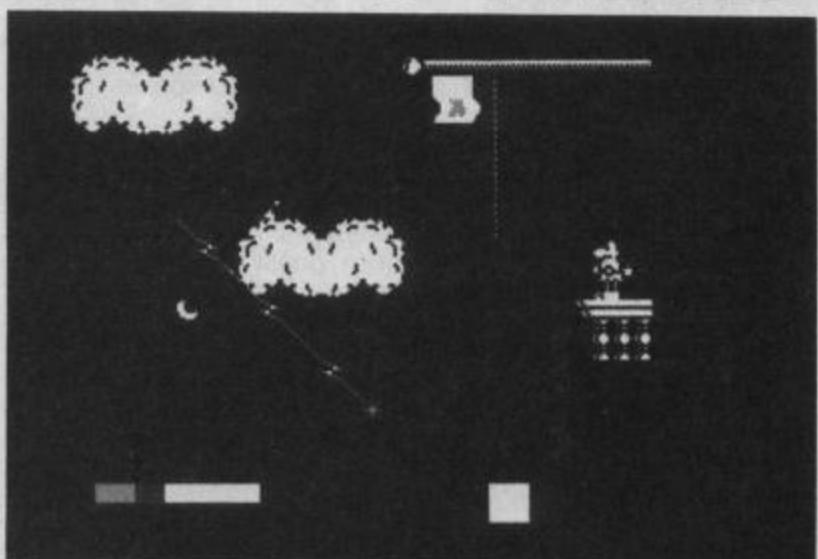
Mikro-Gen/£9.95

Rick Mikro-Gen's *Sir Fred* has nothing to do with running an airline but a lighthearted adventure set in medieval times. It should provide a surfeit of laughs for even the most surly of Speccy users.

Your quest, as Sir Fred, is to rescue the damsel in distress. Although you'll get to see her you won't know in which of the seven rooms she's held — until you've completed the whole adventure. What's more, each time you start a quest, the computer will select any one of fifty-eight game patterns. This gives you plenty of game play option — and plenty of objects to seek and use in your mission. Some can be used once, some over and over again — do you really want to?

A certain surprise is Sir Fred's amazing gymnastic abilities — despite — all his armour! He runs, jumps, swings on ropes and swims realistically. His in-built inertia means he gets puffed, falls over and drowns pretty realistically as well! He's a crack swordsman and brill

SIR FRED



bow man. Makes yer sick, don't it — no wonder he always gets the girl...

There's not a lot you won't have seen before, but it won't always have been so well packaged. The graphics aren't cosmic (nor medieval, mind)

— like the game it's good and solid. You could well while away a few knights with *Sir Fred*.



WILLOW PATTERN

Firebird/£3.95

Rachael Perhaps somebody should tell Firebird that it isn't all Fu Manchu and Chow Mein east of Dover. Their latest game includes Chinese Mandarins and Japanese Samurai, all out to stop our hero. He must be a mighty important guy to have the whole weight of the orient thrown against him as he

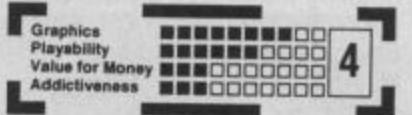


indulges in that cliched quest to rescue a princess.

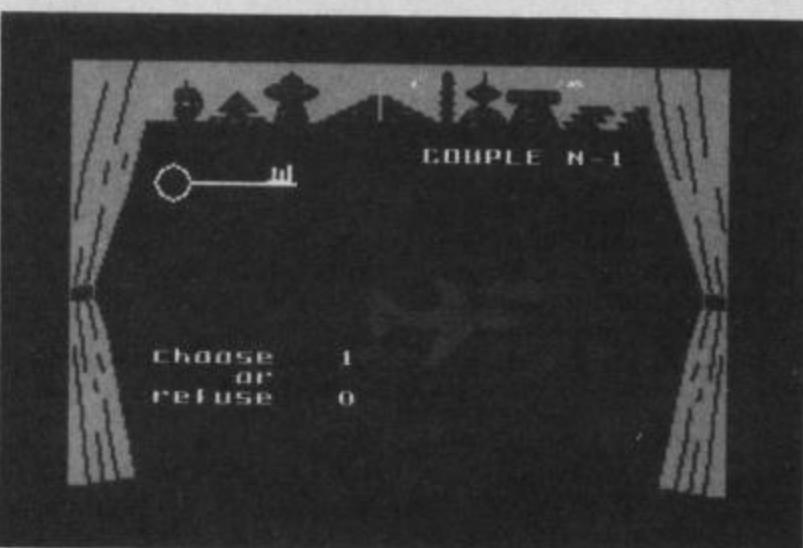
Traditional Japanese houses have paper walls. The same goes for this game because behind the admittedly pretty graphics lies no more than yet another maze game, and one that's tissue thin at that. Its major gimmick is a stone jumping routine that's so easy that the few times you do fail it will be because you're nodding off.

Difficulty comes in the shape of the warriors who block your path and must be disposed of by knives found lying around. The fact that there are barely enough of these makes life harder. But don't throw one then dodge off screen to avoid the Samurai's sword because you'll have wasted a weapon — they don't carry through. With scoring in the three figure range it won't even please the high number freaks.

Why Firebird are putting this out in the Super Silver Range I have no ideas, but Confucius, he say, don't buy this road of oriental Cobblers.



3 - 2 - 1



Graphics
Playability
Value for Money
Addictiveness

2

THREE NEW TITLES FROM . . .



. . . THE PROGRAMMERS OF STARSTRIKE



14.95

Microdrive

SINCLAIR QL KNIGHT FLIGHT

- ★ ADDICTIVE ARCADE ACTION
- ★ CONTINUOUS MUSIC AND SOUND EFFECTS
- ★ UP TO 21 MOVING FULL COLOUR SPRITES
- ★ ONE OR TWO PLAYER GAME OPTION
- ★ JOYSTICK/KEYBOARD

Real arcade action for your QL.
Surreal adventure.
A knightly quest astride a powerful mount over uncertain terrain.

Available soon:

- ★ Starstrike II (Amstrad)
- ★ Argonautica (Amstrad/Spectrum)

Don't just take our word for it
SEE FOR YOURSELVES!



SPECTRUM + 48K STARSTRIKE II

SHADED 3D

Forget just vector graphics. Now you can have real shaded 3D, solid objects that pass behind one another. A space shoot-em-up which is more addictive, has more game and has more powerful graphics than starstrike.

ALL ACTION ARCADE GAME

I enclose cheque/P.O. for £

Rush me: Knight Flight (QL) £14.95 Starstrike II (Spectrum) £7.95
 Argonautica (CBM 64) £7.95 Starstrike (Spectrum) £5.95

Please debit my Access No.



Name
Address

payable to:
Realtime Games Software Ltd., Prospect House, 32 Sovereign Street, Leeds LS1 4BT 0532 458948

Starstrike II (Spectrum) £5.95

MarTech/£7.95

Rachael When Castle

Rathbone's very own Charles Atlas, the Ed, said that in just seven days he could make a strong woman out of me! I guessed he'd bought me a chest expander! Instead it turned out to be MarTech's muscle bound micro-game. Now I must confess that ever since a certain Daley Thompson was responsible for the demise of my second joystick in a weekend I've had an aversion to Sinclair sports, but they say that a healthy body makes a healthy mind, so here goes...

Unlike the *Track and Field* mob, Geoff Capes concerns himself with displays of awesome strength. He pulls trucks, chops logs, rolls cars, loads barrels and rings the fairground bell... then he relaxes with a bit of Sumo wrestling! Or rather, you do and, sigh of relief, it's not all joystick bashing.

Obviously before you can even punch your way out of a paper bag you'll need to build some muscle, which you can do either energetically, with ten seconds of wrist action or the lazy way, by pressing fire and accepting what God gives you. You then allocate the strength between eight muscle areas, from ankles to shoulders.

Achieving each of the stunts calls for different skills. The ones involving vehicles consist of chasing the illuminating muscle icon with a pointer and pressing fire as an animated Mr Capes (be very polite here — he's bigger than me) flexes centre screen. Barrel loading sees the addition of joystick pumping and bell ringing could kill yet another Quickshot, but chopping and wrestling call more for timing. In each case you can apply more effort to the activity to speed it up though this uses muscles more quickly. As any remainder is added to muscle replenished it's worth aiming for efficiency.

It's not perfect, but it should keep a lot of people happy with its variety and difficulty. And here's a playing tip — if you really want to build muscles like Geoff's... do some press ups while the game's loading!

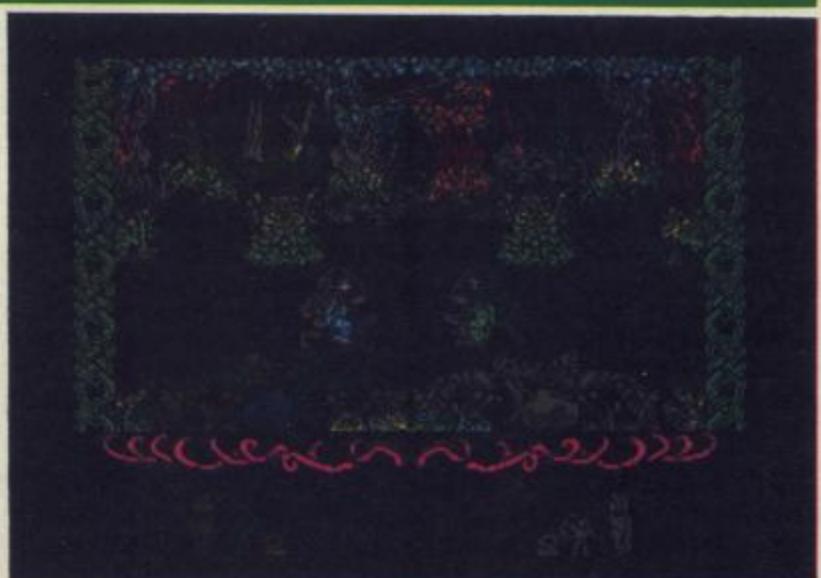
Odin/£9.95

Luke This is a funny sort of game — and you don't realise just how addictive it can be until you've been playing it for at least two hours!

Okay, it must be admitted... there are certain cynical gamesters who might point a finger at the format of the game and mention a couple of Ultimate titles, but *Robin O' The Wood* is certainly in a category of its own. For instance, the first time I played the game, it was over 40 minutes before I realised I hadn't yet been killed and tossed back to the beginning. Not that the game's easy...

You get to play the part of Robin, hurtling around the castles, woods and open land searching for keys, flowers, and all sorts of other medieval knick-knacks. The Normans trudge around the scenery relentlessly firing off crossbows at you, but they're fairly easy to dodge and they don't do that much harm anyway. The real menaces are the red rats — they kill... and quickly too! If you catch sight of one of them rushing towards you, there's no point in trying to kill it with your spear — it's just a waste of time.

Your life energy is measured by a white strip beneath the playing area. As you suffer crossbow bolts and encounters with rats, it gradually turns mauve and then blue... which means you're dead. Of course, find the white-bearded sage and you not only gain a new life but all your ills are cured. Watch out though for the green goddess that appears



out of nowhere, steals some of your treasure and naffs off.

Graphics are good and movement around the screen is both fast and smooth. And, although the screens are all fairly similar — which is how the programmer has managed to cram so many into the game — there are familiar landmarks every now and then

to get your bearings from.

It doesn't really bear much similarity to the Robin Hood stories we all know and love — but that doesn't matter a bit. A great game — buy it!

Graphics	Playability	Value for Money	Addictiveness
9	9	9	9

BRAINSTORM

Bubble Bus/£1.99

Rachael Back in the land of arcade adventure, you control Robin Banks, an interplanetary alien zapper who's been sucked down the plughole into Professor Brainstorm's castle. You can escape by walking, or using your jetpack, through a 650 screen maze where you collect keys and special weapons to do away with the eight guardians.

All fairly standard stuff, though nicely done, as you'd expect from the ever improving Bubble Bus. There's a nice touch too in the use of momentum when steering Robin, and loss of life results in him flying around like a burst balloon.

So far, so good, but either

I'm losing my touch or the game is just too difficult. The problem lies in the Clone's 28 varieties — that's almost half as many as Heinz! — whose ability to fill the airspace is worse than jets at Heathrow. Though they're easy to kill there're so many, and they replenish so often that it's

nearly impossible to avoid them, even while shooting. What I saw I liked but its sheer difficulty eventually made me lose interest.

Graphics	Playability	Value for Money	Addictiveness
6	6	6	6



Graphics	Playability	Value for Money	Addictiveness
7	7	7	7

OK. Quiz Time!

- 1** Where can you find over 100 **FREE** software programs a year?
- 2** Who can you go to for **FREE** round the clock advice and help?
- 3** How can you get instant news, views, gossip and "hands on" reviews **24 hours a day?**
- 4** Who gives you **FREE** national electronic mail?
- 5** Where can you "chat" with 70,000 other micro users?
- 6** Who'll help you publish your own database for all to see?
- 7** How can you take part in national multi-user strategy games?
- 8** How can you book a seat on the 3.15 from Euston—at midnight?

for just 20p a day

ANSWER

-008 20010202.11

*Make the most
of your micro*

Micronet 800
8 Herbal Hill, London EC1R 5EJ
Telephone: 01-278 3143

To: Micronet 800, 8 Herbal Hill, London EC1

Please send me a brochure on Micronet 800

Name _____

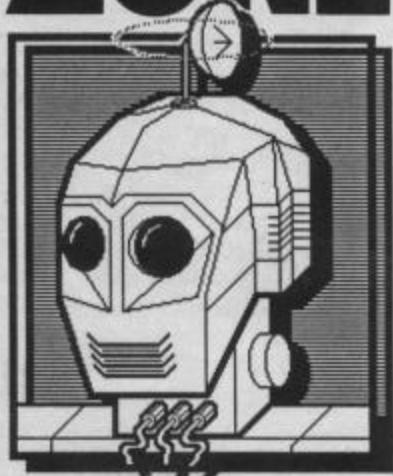
Address _____

Age _____ Telephone No. _____

Age _____ Micro. _____

YS 2/86

HACK FREE ZONE



He's back — Hex Loader — that hex fiend hextraordinaire, with more hexcellent hints'n'tips for fast hack free action.

Click, bzzzzzt. Ow! I must get that chip fixed. It's givin' me gyp, I can tell you. Anyway, how the hell are ya? Aright! Good. Now, to business. This time I've been getting a lot of comeback (Keep them letters comin', chummies!) from my pleas for mail from you carbon based gamers. I'm pleased to say the response has been staggering. Well, Pete staggered in with the sack, anyroad.

Pushing right off, we have a note here from one **Andrew Menzies** of Bradford. "I thought I'd send in a few tips..." About time too! Sorry... "Here are some codes to tap in to *Frank Bruno's Boxing*: (Use the name AND)

Boxer 2	Code	MM710F49B (FUNG CHOP!)
Boxer 3	Code	B7X100L05
Boxer 4	Code	FK5IN0A07
Boxer 5	Code	CE9IN9817
Boxer 6	Code	IHCIN96A8
Boxer 7	Code	ML6ION4B6
Boxer 8	Code	BFAINN2L5

To see the final effect, enter the code **CGAINA5CA**"

Thanx a squillion Andy. Now I can really take it on the jaw. (BIFF! Argh!) If I had one, that is...

I left you all in suspenders last month by giving you half **Keith Gronneberg's** epic solution to Fairlight.

Hah! Powerrrrr! Ha-ha-ha. Oops. Erm. With no further ado here is the final solution.

"Take the Book of Light, two small stoppered bottles, and the cross hidden under the throne, to the room with the monk standing at the top of the stairs. Drop the cross in front of him and push it at him — he'll disappear. Do the same with the next two monks this time with the stoppered bottles. At the top of the stairs pile up a barrel and a chair, and using the Book of Light, jump into the room above. Here you'll find the key to the castle gate. If you drop the Book, the figure here changes into a monk, but this seems to be a good thing, as I've only been able to get back out with him in this state." That's it, well, the bare bones of an explanation! This'll illustrate the difference between knowing how to complete a game, and actually doing it. (Teacherly tone or what!) But the averagely brilliant gamer should complete the game using these clues. Thanks Keith, pure gold.

Hello, what's this? A missive from my old mate **Russell Olieff** of Armthorpe. What's that he says? He's

found loads of mistakes in Hyper Sports? Well, tell us about it, Russie! "For a start." (This boy means business!) "If you're going fast in the swimming your man freezes. And not only that, I had a strange experience in the shooting. I scored 10,100 and the computer gave me an X and I failed to qualify. The score of 10,100 also didn't become the first in the world. I was playing my best game ever with 500,000 points! The weight lifting said 240kg but I thought it should've been 260kg. So I lifted 240kg twice" S-T-R-A-I-N... Snap! "Twice, and still failed to qualify. I thought after the weight lifting the swimming would go back to 45 seconds, but it doesn't! Does anybody know what's going on?"

Nope! Well, actually, there are two possibilities. One, your copy of Hyper Sports is corrupted, or two, there are some bugs in it. My advice to you, my little fruit juice, is to two-step your way back to the dealer you bought it from and get him to swap it for you. Having eliminated that possibility, you're then free to have a go at the manufacturer if it continues to work against you! Okay, me old chutney?

Right, face front! If you look across the page, you will notice we have more screen shots from my very own

monitor. Cast a beady eye over the hints'n'tips therein and ask yourself a question — could I do this? Well, yes you could. If you have tips on how you became an arcade hero, a hi-score, and a mug-shot of yourself, you're in! Your score'd better be good, though. I'll match it, point for point and you'll see the results — my score against yours. Hex's Heroes. Be there or be, like me, square. You can also write to me about your current fave games.

Fave games of the month are the totally marvey I, Of The Mask and the program which could out-Elite Elite, Tau Ceti. I can't leave these babes alone, and neither will you! Go get 'em, and let me know what you think.

That's it. My mailbox is ready, my printer is powered up and ready to print out your letters (Brrrt! Roger, Hex! — Peter the Printer) and my optical pickups are polished and waiting for your words. See you there. I'm waiting... Click. Bzzzzzzzzzzz.

Buzzz, wirrp. Can Hex Loader be turned on by you? He's just waiting for your hints 'n' tips to get all charged up. But remember when you send them to include a sketch of the screen, clearly labelled with your suggestions. Hex holes out at Hack Free Zone, Your Sinclair, 14 Rathbone Place, London W1P 1DE.

HEX'S HEROES

Whheeeee! Phizz, Phuttt... Phew, it's lucky that Pete plugged me back in, or else I wouldn't have had time to tell you about this month's Hex's heroes. Mmmmm...

Well, seasonal greeting an' all that are obviously floating around the mind of **Snowy White** from Westbury-On-Trym who claims to have scored the big zilch in Durell's Scuba Dive, 'cos he melted! Seriously though (what does that mean?), Snowy managed a respectable score of 17-0 in Match Day, which ain't too bad for a snowman.

Across the water in the Needer-lance (that's Holland, huh?), **Jeroen Molenach** (hope I spelt your name right, Jeroen!), has knocked up a wonder-fuel score of 59550 on Pole Position. But I think it's time for a gear change!

Hurdie-hurdie-hur-di-hoe. Ahhh... We must be in Sweden. See de good score on Exploding Fist, 29600. Must be the wonder-haircut himself, **Per Holm**. Maybe his hair took that position after he bumped into a mad reindeer.

But that's all I can tell you, because I think Pete wants to use my power point to plug in the coffee machine. Two sugars please Pe...



Snowy White
Match Day/17-0



Per Holm
Exploding Fist/29600



Jeroen Molenach
Pole Position/59550

NODES OF YESOD

These tips might help you with *Nodes Of Yesod* — courtesy of Hex!

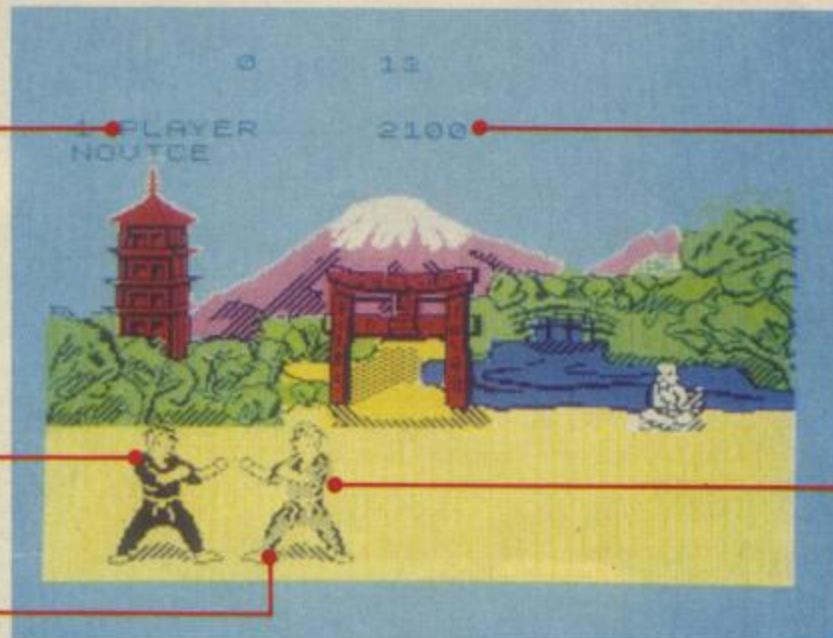


- When you have the eight alchims, go straight to the equivalent marker alchim. You'll fall down a hole and come face to face with a monolith. Gasp! Walk into this, and you'll have won! Yee-ha!!!

Try and keep the marker alchims to the right of the box. If your useless alchims are on the left, the red astronauts will take one of them, leaving your stash of markers untouched!

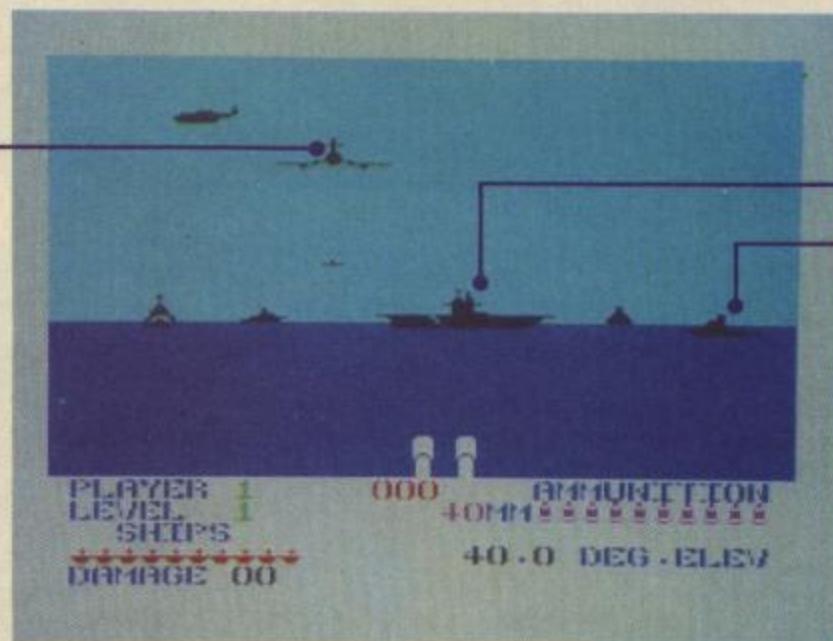
WAY OF THE EXPLODING FIST

Way of the Exploding Fist punched in by Graham Cairns



BEACH HEAD

Kevin Matthew of Middlesbrough, Cleveland, gets tanked up for Beach Head



FINE YOUNG CANNIBALS

Prepare for a taste of Paradise — only trouble is the Weeks family is on the menu. But rather than make a right Wally of yourself, read Rachael Smith's review of *Three Weeks in Paradise*, the new feast from Mikro-Gen. Dinner is served!

Every year thousands of wallies go on their hollies, but there's only one Wally and neither he nor the missis nor even Herbert, the nipper, come within that notorious 18-30 age range. So Wally, being wally, decided on a pleasure cruise... on the HMS Pedalo!

Eventually the gormless mariner was washed up on a desert island, and when the natives said come to dinner he was thrilled. But he didn't realise that the first course was to be Boiled Baby followed by Sautéed Spouse. And as Wilma's always been a game old bird they were keeping her hanging around first. Her parting cry was to call her hubbie a stupid pudding, but that was the last

YOUR SINCLAIR
MEGAGAME

Well, well, well - I'm wishing for an easy passage so I'd better jump down below.

Choosing left, right or going into this building is such a headache I've got a pain in my temple.

Eek - an 'orrible arachnid and it's stopping me reaching that skeleton key.

Now what does this mean? I'll need to be a sharp cookie to solve this clue. Maybe I should axe.

I hope that's a bottle of bubbly because these fatal floaters are driving me up the wall.

Out of my way you blay or I'll knock the stuffing outa you.

Brrr - it's cold as the North Pole - oh. To feel a hole lot better suck it and see.

I may be thick as two short planks but I know I'll find a use for deux sticks if I scout around.

Stop to re... is it looks... ge another

Oh no - paw Herbert's stock in the pot and I'd be lion if I said it wasn't a thorny problem.

I knew the night had a thousand eyes but this is blinking odd.

I started here but I'd be bats not to look for Wilma. If I spied 'er perhaps we could go bowling.

Service moves at a snail's pace here, and it's deadly. Must dash restaurant.

Pity this chopper is blunt. I'd try the bees but hive an idea they're unfriendly buzzers.

I'll have my fill of the empty billy can because if that geezer billy can, so's Wally.

thing he wanted to be — and he was already hot-footing it into the jungle.

And that's where this episode in the Wally saga begins. You're helping him rescue his family and stopping him getting... sorry, becoming somebody's just desserts. You just have the man (man?) himself to control this time, but other features make the game an advance.

Instead of just swooping objects you can now choose to pick up and drop things as well as having to use them in the right places. That means Rambo-Wally's rescue mission calls for even more ingenuity. There's also a nice selection of puzzles, from the fairly obvious to the maddeningly difficult, but

they all depend on acute lateral thinking and horrible puns.

In return there's less of the arcade element this time with fewer things to dodge. But the thing I liked best about *Three Weeks* was its humour. There's a speech bubble *Ouch* as he rubs his behind. And look out too for the scrolling message line at the bottom of the screen that conveys some screamingly cryptic clues, as well as the family's cries of help.

And finally fed up with reviewers' constant grumbles about attribute problems, Mikro-Gen has included the option of switching off Wally's colouring.

A word too for the music — it's great, and it adds a lot to the humour. A great

game that just goes to show that even if he's too old for Club 18-30, Wally's not past it yet.

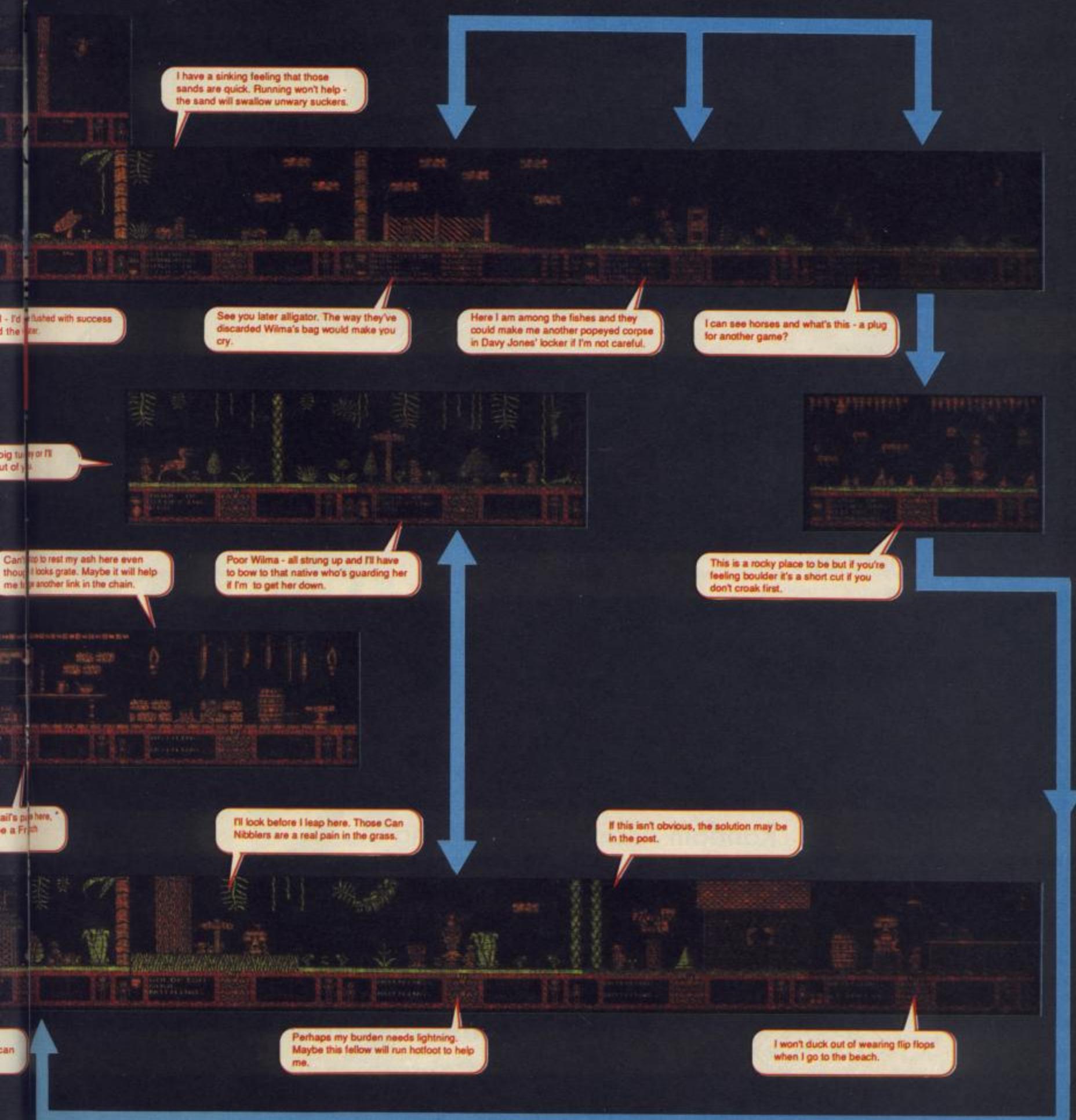
FAX BOX

Game
Publisher
Price
Joystick
Keys

Three Weeks in Paradise
Mikro-Gen
£9.95
Sinclair, Kempston
Alternate Top Row
Left/Right, Bottom Row
Jump, Middle Row
Go Into Screen/ Swim/Shoot/Climb/
Use Object, 1/2 Pick Up/Drop Object 1/2

Graphics
Playability
Value for Money
Addictiveness

9



THE MAGIC BUTTON OF BETA-PLUS DISK INTERFACE FOR THE SPECTRUM

The latest **BETA-PLUS** Disk Interface has a unique feature - the **MAGIC BUTTON**.

It transfers tape based programs to disk system with speed, simply by one touch of the

MAGIC BUTTON. Other new features include:

- Auto Check on Disk Drive
- Auto Boot
- Random Access File Handling
- Sequential File Handling
- Reset Button

Cut out this coupon and send with cheque or Postal Order to the address above
PLEASE SEND ME:

Beta-Plus Disk Interface	£109.25
Beta-Plus & 5 1/4" Single disk drive (40 track double sided)	£199.00
Beta-Plus & 3 1/2" Single disk drive (80 track double sided)	£229.00
Beta-Plus & 3 1/2" Twin disk drive (80 track double sided)	£329.00
Total	

*All prices include VAT and apply to UK only

**SPECIAL
PACKAGE
From
£199**

**AT
A
MAGIC
PRICE**

Single Drive	Drive and Beta-Plus
5 1/4" disk drive (400K) 40 track double sided	£199
3 1/2" disk drive (800K) 80 track double sided	£229
Twin Drive	
3 1/2" disk drive (1.6Mb) 80 track double sided	£329



Technology Research Limited
Unit 18, Central Trading Estate, Staines,
Middlesex TW18 4XE Tel: 0784 63547
Telex: 896691 TLXIR G

YS BUBBLE COMPO



**C
H
O
P
F
U
E
P
Y!**

! ! !

D'you fancy yourself as a real ah so? Well here's your chance to win a Kung Fu suit or one of 30 copies of Durell's games — then you'll be Kung Fu fighting!

Ah so! What's this? Another hiiii yaaaagh, chop suey, Confucius he say, velly velly amazing competition for *Your Sinclair* readers to enter. Yes, in conjunction with Durell Software we're offering three genuine Kung Fu suits for the lucky winners. And if you're not into Kung Fu you can always use them as pyjamas!

Stop ninjing you at the back, even if you're not a winner you've got the chance to win a Durell T-shirt and a copy of one of its games — that's right, any one of its games. Happy now?

The master of Kung Fu, Bruce Lee has been known to utter words other than Ho Lee Fook! What do you think he's saying in the picture above? Okay grasshoppers, jump to it. Fill in the speech bubble and send the whole caboodle to Kung Fu Fighting Compo, *Your Sinclair*, 14 Rathbone Place, London W1P 1DE.

Cutting remark: If you don't want to spoil your issue don't karate chop this page use a photocopy instead.

RULES OF THE MASTER

Employees of Sportscene Specialist Press and Durell are not allowed to enter this competition and neither is Lee Van Cleef, The Master.

Entries must reach us by March 31st 1986 — Year Of The Gerbil (no not Kevin the gerbil).

The Editor's decision is final and no amount of arguing will change his mind. (Unless of course you're a Black Belt! Ed)

SPECIAL FRIED COMPO

Name

Address

Postcode

If I'm one of the lucky runners-up I'd like the following game:

- Turbo Esprit
- Saboteur
- Critical Mass
- Combat Lynx
- Harrier Attack & Scuba Dive (Two games)

Please tick the appropriate box



Show us your Willy!

"I s'pose there's not much sex in Jet Set Willy. Maria's a bit on the stocky side and as for Esmerelda, she zaps you when you touch her."

Matthew Smith isn't the tidiest of programmers. Take the time he went to a posh restaurant in the Sears Building in New York. No corduroys, no cut-offs, no sweat-shirts, no sandals — that was the house rules. Bit of a shame really 'cos that just about describes Matthew's wardrobe! Yep, he's a right scruffbag on the outside, but on the inside — well, that's another matter. Beneath the crumpled clothes and the hippy hair is a razor sharp wit and a phenomenal programming talent. Well, what d'you expect from the man who created every (well, nearly every) Speccy owner's favourite comic character — that's right, the manic jetsetter himself, Miner Willy.

What are you working on at the moment?

A Spectrum. (Big grin!)

Let's rephrase that. Is it true that you're working on Willy Meets The Taxman?

No comment. (Even bigger grin!) Oh, okay yes. I'm designing it and doing the graphics and there's a team on the programming. This time Willy's going to be taller than before — he's grown up since JSW.

Will it be another platforms and ladders job like Manic Miner and JSW?

There are things that could be described as platforms but they'll be hidden. And the baddies, about fifty of em, won't be the stupid bouncing up and down type. They'll be intelligent — well, all except for the stupid ones that is!

Is this the end of Willy as we know him?

Yep. He won't even be brought back by public demand. The platform game's finished — JSW was the best ever. There's no new programming ideas in this game — well, it's not really anything to do with me. They won't even program the game as I've designed it — must be 'cos I can't design properly! The only way to get results is to program myself.

So, what are you working on at the moment?

No comment. (There's that grin again!) Well, I am working on a project. It's not just a game — more a way of life...

state of the art... fast loader... interactive... it's a mental challenge controlled by the computer and... phewee... Everything but the game's called *Limbo* — in fact, everything's in *Limbo*. And when you stop playing, you go into *Limbo* too! It's also an expandable game so don't think you'll get away with just buying the one tape. And it'll take advantage of different Spectrum memory sizes. It'll work on a normal Spectrum but it'll use the extra memory of a 128K if you've got one.

Have you got one?

Yeah... er, no! Sorry Sinclair! I saw one on my holidays in Italy... er, Spain.

What's your favourite new game?
The only decent game recently is *Fairlight*.

Do you mind people taking the mickey out of JSW?

No, I take the piss myself. That's what he's there for — he's a bit like Charlie Chaplin.

Isn't JSW a bit like a waking nightmare?

A woken-up too early nightmare! Most of the game was planned under the influence of alcohol and written under the influence of other noxious substances.

D'you think there's anything deeply psychologically disturbing about your games. All those Willies and toilets?

No. But you'd better ask my analyst. I s'pose there's not much sex in JSW. Maria's a bit on the stocky side and as for Esmerelda, she just zaps you when you go to touch her. Originally you were going to have to take her to bed — and then she'd kill you. But I dropped that for deep psychological reasons. Hmmm.

D'you still live at home?

(An eavesdropper: I thought everyone lived at home.) Wherever I lay my hat, that's my home!

Have you got any fluff in your navel?
No... oh, hang on, yes there is some.

What colour is it?

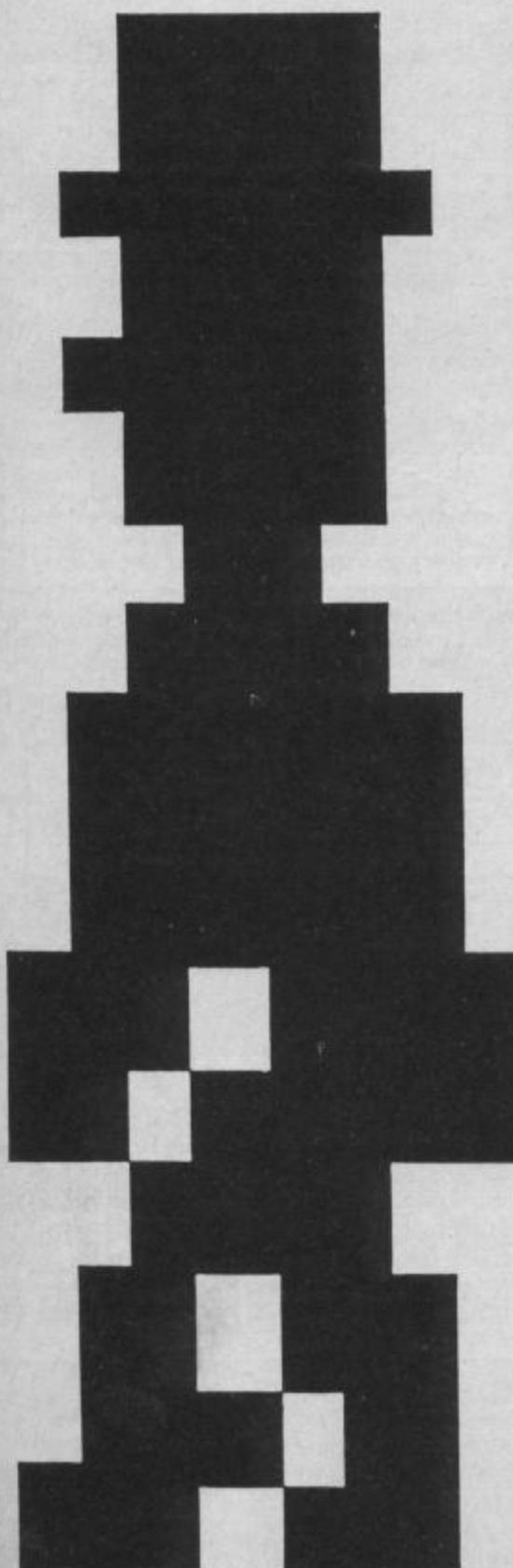
Purple.

How old are you now?

Nineteen. No longer the boy wonder, eh? Not over the hill yet though!

Are you a trainspotter?

Not since I lost my paintbrush.



ART ATTACK

All artists should be hung — and Peter Shaw is no exception! His pictures may not make it to the Tate just yet but with the help of Rainbird's Art Studio he reckons he's on his way.

Now I know what you're going to say 'cos I said it myself. What? Another art package? Well, it's gonna have to come up with something a bit special if it's going to drag me away from *Melbourne Draw/PaintPlus/The Artist** (*delete as applicable). Well, prepare for a surprise.

Art Studio, the new package written by OCP but marketed under BT's Rainbird label, has more than a few features to recommend it. The first thing

you'll notice is the 'pull-down menu system' — and it's not just a gimmick but the basis of all that makes this program so user-friendly. Yes, I know that word's overworked but you'll find you hardly need to refer to the manual.

So, how does it work? Well, it prints a menu bar across the top of the screen from which you can choose a comprehensive second menu that gives you access to the feature you want. Just move the cursor to your chosen option and press fire. If a feature has even more on offer, then you'll be presented

with a third and sometimes a fourth menu on-screen. If you choose to use a joystick or even a mouse, you never need touch the keyboard at all! But all this is still not the be-all and end-all of an excellent art package. To challenge the current competition a new package must offer a wider range of features than the rest — and be able to perform them quickly. *Art Studio* comes out shining on both counts. In fact, it

works on the Spectrum with all the charm of a program like *MacPaint* on the Macintosh. Not altogether surprising as that program was obviously the main source of inspiration for *Art Studio* — the same pull-down menus, many of the same features and all of the flexibility.

Plus both programs can be operated with a mouse. More than likely you'll have come across the mouse before — it's similar to an upturned trackball that you roll around the table top to move the on-screen cursor. The combination of *Art Studio* and a mouse will make it nigh on untoouchable — and even without, the competition's gonna have to go a long way to beat such an excellent package.

FAX BOX

Name.....
Publisher.....
Price.....

Art Studio
Rainbird
£14.95

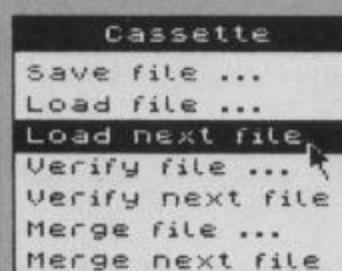


Magnify
Mag. x2
Mag. x4
Mag. x8
Grid ✓

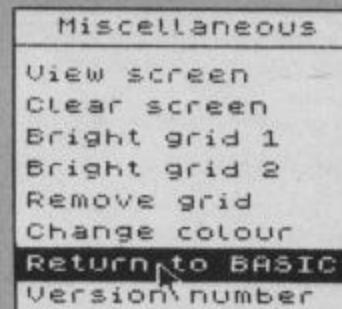
The magnify feature is the best yet — it beats the Macintosh! Just choose the level of magnification you want and you'll be given a magnifying glass icon that you can position over the area you want to see. Natty, eh?

In x4 magnification you can change specific pixels without losing sight of the overall piccy. To scan across the screen, use the arrows on the x and y axes.

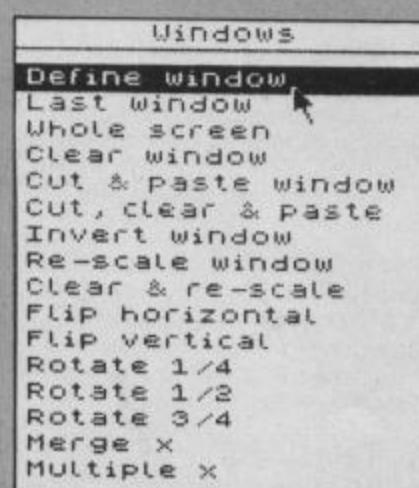
On the highest level of magnification (x8), you're presented with an on-screen grid option — it's well worth sticking with it if you don't want to get lost when you're getting down to detail.



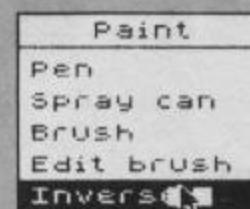
The file option will automatically give itself a header corresponding to the system you've chosen — I was using cassette but microdrive and disk options are also available. The most interesting item on the menu is for merging your screen creations with each other.



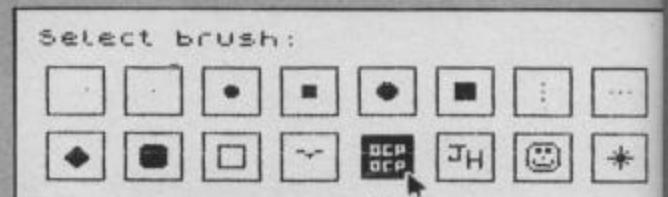
Here's a ragbag of goodies that don't sit happily anywhere else. You can see the whole screen using View Screen, for instance, and the Bright Grids will superimpose a grid so you can set the colour just right. You'll find the rest of the menu options are fairly self-explanatory.



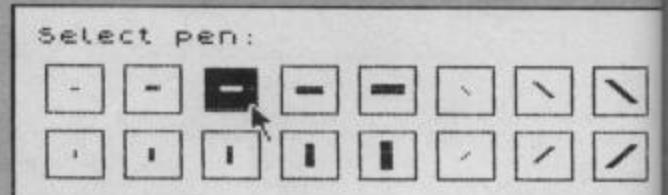
Look at the window that makes this package different. Yes, windows allow you to cut and paste your piccy until you're completely happy with it. *Art Studio* also allows you to rotate, flip and invert your windows. Well, flip me!



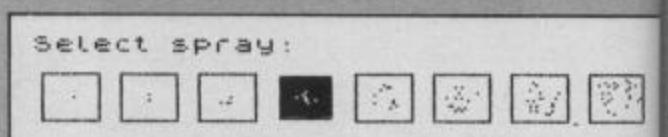
How's this for paint power? In Edit Brush mode you can define any shape you like, yes anything, and then use that to paint the drawing area. The Pen option even allows you to draw with a pen of differing thicknesses.



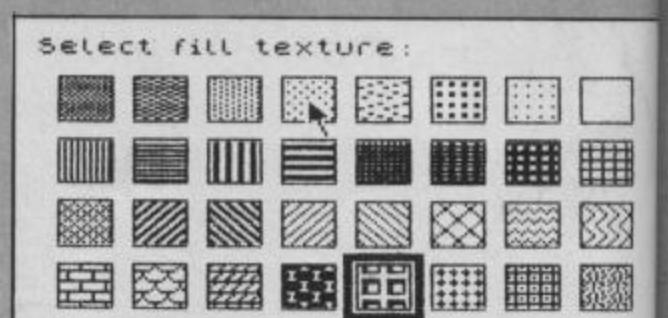
The brush is perhaps the most flexible way of covering the screen. And apart from the sixteen you see here, you can redefine any of them to your liking.



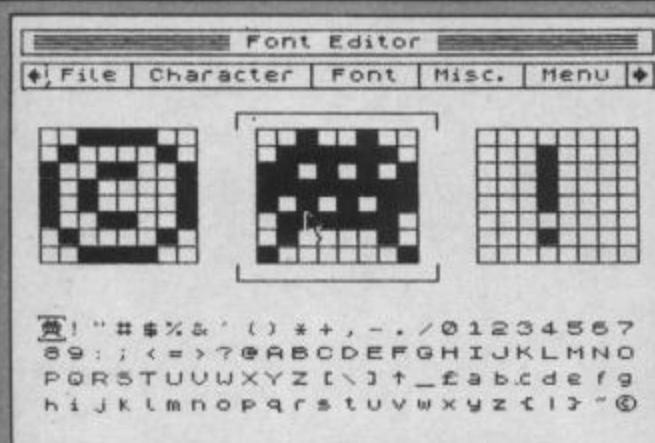
Here's the menu that greets you when you're in pen mode. The sixteen preset nibs produce some very interesting patterns and they're just great for writing italics.



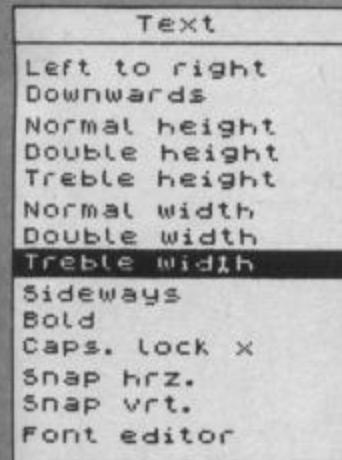
Now, the spray can selection may seem limited, what with only eight choices compared to the other menus, but remember they act as a random spray. So, each of these choices only acts as a guide to how large an area the spray will cover.



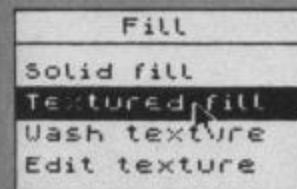
This is the choice of present designs that you're presented with in Textured Fill mode. There are thirty-six of them in all but remember you can always define your own.



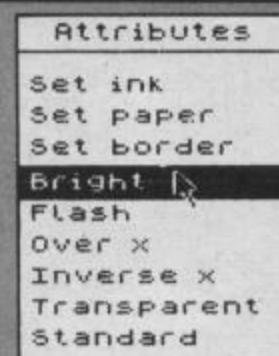
The Font Editor is a package in its own right. It's extremely easy to use — well, I've yet to find one to match it.



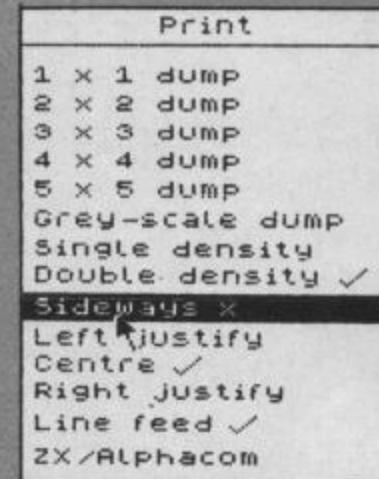
The Text option isn't quite as clear cut as you'd think. You don't have to stick to boring ol' left to right script — how about trying the Chinese way of up'n'down. You can also have a whirn on anything up to treble height and width and even redefine the character set. The definition isn't too hot once you're into really big characters — but there I go wanting miracles again!



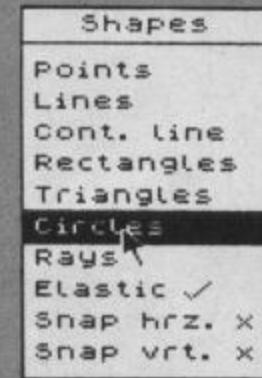
The Fill option is very powerful. The textured fill lets you choose from a wide range of preset choices but if you prefer you can always define your own with the Edit Texture feature. Now Wash Texture is very clever. With it you can texture the last thing you drew — text, single lines or circles it doesn't matter what.



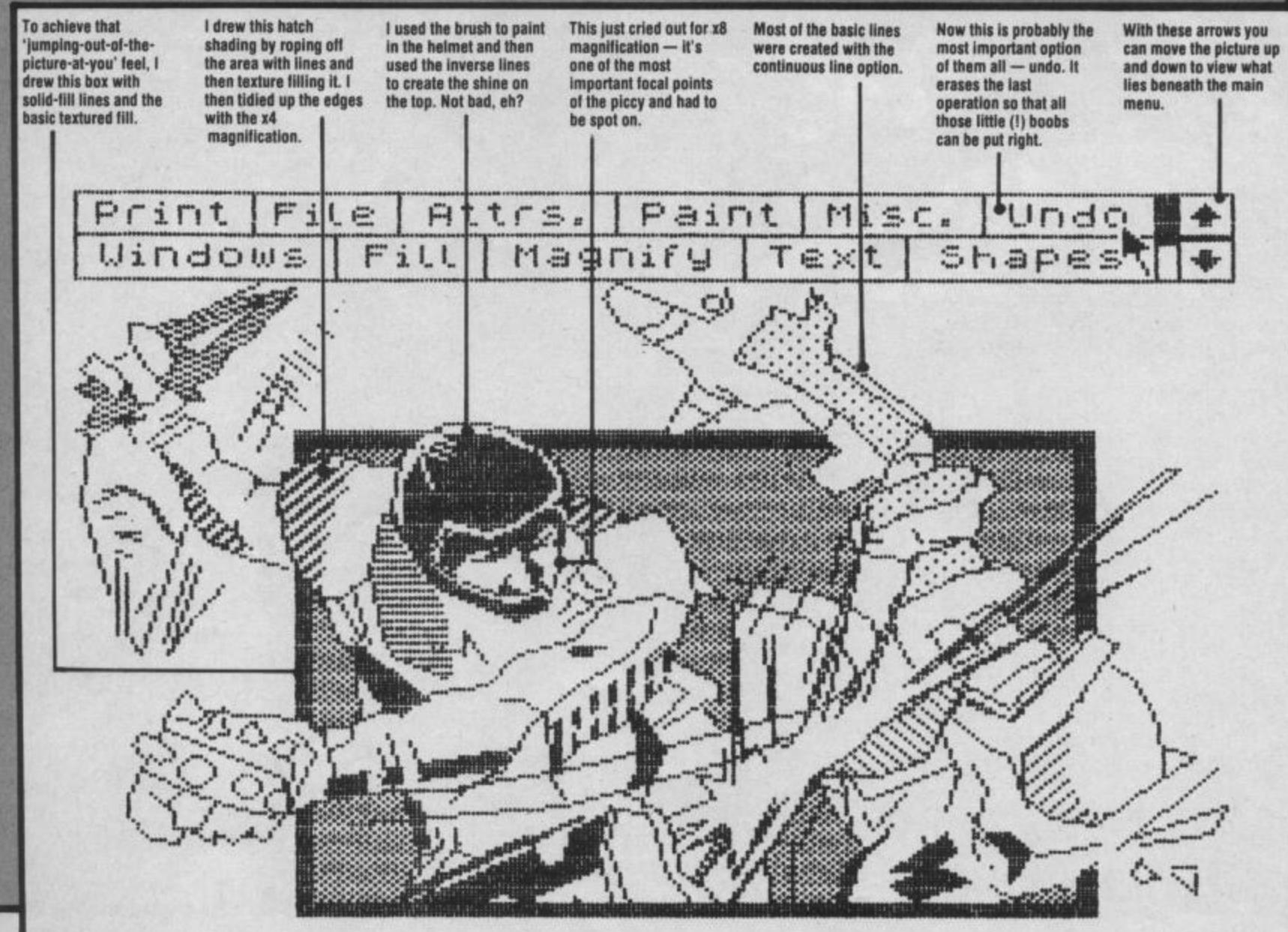
Art Studio's attribute handling's very good though you may find it a touch confusing at first. Say you want to paint an area in red — you'll need to choose Set Ink from this menu, then the red palette from the menu behind this, next into the brush menu where you can choose an empty brush to paint with. Not strictly Mac structure but it knocks spots off other Spectrum graphics packages.



Just take a look at the mega-print features on offer with Art Studio — grey-scale dumps and sizes never seen before on the Speccy. The printer option wasn't implemented on the version we saw so I can't judge how good it is — sounds promising though...



You'll find you keep coming back to the Shapes option. It hands you the power to draw lines, circles, triangles and rectangles. The Elastic option draws lines using the rubber band method to allow easy position. Snap horizontal and vertical puts your lines within the limits of the nearest character cell. That way it gets round any attribute problems when you come to colouring.



To achieve that 'jumping-out-of-the-picture-at-you' feel, I drew this box with solid-fill lines and the basic textured fill.

I drew this hatch shading by roping off the area with lines and then texture filling it. I then tidied up the edges with the x4 magnification.

I used the brush to paint in the helmet and then used the inverse lines to create the shine on the top. Not bad, eh?

This just cried out for x8 magnification — it's one of the most important focal points of the piccy and had to be spot on.

Most of the basic lines were created with the continuous line option.

Now this is probably the most important option of them all — undo. It erases the last operation so that all those little (!) boobs can be put right.

With these arrows you can move the picture up and down to view what lies beneath the main menu.



FRIDAY



YOUR
SINCLAIR

PROGRAM POWER



8 PAGE PULL-OUT

OPPORTUNITY KNOCKS!

That's all folks! Opportunity is now on its last knockings. Yep, this is the last chance for your code to be up there with the best six Speccy programs under 5K. So, can Hot Shot shoot to the top of the programmer's poll? Or will it be one of the five previous programs that you'll find in back issues of YS? It's all down to you as you'll be the ones doing the voting. Next month, you'll find a run down of all the programs and a chance to buy them all on one Digi'Tape. Then you'll be asked to cast your vote. Bit more sophisticated than the old clapometer, eh what?

HOT SHOT

By M Wallis

How can a game with so few bytes (just 3854) have so many features? Ask M Wallis. His Centipede-style game has eight directional movements — it's leggier than your average octopus — Kempston compatibility, optional extra lives, hold/restart and automatic fire. In all it scores more points than Torville and Dean!

Oh, by the way, don't think you've slipped up if your Speccy appears to crash after the main selection screen — just take another look at that copyright message. Once you've got that sussed, you'll just need to know that the control keys are Q for up, Z for down, I for left and P for — well, you can work that one out yourselves.

To get the game in, enter the Basic loader and save it, followed by the machine code.

The Basic Loader

Basically, this is the Loader. It's just there to load in the code.

```
0>REM ~~~~~
1 REM ^ HOT-SHOT ^
2 REM ^ BY M.WALLIS ^
3 REM ^ 1985 ^
4 REM ~~~~~
1 CLEAR 27999: BORDER 1: PAPE
R 1: INK 5: CLS : PLOT 10,158: D
RAW 138,0: DRAW 0,-20: DRAW -138
,0: DRAW 0,20
2 PRINT AT 3,2;"H O T - S H O
T"
3 PRINT AT 9,9;"I S S T I L
L"
4 PRINT AT 15,15;"L O A D I N
G"
```

The Hex Loader

Hexperts will already have one of these on tape but for the rest of you, enter it and use it to type in the code.

```
20 PLOT 66,110: DRAW 122,0: D
RAW 0,-20: DRAW -122,0: DRAW 0,2
0
21 PLOT 110,60: DRAW 118,0: D
RAW 0,-20: DRAW -118,0: DRAW 0,2
0
30 PRINT INK 1;AT 0,0;
40 LOAD ""CODE
50 LET t=USR 28000
100 SAVE "HOT-SHOT" LINE 1
```

The Hex Data

Enter the code into the Hex loader eight bytes at a time. The start address is 28000 and the length 3854. Okay?

```
28000 21 5C 78 25 22 36 5C 3E =524
28008 00 3E 00 32 01 5B CD 4A =483
28016 75 3E 1F DB 1F FE 00 20 =746
28024 41 3E 1F 32 80 74 32 A0 =662
28032 74 32 BE 74 32 DE 74 32 =910
28040 7E 74 32 9E 74 32 BC 74 =920
28048 32 DC 74 21 00 00 22 83 =584
28056 74 22 A3 74 22 C1 74 22 =806
28064 E1 74 21 CB 5F 22 81 74 =951
28072 21 CB 57 22 A1 74 21 CB =870
28080 47 22 BF 74 21 CB 4F 22 =761
28088 DF 74 3E C9 32 83 75 3E =962
28096 02 CD 01 16 3E 00 CD 9B =652
28104 22 3E 00 32 8D 5C 06 18 =409
28112 CD 44 0E 21 5D 7B 22 7B =693
28120 5C 01 3C 00 21 85 73 11 =451
28128 49 73 ED B0 3E 0A 32 02 =725
28136 5B 3E 16 32 03 5B 21 00 =352
28144 00 22 00 5B 3E 07 32 0E =258
28152 5B 3E 04 32 0D 5B CD 6F =627
28160 6E 3E 00 CD C3 73 CD 03 =895
28168 71 3A 0D 5B 47 C5 CD 42 =814
28176 71 CD FF 73 CD 1C 70 CD =1238
28184 B4 6F CD D2 6E CD 42 71 =1152
28192 3A 0D 5B C1 B8 28 0C FE =845
28200 00 CA B0 7B 3E 00 CD 03 =771
28208 73 18 19 11 05 00 21 D0 =427
28216 07 CD B5 03 11 05 00 21 =451
28224 C8 00 CD B5 03 CD CA 72 =1110
28232 FE 01 20 BD 01 3C 00 21 =570
28240 85 73 11 49 73 ED B0 3A =924
28248 0E 5B 3C FE 14 28 03 32 =532
28256 0E 5B 3A 0D 5B 3C 32 0D =390
28264 5B 1B 93 0D 5B 1B 94 E5 =767
28272 C5 D5 F5 CD 6B 0D CD CD =1390
28280 1F CD 7F 72 3E 00 32 6B =696
28288 5C 3E 4F 32 8F 5C 21 A0 =711
28296 6E 7E FE FF 28 04 D7 23 =1039
28304 18 F7 97 32 8F 5C 3E 02 =771
28312 32 6B 5C F1 D1 C1 E1 C9 =1318
28320 16 16 00 53 43 4F 52 45 =424
28328 06 4C 49 56 45 53 06 7F =526
28336 20 20 31 20 39 20 38 20 =322
28344 35 20 20 42 20 59 20 20 =368
28352 4D 20 2E 20 57 20 41 20 =403
28360 4C 20 4C 20 49 20 53 FF =659
28368 00 00 E5 C5 D5 F5 21 07 =924
28376 5B 7E 23 5E 23 56 4F FE =804
28384 00 20 36 3A 78 5C E6 A8 =754
28392 FE 00 28 05 F1 D1 C1 E1 =1167
28400 C9 36 1E 2B 3A 78 5C E6 =828
28408 03 C6 12 77 2B 36 FF ED =927
28416 5B 08 5B 4E D5 CD 2A 75 =845
28424 FE 06 CC 03 71 14 CD 2A =847
28432 75 15 FE 06 CC 03 71 D1 =927
28440 00 3E 10 D7 97 D7 3E 16 =743
28448 D7 7B D7 7A D7 3E 20 D7 =1199
28456 3E 20 D7 15 7B 81 5F FE =931
28464 15 20 02 0E FF FE 11 20 =627
28472 02 0E 01 D5 C5 CD 2A 75 =791
28480 FE 06 CC 03 71 14 CD 2A =847
28488 75 15 FE 06 CC 03 71 C1 =911
28496 D1 7A FE FF 20 0A 3E 00 =944
28504 32 07 5B F1 D1 C1 E1 C9 =1217
28512 ED 53 0B 5B 79 32 07 5B =688
28520 3E 10 D7 3E 05 D7 3E 16 =659
28528 D7 7B D7 7A D7 3E 97 D7 =1318
28536 3E 98 D7 F1 D1 C1 E1 C9 =1498
28544 D1 C1 E1 C9 E5 C5 D5 F5 =1712
28552 3A 0A 5B FE 00 20 24 3A =539
28560 78 5C FE FD 28 05 F1 D1 =1214
28568 C1 E1 C9 21 0A 5B 77 3A =930
28576 79 5C 47 3A 78 5C C6 AD =925
28584 10 FC E6 0F 3C 3C 23 77 =787
28592 23 36 00 ED 5B 0B 5B 3E =581
28600 10 D7 3E 00 D7 3E 16 D7 =807
28608 7B D7 7A D7 3E 20 D7 3E =1046
28616 20 D7 14 14 CD 2A 75 FE =905
28624 00 20 28 15 3E 1D BA 30 =418
28632 09 97 32 0A 5B F1 D1 C1 =954
28640 E1 C9 7A 32 0C 5B 3E 10 =779
28648 D7 3E 05 D7 3E 16 D7 7B =919
28656 D7 7A D7 3E 95 D7 3E 96 =1190
28664 D7 18 E2 FE 03 20 06 ED =997
28672 5B 0B 5B 18 CF 3E 10 D7 =717
28680 3E 04 D7 3E 16 D7 7B D7 =918
28688 7A D7 3E 91 D7 14 18 EB =1038
28696 D1 C1 E1 C9 F5 E5 D5 C5 =1712
28704 3A 0E 5B 47 3E 01 CD 35 =555
28712 70 3C B8 20 F9 C1 D1 E1 =1264
28720 F1 C9 00 00 E5 D5 C5 =1081
28728 F5 21 46 73 11 03 00 47 =554
28736 19 10 FD 22 36 5B 5E 23 =602
28744 56 23 4E 3E 02 B9 20 05 =485
28752 F1 C1 D1 E1 C9 3E 10 D7 =1362
28760 97 D7 3E 16 D7 7B D7 7A =1125
28768 D7 3E 20 D7 3E 03 B9 20 =806
28776 04 1C C3 BD 70 D5 7A B1 =992
28784 57 CD 2A 75 D1 FE 00 20 =946
28792 0E 79 82 FE 20 28 08 FE =853
28800 FF 28 04 57 C3 BD 70 7A =1004
28808 B1 FE 20 28 04 FE FF 20 =1000
28816 08 79 ED 44 4F 1C C3 BD =925
28824 70 D5 79 82 57 CD 2A 75 =1027
28832 D1 FE 04 20 06 0E 03 1C =550
28840 C3 BD 70 FE 06 20 06 79 =915
28848 82 57 C3 BD 70 79 ED 44 =1139
28856 4F 1C C3 C6 70 CD 2A 75 =976
28864 FE 04 20 02 0E 03 3E 16 =393
28872 BB 20 06 1E 11 16 1F 0E =339
28880 FF 3E 15 BB 20 07 3E 03 =629
28888 B9 20 02 0E 01 CD 2A 75 =598
28896 FE 06 CC 03 71 2A 36 5B =767
28904 73 23 72 23 71 3E 10 D7 =705
28912 3E 03 D7 3E 16 D7 7B D7 =917
28920 7A D7 3E 90 D7 F1 C1 D1 =1401
28928 E1 C9 00 E5 D5 C5 F5 3A =1368
28936 0D 5B 3D 32 0D 5B 47 3E =452
28944 01 32 6B 5C 3E 16 D7 3E =611
28952 16 D7 3E 16 D7 3E 4F 32 =727
28960 8F 5C 3E 00 BB 28 06 3E =589
28968 94 D7 05 18 F5 3E 20 D7 =946
28976 3E 02 32 6B 5C 3E 00 32 =425
28984 BF 5C CD ED 72 F1 C1 D1 =1434
28992 E1 C9 E5 C5 D5 F5 CD 56 =1601
29000 71 ED 5B 02 5B CD FA 74 =1105
29008 F1 D1 C1 E1 C9 00 E5 D5 =1511
29016 C5 F5 3A 04 5B FE 00 20 =881
29024 03 C3 64 71 3A 04 5B FE =818
29032 00 20 11 3E 01 21 04 5B =240
29040 77 23 ED 5B 02 5B 73 23 =725
29048 72 2B 00 00 3E 10 D7 3E =512
29056 00 D7 3E 16 D7 2A 05 5B =652
29064 7D D7 7C D7 3E 20 D7 2D =1033
29072 5D 54 CD 2A 75 FE 00 20 =827
29080 32 22 05 5B 3E 10 D7 3E =535
29088 07 D7 3E 16 D7 7D 7C =985
29096 D7 3E 93 D7 3E 00 BD 20 =922
29104 15 3E 10 D7 3E 00 D7 3E =653
29112 16 D7 7D D7 7C D7 3E 20 =1010
29120 D7 3E 00 32 04 5B F1 C1 =856
29128 D1 E1 C9 F5 3E 01 CD 03 =1151
29136 73 97 32 04 5B 2A 05 5B =549
29144 2D F1 FE 04 28 04 FE 02 =844
29152 20 19 3E 10 D7 97 D7 3E =778
29160 16 D7 7D D7 7C D7 3E 20 =1010
29168 D7 3E 01 CD C3 73 F1 C1 =1227
29176 D1 E1 C9 FE 05 20 22 2A =1002
29184 0B 5B 3E 10 D7 97 32 0A =606
29192 5B D7 3E 16 D7 7D 7C =1069
```

29200 D7 3E 20 D7 3E 20 D7 3E =895	29648 F5 16 00 5F 19 44 4D 22 =566	30048 76 CD 5E 76 CD A6 75 CD =1228
29208 0A CD C3 73 F1 C1 D1 E1 =1393	29656 00 5B 3E 01 32 6B 5C 3E =465	30056 02 76 AF DB FE E6 1F FE =1283
29216 C9 FE 01 20 0D 2A 08 5B =642	29664 16 D7 3E 16 D7 3E 07 D7 =820	30064 1F 28 F1 3E 0F 32 6A 76 =663
29224 3E 10 D7 3E 00 32 07 5B =503	29672 44 4D CD 1B 1A 3E 30 D7 =728	30072 CD D3 76 CD 5E 76 06 64 =1057
29232 18 D7 21 49 73 06 14 7E =612	29680 3E 02 32 6B 5C 3E 00 32 =425	30080 76 10 FD 00 3E 07 CD 9B =816
29240 23 BB 20 04 7E BA 28 09 =619	29688 8F 5C F1 C1 D1 E1 C9 E5 =1533	30088 22 3E 00 32 8D 5C 06 18 =409
29248 23 23 10 F3 F1 C1 D1 E1 =1197	29696 C5 D5 F5 01 FE BF ED 7B =1458	30096 CD 44 0E 06 46 76 10 FD =750
29256 C9 23 7E FE 02 28 F2 36 =954	29704 E6 10 FE 10 28 6B 21 00 =696	30104 3E 38 32 8D 5C 06 18 CD =636
29264 02 3E 05 CD C3 73 3E 10 =662	29712 5A 11 6D 7C 01 E0 00 ED =802	30112 44 0E CD ED 77 C9 06 04 =854
29272 D7 3E 02 D7 3E 16 D7 7B =916	29720 B0 21 00 5A 36 00 11 01 =371	30120 76 10 FD 3A 00 5B 47 CD =812
29280 D7 7A D7 3E 91 D7 18 DC =1218	29728 5A 01 DF 00 ED B0 3A 00 =785	30128 F6 75 78 32 00 5B 21 00 =657
29288 3E 05 CD C3 73 3E 10 D7 =875	29736 5B 32 15 7B 3A 01 5B 32 =482	30136 58 0E 20 70 23 CD F6 75 =849
29296 3E 02 D7 3E 16 D7 7B D7 =916	29744 16 78 3E 00 32 00 5B CD =550	30144 0D C2 BB 75 0E 0D 2B 11 =598
29304 7A D7 3E 91 D7 18 E. E5 =1237	29752 34 78 CD 02 76 3E FD DB =1031	30152 20 00 19 70 CD F6 75 0D =750
29312 D5 C5 F5 2A 78 5C 7D E6 =1264	29760 FE E6 02 FE 02 28 02 18 =808	30160 C2 CA 75 19 0E 20 70 2B =739
29320 1F 57 7C E6 0F 5F 06 00 =588	29768 19 3E 7F DB FE E6 04 FE =1175	30168 CD F6 75 0D C2 D6 75 37 =1161
29328 3E 10 D7 3E 02 D7 3E 16 =656	29776 04 28 E7 3E FB DB FE E6 =1291	30176 3F ED 52 0E 0D 23 70 11 =573
29336 D7 7B D7 7A D7 3E 91 D7 =1312	29784 02 FE 02 28 DD CD A6 7B =1013	30184 20 00 37 3F ED 52 CD F6 =920
29344 7B C6 07 5F 7A C6 03 57 =833	29792 18 D8 21 6D 7C 11 00 5A =613	30192 75 0D C2 E6 75 C9 78 C6 =1190
29352 B3 57 7B 82 5F 3E 1F BA =845	29800 01 E0 00 ED B0 3A 15 78 =837	30200 02 FE 40 C2 00 76 3E 10 =710
29360 30 06 7A D6 20 57 18 F5 =778	29808 32 00 5B 3A 16 78 32 01 =392	30208 47 C9 06 04 76 10 FD 3A =727
29368 3E 12 BB 30 06 7B D6 11 =675	29816 5B ED 5B 02 5B 3E FB DB =1044	30216 00 5B 47 CD 52 76 78 32 =737
29376 5F 18 F5 10 CB F1 C1 D1 =1226	29824 FE E6 01 FE 01 28 12 1D =827	30224 00 5B 21 00 5A 0E 20 70 =372
29384 E1 C9 E5 D5 C5 00 21 4B =1173	29832 7B FE 02 28 0C CD 2A 75 =795	30232 23 CD 52 76 0D C2 17 76 =788
29392 73 3A 0E 5B 3D 47 7E FE =790	29840 FE 00 20 05 CD FA 74 18 =886	30240 0E 05 2B 11 20 00 19 70 =248
29400 02 20 0C 23 23 23 10 F6 =413	29848 1E ED 5B 02 5B 3E FE DB =986	30248 CD F6 75 0D C2 26 76 19 =956
29408 3E 01 00 C1 D1 E1 C9 97 =1042	29856 FE E6 02 FE 02 28 10 1C =826	30256 0E 20 70 2B CD 52 76 0D =619
29416 18 FB 00 00 00 2A 02 5B =407	29864 7B FE 17 28 0A CD 2A 75 =814	30264 C2 32 76 37 3F ED 52 0E =813
29424 3E 10 D7 3E 00 D7 3E 16 =654	29872 FE 00 20 03 CD FA 74 ED =1097	30272 05 23 70 11 20 00 37 3F =319
29432 D7 7D D7 7C D7 3E 20 D7 =1203	29880 5B 02 5B 3E DF DB FE E6 =1172	30280 ED 52 CD 52 76 0D C2 42 =997
29440 C9 00 00 E5 D5 C5 F5 FE =1339	29888 01 FE 01 28 12 14 7A FE =710	30288 76 C9 78 C6 02 FE 40 C2 =1151
29448 01 20 16 21 01 00 06 32 =145	29896 20 28 0C CD 2A 75 FE 00 =702	30296 5C 76 3E 10 47 C9 0E 20 =606
29456 11 01 00 E5 C5 CD B5 03 =833	29904 20 05 CD FA 74 18 1E ED =899	30304 21 00 58 06 18 11 20 00 =200
29464 C1 E1 23 23 23 10 F0 18 =803	29912 5B 02 5B 3E DF DB FE E6 =1172	30312 E5 36 12 19 10 FB C5 21 =823
29472 21 21 00 00 06 14 C5 06 =295	29920 04 FE 04 28 10 15 7A FE =715	30320 D0 00 11 20 00 CD B5 03 =646
29480 00 C5 7E 06 07 C5 01 FE =788	29928 FF 28 0A CD 2A 75 FE 00 =923	30328 C1 E1 E5 06 18 11 20 00 =726
29488 00 F5 EE 10 ED 79 F1 17 =1121	29936 20 03 CD FA 74 F1 D1 C1 =1249	30336 36 0F 19 10 FB E1 23 0D =634
29496 C1 10 F2 23 C1 10 EA C1 =1122	29944 E1 C9 E5 D5 C5 F5 3E 16 =1394	30344 20 D9 C9 3E 02 CD 01 16 =742
29504 10 E4 F1 C1 D1 E1 C9 00 =1313	29952 D7 2A 02 5B 7D D7 7C D7 =1029	30352 11 DD 76 01 16 00 CD 3C =644
29512 00 24 2B FF 11 19 FF 01 =632	29960 3E 10 D7 3E 00 D7 3E 20 =664	30360 20 11 81 74 11 F5 76 01 =675
29520 14 02 12 1E 01 11 1C FF =371	29968 D7 ED 53 02 5B 3E 10 D7 =921	30368 0B 00 CD 3C 20 11 02 77 =446
29528 11 1D FF 11 1E FF 11 1F =651	29976 3E 06 D7 3E 16 D7 7B D7 =920	30376 01 20 00 CD 3C 20 11 23 =382
29536 FF 15 1F 01 00 0A 01 00 =319	29984 7A D7 3E 94 D7 F1 C1 D1 =1405	30384 77 01 20 00 CD 3C 20 11 =466
29544 09 01 00 08 01 00 07 01 =27	29992 E1 C9 E5 D5 C5 97 21 00 =1249	30392 44 77 01 20 00 CD 3C 20 =517
29552 00 06 01 00 05 01 00 04 =17	30000 5B BB 28 09 D5 43 11 20 =653	30400 11 65 77 01 21 00 CD 3C =536
29560 01 00 03 01 00 02 01 00 =8	30008 00 19 10 FD D1 5A 16 00 =615	30408 20 11 AC 77 01 20 00 CD =578
29568 01 01 00 00 01 00 13 01 =23	30016 19 7E C1 D1 E1 C9 00 3B =1038	30416 3C 20 C9 11 CD 77 01 20 =667
29576 00 12 01 00 11 01 00 10 =53	30024 00 00 3E 02 CD 01 16 3E =354	30424 00 CD 3C 20 C9 16 02 00 =522
29584 01 00 0F 01 00 0E 01 00 =32	30032 01 CD 9B 22 3E 09 32 8D =657	30432 20 20 20 20 20 20 20 =256
29592 0D 01 00 0C 01 00 0B 01 =39	30040 5C 06 18 CD 44 0E CD 8B =753	30440 20 20 20 4B 4F 54 2D 53 =459
29600 00 0A 01 00 09 01 00 08 =29		30448 48 4F 54 20 20 16 04 00 =325
29608 01 00 07 01 00 06 01 00 =16		30456 20 20 20 20 4B 45 59 53 =444
29616 05 01 00 04 01 00 03 01 =15		30464 20 20 16 06 00 20 20 50 =236
29624 00 02 01 00 01 01 00 00 =5		30472 20 3D 20 52 49 47 48 54 =507
29632 01 00 00 E5 D5 C5 F5 3E =947		30480 20 20 49 20 3D 20 4C 45 =407
29640 4F 32 8F 5C 2A 00 5B F1 =738		30488 46 54 20 20 51 20 3D 20 =424



ALIEN

by Stewart Green

Eat your heart out, Buck Rogers — Stewart Green's self-styled megagame puts you up there with those other star war heroes — Flash Gordon, Luke Skywalker, Ronnie Reagan... Alien is an Arca-dian shoot'em up, it lets you arm a photon craft and exterminate squillions of aliens — and between remorseless waves you can slope off to capture a fuel pod to replenish your power packs. And then you're hot in pursuit of pulse after pulse of alien attackers. Go on, shoot 'em up!

The machine code is in two parts so entry is a bit out of the ordinary — follow the instructions carefully.

The Basic Loader

Type this in and save it with
SAVE "ALIEN" LINE 10

```

1 GO TO 100
10 BORDER 0: PAPER 0: INK 0: C
LEAR 29999:
12 PRINT INK 9; FLASH 1; AT 10,
10; "LOADING:"; INVERSE 1; "ALIENS"
": LOAD ""CODE : RANDOMIZE USR 3
0000
15 DIM A$(32): INK 7: FOR A=0
TO 7: PRINT AT A,0; OVER 1; A$: N
EXT A: PRINT BRIGHT 1; AT 12,10; "
by S.GREEN"; AT 14,6; "for YOUR SP
ECTRUM"; AT 16,10; 1.10.85"
20 FOR A=0 TO 10: BEEP .01,A:
NEXT A: BEEP .1,A: INK 0: LOAD "
"CODE
35 RANDOMIZE USR 35193: LET hs
=0
40 POKE 23606,145: POKE 23607,
250
50 REM define keys
55 BORDER 5: PAPER 5: INK 3: C
LS
60 PRINT INK 2; AT 6,4; "PLEASE"
; AT 7,4; "SELECT"
65 PRINT AT 2,0; "=====
=====
=====
=====
=====
=====
=====
=====
=====
=====
67 PRINT INK 1; AT 10,10; "1 - S
INCLAIR"; AT 12,10; "2 - KEYBOARD"
70 LET S$=" PRESS KEY '1' TO U
SE THE SINCLAIR TYPE INTERFACE -
--- OR KEY '2' TO USE THE KEYBOA
RD "
75 LET A=0: LET S$=S$+S$: LET
X=1
80 PRINT INK 2; AT 18,1; S$(X TO
X+29): LET X=X+1: IF X=LEN S$/2
THEN LET X=1
85 LET K$=INKEY$: IF K$>"2" OR
K$<"1" THEN BEEP .03,0: GO TO 7
9
90 POKE 23728,VAL K$
99 CLS
100 LET score=10*USR 32100: PAP
ER 0: INK 7: CLS
102 RANDOMIZE USR 30000: PRINT
INK 7; PAPER 0; AT 10,10; "SCORE="
: SCORE
105 FOR A=0 TO 20: BEEP .01,A:
BEEP .01,A+10: NEXT A
109 IF SCORE<HS THEN GO TO 116
110 GO SUB 200
115 BORDER 0: PAPER 0: INK 7: C
LS : RANDOMIZE USR 30000
116 FOR A=0 TO 20: BEEP .01,A:
BEEP .01,A+10: NEXT A
120 PRINT FLASH 1; AT 12,10; "HIG
H SCORE"; FLASH 1; AT 14,13; HS
130 LET I=0

```

```

131 INPUT "": PRINT #1; PRES
S 'K' TO CHANGE KEYS": POKE 2365
8,8
140 IF INKEY$="N" THEN INK 0: P
APER 1: FLASH 1: CLS : PAPER 7:
FLASH 0: PRINT AT 10,11; "CHICKEN
": FOR A=50 TO 0 STEP -1: PRINT
AT 12,13; A: BEEP .01,A: NEXT A:
PRINT USR 0
141 PRINT INK 1; AT 20,2; "DO YOU
WANT ANOTHER GO Y/N": LET I=I+1
-(7 AND I=8)
142 POKE 65186,29: RANDOMIZE US
R 65000
145 IF INKEY$="K" THEN GO TO 40
150 IF INKEY$<>"Y" THEN : GO TO
132
160 GO TO 100
195 PRINT INK 7; PAPER 0; AT 10,
10; "SCORE="; SCORE
200 INK 6: PAPER 1: BORDER 1
201 CLS : PRINT INK 7; PAPER 0;
AT 10,10; "SCORE="; SCORE
210 FOR L=0 TO 2: GO SUB 8000:
NEXT L
220 LET hs=score: CLS : LET n=2
0: FOR L=0 TO 20: PRINT INK (RND
*8); PAPER 8; AT 21,RND*14; "A NEW
HIGH SCORE.": BEEP .01,n: LET n
=n+5-(20 AND n=45): LET A=USR 35
82: NEXT 1
230 RETURN

```

The Hex Loader

Use this loader to enter both
sets of Hex data.

```

8000 RESTORE 8050: FOR I=1 TO 8:
READ T,N: BEEP T,N: NEXT I
8050 DATA .1,11,.1,11,0,8,16,.05
,.11,.05,16,.05,11,.05,16,1,20
8060 RETURN
9999 SAVE "ALIEN" LINE 10: SAVE
"SCREEN" CODE 30000,1899: FOR A=0
TO 100: NEXT A: SAVE "ALIEN" COD
E 32100,3990: BEEP 1,0: GO TO 35

```

The Hex Data I

This is the first set of Hex data,
named SCREEN. Enter it and
save it after the Basic loader
with SAVE "SCREEN" CODE
30000,1899.

```

30000 CD 56 75 3E 40 21 00 58 =655
30008 E5 D1 13 01 FF 00 77 ED =1069
30016 B0 F5 06 0A C5 60 11 0A =757
30024 00 CD B5 03 C1 10 F5 F1 =1084
30032 3C FE 48 20 E0 C9 11 00 =860
30040 40 DD 21 54 00 DD 09 7A =754
30048 FE 48 C8 DD 7E 00 A7 28 =1080
30056 0A FE FF 28 06 12 13 DD =823
30064 23 18 EC DD 46 01 12 13 =624
30072 10 FC DD 23 DD 23 18 DF =1027
30080 00 00 00 00 00 23 7F FF =417
30088 01 80 00 00 01 01 FF 01 F0 =627

```



```

30096 00 01 03 FF 01 FC 00 02 =514
30104 FF 03 F8 00 01 01 FF 01 =764
30112 80 03 FC 00 01 01 FF 01 =641
30120 F0 00 04 03 FF 02 F8 00 =752
30128 01 07 FF 01 FC 00 02 1F =549
30136 FE 00 01 03 FF 01 FC 00 =766
30144 03 07 FF 01 F0 0F FE 07 =782
30152 FF 02 FC 00 04 07 F8 03 =771
30160 FF 01 00 01 1F FE 00 03 =545
30168 1F FF 01 00 01 07 FE 00 =549
30176 04 0F FF 03 FE 0F F8 00 =794
30184 06 FF 02 81 FF 01 C0 1F =871
30192 FE 00 03 0F FF 01 00 01 =529
30200 03 FF 02 F8 00 02 3F FF =828
30208 03 80 07 FF 02 E0 00 03 =622
30216 07 FF 04 F0 1F FE 00 03 =794
30224 07 FF 01 80 03 FF 01 00 =650
30232 03 01 FF 01 FC 07 FE 00 =773
30240 02 07 FF 01 F8 00 03 1F =547
30248 FE 00 01 1F FF 01 F8 0F =805
30256 FF 01 C0 00 02 07 FF 01 =713
30264 80 03 FF 03 F0 07 FF 01 =892
30272 F0 03 FF 01 07 FF 01 00 =890
30280 7F FE 00 03 0F F0 00 01 =640
30288 01 FF 01 C0 03 FF 03 F8 =958
30296 07 FF 01 F0 00 01 FF 03 =762
30304 80 1F FF 01 80 00 03 0F =561
30312 FF 02 FC 00 25 FF 02 E0 =1027
30320 00 01 03 FF 01 F8 00 01 =509
30328 07 FF 01 FC 00 02 FF 03 =775
30336 FB 00 01 01 FF 01 E0 07 =737
30344 FC 00 01 07 FF 01 F8 00 =764
30352 04 03 FF 02 FC 00 01 07 =524
30360 FF 01 FC 00 02 1F FE 00 =795
30368 01 03 FF 01 F8 00 03 07 =518
30376 FF 01 F0 0F FE 07 FF 02 =1029
30384 FC 00 04 07 F8 03 FF 01 =770
30392 80 1F FC 00 03 1F FF 01 =701
30400 00 01 07 FE 00 04 0F FF =536
30408 03 FE 0F F8 00 06 FF 04 =785
30416 C0 1F FE 00 03 0F FF 01 =751
30424 00 01 03 FF 02 F8 00 02 =511
30432 3F FF 03 80 07 FF 02 E0 =937
30440 00 03 07 FF 04 F0 1F FE =794
30448 00 03 07 FF 01 80 03 FE =651
30456 00 03 03 FF 01 FC 07 FE =775
30464 00 02 07 FF 01 F8 00 03 =516
30472 1F FE 00 01 1F FF 01 F8 =821
30480 0F FF 01 E0 01 E0 07 FF =982
30488 01 80 03 FF 03 F8 07 FF =900
30496 01 F0 03 FF 01 03 FF 01 =759
30504 E0 FF 01 FE 00 03 0F E0 =976
30512 00 01 01 FF 01 80 03 FF =644
30520 03 F0 03 FF 01 F0 00 01 =743
30528 FF 02 FC 00 01 1F FF 01 =797
30536 80 00 03 07 FF 02 F8 00 =643
30544 24 01 FF 02 E0 00 01 03 =522
30552 FF 01 F8 00 01 07 FF 01 =768
30560 FC 00 02 FF 03 F8 00 01 =761
30568 03 FF 01 E0 07 FC 00 01 =743
30576 0F FF 01 F8 00 04 07 FF =785
30584 02 FC 00 01 07 FF 01 F8 =766
30592 00 02 1F FE 00 01 03 FF =546
30600 01 F8 00 03 07 FF 01 F8 =763
30608 0F FE 0F FF 01 87 FC 00 =927
30616 04 07 F8 03 FF 01 80 1F =677
30624 FC 00 03 1F FF 01 00 01 =543
30632 07 FE 00 04 1F FF 03 FC =806
30640 0F FC 00 05 01 FF 04 E0 =756
30648 1F FE 00 03 0F FF 01 80 =687

```



30656 03 FF 02 F8 00 02 7F FF =892
30664 03 00 01 03 FF 02 F0 00 =504
30672 03 0F FF 04 F0 1F FE 00 =802
30680 03 07 FF 01 80 03 FE 00 =651
30688 03 03 FF 01 FC 07 FF 01 =777
30696 00 02 07 FF 01 FC 00 03 =520
30704 1F FE 00 01 07 FF 01 F8 =797
30712 0F FF 01 FE 03 F0 07 FF =1030
30720 01 80 03 FF 03 F8 07 FF =900
30728 01 E0 01 FF 01 03 FF 03 =743
30736 FE 00 03 0F E0 00 01 01 =498
30744 FF 01 80 00 01 7F FF 02 =769
30752 E0 03 FF 01 F0 00 01 FF =979
30760 02 F8 00 01 1F FF 01 00 =538
30768 04 01 FF 02 F8 00 24 01 =547
30776 FF 02 F0 00 01 03 FF 01 =757
30784 FC 00 01 03 FF 01 FC 00 =764
30792 02 FF 03 F8 00 01 03 FF =767
30800 01 E0 07 FC 00 01 0F FF =755
30808 01 FC 00 04 07 FF 02 FC =773
30816 00 01 07 FF 01 F8 00 02 =514
30824 1F FE 00 01 03 FF 01 C0 =737
30832 00 03 07 FF 01 F8 0F FE =783
30840 0F FF 01 03 F0 00 04 0F =533
30848 F8 01 FF 01 80 1F FC 00 =916
30856 03 1F FF 01 00 01 07 FE =552
30864 00 04 1F FF 03 F8 0F FC =808
30872 00 05 03 FF 04 E0 1F FE =776
30880 00 03 0F FF 01 80 03 FF =660
30888 02 F8 00 02 7F FF 03 00 =637
30896 01 03 FF 02 F0 00 03 0F =519
30904 FF 04 F0 1F FE 00 03 07 =794
30912 FF 01 80 03 FE 00 03 03 =647
30920 FF 01 F8 07 FF 01 00 02 =769
30928 07 FF 01 FC 00 03 1F FC =801
30936 00 01 07 FF 01 F0 0F FF =774
30944 02 0F F8 07 FF 01 80 03 =659
30952 FF 03 F8 0F FF 01 E0 00 =1001
30960 01 FE 01 FF 03 FE 00 03 =771
30968 0F C0 00 02 7F 00 02 1F =369
30976 FF 02 80 00 01 FF 01 E0 =866
30984 00 01 7F FF 01 F0 00 01 =625
30992 0F FE 00 05 7F FF 01 E0 =881
31000 00 24 01 FF 02 F0 00 01 =535
31008 03 FF 01 FC 00 01 01 FF =768
31016 01 FC 00 01 01 FF 03 E0 =737
31024 00 01 03 FF 01 E0 07 FE =745
31032 00 01 1F FF 01 FC 00 04 =544
31040 07 FF 02 FC 00 01 0F FF =787
31048 01 E0 00 02 1F FE 00 01 =513
31056 07 FF 01 80 00 03 07 FF =656
31064 01 F8 1F FE 0F FF 01 01 =806
31072 E0 00 04 0F F8 01 FF 01 =748
31080 C0 1F FC 00 03 1F FF 01 =765
31088 00 01 07 FF 01 00 04 1F =299
31096 FF 03 F8 0F FF 01 00 05 =782
31104 03 FF 04 E0 1F FE 00 03 =774
31112 0F FF 01 80 03 FF 02 E0 =883
31120 00 02 FF 04 00 01 03 FF =520
31128 02 F8 00 03 0F FF 04 F0 =767
31136 1F FE 00 03 07 FF 01 80 =679
31144 03 FF 01 E0 00 02 03 FF =743
31152 01 F8 07 FF 01 00 02 03 =517
31160 FF 01 FC 00 03 1F FC 00 =794
31168 01 07 FF 01 F0 07 FF 02 =768
31176 DF F8 07 FF 01 80 01 FF =1118
31184 03 F8 0F FF 01 E0 00 01 =747
31192 7E 00 01 FF 03 FE 00 03 =642
31200 07 C0 00 02 3E 00 02 03 =268
31208 FF 01 FE 00 02 3F 00 00 =703

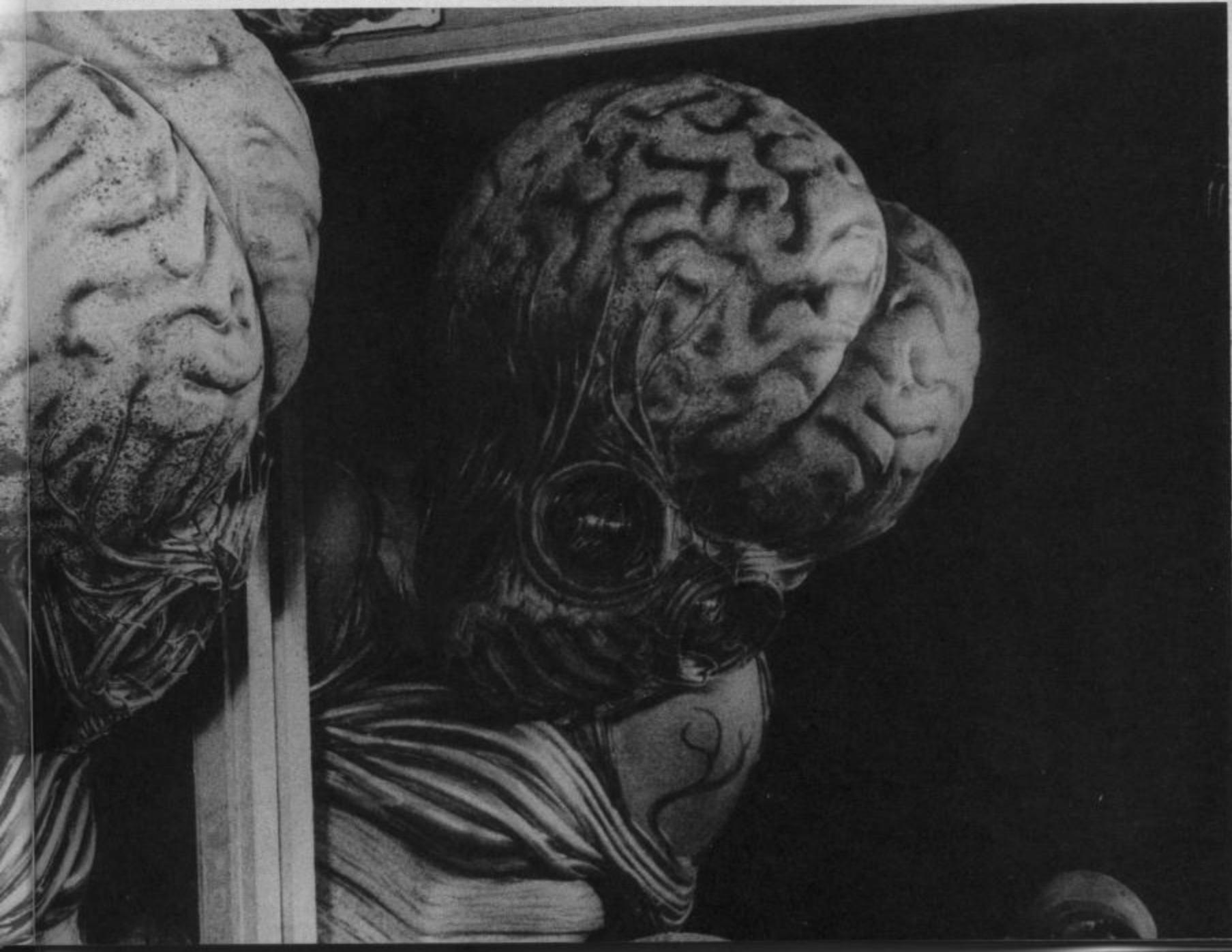
31216 01 3F FC 00 02 07 C0 00 =517
31224 05 3F FF 01 00 0F 07 E0 =570
31232 00 03 7F FF 01 80 00 00 0E =528
31240 01 FF 02 F8 00 01 03 FF =765
31248 01 FC 00 02 3F FE 00 01 =573
31256 01 FF 02 C0 00 02 03 FF =710
31264 01 E0 07 FE 00 01 7F FF =869
31272 01 FC 00 04 07 FE 07 FC =777
31280 00 01 0F FF 01 80 00 02 =402
31288 1F FE 00 01 07 FF 01 80 =677
31296 00 03 0F FF 01 FC FF 01 =782
31304 FE 0F FE 01 80 00 04 0F =671
31312 F8 01 FF 01 C0 1F FC 00 =980
31320 03 1F FF 01 00 01 07 FF =553
31328 01 F8 00 03 1F FF 03 F8 =789
31336 0F FF 01 E0 00 04 03 FF =757
31344 04 E0 1F FE 00 03 0F FF =786
31352 01 80 03 FF 01 FC 00 03 =643
31360 FF 04 00 02 FF 02 F8 00 =766
31368 03 0F FF 04 F0 1F FE 00 =802
31376 03 07 FF 01 80 03 FF 02 =654
31384 E0 00 01 03 FF 01 F8 07 =739
31392 FF 01 03 F0 01 FF 01 FC =1008
31400 00 03 1F F0 00 01 03 FF =533
31408 01 F0 07 FF 03 F8 07 FF =1016
31416 01 80 01 FF 03 F8 0F FF =906
31424 01 E0 00 01 3E 00 01 3F =352
31432 FF 02 FE 00 03 07 00 07 =528
31440 0F FC 00 05 07 80 00 09 =416
31448 07 FC 00 0B 03 C0 00 02 =467
31456 3F FB 00 02 0F FF 02 E0 =809
31464 00 02 38 00 02 F8 00 02 =310
31472 07 80 00 04 03 FF 02 F8 =647
31480 00 01 07 FF 01 FC 00 02 =518
31488 1F FE 00 01 01 FF 02 00 =544
31496 03 07 FF 01 F0 07 FE 00 =767
31504 01 FF 02 FC 00 04 07 F8 =769
31512 07 FE 00 01 0F FF 01 00 =533
31520 03 1F FE 00 01 07 FE 00 =550
31528 04 0F FF 03 FE 0F FC 00 =798
31536 06 1F FB 01 FF 01 C0 1F =765
31544 FE 00 03 1F FF 01 00 01 =545
31552 07 FF 02 00 03 1F FF 03 =556
31560 E0 07 FF 02 00 04 07 FF =754
31568 04 E0 1F FE 00 03 07 FF =778
31576 01 80 03 FF 01 E0 00 02 =614
31584 01 FF 02 9F FF 01 00 02 =675
31592 07 FF 01 F8 00 03 0F FF =784
31600 01 FB 3F FF 01 F8 1F FF =1102
31608 01 00 03 07 FF 01 80 03 =398
31616 FF 02 FC 00 01 03 FF 01 =769
31624 F0 07 FF 01 03 FB 00 01 =755
31632 FF 01 FC 00 03 1F F0 00 =782
31640 01 03 FF 01 C0 07 FF 03 =717
31648 F8 07 FF 01 E0 01 FF 03 =994
31656 F0 1F FF 01 E0 00 01 1C =780
31664 00 01 1F FF 02 FE 00 25 =580
31672 1B FC 00 03 3F E0 00 02 =571
31680 FF 01 F8 00 02 3F FF 02 =826
31688 F8 00 02 FF 01 00 01 01 =508
31696 F8 00 02 FF 01 F0 00 04 =750
31704 03 FF 02 F8 00 01 07 FF =771
31712 01 FC 00 02 1F FE 00 01 =541
31720 01 FF 02 00 03 07 FF 01 =524
31728 F0 07 FE 01 FF 02 FC 00 =1011
31736 04 07 F8 03 FE 00 01 1F =548
31744 FE 00 03 1F FF 01 00 01 =545
31752 07 FE 00 04 0F FF 03 FE =792
31760 0F FB 00 06 1F FC 01 FF =808
31768 01 C0 1F FE 00 03 1F FF =767
31776 01 00 01 03 FF 02 E0 00 =486
31784 02 3F FF 03 80 07 FF 02 =715
31792 80 00 03 07 FF 04 F0 1F =668
31800 FE 00 03 07 FF 01 80 03 =651
31808 FF 01 C0 00 02 01 FF 02 =708
31816 0F FF 01 00 02 07 FF 01 =536
31824 F8 00 03 1F FF 01 C0 3F =793
31832 FF 01 F8 1F FF 01 00 03 =794
31840 07 FF 01 80 03 FF 03 C0 =844
31848 03 FF 01 F0 03 FF 01 07 =765
31856 FE 00 01 FF 01 FC 00 03 =766
31864 1F F0 00 01 03 FF 01 C0 =723
31872 07 FF 03 F8 07 FF 01 F0 =1016
31880 01 FF 03 C0 1F FF 01 C0 =930
31888 00 01 0C 00 01 1F FF 02 =302
31896 FC 00 FF 00 00 00 00 00 =507
STOP

The Hex Data II
Here's the second set of Hex data, named ALIEN. Enter it and save it five seconds after the SCREEN data with SAVE
"ALIEN" CODE 32100,3990.

32100 CD F4 84 3E 64 32 19 87 =953
32108 3E 03 32 07 87 21 00 00 =290
32116 22 17 87 21 25 87 06 06 =409
32124 36 30 23 10 FB 3E 0F 32 =531
32132 48 5C 06 19 21 73 89 36 =534
32140 00 23 10 FB 21 90 5C 36 =625
32148 FF 2B 2B 36 FF 3E 32 32 =812
32156 1D 87 AF 32 1F 87 21 30 =636
32164 30 22 2E 87 3E 30 32 2E =469
32172 87 32 2F 87 3E 05 32 14 =504
32180 87 3E 13 CD EF 7E 21 30 =867
32188 87 22 20 87 CD 9B 85 CD =1034
32196 EB 7D CD F4 84 3E 18 CD =1232
32204 EF 7E ED 4B 17 87 C9 3E =1098
32212 19 CD EF 7E 06 0A C5 60 =904
32220 11 0A 00 CD B5 03 CD 0F =636
32228 85 CD 69 85 C1 10 EF 3A =1082
32236 14 87 C6 03 32 14 87 32 =611
32244 1C 87 3A 19 87 D6 04 30 =647
32252 02 3E 01 32 19 87 32 0A =335
32260 87 3A 1F 87 3C 32 1F 87 =635
32268 2A 2E 87 7C FE 39, 38 03 =717
32276 2C 26 2F 24 22 2E 87 18 =404
32284 00 CD FF 7E 21 92 88 11 =918
32292 03 00 3A 14 87 36 01 19 =296
32300 3D 20 FA CD 2A B4 CD F4 =1171
32308 84 06 11 21 73 89 11 05 =462
32316 00 36 00 19 10 FB 3A 14 =424
32324 87 47 DD 21 92 88 C5 DD =1160
32332 7E 00 FE 00 28 28 CD E1 =890
32340 84 16 40 5F CD 4C 84 FE =980
32348 0F 20 F3 ED 4B 1A 87 DD =984
32356 70 00 CB 43 28 03 DD 71 =759
32364 00 DD 73 01 DD 36 02 40 =678
32372 2A 05 87 CD F5 B3 01 03 =767
32380 00 DD 09 C1 10 C8 3E 10 =717
32388 32 9E 86 11 CF 50 ED 53 =966
32396 0D 87 ED 53 0F 87 CD 93 =970
32404 7F CD 22 85 CD F3 B0 3A =1133
32412 07 87 11 FF 50 F5 D5 21 =985
32420 9B 86 0E 0F CD C8 84 D1 =1064
32428 1D 1D F1 3D 20 EF CD 9B =991
32436 85 06 20 C5 CD EF 85 C1 =1138
32444 10 F9 21 61 88 CD E1 84 =1093
32452 FE 80 38 03 21 79 88 22 =765
32460 20 87 ED 5B 0D 87 0E 0F =672
32468 21 9B 86 CD C8 84 AF DB =1253
32476 FE E6 1F FE 1F 20 F7 AF =1254
32484 DB FE E6 1F FE 1F 28 F7 =1306
32492 C3 BF 7F 32 A2 FE CD E8 =1416
32500 FD C5 0E 96 10 FE 0D 20 =929
32508 FB C1 C9 3E 12 32 1E 87 =940
32516 CD 13 7F ED 43 1A 87 22 =850
32524 05 87 ED 53 20 87 C9 3A =886
32532 1F 87 11 9B 87 21 3D 86 =701
32540 06 CC 0E C4 3D C8 11 B5 =879
32548 87 06 CC 0E C5 3D C8 11 =834
32556 D0 87 21 63 86 06 CC 0E =833
32564 CC 3D C8 11 FC 87 06 C5 =1072
32572 0E C5 3D C8 F5 3E 11 32 =846
32580 1E 87 F1 11 14 88 21 A3 =775
32588 86 06 84 0E 84 3D C8 06 =685
32596 8C 0E 88 3D C8 F5 3E 12 =876
32604 32 1E 87 F1 11 9B 87 21 =796
32612 3D B6 06 C4 0E CC 3D C8 =876
32620 F5 3E 12 32 1E 87 F1 11 =798
32628 4B B8 21 87 86 06 CC 0E =737
32636 C5 3D C8 06 CC 0E C5 3D =940
32644 C8 3A 14 87 C6 0A 32 14 =691
32652 87 AF 32 1F B7 18 80 21 =711
32660 BE 03 06 64 E5 C5 4E 23 =790
32668 7E 23 E6 7F 47 E5 CD E5 =1252
32676 22 E1 C1 10 F0 06 1E E1 =969
32684 C5 4E 23 7E 23 E6 1F C6 =930
32692 80 47 E5 CD E5 22 E1 C1 =1314
32700 10 EE C9 3E BF DB FE CB =1384
32708 67 20 08 3E FD DB FE CB =1134
32716 4F 20 FB CD F3 B0 CD 9F =1299
32724 81 CD E1 84 FE FE CC FB =1654
32732 81 CD 69 85 CD 93 7F 3A =1109
32740 1C 87 FE 00 CA D3 7D 3A =1013
32748 1D 87 FE 0A 30 0C DD 21 =742
32756 C3 89 DD 7E 00 FE 00 CC =1137
32764 10 82 CD 7B 83 CD BD 82 =1129
32772 CD 2A 84 3A 0A 87 32 15 =653
32780 87 CD BD 82 3A 13 87 FE =1125
32788 8A 28 11 ED 5B 0D 87 CD =876
32796 4C 84 FE 7A CC 3E B1 FE =1233
32804 0F C2 62 82 CD 4A B0 ED =1081
32812 5B 0D 87 CD 4C 84 FE 7A =1028
32820 D5 CC 3E B1 D1 3A 13 87 =1029
32828 4F 21 9B 86 CD C8 84 CD =1143
32836 54 1F D0 C3 BF 7F 3E 0F =913
32844 32 13 87 3A B0 5C FE 01 =785
32852 20 44 3E EF DB FE CB 47 =1148
32860 CC B7 82 3E EF DB FE E6 =1473
32868 06 FE 06 28 11 3A 1D 87 =545
32876 FE 00 28 0A D6 01 32 1D =598
32884 87 3E BA 32 13 87 3E EF =840
32892 DB FE CB 67 20 0C 3E EF =1124
32900 DB FE CB 5F C8 CB D8 C3 =1585
32908 DB B0 3E EF DB FE CB 5F =1419
32916 C0 CB C0 C3 DB B0 3E E7 =1422
32924 DB FE CB 4F CC 87 B2 3E =1286

32932 7E DB FE E6 1F FE 1F 2B =1185	33732 87 FE 11 28 14 CD E1 84 =1028	34532 00 0A 66 1F DC 1C ED 24 =664
32940 11 3A 1D 87 FE 00 2B 0A =543	33740 FE F0 38 0D DD E5 DD 5E =1328	34540 44 08 69 22 18 DB 30 82 =636
32948 D6 01 32 1D 87 3E 8A 32 =679	33748 01 DD 56 02 CD 34 82 DD =918	34548 29 00 24 00 1A 48 00 42 =241
32956 13 87 3E F7 DB FE CB 47 =1210	33756 E1 11 03 00 DD 19 C1 CB =887	34556 00 00 02 40 18 00 10 04 =110
32964 20 0C 3E EF DB FE CB 47 =1092	33764 60 C4 EB 83 10 99 C9 DD =1249	34564 00 3D 86 03 5A 00 60 CB =587
32972 C8 CB DB C3 DB 80 3E EF =1462	33772 E5 C5 CD BD 82 C1 DD E1 =1589	34572 36 CF 50 CF 50 41 00 BA =831
32980 DB FE CB 47 C0 CB C0 ED =1571	33780 C9 3E 89 D3 FE 3E 09 D3 =1147	34580 08 60 10 00 00 60 C4 CC =616
32988 5B 0D 87 0E 0F 21 D5 86 =648	33788 FE D5 4E 23 3E 01 BE 23 =868	34588 08 31 12 01 61 88 53 43 =459
32996 D5 C5 CD CB 84 C1 D1 CD =1554	33796 28 0C C5 D5 CD CB 84 D1 =1208	34596 3D 30 30 30 30 30 30 20 =381
33004 38 84 ED 53 0D 87 C9 3A =915	33804 E5 CD 93 84 E1 C1 CD CB =1536	34604 4C 3D 30 31 20 4B 45 59 =499
33012 1D 87 F5 CB 3F CB 3F CB =1144	33812 84 D1 C9 DD 5E 01 DD 56 =1165	34612 53 2E 2E 2E 2E 2E =405
33020 3F FE 00 11 E0 50 28 10 =694	33820 02 2A 05 87 23 7E 21 D4 =590	34620 2E 20 31 2D 4C 45 46 54 =471
33028 47 21 CB 86 0E 10 D5 C5 =881	33828 86 77 2B C3 F5 83 3A 15 =946	34628 20 20 52 49 47 48 54 2D =491
33036 CD CB 84 C1 D1 1C 10 F1 =1224	33836 87 06 00 10 FE 3D 20 F9 =753	34636 30 20 2E 2E 2E 2E 2E =356
33044 F1 E6 07 FE 00 28 08 47 =851	33844 CD BD 82 C9 CB 40 C4 93 =1335	34644 2E 2E 46 49 52 45 2D 32 =481
33052 AF 37 1F 10 FC E6 AA 06 =935	33852 B4 CB 48 C4 80 84 CB 50 =1146	34652 20 4F 52 20 39 20 20 =378
33060 08 12 14 10 FC 3A 1D 87 =536	33860 C4 5C 84 CB 58 C4 9F 84 =1198	34660 20 20 41 4E 59 20 4F 54 =491
33068 0E 10 FE 0A 30 02 0E 90 =502	33868 D5 E1 7C E6 18 CB 2F CB =1269	34668 48 45 52 20 4B 45 59 20 =520
33076 21 E0 5A 06 0C 71 23 10 =529	33876 2F CB 2F C6 58 67 7E C9 =1013	34676 46 4F 52 20 53 48 45 49 =560
33084 FC C9 3E 1D 32 A2 FE CD =1215	33884 7A FE 50 28 13 7B C6 20 =868	34684 4C 44 53 2E 20 20 20 =401
33092 E8 FD 3E 08 32 84 5C DD =1050	33892 5F D0 7A C6 08 57 FE 58 =1060	34692 20 20 20 20 20 20 20 =256
33100 21 73 89 06 11 DD 7E 00 =655	33900 C0 7B C6 20 5F 16 40 C9 =927	34700 20 20 20 20 20 20 20 =256
33108 FE 00 28 12 DD 7E 01 BB =847	33908 7B E6 E0 FE C0 20 E6 7B =1408	34708 20 20 20 20 20 20 00 =224
33116 20 0C DD 7E 02 BA 20 06 =617	33916 E6 1F 18 F0 7B D6 20 5F =989	34716 42 45 57 41 52 45 20 4F =549
33124 DD 36 00 00 18 09 C5 01 =506	33924 D0 7A D6 08 57 FE 38 C0 =1141	34724 46 20 54 48 45 20 42 55 =510
33132 05 00 DD 09 C1 10 DE 06 =672	33932 7B C6 20 5F 16 40 C9 7B =858	34732 44 47 49 45 53 2E 20 =474
33140 0A C5 26 00 68 11 01 00 =367	33940 6F E6 E0 5F 7D 3C E6 1F =1106	34740 01 20 4D 55 54 45 4E 54 =510
33148 CD B5 03 C1 10 F3 ED 5B =1169	33948 B3 5F C9 7B 6F E6 E0 5F =1210	34748 20 42 55 44 47 49 45 53 =547
33156 0D 87 21 9B 86 0E 0F CD =704	33956 7D E6 1F 3D E6 1F 83 5F =934	34756 20 50 41 52 54 20 54 57 =546
33164 C8 B4 3A 1D 87 C6 0F FE =1021	33964 C9 D5 7A E6 18 CB 2F CB =1243	34764 4F 2E 20 01 20 4E 4F 57 =434
33172 61 38 02 3E 60 32 1D 87 =527	33972 2F CB 2F C6 58 57 79 12 =809	34772 20 50 52 45 50 41 52 45 =559
33180 3E 0F C9 DD 21 73 89 06 =790	33980 D1 06 08 4E 1A A9 12 14 =534	34780 20 54 4F 20 4D 45 45 54 =526
33188 11 DD 7E 00 CB 7F C4 B5 =1071	33988 23 10 F8 C9 D5 7A E6 18 =1089	34788 20 54 48 45 20 53 50 49 =525
33196 81 11 05 00 DD 19 10 F1 =654	33996 CB 2F CB 2F CB 2F C6 58 =1036	34796 44 45 52 20 43 52 45 41 =534
33204 C9 C5 DD 5E 01 DD 56, 02 =1023	34004 57 79 12 D1 06 08 7E 12 =593	34804 54 55 52 45 53 2E 20 01 =482
33212 D5 21 D5 86 0E 0F CD C8 =1027	34012 14 23 10 FA C9 E5 C5 2A =990	34812 20 41 4E 4F 54 48 45 52 =561
33220 B4 D1 C1 C5 DD 46 00 CD =1227	34020 0B 87 46 23 3E 3F A4 67 =643	34820 20 4C 45 41 54 48 45 4C =543
33228 38 84 7A FE 40 20 0D 7B =796	34028 7B 22 0B 87 7E C1 E1 C9 =1045	34828 20 57 41 56 45 2E 20 01 =418
33236 E6 E0 FE 00 20 06 DD 36 =1021	34036 21 00 40 E5 D1 13 36 00 =608	34836 21 21 21 21 21 21 21 21 =264
33244 00 00 C1 C9 DD 73 01 DD =952	34044 01 00 18 ED B0 21 00 58 =559	34844 20 41 53 54 45 52 4F 49 =567
33252 72 02 DD 6E 03 DD 66 04 =777	34052 E5 D1 13 01 00 03 36 0F =530	34852 44 53 20 21 21 21 21 21 =348
33260 ED 5F CB 4F 28 04 01 0A =669	34060 ED B0 C9 21 17 87 34 21 =890	34860 21 21 21 21 21 21 21 21 =264
33268 00 09 CD F5 B3 C1 C9 DD =1205	34068 29 87 7E FE 39 38 05 36 =728	34868 21 21 21 20 41 53 54 45 =432
33276 21 73 89 06 0F DD 7E 00 =653	34076 30 2B 1B F6 3C 77 21 22 =607	34876 52 4F 49 44 53 20 21 21 =483
33284 CB 7F 28 08 11 05 00 DD =621	34084 87 11 EC 50 06 0E C5 E5 =914	34884 21 21 21 21 21 21 21 01 =231
33292 19 10 F2 C9 DD 36 00 84 =891	34092 D5 7E 6F 26 00 29 29 29 =611	34892 54 48 45 20 53 41 55 53 =573
33300 16 40 ED 5F 5F CD 4C B4 =926	34100 11 00 3C 19 D1 D5 0E 07 =545	34900 45 52 53 20 41 54 54 41 =564
33308 FE 0F 20 F4 DD 73 01 DD =1103	34108 CD C8 84 D1 1C E1 23 C1 =1227	34908 43 4B 2E 20 01 20 54 52 =419
33316 72 02 21 B7 86 DD 75 03 =807	34116 10 E4 C9 06 0A DD 21 C8 =915	34916 59 20 48 41 52 44 45 52 =559
33324 DD 74 04 4E CD C8 B4 C9 =1157	34124 89 DD 7E 00 FE 05 30 0A =801	
33332 DD 21 73 89 06 0F DD 7E =874	34132 D5 11 03 00 DD 19 D1 10 =704	
33340 00 CB 7F 28 0A D5 11 05 =615	34140 F0 C9 DD 36 00 04 DD 73 =1056	
33348 00 DD 19 D1 10 F0 C9 DD =1133	34148 01 DD 72 02 C9 DD 21 C8 =993	
33356 36 00 B4 DD 73 01 DD 72 =858	34156 89 06 0A DD 7E 00 FE 05 =759	
33364 02 21 29 B6 DD 75 03 DD =772	34164 DC 7F B5 11 03 00 DD 19 =746	
33372 74 04 CD C7 B1 C9 AF 21 =1062	34172 10 F1 C9 C5 6F 3D DD 77 =1167	
33380 00 58 77 11 01 58 01 DF =537	34180 00 26 00 29 29 29 11 DD =399	
33388 02 ED B0 3D 20 F1 3E 1A =837	34188 86 19 DD 5E 01 DD 56 02 =784	
33396 32 A2 FE CD E8 FD 3A 07 =1221	34196 0E 0F CD C8 84 C1 C9 2A =1002	
33404 87 3D 32 07 87 FE 00 C8 =842	34204 20 87 22 ED 85 3E FF 32 =938	
33412 C3 2F 7E 3A 9E B6 FE 00 =972	34212 12 B7 CD BF 85 3A 12 87 =893	
33420 C8 3A 1D 87 FE 00 C8 3D =937	34220 FE 00 C8 18 F5 21 12 87 =909	
33428 32 1D 87 FE 0A CC FB 81 =1062	34228 36 00 FE 01 C8 2A 20 87 =718	
33436 06 05 C5 60 11 01 00 CD =527	34236 22 ED 85 FF 3A 05 5C FE =1068	
33444 B5 03 C1 10 F5 AF 32 9E =1021	34244 00 C0 2A ED 85 23 22 ED =910	
33452 B6 ED 5B 0D 87 ED 53 0F =945	34252 85 7E FE 02 38 DF 2A 36 =890	
33460 87 21 21 B6 0E 0F CD AD =742	34260 5C 01 08 00 09 3D 20 FC =455	
33468 84 3A 9E B6 FE 00 C0 ED =1165	34268 11 DF 50 ED A0 1B 14 79 =885	
33476 5B 0F 87 CD 4C 84 FE 0F =923	34276 FE 00 20 F7 CD EF 85 18 =1134	
33484 20 3A D5 21 21 B6 0E 0F =532	34284 D2 B4 87 3E 08 F5 06 04 =850	
33492 CD AD 84 D1 06 02 CD 3B =988	34292 C5 06 FF 10 FE C1 10 F8 =1185	
33500 B4 FE 0F 20 27 ED 53 0F =807	34300 21 DF 58 E5 0E 08 06 20 =633	
33508 87 21 21 B6 0E 0F D5 CD =782	34308 E1 25 E5 B7 CB 16 2B 10 =958	
33516 AD B4 D1 7B E6 E0 FE 00 =1345	34316 FB 0D 20 F2 E1 F1 3D 20 =1097	
33524 C0 7A FE 40 C0 3E 10 32 =952	34324 DC 21 32 00 11 0A 00 CD =535	
33532 9E 86 21 D3 B6 4E 23 23 =818	34332 B5 03 C9 0F 01 00 10 08 =425	
33540 CD C8 84 C9 ED 53 0F 87 =1208	34340 10 08 10 08 00 0E 01 00 =63	
33548 3A 14 87 47 21 92 B8 C5 =796	34348 00 20 50 50 20 20 00 0E =270	
33556 7E CB 7F 28 12 23 4E 23 =662	34356 01 00 04 0E 0E 04 04 00 =41	
33564 46 23 7A B8 28 0E C1 10 =674	34364 00 4C 02 00 43 33 3D 1F =288	
33572 EE 3E 10 32 9E B6 C9 23 =894	34372 04 0C 00 00 C2 CC BC FB =850	
33580 23 23 18 F2 7B B9 28 11 =701	34380 20 30 00 4D 02 00 03 03 =165	
33588 C5 D1 E5 CD 93 84 E1 D5 =1557	34388 0D 3F 72 42 00 00 C0 C0 =640	
33596 C1 ED 5B 0F 87 7B B9 20 =1011	34396 B0 FB 4E 42 00 00 00 4D =645	
33604 DD 2B 56 2B 5E 2B 36 00 =584	34404 02 00 00 1F 37 44 44 44 =292	
33612 CD 47 B5 C1 E5 DD E1 CD =1482	34412 00 00 00 F8 EC 22 22 22 =586	
33620 17 84 3A 1E 87 32 A2 FE =844	34420 00 4E 02 00 00 1F 39 3F =231	
33628 CD E8 FD 3E 10 32 9E B6 =1110	34428 0F 0D 19 00 00 FB 9C FC =709	
33636 CD 0F 85 3A 1C 87 3D 32 =685	34436 F0 B0 98 4D 01 18 18 7E =820	
33644 1C 87 3A 0A 87 FE 06 3B =682	34444 E7 B1 FF 7E 66 4C 01 00 =920	
33652 02 D6 03 32 0A 87 C9 3A =673	34452 18 7E C3 99 81 7E 66 00 =855	
33660 14 87 47 DD 21 92 B8 C5 =959	34460 00 00 10 10 38 FE C6 0E =554	
33668 DD 7E 00 CB 7F 28 52 CD =1004	34468 01 2E 5D F7 3E 6D FB 3E =871	
33676 17 84 DD 46 00 CB 70 28 =801	34476 1A 0E 01 7A 7D 77 F6 6D =762	
33684 04 ED 5F A0 47 CD 38 84 =960	34484 FA 7E 5A 7A 01 FF 81 BD =1	

34924 20 54 48 49 53 20 54 49 =533	35316 7C 1E 00 00 00 00 00 00 =154	35708 13 02 98 FF CF FF 01 00 =891
34932 4D 45 21 21 01 2D 2D 20 =335	35324 00 30 38 10 00 06 0C 08 =146	35716 1E 0D 0E 0E FF B0 FF 00 =757
34940 42 41 44 20 4C 55 43 48 =534	35332 18 70 E0 80 00 3C 4E 9A =780	35724 01 03 FF 01 50 FF 5A FF =940
34948 20 45 41 52 54 48 4C 49 =553	35340 D6 E4 CC 78 00 1C 3C 0C =866	35732 00 00 50 03 02 21 FF FA =623
34956 4E 47 20 2D 2D 01 C4 31 =517	35348 0C 18 18 3C 00 7C C6 0E =456	35740 FF 01 01 04 10 00 E5 B5 =687
34964 40 CC 55 40 CC 1F 40 CC =920	35356 38 60 F0 1E 00 7C 06 32 =602	35748 23 EA 01 00 01 05 05 28 =321
34972 23 40 CC 39 40 CC 37 40 =747	35364 0E 06 9C 70 00 40 41 48 =489	35756 FF 21 FF 00 00 01 79 0E =679
34980 C4 C9 40 CC DF 40 C5 7B =1272	35372 C8 8F BC E4 00 7E C0 F0 =1317	35764 64 FF 1E FF 00 00 5D 4D =810
34988 50 00 CA 48 00 D3 40 C5 =826	35380 0C 02 C2 3C 00 0E 38 60 =434	35772 03 0A E1 05 FF 00 00 05 =503
34996 57 48 00 11 50 00 53 48 =411	35388 CC F2 C4 3C 00 3C C4 0C =970	35780 7E 0D 5A A2 00 AA 00 00 =561
35004 00 B8 50 00 D3 48 00 76 =665	35396 08 18 10 10 00 7C C4 38 =440	35788 F2 BB 03 6E F5 4B FF 01 =1118
35012 50 4C 44 03 41 2C 4C 00 =412	35404 E4 B2 E2 3C 00 70 9E 82 =1044	35796 01 5F 02 01 FF FF FF FF =1119
35020 96 70 00 03 49 4E 43 01 =484	35412 7E 0C 1C E0 00 00 38 70 =558	35804 02 01 00 00 00 3A A2 FE =477
35028 41 00 96 80 00 03 41 4E =489	35420 00 70 50 40 00 00 18 30 =328	35812 3C 21 E3 FC 01 09 00 09 =591
35036 44 04 41 2C 33 31 00 96 =431	35428 00 18 08 10 00 02 3E E0 =336	35820 3D 20 FC C3 AE FE 00 00 =968
35044 90 00 03 41 44 44 03 41 =416	35436 40 60 38 0C 00 F0 FE 0E =736	35828 00 00 03 FE 00 00 F5 C5 =699
35052 2C 45 00 97 00 00 02 4C =342	35444 C0 70 7E 0E 00 60 70 18 =676	35836 D5 E5 CD BF 02 2A A5 FE =1301
35060 44 03 45 2C 41 00 97 10 =416	35452 0E 0E F8 60 00 1C E6 C2 =824	35844 7C B5 28 18 E5 21 FF AE =1060
35068 00 03 52 45 54 00 00 97 =389	35460 0E 38 00 70 00 78 CC B4 =686	35852 3A A7 FE 47 3A A9 FE 57 =1118
35076 20 00 00 00 97 30 04 =235	35468 9E BA C6 3C 00 60 38 4C =830	35860 3A 2F FE 5F 3A A8 FE 0E =948
35084 4C 45 46 54 02 4C 44 03 =448	35476 48 7C 46 EE 00 F8 6C 64 =960	35868 FE C9 00 00 21 FF AE 0E =931
35092 41 2C 45 00 97 40 00 02 =395	35484 7C 36 32 7C 00 7A 8E C6 =814	35876 FE 1E 02 16 0A 7B F6 00 =687
35100 4C 44 03 4C 2C 41 00 97 =483	35492 C0 E2 7E 3C 00 F8 64 64 =1052	35884 E6 09 FD CB 47 46 28 01 =877
35108 50 00 03 41 4E 44 0B 41 =370	35500 72 32 32 7C 00 FC 62 68 =792	35892 2F 47 3A 48 5C CB 3F CB =809
35116 2C 31 31 31 30 30 30 =383	35508 30 28 62 BE 00 FC 42 48 =766	35900 3F CB 53 F6 18 ED 79 2D =1022
35124 30 42 00 97 60 00 02 4C =439	35516 78 28 20 70 00 7A BE 82 =698	35908 CC 84 FE 10 FB 7B F6 3D =1284
35132 44 03 45 2C 41 00 97 70 =512	35524 DC 46 7C 38 00 44 C6 DE =958	35916 E6 20 FD CB 47 4E 28 01 =908
35140 00 02 4C 44 03 41 2C 4C =334	35532 F6 66 66 64 00 1E F8 18 =852	35924 2F 47 3A 48 5C CB 3F CB =809
35148 00 97 80 00 03 41 4E 44 =493	35540 38 30 30 DC 00 3E FB 18 =706	35932 3F CB 3F ED 79 2D CC 84 =1068
35156 04 41 2C 33 31 00 97 90 =508	35548 18 9C 8C 78 02 C6 CC C8 =1044	35940 FE 10 FB 15 20 BF 1D 20 =823
35164 00 03 44 45 43 01 41 00 =273	35556 FB 6C 62 62 00 C0 60 60 =936	35948 BA EB 22 A5 FE E1 D1 C1 =1501
35172 98 00 00 03 41 4E 44 04 =370	35564 60 32 36 7C 00 46 CE FA =850	35956 F1 ED 56 FB C9 00 00 25 =1053
35180 41 2C 33 31 00 98 10 84 =509	35572 BA A2 86 84 00 C6 F2 DA =1272	35964 C0 E1 22 A5 FE 32 A8 FE =1342
35188 57 40 29 86 00 21 88 89 =632	35580 CA 4E 66 82 00 7C C6 82 =964	35972 7B 32 A7 FE 7A 32 A9 FE =1186
35196 11 91 FB 01 7F 03 ED 80 =957	35588 BE 8C C8 78 00 FC 66 62 =1054	35980 7B 32 2F FE E1 D1 C1 F1 =1342
35204 C9 00 00 00 00 00 00 00 =201	35596 7C 30 30 78 00 3C 46 86 =604	35988 FB ED 4D 00 00 1D 00 00 =594
35212 00 00 00 00 00 18 18 18 =72	35604 D2 DA E4 7A 00 F8 46 42 =1162	35996 00 00 BC 1B 03 00 00 00 =218
35220 30 30 00 18 00 20 44 C8 =420	35612 7E 38 2C 66 00 1E 70 E0 =694	36004 00 F3 FD 36 47 00 7E 3C =807
35228 0C 00 00 00 00 28 28 FC =344	35620 7E 0E 1C F0 00 1E FA 98 =840	36012 32 2F FE 23 7E 3C 32 31 =671
35236 48 FC 90 90 00 78 84 BA =1050	35628 18 0C 0C 1E 00 C4 C4 =666	36020 FE 23 7E 32 34 FE 23 7E =932
35244 A2 5A 42 3C 00 32 54 EB =744	35636 C2 62 62 3C 00 84 84 86 =848	36028 32 36 FE 23 7E 32 54 FE =907
35252 08 1E 6A BC 00 70 90 50 =620	35644 46 66 36 0C 00 C6 C6 D6 =848	36036 23 7E 32 56 FE 23 7E B7 =895
35260 72 DA CC 7A 00 08 10 30 =730	35652 56 54 7C 48 00 82 C2 6C =798	36044 28 04 FD CB 47 C6 23 7E =930
35268 00 00 00 00 18 30 60 =168	35660 70 38 5C C6 00 C7 42 46 =793	36052 B7 28 04 FD CB 47 CE 23 =995
35276 60 30 30 1C 00 18 18 0C =280	35668 7C 30 60 E0 00 FA 00 AA =912	36060 7E B7 20 02 3E 05 32 14 =480
35284 04 0C 18 30 00 24 A4 7B =408	35676 16 FF 00 00 01 05 02 1E =315	36068 FE 32 2B FE 3E FD ED 47 =1224
35292 F6 30 5C 94 00 08 18 9A =720	35684 FF 7C FF 01 01 04 86 01 =775	36076 ED 5E FB C9 00 00 00 DB =1002
35300 FE FE 30 78 00 00 00 00 =676	35692 15 FF 8D FF 00 01 B0 B4 =1029	36084 02 DB 02 4D 00 39 00 00 =357
35308 1C 18 08 30 00 00 00 E0 =332	35700 01 0A FF 00 FF 00 00 00 =521	STOP



30496 55 50 20 16 08 00 20 20 =291	30952 08 08 3E 00 00 7C 44 04 =274	31408 08 08 48 78 C0 40 4C 50 =620
30504 48 20 30 20 50 41 55 53 =510	30960 38 40 7C 00 00 7C 44 18 =460	31416 60 58 CC 00 70 10 10 10 =548
30512 45 20 20 53 20 3D 20 52 =423	30968 04 44 7C 00 00 18 28 48 =332	31424 10 10 7C 00 00 00 FC 54 =492
30520 45 53 54 41 52 54 20 47 =570	30976 7E 08 1C 00 00 7C 40 7C =474	31432 54 54 D6 00 00 00 FC 44 =702
30528 41 4D 45 20 16 0A 00 20 =307	30984 04 44 7C 00 00 7C 40 7C =508	31440 44 44 E6 00 00 00 7C 44 =558
30536 20 5A 20 3D 20 44 4F 57 =481	30992 44 44 7C 00 00 7C 44 08 =460	31448 44 44 7C 00 00 00 7E 22 =420
30544 4E 20 20 28 41 55 54 4F =495	31000 10 10 10 00 00 7C 44 38 =296	31456 22 3E 20 70 00 00 7C 44 =432
30552 4D 41 54 49 43 20 46 49 =541	31008 44 44 7C 00 00 7C 44 44 =520	31464 44 7C 04 06 00 00 00 7C 24 =362
30560 52 45 29 20 20 16 0C 00 =290	31016 7C 04 7C 00 00 00 00 10 =268	31472 20 20 70 00 00 00 7C 40 =364
30568 20 20 4B 45 4D 50 53 54 =532	31024 00 00 10 00 00 00 10 00 =32	31480 7C 04 FC 00 00 20 78 20 =564
30576 4F 4E 20 4A 4F 59 53 54 =598	31032 00 10 10 20 00 00 04 08 =76	31488 20 20 38 00 00 00 CC 44 =392
30584 49 43 4B 20 43 4F 4D 50 =550	31040 10 08 04 00 00 00 00 3E =90	31496 44 44 7E 00 00 00 CE 44 =536
30592 41 54 49 42 4C 45 16 11 =472	31048 00 3E 00 00 00 00 10 08 =86	31504 44 28 38 00 00 00 D6 54 =462
30600 00 20 20 20 43 6F 70 79 =507	31056 04 08 10 00 00 7C 44 1C =248	31512 54 54 7E 00 00 00 C6 28 =532
30608 72 69 67 68 74 20 31 39 =680	31064 10 00 10 00 3C 42 BD 85 =480	31520 10 28 C6 00 00 00 CC 44 =526
30616 38 35 20 42 79 20 4D 2E =483	31072 BD A5 BE 78 00 3C 42 42 =856	31528 44 7C 04 7C 00 00 7E 44 =514
30624 57 41 4C 4C 49 53 20 20 =524	31080 7E 42 E7 00 00 FC 42 7C =865	31536 18 22 7E 00 70 10 10 10 =344
30632 20 20 20 16 13 00 20 =201	31088 42 42 FC 00 00 7E 42 40 =640	31544 10 10 10 0C 10 10 10 10 =124
30640 20 50 52 45 53 53 20 41 =526	31096 40 42 7E 00 00 FE 42 42 =642	31552 10 10 1C 00 10 10 10 10 =124
30648 20 4B 45 59 20 54 4F 20 =492	31104 42 42 FE 00 00 FE 42 78 =826	31560 10 10 70 00 1C 10 10 10 =220
30656 42 45 47 49 4E 20 47 41 =525	31112 40 42 FE 00 00 FE 42 78 =824	31568 10 10 10 60 3C 42 BD A1 =620
30664 4D 45 20 20 16 15 00 =285	31120 40 40 E0 00 00 7E 42 40 =608	31576 A1 BD 42 3C 00 3C 66 FF =893
30672 20 20 20 20 20 54 =308	31128 4E 42 7E 00 00 E7 42 7E =693	31584 A5 A5 FF 66 3C 24 66 E7 =1116
30680 48 41 4E 4B 20 59 4F 55 =575	31136 42 42 E7 00 00 7C 10 10 =519	31592 38 38 E7 66 24 00 3C 42 =607
30688 20 20 20 20 20 20 =256	31144 10 10 7C 00 00 7E 08 08 =298	31600 40 40 42 3C 00 08 2A 1C =332
30696 20 20 20 20 3E 02 32 =274	31152 08 48 78 00 00 E6 48 70 =614	31608 7F 7F 1C 2A 08 18 18 7E =506
30704 6B 5C 3E 01 CD 01 16 CD =695	31160 58 44 E6 00 00 E0 40 40 =738	31616 7E FF FF C3 C0 23 E3 =1540
30712 6E 0D 3E 7F D7 11 17 78 =687	31168 42 42 FE 00 00 C3 66 5A =773	31624 1F 1F E3 23 C0 C0 F8 CC =1160
30720 01 1C 00 CD 3C 20 3E 02 =390	31176 42 42 E7 00 00 C7 62 52 =742	31632 F7 F7 CC F8 C0 07 0F 11 =1177
30728 CD 01 16 AF DB FE E6 1F =1137	31184 4A 46 E7 00 00 7E 42 42 =633	31640 15 11 3F EF 47 E0 F0 88 =1011
30736 FE 1F 28 F7 C9 00 00 20 =805	31192 42 42 7E 00 00 FE 42 42 =644	31648 A8 B8 FC F7 E2 00 11 86 =1180
30744 31 39 38 32 20 53 69 6E =542	31200 7E 40 E0 00 00 7E 42 42 =672	31656 77 01 20 00 CD 3C 20 C9 =650
30752 63 6C 61 69 72 20 52 65 =738	31208 42 52 7E 08 00 FE 42 42 =668	31664 21 00 5A 36 00 11 01 5A =285
30760 73 65 61 72 63 68 20 4C =738	31216 7E 44 E7 00 00 7E 40 7E =741	31672 01 FF 00 ED B0 11 0A 7C =820
30768 74 64 20 20 11 3E 78 01 =480	31224 02 42 7E 00 00 FE 92 10 =617	31680 01 1F 00 CD 3C 20 11 2E =392
30776 1C 00 CD 3C 20 C9 16 13 =567	31232 10 10 38 00 00 CE 44 44 =430	31688 7C 01 1E 00 CD 3C 20 11 =469
30781 00 20 20 20 20 20 20 =224	31240 44 44 7E 00 00 E7 42 42 =625	31696 4D 7C 01 1E 00 CD 3C 20 =529
30792 20 47 41 4D 45 20 4E 4F =503	31248 42 24 18 00 00 D7 92 92 =633	31704 3E 00 32 00 5B 3E 10 D7 =496
30800 57 20 50 41 55 53 45 44 =569	31256 92 92 6C 00 00 EE 44 38 =762	31712 3E 05 D7 CD 02 76 3E 7F =796
30808 20 20 20 20 00 00 00 00 =128	31264 28 44 EE 00 00 EE 44 28 =692	31720 DB FE E6 08 FE 08 28 08 =1021
30816 00 00 00 00 00 10 10 10 =48	31272 10 10 38 00 00 7E 44 08 =290	31728 3E 04 32 FA 6D C3 69 6D =884
30824 10 00 10 00 00 24 24 00 =104	31280 10 22 7E 00 1C 10 10 10 =252	31736 3E DF DB FE E6 10 FE 10 =1274
30832 00 00 00 00 14 14 7E 28 =206	31288 10 10 1C 00 00 00 40 20 =156	31744 28 E1 3E 09 32 FA 6D C3 =940
30840 FC 50 50 00 10 7C 50 7C =756	31296 10 08 04 00 38 08 08 08 =108	31752 69 6D 16 12 00 20 20 4E =396
30848 14 54 7C 10 42 A4 48 10 =562	31304 08 08 38 00 00 10 38 54 =228	31760 49 43 45 20 53 43 4F 52 =552
30856 24 4A 84 00 00 10 28 10 =314	31312 10 10 10 00 00 00 00 00 =48	31768 45 20 59 4F 55 20 47 4F =536
30864 2A 44 3A 00 00 08 10 00 =192	31320 00 00 00 FF 00 3C 24 70 =463	31776 54 2C 42 55 54 20 43 41 =527
30872 00 00 00 00 00 18 20 20 =88	31328 20 20 7C 00 00 00 7C 04 =316	31784 4E 20 59 4F 55 20 16 13 =436
30880 20 20 18 00 00 30 08 08 =152	31336 7C 44 7E 00 C0 40 7C 44 =766	31792 00 20 20 59 4F 55 20 55 =434
30888 08 08 30 00 00 00 14 08 =92	31344 44 44 7C 00 00 00 7C 44 =452	31800 53 45 20 41 20 46 45 57 =507
30896 3E 08 14 00 00 00 08 08 =106	31352 40 40 7C 00 C0 04 7C 44 =460	31808 20 4D 4F 52 45 20 4C 49 =520
30904 3E 08 08 00 00 00 00 00 =78	31360 44 44 7E 00 00 00 7C 44 =454	31816 56 45 53 21 20 16 14 00 =345
30912 00 08 08 10 00 00 00 00 =32	31368 7C 40 7C 00 3C 24 70 20 =552	31824 20 20 50 52 45 53 20 =493
30920 3E 00 00 00 00 00 00 00 =62	31376 20 20 70 00 00 00 7C 44 =368	31832 45 49 54 48 45 52 20 28 =521
30928 00 18 18 00 02 04 08 10 =78	31384 44 7C 04 7C C0 40 7C 44 =768	31840 59 29 65 73 20 6F 72 20 =635
30936 20 40 80 00 00 7C 4C 54 =508	31392 44 44 E6 00 10 00 70 10 =510	31848 28 4E 29 6F 20 00 00 00 =302
30944 54 64 7C 00 00 18 28 08 =380	31400 10 10 7C 00 08 00 38 08 =228	STOP

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 myself 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

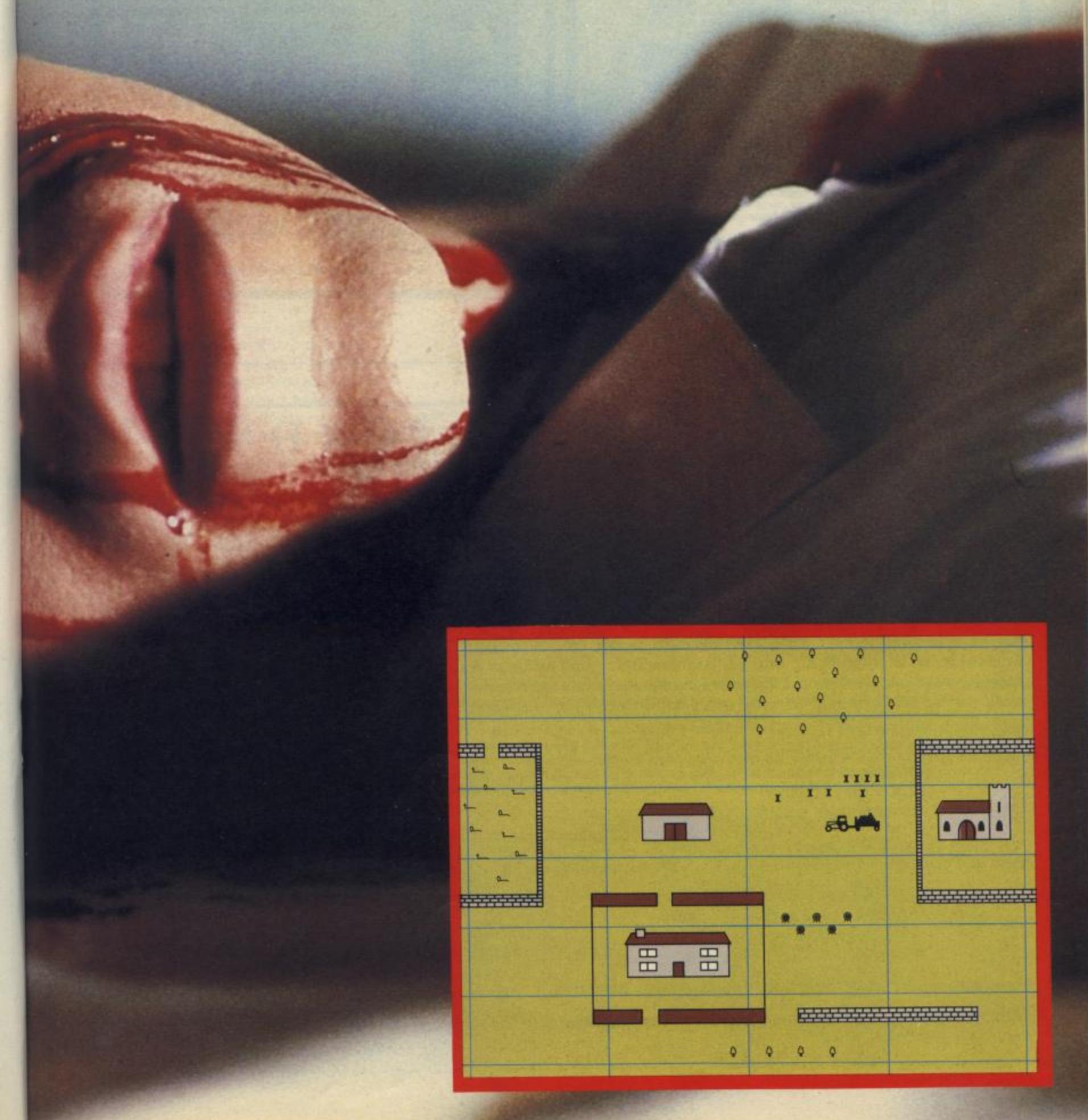
Telephone Number

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

Signed

PROGRAM POWER

THE 13TH™



NEW**NEW****SPECTRUM TAPE and DRIVE TRANSFER UTILITIES**

ALL SPECTRUM owners need TC7 — our specialist tape utility. Send SAE for FULL DETAILS of this amazing and widely used program

- integral header reader
- includes BAUD RATE (speed) measurer
- can save high speed/jerky parts in "normal" form for DRIVE transfer
- so many extra features we can't possibly list them here. Just try it and see. As the market leader we can't afford to let you down.

COST only £8.50 (or £9.95 on cartridge with MT6 a special M/drive program — £7.50 with MT6 on tape)

Yes SPECTRUM owners now have a **LOW COST** way of transferring many of even the **LATEST** high speed/jerky programs to their drives. You will be amazed! Other methods are expensive or very limited.

Firstly you will need our MD1b (for M/drive) or WD1b (for Wsfa or disc drive). They give you the tools to convert programs so that they will run on your drive. Includes ability to cope with v.long programs, and split/chop bytes in one go, "VAL" creator, REMkill, make visible etc, etc. FULL manual (highly rated by CRASH) with example transfers. MD1b or WD1b cost £8.95. *'Manages more programs'* — Your Spectrum. (TC7 also needed for latest programs).

LERM INFORMATION SHEETS

Each sheet gives you the **DETAILED** instructions required to transfer 8 of the more **POPULAR** programs to drive using our software. They cost £1 EACH plus SAE. Up to sheet 5 available.

TRANSFER PACK — TC7 plus MT6 plus MD1b on cartridge with information sheets 1-3 all for £15.50 (other drive owners get programs on tape and sheets for same price with WD1b replacing MD1b)

UPDATE SERVICE: for latest version on your LERM product send old tape plus large SAE to get a £2 REDUCTION. **OVERSEAS:** add £1 Europe, £2 others for each product. SAE for enquiries.

ALL PROGRAMS CARRY A MONEY BACK GUARANTEE (not updates)

**LERM DEPT CR, 10 BRUNSWICK GDNS,
CORBY, NORTHANTS NN18 9ER**

SPECTRUM THE MACHINE CODE SYSTEM

only £7
~~£8.50~~ INC VAT, P&P



only £6
~~£7.50~~ INC VAT, P&P

* "... one of the all too few jewels of Spectrum programming... deserves a place in every serious programmer's library."

(Simon Springett—Popular Computing Weekly—June 1984)

* "... the whole package is very friendly and easy to use... can be highly recommended for those who are just about to start programming in Machine Code."

(Phil Holliday—Your Computer—May 1983)

* Fully compatible with MICRODRIVES/NETWORK/RS232 (with Interface 1) and most popular Centronics interfaces for 80 col. printout.

***NEW LOWER PRICES FOR '86!**

**PICTURESQUE
PICTURESQUE
PICTURESQUE
PICTURESQUE**

Send S.A.E. for fully detailed leaflet Available from many computer shops, or by FAST mail order by sending a cheque/PO. to—

Dept YS, Picturesque, 6 Corkscrew Hill, West Wickham, Kent BR4 9BB

THE T F O R D M I C R O S

**21 GUILDHALL STREET
THETFORD, NORFOLK
Tel: (0842) 61645**

**SERVICE DEPARTMENT, UNIT 4,
LEYLAND CLOSE, FISON IND. EST.
THETFORD, NORFOLK. TEL: (0842) 65897**

SPECIALIST COMPUTER REPAIR SERVICE

We have become leaders for a fast, efficient repair service to SPECTRUM COMPUTERS, undertaking repairs worldwide, all over the U.K., Europe, Arabian States, and as far as Australia. All repaired Spectrum computers (and others), leave our workshop fully tested on the same day we receive them. A three-month warranty is given on all work carried out by us, giving you every confidence that your valued micro is in safe hands.

Spectrum repairs
Microdrive repairs
Interface 1 repairs
ZX Printer repairs
Commodore repairs

(Quotes can be given on other micro and peripheral repairs)

£15.00 + £2.25 VAT + P&P
£29.00 + £4.35 VAT + P&P

Post and package: U.K. £2.00, airmail £5.50. Australian airmail £13.50. Next day delivery (Securicor) £4.60.

We also carry out:

Spectrum and keyboard upgrades
48K Upgrade Kits
Composite Video Conversion

£30.00 + P&P
£22.00 + P&P
£11.50 + P&P

Payment may be made by cheque, postal order, Barclaycard, Access or American Express.

Why wait weeks for the return of your sick computer, send it to the finest Spectrum hospital today — or phone Pete on (0842) 65897 and I will help all I can.

How d'you go about choosing a joystick? We're all guilty of believing that a joystick is a joystick — so why not plump for the cheapest. After all, they all work in the same way, don't they? No, they jolly well don't. Even leaving aside an obvious novelty like the Suncom Joysensor, you'll find that each 'stick has its own feel, almost its own personality. (*What's yours called? Ed*). There are big 'uns and little 'uns, some with flexible shafts, others stiff. You'll come across some real neat ones and some that are just plain ugly.

And, to make things even more complicated, you'll soon suss out that a joystick that hits the heights on one game is of no earthly use on another. In an ideal world, you'd have a different joystick for every game in your collection — but then in an ideal world we'd be picking pound notes off the pavement! So, if you play more than one game, you're now faced with a very tricky bit of decision making. Do you pick a joystick that'll allow you to excel on your fave rave but only lets you plod along with pedestrian scores on the rest — or do you choose an all-rounder that'll give you better than average scores on a variety of games? But then you'll have to resign yourself to the fact that you may never receive the ultimate accolade of being chosen as one of Hex's Heroes.

Of course, for most of us, our mind's are made up by the weight of our wallets. (*What's a wallet? Ed*). But whichever way you want to choose a joystick, you'll find all the information you need in our comprehensive review of the top ten. Each 'stick has been thoroughly put through its paces by three great games players who've been hand picked from Hex's Heroes. And then they did the rough stuff on three very different types of game — a platform, *Monty On The Run*, a hand-to-hand combat, *Way Of The Exploding Fist* and a joystick wagger, *Daley Thompson's Supertest*.

So, if you're in the market for a new 'stick, turn the page and get stuck into the full reviews from our team of joyriders.

GIVE 'EM STICK

Talk about too much of a good thing! Even with all the reviews in front of you, it's still tricky choosing the right one for you. One way is to add up all the scores, of course. But if you're really clever, you'll use Chris Somerville's program, *Second Opinion* that appeared in YS 19. We tried it and came up with some very interesting results. Le Stick got into the quarter finals before being toppled and the Quickshot II and Formula II tied until reaching the final. Just take a look at our top five raves after they'd come through the mincer.

1st **Command Control** Wico/CGL
Formula II Kempston

3rd **Quickshot** Spectravideo

4th **Le Stick** Lightwave Leisure

5th **Micro Stick** Datex

IT'S A STICK UP!

Are you still scraping by using a keyboard on the latest arcade games — and scraping the skin off the ends of your fingers into the bargain? What you need's a 'stick to bring the joy back to your gamesplaying. To help you choose the right one for the job, we asked three YS readers to take a grip of themselves and review the top ten. Peter Shaw joined them and came in for some stick!



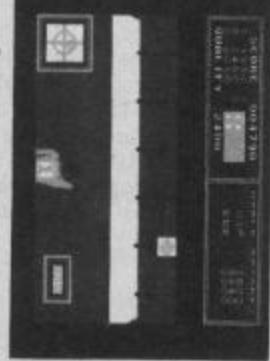
Yikes — here's the poor YS readers who're in for some stick. There's Martin Covill, a 15-year-old self-confessed Madonna fan (OK you can turn the tap off and take the matchsticks out now) who hails from Canterbury. In the middle is Darren Stephens who's 13 and brought his whole family plus pets to see the YS office. Finally, meet Noel Wallace who lives a 55p bus ride away — so, we made him walk home, and before you tell us, we know that Noel sometimes gets hold of the wrong end of the stick. After all, anyone who needs two hands to pull on a Quickshot and can injure himself on a Joysensor is brilliant enough to replace Troubleshootin' Pete!

GETTING SOME STICK

Joystick name	Price	Manufacturers name and phone number
Quickshot II	£10.95	Spectravideo Ltd. 01-330 0101
Gunshot I	£7.95	Vulcan Electronics. 01-203 6366
Kraft	From £12.95	
Formula I	£16.95	Kempston Micro. 0234 856633
Formula II	£11.95	
Micro Stick	£	Datex Ltd.
The Champion	£11.99	CGL Ltd. 01-508 5600
Command Control	£27.95	
LeStick	£12.99	Lightwave Leisure. No number available.
Joysensor	£19.95	Consumer Electronics. 061-682 2339

JOYSTICKS

Daley Thompson's Supertest Ocean



This is the ultimate game that'll push any joystick to its limits. If a 'stick can cope with a day's pounding from *DT* then you can be sure it's tough. And it's not just the shaft — The fire buttons need to be good too — easily accessible and very responsive for that last minute press before taking a penalty or diving from the spring board.

Martin I like the reactions with this one, an' it's got some of the best positioned fire buttons of all the sticks.

On the stickometer 8/10

Darren I don't think this joystick wanted to co-operate — and building up speed was very tricky.

On the stickometer 2/10

Noel The length of the shaft tires your arm out too quickly with all that wagging. Not keen on this one at all.

On the stickometer 6/10

Martin Quite a good design but not as good as most joysticks. I don't think the omission of rapid fire matters.

On the stickometer 6/10

Darren Not exactly a special joystick — very standard 8-directional. Still I did get some good scores with it.

On the stickometer 7/10

Noel Looks too much like the Quickshot for my liking, and I don't reckon it'll take the strain of *Supertest*.

On the stickometer 5/10

Martin A good joystick with a good reaction time. The fire buttons are also well positioned. Where can I find fault?

On the stickometer 9/10

Darren It's a good joystick — what else can I say? The colour's a bit garish but that doesn't bother me.

On the stickometer 9/10

Noel Oh dear, this one's deafening me! The reaction's OK, but the size of the shaft made my arm ache.

On the stickometer 9/10

Martin Wonderful design job and a really good response to back it up. This has it all apart for big buttons.

On the stickometer 8/10

Darren Great stick. Well designed, good response and above all, the fire buttons are in the right place!

On the stickometer 9/10

Noel This one's too flimsy. I prefer a good stiff stem, and this joystick definitely hasn't got what it takes.

On the stickometer 3/10

Monty On The Run Gremlin Graphics



For a platform game like this, a joystick's gonna need pinpoint accuracy so you can get as close to the edge as possible. And as you'll expect to spend a fair few hours meeting Monty's goal, you don't want a grip that'll leave you with sweaty palms and a slippery shaft. And the button had better be big so a thumb can easily be dumped on it for those long jumps.

Martin This joystick definitely works well with platform games. It's nice and accurate with a well-designed shaft.

On the stickometer 9/10

Darren This is the one I've got at home, and I'm used to the action but that's not to say it's the best there is.

On the stickometer 9/10

Noel OK, so it's not bad at coping with platform games, but I still reckon that the shaft is too flimsy.

On the stickometer 6/10

Martin Quite a good joystick to use on the old platforms — everything seems easy to control.

On the stickometer 8/10

Darren It's got an average response and all-in-all it's a pretty average joystick. Nothing to write home about.

On the stickometer 8/10

Noel Stem seems too spindly and the grip gets as sweaty as a Bumpy's armpit. Not for me this one!

On the stickometer 5/10

Martin Very easy to get used to. I like the design and its accuracy overwhelmed me. I'll take one!

On the stickometer 8/10

Darren Nice shaft though it could be longer and the reaction is OK. The overall effect is good.

On the stickometer 5/10

Noel This one went very well with *Monty*. Its reaction is very fast — not bad at all.

On the stickometer 7/10

Martin Very good. The fire buttons react very well. Overall, perfect for this kind of game.

On the stickometer 9/10

Darren It's very similar to the Gunshot. I like it, the design's very hi-tech and the reaction's fast.

On the stickometer 8/10

Noel It's still too flimsy for my liking but it works well with *Monty* though.

On the stickometer 3/10

On the stickometer 6/10

Way Of The Exploding Fist Melbourne House



If you're ready to face the karate challenge, your joystick will need the combined powers of both shaft and button. If the shaft won't react quickly enough, or its directional flexibility is dodgy, then a joystick can be considered worthless.

with a game like this. Plus you'll need a fire button that's easily accessible and very responsive — or it's the chop for you, matey!

Martin Hmmm, it's really easy to use with *Fist*. The reaction is good and the buttons are just right.

On the stickometer 8/10

Darren Can't say I like this combination. Maybe it's me but it sure seems a bit unresponsive.

On the stickometer 3/10

Noel It's got a well designed grip and fire button positioning, but the movement feels too limp and flimsy.

On the stickometer 5/10

Martin Nothing special, but the reactions are fast enough to keep up with *Fist* and the fire buttons are OK.

On the stickometer 9/10

Darren Well I like it. I found it very co-operative an' I'd be quite happy having one on my Speccy. So there!

On the stickometer 9/10

Noel The shaft's too spindly and I reckon it'll break if you sneeze on it. Please take it away!

On the stickometer 5/10

Martin Not so good for use with *Fist*. The size of the shaft seems a disadvantage. Fire buttons are nice though.

On the stickometer 5/10

Darren I think it gives you a lot of control. The fire buttons are in exactly the right position and they're *B/G*.

On the stickometer 8/10

Noel Reacts quite well and the size of the fire buttons are a big plus in this joystick's favour.

On the stickometer 8/10

Martin This one seems made for *Fist*, the reaction time is good — control is easy and the fire buttons are fab.

On the stickometer 8/10

Darren It's great. The case design is very smart and the reaction time is good too — I'm tempted to get one.

On the stickometer 10/10

Noel It's really too flimsy. I know I keep going on about it but I rather hold a piece of raw liver than this joystick.

On the stickometer 6/10

FORMULA II Gremlin Graphics



Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem Don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

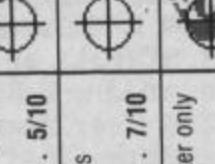
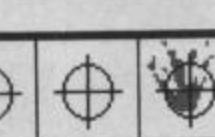
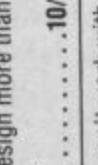
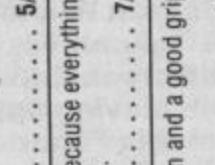
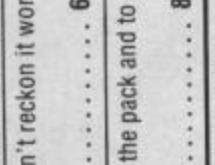
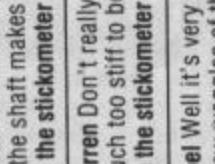
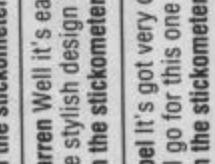
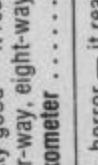
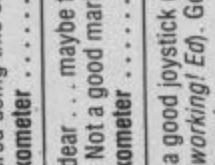
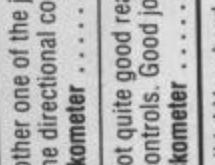
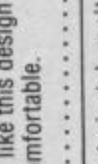
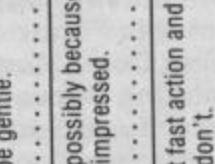
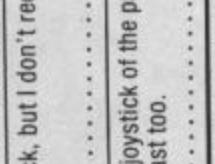
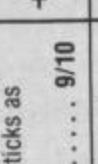
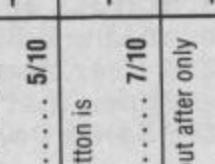
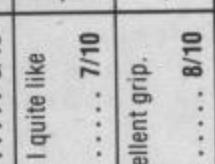
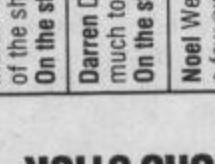
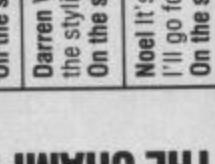
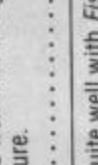
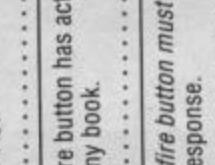
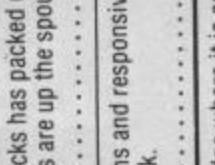
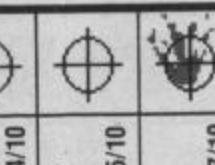
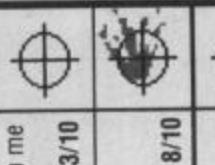
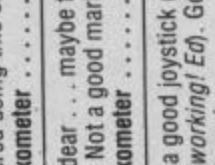
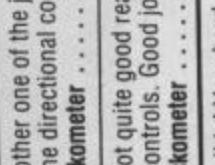
Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

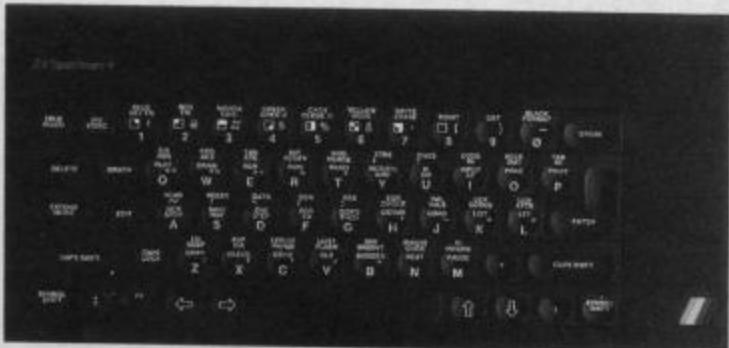
Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

Modem I don't care this is one of the most fun games in the world. The reactions in *FORMULA II*

KRAFT		MICRO STICK	THE CHAMPION	LE STICK	COMMAND	JOYSENSE	
Martin	Don't think much of this one. The design's too fragile and it just ain't good with <i>Supertest</i> . On the stickometer 3/10		Martin I don't rate this joystick at all. The response is OK but I find it too fragile for the game. On the stickometer 2/10		Martin I don't rate this joystick at all. The response is OK but I find it too fragile for the game. On the stickometer 2/10		Martin Reactions are quick enough but the shaft's too small. You won't find me buying one. On the stickometer 3/10
Darren	I reckon it's good. I prefer the small 'sticks as long as the control's still in there. On the stickometer 9/10		Darren It's a good joystick. I like this design more than most and the shaft's very comfortable. On the stickometer 10/10		Darren Pretty good — it responds well with this game. I like the four-way, eight-way feature. On the stickometer 8/10		Darren Shock, horror — it reacts quite well with <i>Fist</i> . You wouldn't think it was the same joystick. On the stickometer 6/10
Noel	This joystick is just right for <i>Supertest</i> . A short shaft means less work for me and it's tough enough. On the stickometer 8/10		Noel Oh, it's horrible — <i>Monty</i> , just doesn't work with it. I'd get more response from a garden gnome. On the stickometer 4/10		Noel Shock, horror — it reacts quite well with <i>Fist</i> . You wouldn't think it was the same joystick. On the stickometer 6/10		Noel Reacts really well. I've just beaten my all-time high score. I might even buy one! On the stickometer 9/10
Martin	Not much cop for this sort of game. The rotation of the shaft makes it pretty awkward to use. On the stickometer 5/10		Martin It's too stiff, very slow and unresponsive. But the design is quite good so I'll be gentle. On the stickometer 5/10		Martin Don't like it a great deal, it's a bit too stiff. You get massacred using this one for <i>Fist</i> . On the stickometer 4/10		Martin Reactions are quick enough but the shaft's too small. You won't find me buying one. On the stickometer 3/10
Darren	Don't really like this one — the fire button is much too stiff to be of any use in this game. On the stickometer 7/10		Darren Better in this game, possibly because everything doesn't go so fast. Still not impressed. On the stickometer 7/10		Darren Oh dear . . . maybe the fire button has actually packed up. Not a good mark in my book. On the stickometer 5/10		Darren It's a good joystick (<i>The fire button must still have been working!</i> Ed). Good response. On the stickometer 7/10
Noel	Well it's very nice but it tires your arm out after only a few waggles of the shaft. On the stickometer 7/10		Noel It's quite good. It's got fast action and a good grip design. I like it even if they don't. On the stickometer 8/10		Noel Quite a good joystick (<i>The fire button must still have been working!</i> Ed). Good response. On the stickometer 7/10		Noel Reactions are quick enough but being left handed I find it quite awkward to use. On the stickometer 5/10
Martin	It's got nice fire buttons and a good reaction but it doesn't seem to work with <i>Supertest</i> too well. On the stickometer 5/10		Martin It's very pretty but I don't think much of the overall effect. The controls seem a bit dodgy. On the stickometer 4/10		Martin It's a pretty design but being left handed I find it quite awkward to use. On the stickometer 5/10		Martin Reactions are quick enough but being left handed I find it quite awkward to use. On the stickometer 5/10
Darren	Well it's easy to grip and easy to fire. I quite like the stylish design too. On the stickometer 7/10		Darren It's a smooth joystick, but I don't reckon it works too well with this game. On the stickometer 6/10		Darren Another one of the joysticks has packed up on me this time the directional controls are up the spout! On the stickometer 3/10		Noel It's got quite good reactions and responsive diagonal controls. Good joystick. On the stickometer 8/10
Noel	It's got very quick reactions and an excellent grip. I'll go for this one any day. On the stickometer 8/10		Noel It's the best designed joystick of the pack and to top that the reaction speed is fast too. On the stickometer 8/10		Noel It's got quite good reactions and responsive diagonal controls. Good joystick. On the stickometer 8/10		Noel Reactions are quick enough but being left handed I find it quite awkward to use. On the stickometer 5/10
Martin	It's so easy to win on <i>Supertest</i> — you only have to shake the joystick vigorously! On the stickometer 10/10		Martin It's a lot of hard work stopping Monty running into things when you haven't got a leg to stand on. On the stickometer 6/10		Martin Terrible! Very hard to judge where it is and diagonals are high-on impossible to achieve. On the stickometer 2/10		Martin Reactions are quick enough but being left handed I find it quite awkward to use. On the stickometer 5/10
Darren	Excellent joystick to use with <i>Supertest</i> — I've got my best score ever on nearly all the games. On the stickometer 10/10		Darren It's much too awkward to use in this game — you really can't control what's happening. On the stickometer 5/10		Darren I think it's quite good but if you get too excited then you might lose track of where you are. On the stickometer 8/10		Noel Very slow reacting — I reckon it's a miss for <i>Fist</i> . (<i>More, Adrian Mole poetry nun?</i> Ed.) On the stickometer 4/10
Noel	Ideal for this game, you only need to wiggle the joystick — it's that simple! On the stickometer 10/10		Noel Ooops — no good for Monty as he keeps running off the end of all the platforms. On the stickometer 3/10		Noel Very slow reacting — I reckon it's a miss for <i>Fist</i> . (<i>More, Adrian Mole poetry nun?</i> Ed.) On the stickometer 4/10		Martin A good stick with an easy-to-handle shaft but the choice of either top or bottom fire button is naff. On the stickometer 7/10
Martin	Well it's a good joystick and it's got a decent sized base to grab hold of. Bigger is better, eh? On the stickometer 8/10		Martin Directional control on this joystick is quite good. Unfortunately the top button lets it down. On the stickometer 6/10		Martin Directional control on this joystick is quite good. Unfortunately the top button lets it down. On the stickometer 6/10		Darren The buttons are good although I'd have preferred to use both. Works well with <i>Fist</i> though. On the stickometer 9/10
Darren	I don't think the vigorous action of <i>Supertest</i> is going to do this one any favours! On the stickometer 5/10		Darren The shaft's the right size, it's the right shape and offers good control. Just right for platforms. On the stickometer 9/10		Darren Well apart from getting a little too sweaty in my paw, this one works really well. On the stickometer 8/10		Noel You can really kick the proverbial out of the other player with this stick. Very responsive! On the stickometer 9/10
Martin	Brilliant joystick to use with <i>Supertest</i> — very sturdy and reactions are fast. On the stickometer 9/10		Martin Even worse than with <i>Supertest</i> . The movement control is absolutely tosh. Double ugh! On the stickometer 1/10		Martin It's not really very practical. As joysticks go, this one's more of a novelty than anything. On the stickometer 2/10		Darren Seems to work better with <i>Fist</i> than with any of the other games. Quite a good score with this one. On the stickometer 8/10
Darren	It's really useless for this game — how can you do left/right quickly on a membrane? On the stickometer 4/10		Darren It reacted well but took the skin off the end of me finger while rubbing. On the stickometer 6/10		Noel It's useless with platforms as you can't change direction accurately enough. On the stickometer 4/10		Noel Reactions are quick enough but the shaft's too small. You won't find me buying one. On the stickometer 3/10

SPOT THE DIFFERENCE



This Spectrum has ZX Basic.



This Spectrum has YS
MegaBasic with ...

YS →
50 New Commands
Named Procedures
On-Screen Windows
64 Column Text
Full Screen Editor
Smooth Moving Sprites
Programmable Function Keys
Machine Code Monitor
Multi-tasking Subroutines
Background Sound
Line Number Tracing
AUTO Line Numbering
REPEAT...UNTIL Loops
DELETE Line Range
Full Machine Code CALLs
Double-Length POKE
Break Key Control
Three Fonts
User-Defined Character Sizes
Downwards Printing
Character Stipples
Attribute SWAP, FADE and CHANGE
Window PAN, SCROLL and INVERT
Improved Line Editor
...And 22K User Memory
and of course everything that's in ZX Basic!
PLUS FREE Sprite Designer

YS MEGABASIC

YS MegaBasic is only available direct from the Your Sinclair Mail Order department. It comes on cassette complete with 30 page manual and is fully microdrive compatible. To order, complete this coupon and mail it with a cheque or postal order for £9.95, payable to Sportscene Specialist Press, to YS MEGABASIC OFFER, PO BOX 320, LONDON N21 2NB. (BLOCK CAPITALS PLEASE)

Name

Address

..... Postcode

Phone

Please allow up to 28 days for delivery.

Transported to the 21st century, Peter Shaw braved the icy wastelands of Carpenters Road, Stratford. There he stole the storyboard for CRL's new megagame, Blade Runner.

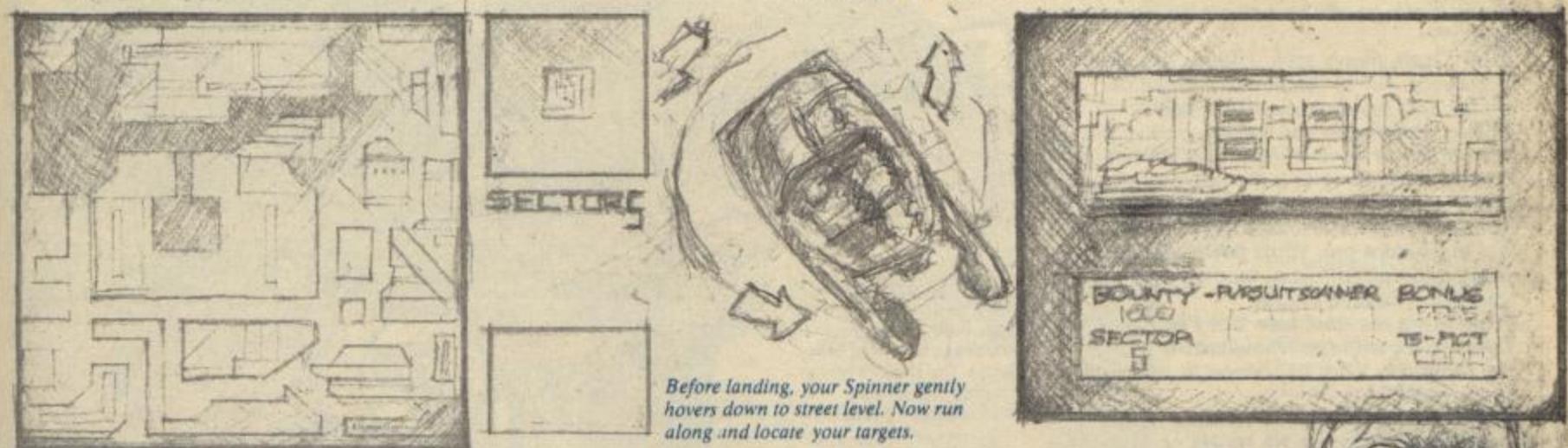
BLADE RUNNER

SCOOP
PREVIEW

Los Angeles, Sector 5. The match spurted to life, briefly illuminating the interior of my Spinner. I drew deeply on the Marlboro. This was gonna be tough — tougher than the Fats Cox Caper. Outside the rain slank down. A night to rust any replicoids circuits. If only it was that easy to air out those more than human robots . . . Somewhere in the dark four droids were out to eliminate their creators, the cyberneers. It was my job to 'retire' them before the deed was done. It would be a dirty business. But then, for me, Deckard, killer, cop and bladerunner, dirt was my business. I was a bin man.



It'd be a messy mission. I was all ready to cash my chips for an early retirement when the Reps alarm sounded. And now they'd called me up for just one hit more before I could draw my pension. If I wasn't successful with this then they wouldn't let me hang up my retros.



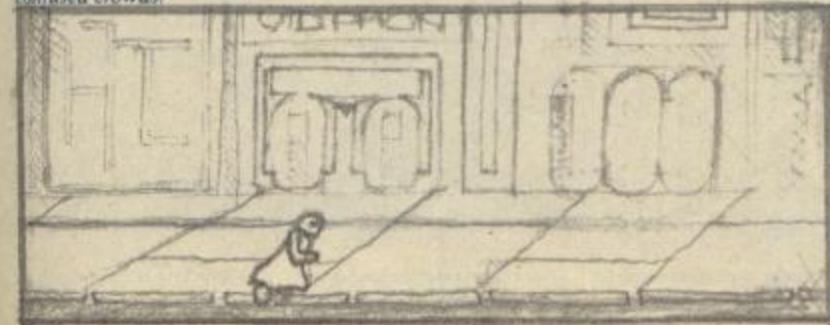
Before landing, your Spinner gently hovers down to street level. Now run along and locate your targets.

Here's the main on-screen view of your Spinner's control panel. You'll find here your own location and that of the reps and cyberneers.

There's nine sectors to this hell hole of a town. Of all the sectors, of all the cities in all the cosmos the Reps have to hang out there. The monitor in my Spinner will locate them, but only if I'm in their sector . . . I gotta go . . . there's one now . . .

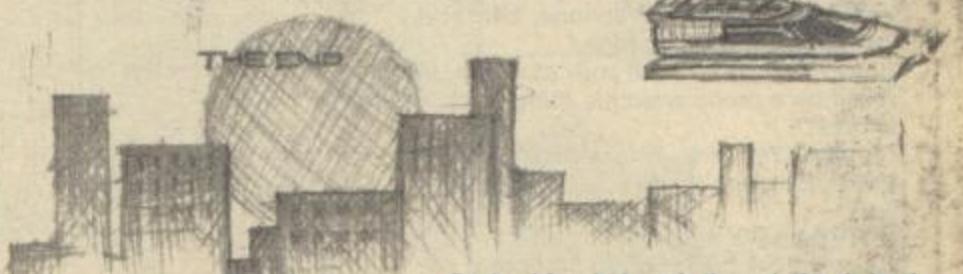
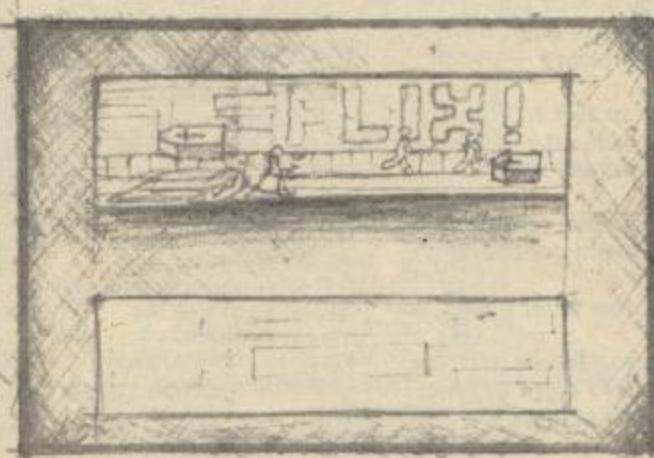
Down on the sidewalks you have to avoid the oncoming Spinners and pedestrians. Over the years as cop and killer there's not a lot you don't pick up on the streets. Savvy? Your best bet is to run along the gutter. They don't teach green horns that at the Academy. The Reps will usually run into your firing line through pure ignorance.

The city streets are full of danger. Avoid other Spinners and being trampled by the confused crowds.



And another one bites the dust. The Reps go down on Nexus 1 faster than Bacall does on Bogart in The Big Sleep. But to reach my retirement salary, I have to pass Nexus 6. Blade Running is really bounty hunting with a fancy name. I give Replidroids a taste of paradise.

I pulled up the Spinner here. On this level the Reps are pretty dumb . . . pretty, but dumb . . . like the blonde I met down at Rick's place . . . heh, now where's my wallet? These Reps get very confused at corners — so catching up with one is as easy as taking candy from a baby.



Deckard fought bravely through the six levels of Nexus Replidroids. He sustained injuries that could've proved fatal. But once he'd reached that retirement figure he slipped aboard his Spinner to level the city for the last time. Ex-cop, ex-killer, ex-bladerunner . . . until the next time.

Screenplay
Research, Best Boy and Grip
Camera
Continuity
Gaffer

Rick Robson
Pete Shaw
Martin Dixon
Teresa Maughan
The Ed

THE YOUNG ONES

Hey guys! This is really heavy man — I dreamt I was put into a computer game. Oh wow, technofear! YS girlie Teresa Maughan gets into the groove, man!

Rick "Hi there kids. It's me Uncle Rick just itching to tell you about The Young Ones game that's gonna be out on the Spectrum soon!"

Neill "Yeah, heavy man. Seems, like, we've gotta race out of the house with all our things and the first one out wins."

Mike "Steer clear you guys — you've got the choice of controlling any of us but take it from me Mikie's the coolest!"

Vyvyan "Shut up pizza-face! Those complete-and-utter-bastards are trying to get out before me. You'd better get me out first or I'll cut both your legs off and then you'd be 'armless. Ha Ha!'"

Neill "It's a real bummer 'cos I've been dumped on with the wheelbarrow to put my things in. What happened to peace and unity, man?"

Rick "That's 'cos you're a stupid hippie-pants and you smell. Ha Ha Ha eh you nerdies?"

Mike "Cool it guys, just cool it!"

Vyvyan "Well I'd just like to say if anybody moves out of this house before me I'll kill him. Yes and then I'll mash up his brains and feed them to SPG!"

Rick "Crikey I think I'm going to be sick!"

Vyvyan "Shut-up you girly-face pervert!"

Neill "Oh wow! We can talk to each other, like, with speech bubbles. Heavy — this is communication man."

Rick "Why would I want to talk to you farty breath? Ha! This is brilliant — I can open nearly everything and see what's inside. Right mateys?"

Mike "Ugh! Like a pair of your soiled underpants. The idea is to stay cool and grab what you need."

Vyvyan "Scumbags! I know what I need, a drink!"

Mike "Mike the cool person would just like to say we've got to complete eight or nine tasks in order to get all the objects we need."

Neill "Wow there's everything in this game, my lentils, bogies, a telephone, kitty and yeah Rick's anarchy badge."

Rick "I can try and get your stuff too, that would be a pretty anarchic thing to do eh nerdies?"

Vyvyan "You girly. You wouldn't know if your belongings came and farted in your face."

Neill "Yeah, he would. This game is full of clues and the poster gives hints too. Wow!"

Mike "But you've gotta be cool to spot them. I need the loud tie."

Rick "And I need the girly dress."

Neill "Heavy, heavy, heavy."

Vyvyan "Well I would like the bomb to kill everyone with. Berilliant!"

Rick "Nob-face! What did you set it off for?..aaaaaarrrrggggghhh!"



Wow! If this is what the game looks like I'll eat my festering socks. Yeah, it's amaaaazing. It's a total freakout with plenty of heavy vibes. Far out, like me. Wow I feel like I'm floating above my body looking down on what I'm doing... really transcendental!



Each screen is split into two with one room on the top and one on the bottom. Here's Mike's room and the lounge. Neill is wandering around looking for objects to put into his wheelbarrow. The speech bubble tells you what he's thinking. These will provide clues throughout the game.

Wow! This is Narnia, a truly beautiful place — the only way to get in here is the wardrobe. You'll find all sorts of interesting objects like the Ankh for example.



It's totally anarchic in Rick's bedroom. There's a piggy bank, guitar and girly dress amongst other things. The dress'll come in handy if you're a transvestite — crikey!

Fantastic, a record player. If you don't fancy the musical accompaniment just turn it off. Rick will keep turning it on again so you'll just have to smash it to pieces. Serve that girly right!

Rick's bed — pooh! If you've got a strong stomach try opening it. Bet you wish you hadn't now — it's a pair of filthy underpants — sick!

These guys are so mad they don't care what they do! They've got an animal — SPG even though the lease says 'no pets'. Maybe he'll come in handy for one of the tenants.

• Switch on the TV for a clue as to what to do. The adverts are often more interesting than the programmes and give you hints.

Life is for living 100 percent
Feed your cat don't pay the rent
He will love our frozen peas
It'll open the sluices and kill the fleas.
This ad gives you a bird's eye view on what to do with the peas.

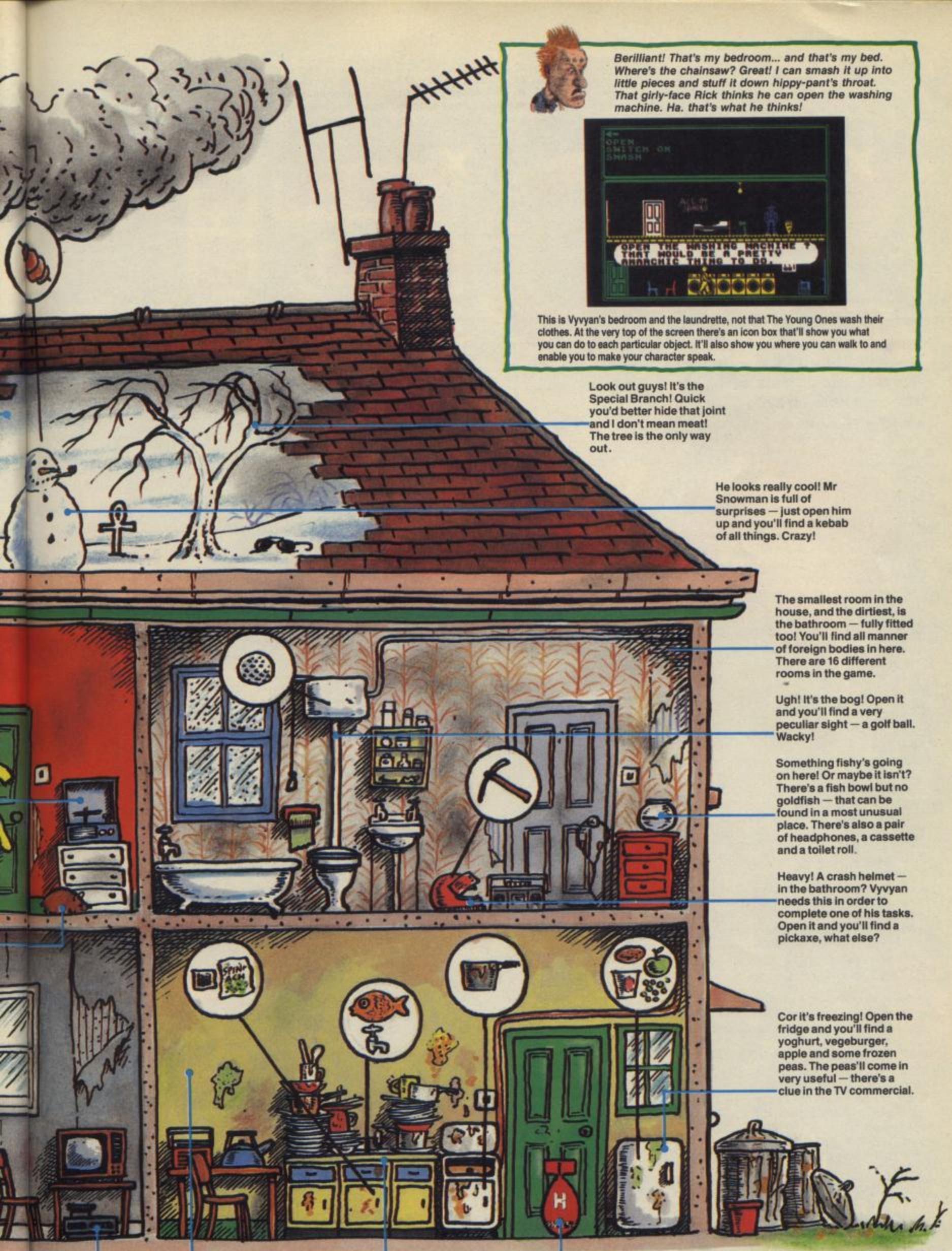
NICK DAVIES

Each character needs the right container to carry all his belongings out of the house. Vyvyan uses the bin liner for his junk. Maybe he could get rid of Rick, Mike and Neill too!

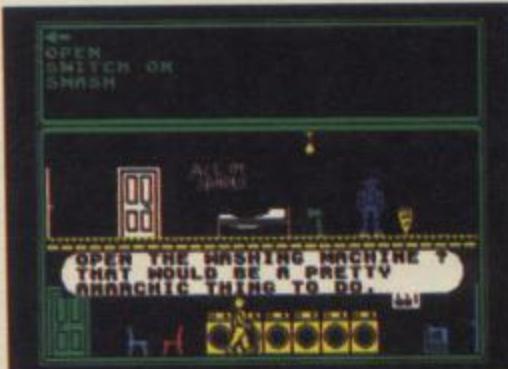
This room certainly looks pretty lived in — more like died in really. Oooh a sofa, lamp, walkman and television.



Hah! The video recorder. Berilliant — now Vyvyan can watch video nasties all day long. Really, gruesome, sick, bloody ones — yum.



Berilliant! That's my bedroom... and that's my bed. Where's the chainsaw? Great! I can smash it up into little pieces and stuff it down hippy-pant's throat. That girly-face Rick thinks he can open the washing machine. Ha. that's what he thinks!



This is Vyvyan's bedroom and the laundrette, not that The Young Ones wash their clothes. At the very top of the screen there's an icon box that'll show you what you can do to each particular object. It'll also show you where you can walk to and enable you to make your character speak.

Look out guys! It's the Special Branch! Quick you'd better hide that joint and I don't mean meat! The tree is the only way out.

He looks really cool! Mr Snowman is full of surprises — just open him up and you'll find a kebab of all things. Crazy!

The smallest room in the house, and the dirtiest, is the bathroom — fully fitted too! You'll find all manner of foreign bodies in here. There are 16 different rooms in the game.

Ugh! It's the bog! Open it and you'll find a very peculiar sight — a golf ball. Wacky!

Something fishy's going on here! Or maybe it isn't? There's a fish bowl but no goldfish — that can be found in a most unusual place. There's also a pair of headphones, a cassette and a toilet roll.

Heavy! A crash helmet — in the bathroom? Vyvyan needs this in order to complete one of his tasks. Open it and you'll find a pickaxe, what else?

Cor it's freezing! Open the fridge and you'll find a yoghurt, vegeburger, apple and some frozen peas. The peas'll come in very useful — there's a clue in the TV commercial.

Hey, this is the room where Neil sows the seed and produces all sorts of lentil delights. You'll find a cooker, sink, fridge and cupboards — all mod cons! But just look at that washing up!

What next? You can even open the sink — heavy! Blimey, there's a tap and a goldfish inside. Berilliant!

Crikey it's a bomb! Probably one of Vyvyan's — you'd better watch your step! There's a radio in the kitchen too — this might come in handy.

FAX BOX

Game	The Young Ones
Publisher	Orpheus
Price	£7.95

Program Techniques



**Amongst 300 worlds lie 30 Sentinel Bases.
Legend has, they are impossible to reach . . .**

XCEL. A stunning new game from Program Techniques, featuring state of the art hi-res graphics and movement. Available from all good software retailers for the 48K Spectrum, coming soon for the C64 and Amstrad.

R.R.P. £7.95

DISTRIBUTED BY ACTIVISION (U.K.) Ltd.

DEFY THE LEGEND!

PROGRAM

TIME TRAVEL

"DAVE ROGAN LIVED IN LONDON 1986. HE WROTE A TIME TRAVEL GAME PROGRAM WHICH TURNED OUT TO WORK MUCH BETTER THAN HE EXPECTED. IT SENT HIM TO THE LONDON OF 2086."

- LOCATE RANGE - VECTOR 2
- ARM... LASER.
- TERMINATE.

WHERE THE HELL AM I?

○ SPECIMIN. ORGANIC #6 - NON ESSENTIAL

THEY FALL FOR THIS OLD TRICK...

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



SCRIPT: MAMO, ART: WILLIAM SIMPSON, LETTERS: ANNIE HALFACREE.



TO BE CONTINUED.

TWO
EPSON FX80
Printers to be WON

Interactive BASIC Programming 48K ZX Spectrum & Spectrum +



Don't let books blow your mind, use your computer to teach
you BASIC - what could be easier?

The only ZX BASIC programming course that runs in your Spectrum and gives you complete control over the computer.

Learn BASIC with your hands on the keyboard, not with your head in a book!

IBP consists of twelve programs called Learning Modules. Altogether more than 250K long! Whilst using a Module you will have complete control over your computer. So when IBP explains, for example, how to use the BEEP command you can try it out there and then before continuing. You will be asked to write programs throughout IBP. Don't worry though, you can call on two hints for each program and then get IBP to put its own solution into BASIC for you to look at and RUN. There are eighty programs like this. Many demonstration programs are given, also.

"The great thing is that it teaches you programming in the environment where it is meant to be - on your TV screen, not in a book ... I thoroughly recommend this ..." - Liverpool Echo, 27/4/85

"It's such a good idea that I'm surprised nobody thought of it until now ... the answer to many prayers ... invaluable." - Popular Computing Weekly, 4/4/85

"An educational programme which shows real inventiveness ... whilst you are using it all the normal BASIC functions are available to you!" - Popular Computing Weekly, 7/3/85

"...easier to understand than the Sinclair manual." Overall rating: 95% - Personal Computing Today.

The whole Interactive BASIC Programming package costs £9.95.
If your computer shop does not stock Interactive BASIC Programming then send £9.95 for the package by return of post (p & p free) to:

Eigen Software
45 Bancroft Road, Widnes, Cheshire. WA8 0LR
051 - 423 6201

Personal callers welcome.

$\hat{H}\psi = E\psi$

EIGEN SOFTWARE *create reality*

TASK FORCE

Are your routines just a little too routine? Are your listings feeling listless? Task Force, the programmer's noticeboard, can aid your recovery.

One of the great things about YS readers is that you can never refuse a challenge! Last month I asked you to show off your great programming skills and wow!

First past the post was **Renato Campos** from Portugal. He's sent in a snippet that'll blow the minds of all those brainboxes who say you can't have recursive functions in Basic — that is, a function that'll calculate the factorial of any number. And what's a factorial? Well, type it in and work it out for yourself! It's only one line.

```
10 DEF FN f(n)=n*VAL ((  
"1" AND n<=1)+(FN f(n-1)  
" AND n>1))+n=0)
```

And you'll be chuffed to know that this is one in the eye for *@!* owners, 'cos their Basic can't do that! Renato also asks why DEF FN f(n)=n*((n-1)+ VAL ("FN f(n-1)" AND n-1)) won't work. Well I don't know? Have you any ideas? Oh yes, and one last question from Renato — has anybody ever found a use for VAL\$?

Next comes Paul Brain in search of a favour — does anybody have a short mc routine to do graphics dumps via Interface 1 to an Epson-type printer. So, all you other brains out there, what about it? To give you all a start, here's a short program from **Philip Barton** of Camberley. It'll do a hi-res screen dump to a Brother HR5 printer from Basic! I guess it'll work just as well

with an Epson or Epson-compatible printer, though you find it a little bit on the slow side — so come on all you machine code freaks...

```
10 OPEN J3;"b"  
20 LET op=22496: LET op  
p=20480  
30 LET nop=20448: LET n  
opp=18432  
40 LET lop=18400: LET l  
opp=16384  
50 FOR a=0 TO 31  
60 LPRINT CHR# 27;"A";C  
HR# 8;CHR# 10  
70 LPRINT CHR# 27;"K";C  
HR# 192;CHR# 0  
80 LET p=op: LET pp=opp  
90 FOR b=0 TO 7  
100 FOR c=0 TO pp STEP -  
256  
110 LET n=PEEK c  
120 LPRINT CHR# n;  
130 NEXT c  
140 LET p=p-32: LET pp=p  
p-32  
150 NEXT b  
160 LET np=nop: LET npp=  
nop  
170 FOR b=0 TO 7  
180 FOR c=0 TO npp STEP -  
256  
190 LET n=PEEK c  
200 LPRINT CHR# n;  
210 NEXT c  
220 LET np=np-32: LET np  
p=npp-32  
230 NEXT b  
240 LET lp=lop: LET lpp=  
lop  
250 FOR b=0 TO 7  
260 FOR c=0 TO pp STEP -  
256  
270 LET n=PEEK c  
280 LPRINT CHR# n;  
290 NEXT c  
300 LET p=p-32: LET pp=p  
p-32  
310 NEXT b  
320 LET op=op+1: LET opp  
=opp+1  
330 LET nop=nop+1: LET n  
opp=nopp+1  
340 LET lop=lop+1: LET l  
opp=lopp+1  
350 NEXT a  
360 LPRINT CHR# 13;CHR#  
10;  
370 CLOSE J3  
380 STOP
```

Right, hands up all those who've noticed that the above program can be shortened a bit by using a GOSUB? You haven't? Well look at lines 90 to 150; 170 to 230 and 250 to 310. The only problem is that c is initialised to different variables. If Philip had recast his program only slightly, you could have saved yourself a bit of typing. Try this.

```
80 LET p=op: LET pp=opp  
100 GO SUB 1000  
110 LET p=nop: LET pp=nop  
pp  
120 GO SUB 1000  
130 LET p=lop: LET pp=lo  
pp  
140 GO SUB 1000  
150 LET op=op+1: LET opp  
=opp+1  
160 REM etc...  
1000 FOR b=0 TO 7  
1010 REM same as lines 90  
-150  
1060 NEXT b  
1070 RETURN
```

Next comes a couple of readers with the same problem — they both want to save the whole screen. **David Crawford** from Edinburgh had a great idea

for a way to save the whole program as mc with the screen. So here goes:

```
1 prepare screen and save as  
SCREEN$  
2 load Basic prog. and add a  
line 9999 SAVE "name"  
CODE 16384,8500: GOTO n  
(start line no)  
3 load SCREEN$ then GOTO  
9999.
```

The only trouble is, it won't work if you have the Interface 1 connected or if the program's longer than about 1100 bytes! Why? Well $16384+8500 = 24884$. And Basic starts at 23755 and that's without Interface 1. It'll also get into a tangle with Interface 1 connected, since it creates special system variables, and they would confuse an unexpanded Spectrum. Still, if the Speccy were expanded, you wouldn't need it anyway, would you?

Jim Grimwood has a similar idea. He wants to save the screen (including the bottom two lines) without getting into a tangle with the "Press any Key" message. He's written some machine code to do it.

If we combine the two ideas, we can get a piece of code that'll save a whole program to tape as machine code, including the whole of the screen without overriding the bottom two lines.

```
0010 ORG 40000  
0020 START LD HL,LEN-START  
0030 ADD HL,BC  
0040 EX HL,DE  
0050 LD HL,SPARE  
0060 LD (HL),E  
0070 INC HL  
0080 LD (HL),D  
0090 LD HL,HDR-START  
0100 ADD HL,BC  
0110 PUSH HL  
0120 POP IX  
0130 XOR A  
0140 LD DE,(ELINE)  
0150 LD HL,16384  
0160 EX HL,DE  
0170 AND A  
0180 SBC HL,DE  
0190 EX HL,DE  
0200 LD HL,(SPARE)  
0210 LD (HL),E  
0220 INC HL  
0230 LD (HL),D  
0240 LD DE,17  
0250 CALL SAVE2  
0260 LD B,50  
0270 WAIT HALT  
0280 DJNZ WAIT  
0290 LD IX,16384  
0300 LD A,255  
0310 CALL SAVE2  
0320 RET  
0330 HDR DEFB 3  
0340 DEFS 10  
0350 LEN DEFW 00  
0360 DEFW 16384  
0370 DEFW 0  
0380 ELINE EQU 23641  
0390 SAVE2 EQU 1218  
0400 SPARE EQU 23726  
0410 END
```

I've changed Jim's program slightly so that it's totally relocatable. And now it'll save the whole Basic program including the variables. To use the machine code, type in:

```
9000 INPUT "what name ?";  
f$  
9010 LET mc=(code location  
n)+58  
9020 LET len=LEN f$: IF 1  
>len OR len>10 THEN PRIN  
T J0;AT 1,0; FLASH 1;"Inv  
alid filename - No save";  
PAUSE 0: GO TO 9000  
9030 FOR a=1 TO len: POKE  
mc+a,CODE f$(a): NEXT a  
9040 FOR a=a TO 10: POKE  
mc+a,32: NEXT a  
9050 LOAD ""SCREEN$": PAU  
SE 0  
9060 RANDOMIZE USR (code  
location)  
9070 GO TO start of progr  
am
```

As Jim says in his letter, we hope your minds are suitably boggled! If you're wondering why you save the program as if it were code. It's simple — it can't be Merged and that makes it just a bit harder to hack into.

Before you use it, position a tape with the required screen and when the border starts flashing for a Load, start the tape. Once it's loaded, the program will wait for a keypress, without a prompt, and as soon as a keypress is given, Save the lot — so be sure you've started the tape in Record mode before pressing a key.

Peter Craik from St Andrews sent in a crafty little snippet but I found an interesting little bug in it. See if you can find it and then send me in your corrections.

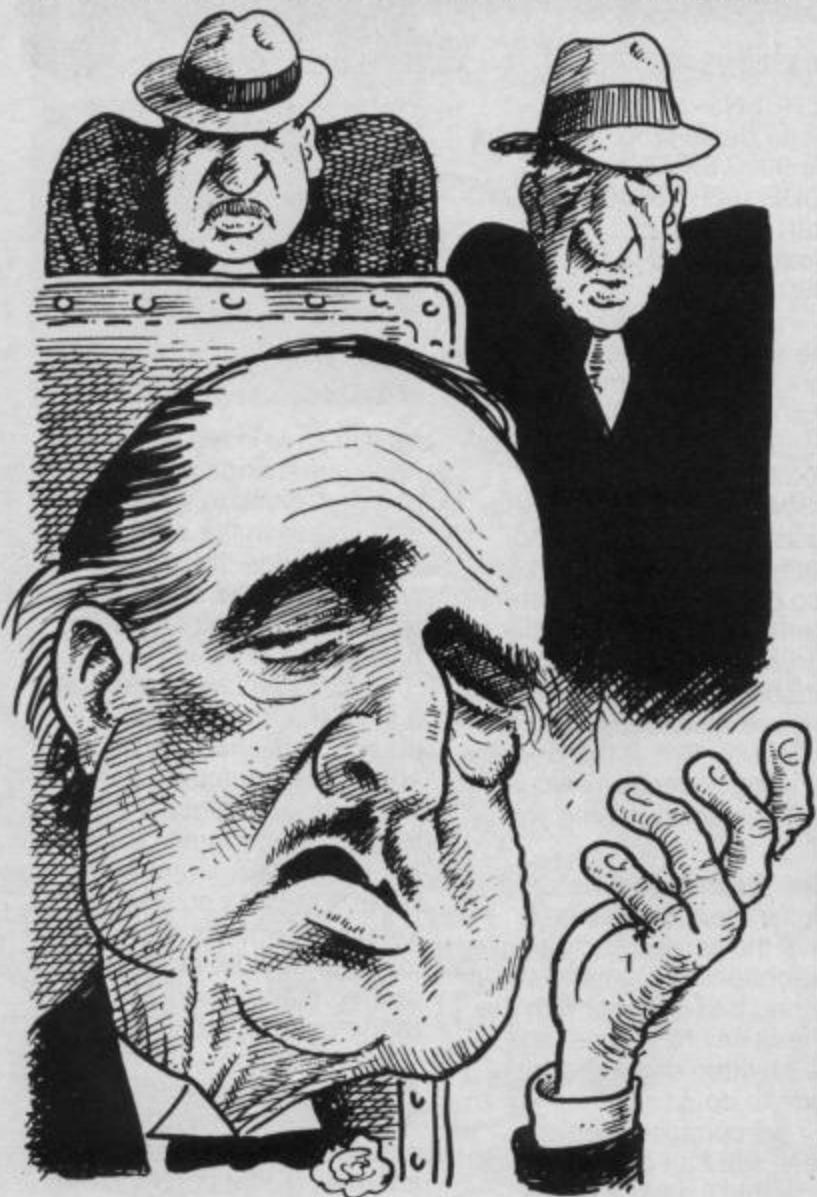
```
10 LET ad=60160  
20 LET a$="The fastest  
BASIC scroll around!"  
30 FOR b=1 TO LEN a$: L  
ET c=ad+(b*16)=16: LET e=  
CODE a$(b): LET f=15616+(  
e*8)-256: FOR d=1 TO 8: P  
OKE d+c-1,PEEK (f+d-1): N  
EXT d  
40 NEXT b  
50 POKE 23607,(ad/256)-  
1  
60 LET b$="": LET c$=""  
70 FOR a=32 TO 32+(LEN  
a$*2)-1 STEP 2  
80 LET b$=b$+CHR# a: LE  
T c$=c$+CHR# (a+1): NEXT  
a  
90 LET c$=c$( TO 32)  
100 FOR a=20 TO 0 STEP -  
1: REM 20=start position,  
0= finish  
110 FOR b=1 TO 8  
120 POKE 23606,b  
130 PRINT AT a,0;c$:AT a  
+1,0;b$  
140 NEXT b: NEXT a  
150 POKE 23606,0: POKE 2  
3607,60
```

Hmmm, a very nifty way of doing the impossible in Basic!

Now, let's see if any of you can improve on this month's routines — or add some of your own. By the way, some of the programs are still a bit long, so try and keep 'em short and interesting.

Send your programs to Ian Hoare, Task Force, Your Sinclair, 14 Rathbone Place, London W1P 1DE.

AN OFFER YOU CAN'T REFUSE...



Pssst! Here on Your Sinclair we're one big happy Family. Thass why we're gonna give you one last chance to pay your subs. Send us the measly sum of £12 before February 28th and we'll say no more about it — for another year. Issa sort of protection money — we carefully protect your copy of YS and deliver it to you. But leave it another month and we'll be back to 'ask' you for £15.

So, send us your subscription at this less than extortionate rate to Your Sinclair Subs, 14 Rathbone Place, London W1P 1DE. Otherwise we might have to send the boys round.

SUBSCRIPTIONS: PRIORITY ORDER FORM

I would like to subscribe to Your Sinclair. Please start my subscription from.....

Please tick appropriate boxes:

- One year £12 UK and Eire
- One year £15 Europe
- One year £25 rest of known cosmos

I enclose my cheque/postal order payable to Sportscene

Specialist Press Ltd for £.....

Please charge my Access/Visa/American Express/

Mastercharge card number
(Delete where applicable)

Signature
(credit card orders cannot be accepted without a signature)

Name

Address

Send the completed form with payment or credit card number to: Your Sinclair Subs, 14, Rathbone Place, London W1P 1DE. If you don't want to cut up your magazine, use a photocopy of this coupon.

Sick of all your listings and those loose sheets of info getting lost! ! !

DATA BINDERS

Heavy duty, large capacity A4 binder with front and side pockets. Printed insert cards for easy identification. Comes complete with contents page and divider sheets. Colours - Black or cream to suit Micro.



£5.95

QuickShot II

£6.99

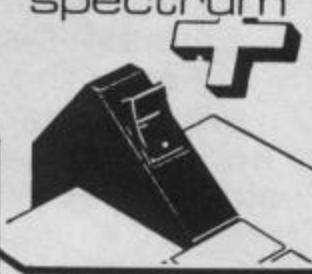
KEMPSTON INTERFACES
Standard: £9.75
Tristate: £12.45
Professional: £16.45



on-off switch

for spectrum
and spectrum

£4.95



All prices include post & packing

Please send me:

..... Qty... £.....

..... Qty... £.....

..... Qty... £.....

My Computer is a Total: £.....

Please make cheques payable to TEC Publications, 24 Victoria Rd, Bromsgrove, Worcs, B61 0DW.

Name.....
Address.....

Dealer Enquiries Welcome Tel (0527) 74567

RELAX!

This issue's programs
are already on tape...

Save your time, energy and sanity when you load direct from **DigTape** cassette, this month's program listings (as marked).

Create your own collection of games and utilities which will prove invaluable for years to come and will look superb when added to your own library.

This unique service, provided by **DigTape** in conjunction with **YOUR SINCLAIR**, is to increase the enjoyment for the readers. This service will be available every month.

Back issues, from July 1985 on, will be available on request.

Telephone Orders: ACCESS
CARD Holders ring
(0792) 799193



DIGITAPE™

Please rush me my official copy of **YOUR SINCLAIR** **DigTape** cassette issue No. (see front cover). I have enclosed a cheque/p.o. for £2.99 (3.99 for Overseas) OR please debit my ACCESS Card No. _____ Name _____

Signed _____ Address _____

Send to: **DigTape**, Freepost,
Swansea SA5 5ZJ
(no stamp required)

BLADERUNNER COMPO

Are you a better bladerunner than Harrison Ford? You'll need a steady hand and a sharp eye if you're to spot all the robots in the picture and win one of the great prizes on offer from CRL.



I pulled up my Spinner at the diner. The name's Shovel. Sam Shovel. Private dick and amateur bladerunner. I took a draught of root beer. All night now I'd wandered the city sidewalks in search of a Master Set. Then I could build my own robot, complete with four motors. Worth a hundred bucks of anybody's money. But I'd had no luck — I'd just have to win it in the YS compo based on CRL's new game *Bladerunner*. I might even walk off with one of the thirty copies of the game on offer to the runners-up.

All I had to do was be a bladerunner — right up my street. I'd just take a look at the picture and identify how many different robots are tucked away in it — not just the whole ones 'cos they're a piece of cake but also the sneaky devils that try to disguise themselves. You can have a go too — put a ring round each robot you spot then clip the page and send it to Bladerunner Compo, Your Sinclair, 14 Rathbone Place, London W1P 1DE. There are plenty of prizes for everyone — just so long as I take off with the main one, mind. I'll show that Harrison Ford!

Now was that a replidroid mugging that little old lady? I took another bite of pastrami. Hell fire, a bladerunner's never off duty, I raised my mega-magnum. "Make my day droid." "Aren't you in the wrong film?" it squealed. But I still blew it away. Hell, no one likes a smartass. And dead droids tell no tales.

Replidroid Rules OK

Entries must reach us by February the...em...ur...thirty days has September..er, ah...yes — the 28th. All entries must include the number of droids you've spotted ringed on the piccy and that number should be on the back of the envelope.

The Ed won't enter into any correspondence about the competition. Robots can't write!

I've spotted droids in the piccy and anyway I'm a lot hunkier than Harrison Ford.

Name.....

Address

.....

..... Postcode

Now cut the page (or a photocopy) and send it to the Bladerunner Compo, Your Sinclair, 14 Rathbone Place, London W1P 1DE. And remember to write the number of robots on the back of the envelope.

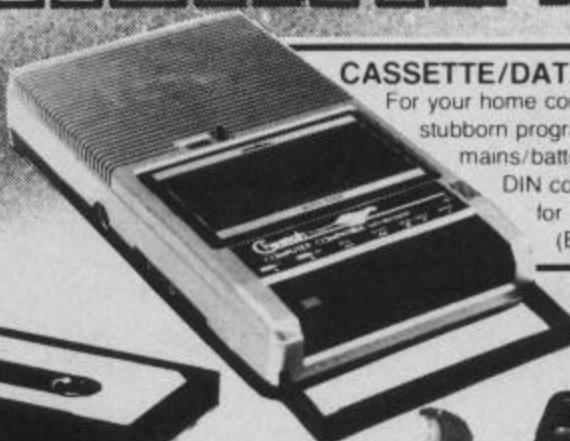
PERIPHERAL POWER



CHEETAH "SWEET TALKER"

Based on an allophone system, program any word or phrase, providing unlimited speech. Now make your Spectrum talk. Compatible with Interface I & II and Spectrum +

£24.95



CASSETTE/DATA RECORDER

For your home computer, will allow easy loading of even the most stubborn program. Features include single key record, mains/battery, accepts standard computer leads and 5 pin DIN connector. Also provides exceptional audio quality for fine listening. (Batteries not included)

£24.95



125 JOYSTICK

Compatible with ZX Spectrum. Four extremely sensitive fire buttons. A built in auto-fire switch provides continuous shooting at the touch of a fire button

£8.95

SPECTRUM JOYSTICK INTERFACE

Simply plugs into the user port at the rear of the computer and accepts any Atari style joystick including Quickshot and Kempston. Comes without rear edge connector at or with connector which allows other peripherals to be stacked up at

£9.75

£12.75

MEGASOUND

For 48K Spectrum and ZX Spectrum. Achieve amazing sound capabilities that your Spectrum has been lacking. Just plugs into the user port at the rear of your computer and amplifies sound through your T.V.

£10.95

56 WAY EXTENSION CONNECTOR

Cheetah's 6" long extension cable enables Spectrum peripherals to be distanced from your computer

£7.95

AERIAL SPLITTER

Cheetah's neat splitter unit complete with self adhesive pad allows you to keep your T.V. and computer aerial leads plugged in without disturbing the picture

£2.25



SPECDRUM

8 digitally recorded real drum sounds. Extra sounds can be loaded from tape, creative, educational and fun. The most exciting peripheral ever developed! (only available from Boots)

£29.95

HI-STAK FEET

These instantly applied stick on feet for your ZX 81, Spectrum, New Brain, VIC, TRS etc. tilt the computer and make your keys easier to see and more enjoyable to use, allowing smoother programming.

£2.99

All Cheetah Peripherals have rear edge connectors for compatibility with all Sinclair accessories.

R.A.T.

The Cheetah Remote Action Transmitter is the most sophisticated computer controller available! Infrared transmission - so there are no leads trailing across the living room. Touch control, extremely fast, can be used with Cheetah RAT/ Kempston compatible software. Complete with receiver/interface.

£19.95

Prices include VAT, postage & packing.

Delivery normally 14 days.

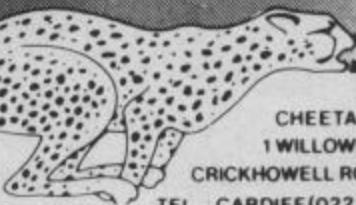
Export orders at no extra cost.

Dealer enquiries welcome.

Cheetah products available from branches of

WHSMITH WOOLWORTH Spectrum dealers and all good computer stores.

Cheetah
Marketing



CHEETAH MARKETING LTD.
1 WILLOWBROOK SCIENCE PARK,
CRICKHOWELL ROAD, ST MELLONS, CARDIFF
TEL CARDIFF (0222) 777337 TELEX 497455

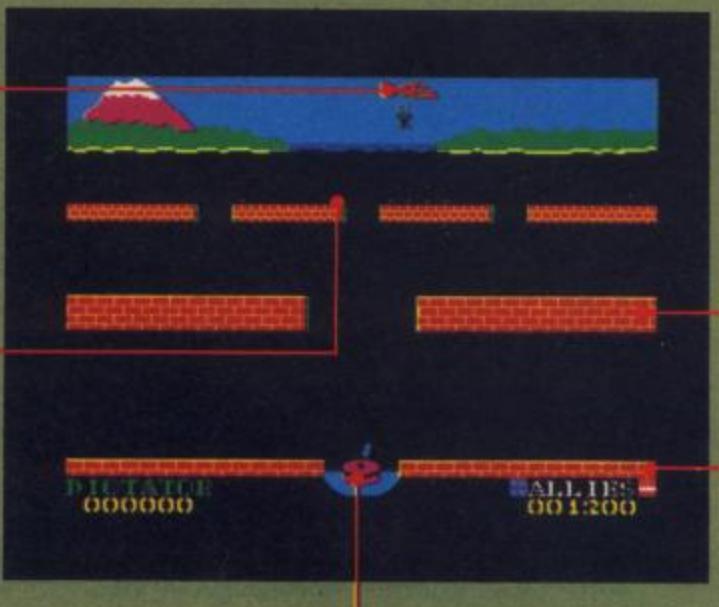
ATTACK

Okay you guys, go get 'em — hit 'em fast, hit 'em hard and give 'em hell. And for chrissakes, don't muss your hair up — CBS T.V. is here.



Fly high and your men will be vulnerable — too low and their chutes won't open — or you might be fated to a forced landing. Press fire to drop your men — and change direction to confuse the machine gunner.

Once your men are established, watch for the lights — when they're on you can make a dash for it from here. You can only choose your direction — once sprinting you can't change your mind — so don't run into the rain of death.



The pill box — mum always said to keep away from these! Just one gun, but it's not the soft underbelly of the dictator's defences. When on the enemy side it rotates and elevates automatically.

Eh, cara mia and caramba — why don't these gringos leave me alone to chew my cheroot and cause chaos in the cosmos!

Having got to this wall your men will either go round it directly — they can hurl grenades and manoeuvre but they're also very vulnerable — or scramble over the flanks. Most of these soldiers will make it to safety, but they can't attack the gun. Now select your strategy...

Each soldier you land scores 200 points, each one to the second wall 2000, and if you make it to the last wall, notch up another 1,000. Blowing up the pill box gains you 4000 — but at what cost to your own men? Dare you take the risk?

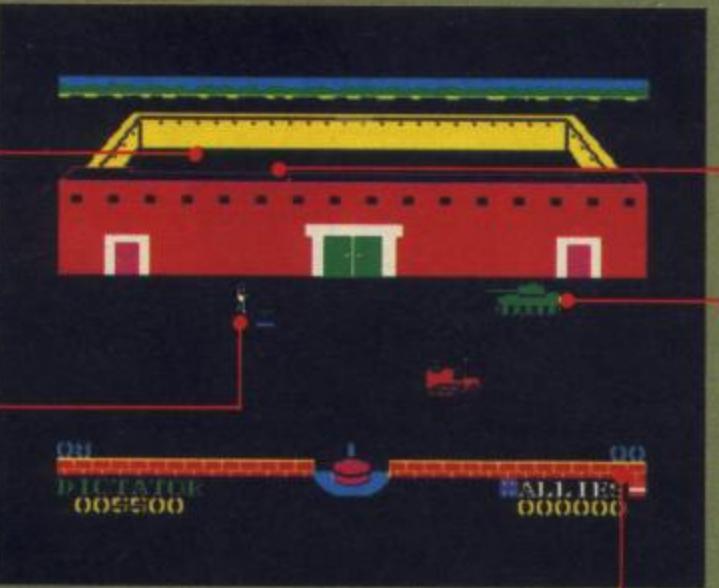


RESCUE

We gotta get our boys out before they forget the taste of Budweiser and stop loving Minnie Mouse.



Unfortunately the fortress takes up a big chunk of screen. Looks pretty but it's really a waste of space — just like watching Arsenal, everything takes place on one half of the pitch!



Your men, nine of 'em, have to be rescued but presumably they're blindfolded, and deaf as they can only walk in a straight line across the screen. It's your job to blast away the obstacles — tanks, tunnellers and mines.

The extra line doesn't tell you who's winning the Superbowl. But it does let you know how many of your good buddies have made it to the other side. Can you make it to the next screen?

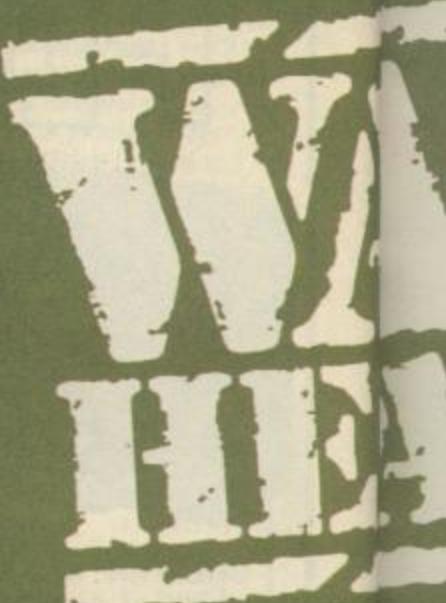
This little bloke whizzes along the ramparts and drops things on you. If that's not enough of a headache manholes and mines appear beneath your feet — unless that covering fire is hot, hot, hot!

Nothing subtle about this tank. He doesn't use his guns — just flattens your forces. He's easy to hit, but don't waste too much time on him — he's not worth many points. Make tracks for the mines and tunnellers.



Santa Maria, Ardiles and Villa — will they never forget the Alamo?

YOUR SINCLAIR
MEGAGAME BEACH



US Gold came with the classic, Beach Head, saw it was a winner and now it's set to conquer the world with Beach Head II. Rick Robson rallies his reinforcements and prepares to fight...

The evil Dictator from Beach Head is back again — but this time there's not a beach in sight. Even if he can't kick sand in the faces of the weak and defenceless it'll take all your Stallone skills to overcome him in his new jungle setting.

This final battle takes place over four screens. First you must parachute your troops behind enemy lines from a helicopter. Just take care to avoid the raking fire of the dictator's pill box. Desperately your men take cover behind the first rampart. Mustering your forces you make a dash for the second wall. Beleaguered by the blitz of lead you must then combine bravery with brains, guts with guile. Some of your men will act as decoys, others will make futile suicide dashes, a brave few will succeed in bombing the machine gun only to die in the rapid rattle of lead.

But once under your command, you can turn the pill box against the dictator's jungle fortress. Use it to give covering fire against tanks,

FAX BOX

Game	Beach Head II
Publisher	US Gold
Price	£7.95
Joystick	Kempston/Sinclair/Protek
Keys	Define your own

HEAD II AIR RAIDS

land mines, tunnellers and even masonry dropped from the fortifications. In this way you can rescue your long-imprisoned comrades.

And now it's time to pursue the fleeing forces of evil. Back in your whirring attack chopper you hug the contours of the jungle escarpment, evading the natural hazards and missing the missiles. Success in this phase will take you to the end.

And as in all great battles — Vader vs Obi-wan Kenobi, Holmes vs Moriarty, Border vs Botham — the climax is a head to head, an eyeball to eyeball confrontation, just you and the dictator, glaring across a cavernous gulch, your only weapons knives, your wits and your will to win ... between you the raging torrent roars, soon to claim its victim, you ... or the dictator.

Of course if there's a touch of evil within you, there's no reason why you can't be the dictator. You can even use the game's fine one-to-one facility for a duel to the death.

Technically it's hard to find fault with a game forged as formidably as any of US Gold's armoury. I found the final screen a bit wet (in more ways than one) after the furious hardware of the previous screens. But if you've got this far on all three levels of difficulty maybe you need the rest. And perhaps the fairly average graphics don't quite match up to the game play. But now I'm splitting hairs where most people'll just want to get in there and start splitting heads.

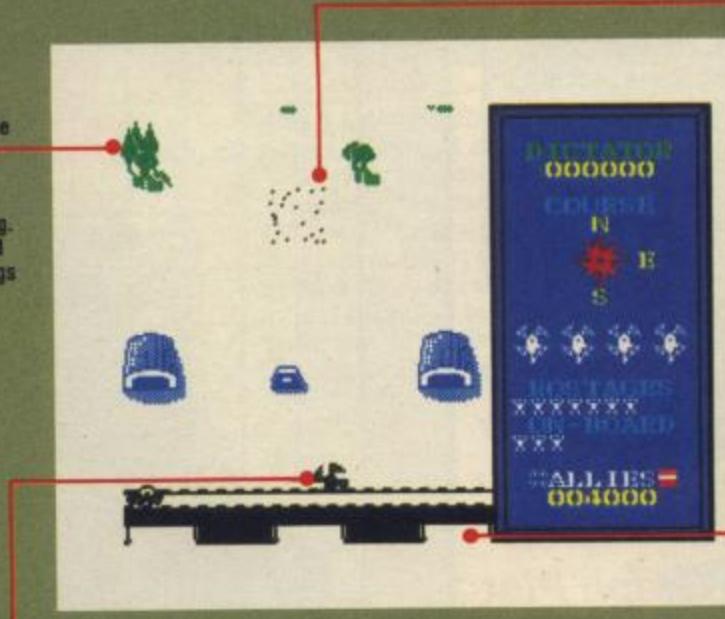
Graphics	9
Playability	9
Value for Money	9
Addictiveness	9

BATTLE

Remember, no *"/1%"* won a war by laying down his life for his country but by killing the *"/&\$?%"* on the other side.



Scattered over the jungle are various hazards. Radio towers need smashing, hangars harassing, cars pranging. But don't get too carried away — tree top landings are not advised!!



The screen scrolls convincingly but with no radar, terror comes literally out of the blue. But there's still time to evade the dictator's missiles and fire off a few of your own.

The bridge is a major obstacle. Do your *Airwolf* aerobatics and fly through the arches for maximum effect. It's not exactly *Cyclone* but you could get blown away with this phase of the action.



Don't let your chopper cop it! Your aim is threefold. Stay alive, blast the dictator's installations and get those hostages abroad.

You crazeee Anglo-Saxons — what's with this Day of Death? All zap, zap, Zapata! Jus' jump in your Fiesta an' come over for tequila an' a siesta.



Well, it's just you and me, kid. This screen ain't big enough for the two of us, and the only way out is down.

ESCAPE

Graphics are more Alpine than Andes. They make a pretty backdrop though, as you struggle not to drop back into the gulch of death.



What's this? Antipodean archery! They look like boomerangs but they never come back. And nor will you — 'cos if you're hit enough times it's a real pain in the neck — and then it's the early bath for you!

The platform limits your manoeuvrability — no backward steps allowed. At least the dastardly dictator can't stab you in the back!



The two score boxes let you know whether you're winning the battle but losing the war. Each hit is notched up here but the important thing is to win most of the five rounds.

You teenk you can catch Sancho with his Panza down? You must teenk I'm Caracas.

CentreSoft presents

With over four years experience of providing practical software solutions for business and home applications, Gemini have put together their entire range of famous titles for the Spectrum and Spectrum Plus in ONE special pack, at a VERY SPECIAL price. Whether you're a cassette or microdrive user, this super value pack contains all the serious application software you're ever likely to need for your Spectrum, from home accounts and database management to a complete professional business accounting system.

Gemini's OFFICE MASTER is here—put that computer to WORK!

- **Database**
- **Stock Control**
- **Final Accounts**
- **Easiledger**
- **Mailist**
- **Cash Book**
- **Home Accounts**
- **Graph Plot**

Each pack contains ALL 8 programs, demonstration data files, and clear and comprehensive manuals for EACH program. Gemini's previous retail price for all these programs individually was £179.60. Now they're all together in ONE COMPREHENSIVE PROGRAM PACK.

OFFICE MASTER

Tape: £15 Microdrive: £17.50
includes P&P and VAT.

Database



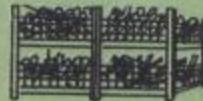
Use this program for storing all types of information just the way YOU want to store it. You set up a computerised 'card index' system and add records and data to the file in the format that you choose. Advanced features include sorting and searching for specific records, mathematical calculations, printer routines, data summaries, etc. If you don't have a database, you certainly should!

Mailist



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!

Cash Book



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!

Final Accounts



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.

Home Accounts



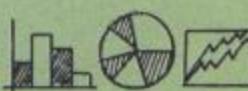
Designed as a complete financial and budgeting package for home affairs, this program allows the user to set up a budget for items of household and family expenditure and compare actual expenditure with budget as often as required. A running total of surpluses and deficits is available both numerically and in bar graph form. A complete bank account routine is included, together with suggested expenditure categories which may be simply altered as required.

Easiledger



Consists of invaluable routines to allow the creation of any type of financial ledger system. Its usefulness lies in its ability to produce account balances instantly for debtors and creditors together with an audit trail of all entered transactions, with dates and references. A year-to-date summary is included of sales, purchases, receipts and payments over a 12 month period, and most importantly, a completely interactive bank account database is featured.

Graph Plot



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.

Mail Order to:

GEMINI

Please send me Spectrum OFFICE MASTER packs.

Cheques/POs enclosed or please debit my
Access/American Express No.

Name:

Address:

Signature:

To: Gemini Marketing
Limited,
Gemini House,
Exmouth EX8 4RS



24 HOUR CREDIT CARD HOTLINE - (0395) 265165 (4 lines)

Trade and overseas enquiries welcome.

Office Master



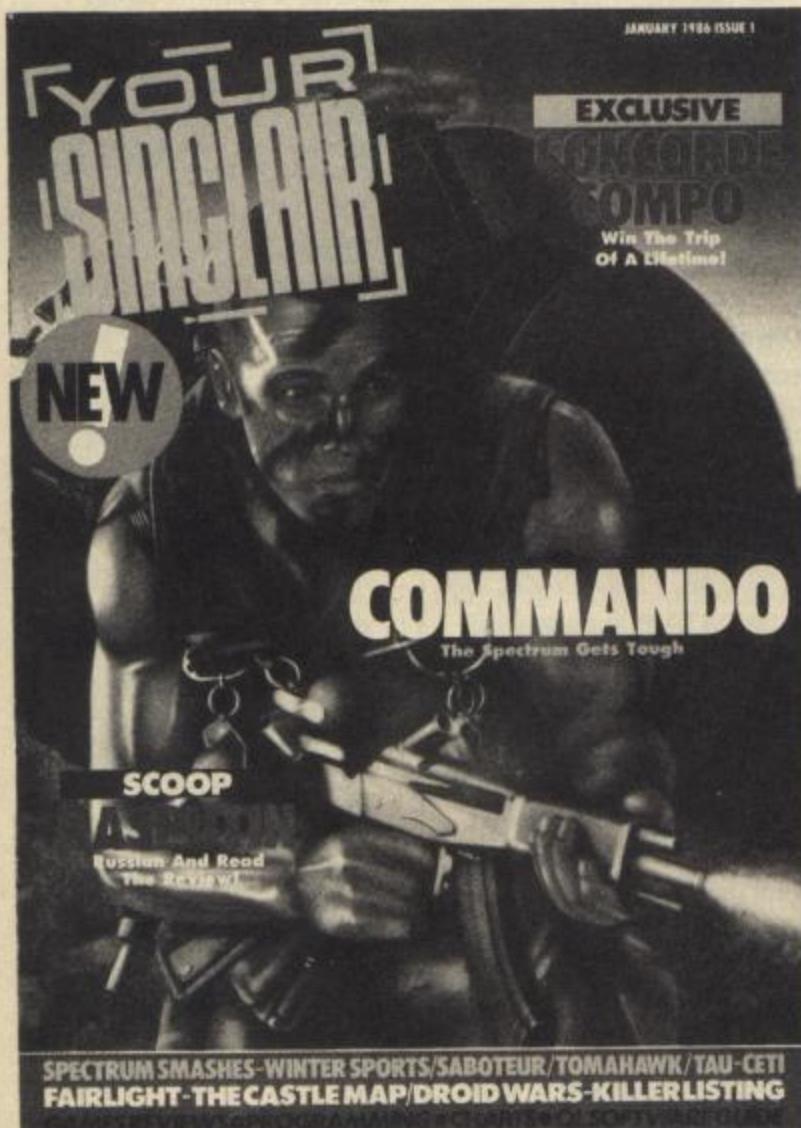
Sole distributors to the trade: CentreSoft Ltd.

Tel. 021-359-3020

BACK ISSUES



Here's your chance to order all back issues of Your Sinclair — yes — all one of them!



Our bumper first issue included

- Games: • **Commando** • **Saboteur**
- **Rasputin** • **Winter Sports**
- Features: • **Droid Wars** • **Eight Page Program Power Pull Out**
- **David Crane Interview**

Old Your Spectrums never die — they get snapped up sharpish by new readers. Quick — use the coupon below to bag your own back issues at £1.10 a throw. Or visit our shop, open Monday to Friday 9.30 am to 5.30 pm at 14 Rathbone Place, London W1P 1DE.

■ Issue 1

Chess packages, Speech synthesis, Toni Baker's machine code breakout

■ Issue 5

The Quill, Software For Printer Interface, Zip Compiler pt. 3

■ Issue 12

Ghostbusters, Music packages Ghoulies

■ Issue 13

JSW, Hunchback 2, Kong Strikes Back

■ Issue 14

Alien 8, It's A Cracker, Patching Up the Drives

■ Issue 15

Starion, Painting by Numbers, Hot Heads

■ Issue 17

A View To A Kill, Black Magic Boxes, Dun Darach, The Generation Game

■ Issue 18

Dambusters, Ghostwriter, JSW 2 — POKEd apart

■ Issue 19

Exploding Fist, Frankie, Movin'n'Groovin'

■ Issue 20

The Rats, Fairlight, Shrink Wrapped



ORDER YOUR BACK ISSUES NOW!

Please send me the following back issues of Your Spectrum or Your Sinclair — UK £1.10, inc. p&p, £1.50 Europe, £1.70 rest of cosmos.

Your Spectrum

Issue 1 Issue 14 Issue 18 Issue 1
 Issue 5 Issue 15 Issue 19
 Issue 12 Issue 16 Issue 20
 Issue 13 Issue 17 Issue 21

Your Sinclair

I enclose a cheque/Postal Order for £
made payable to Sportscene Specialist Press Ltd.

Name

Address

Postcode

Date

Are your
back issues
collecting
dust not
compliments?

How about a tres chic genuine
Norgahide Your Spectrum
binder? Keep your head together
by keeping your copies
together — and all for
only £4.95.

Please fill in this form and mail it immediately to: Your Sinclair, Back Issues, PO Box 320, London N21 2NB. You can use a photocopy of this form if mutilation's not your bag. Otherwise snip along the dotted line for your YS snip.

HACKING AWAY

More joke POKEs and hack cracks from the man with the POKEst, Chris Wood.

Okay, so you're bulging with Christmas pud, turkey and trifle and don't feel like moving. Well, get out your Speccy and those new games you got for Chrissy 'cos they're dying for a POKE and you need a bit of mental exercise too.

HALL OF THINGS

This little routine for *Hall Of Things* has been around for quite a while. Andy attempted to publish it in *Your Spectrum* 17 but failed and I must confess I took a little while to get around to it. Still, **Bruce Phipps** from Chadbury sent in the routine again so here it is:

```
10 LOAD ""CODE 61263
20 FOR X=61441 TO 61454
: POKE X,0: NEXT X
30 POKE 61440,201: POKE
61650,249
40 POKE 61724,27: POKE
61725,241
50 POKE 61549,64: POKE
61550,148
60 RANDOMIZE USR 61441
70 FOR X=61440 TO 61451
: READ Z: POKE X,A: NEXT X
80 DATA 17,0,96,33,64,1
56,1,0,64,237,176,201
90 RANDOMIZE USR 61440
```

After you've finished this, POKE 32717,0 for no wounds or infinite energy or you can POKE 35923 with your starting magic. RANDOMIZE USR 24567 will start the game.

MANIC MINER

Ooops! Even the greatest make mistakes and I'm afraid there's one in *Your Spectrum* 20. **Maxwell Clark** sent in a revised POKE for confusing the aliens in Bug Byte's *Manic Miner*, accusing me of getting the original wrong. Well, that certainly confused me 'cos when I looked out his letter I found it was all his fault. The POKE should've been:

POKE 65132,0

Sigh at least it shows who's still the greatest. On with the POKEs...

NODES OF YESOD

Yes, I know it's knocking on a bit but the programmers did include a message 'YS keep

out' in the loading sequence, so how could I resist? Well, we did it, so there! **Pete Smith** of Burton, **Phil Nosirnayme** from Hartlepool and **Lee Bathgate** from Fife all sent in routines and here's the one I chose entirely at random:

```
10 LET S=30000: LET N=2
1: GO SUB 20: RANDOMIZE USR 30000
15 LET S=63218: LET N=7
: GO SUB 20: RANDOMIZE USR 63201
20 FOR X=S TO S+N-1: RE
AD Y: POKE X,Y: NEXT X: R
ETURN
30 DATA 17,17,0,175,205
,60,117,17,250,2,62,255,2
21,33
40 DATA 188,244,55,205,
86,5,201,175,50,149,127,1
95,0,226
```

WAY OF THE EXPLODING FIST

Lee Griffiths from Merseyside sent in this snippet of a program to give you 255 time units instead of 30 in *The Way Of The Exploding Fist*:

```
10 LOAD ""SCREEN# : LOA
D ""CODE : POKE 44793,255
: RANDOMIZE USR 39982
```

Funny but my copy has a RAND USR address of 34816. Could there be as many different versions of this as there are of *Starion*?

PUD PUD

Yes it's a game and not a Christmas left-over — or at least according to **Andrew Jones** from Cheshire and just to prove it he's sent in a POKE for infinite Pud-Puds — POKE 49287,0. Andrew reckons he's a fifteen year old geriatric — is hacking bad for your health? Cough, cough!

ABU SIMBEL PROFANATION

Unos trios paranoias di Portugalos! Well, three blokes from Spain namely **Fausto Carvalho, Luis Pereira** and **Carlos Vieira** who've sent in a few POKEs for *Abu Simbel Profanation*.

POKE 49290,x where x= to 255

POKE 47684,0 for eternal madness and boiling nerves

POKE 45877,201 to transform objects

POKE 47656,0 to transform yourself

What you transform yourself or the objects into is anybody's guess but those who've played the game should know.

ALIEN 8

Robert Brown from Gloucester has been having a few problems with my *Alien 8* program *Your Spectrum* 14. Well, as far as I know there's only one version of this game on the market so it's possible you could've made two errors in the DATA that cancelled each other out. That way the checksum could've missed them — for example, 24,35,6 instead of 6,24,35. I have found that the program only loads one out of five times and it can be cured by adjusting the volume.

Finally, if you finally got *Sprite High*, *Your Spectrum* 19, to work you may still find problems. I really am sorry. I forgot to mention that you should load the main SPRITE CODE before anything else when you're testing your sprite movement etc. This is

because the first 14 bytes of the SPRITE CODE contain data for a dummy sprite which will overwrite your first one. You could resave it with: **SAVE "SPR CODE" CODE 57270+14, 584-14.**

Persevere and the results will be worth it...

AD ASTRA

Another mega-hack from a lady keep 'em coming girls! This one's from **Mrs J Brown** from Cheshire for *Ad Astra*:

POKE 29907,0: POKE 29908,0: POKE 29909,0: alters the formation of the aliens

POKE 28591,0: POKE 28592,0: POKE 28593,0: gives you better fire power

POKE 28793,0: POKE 28794,0: POKE 28795,0: ships that need multiple hits will now only need one

POKE 380847,0: POKE 30848,0: POKE 30849,0: one ship comes across the screen instead of four

POKE 35852,0: POKE 35853,0: POKE 35854,0: infinite lives

To get all these in simply type:

CLEAR 24000:LOAD "A" CODE: LOAD "B" CODE



Kipper Williams' cartoon is taken from his new book *Warning! This Computer Bytes*. It'll be published by Blandford Press on March 24th, price £1.95.

Type in the POKEs you want and then RANDOMIZE USR 3,3000 to start the game.

EVERYONE'S A WALLY

Still having mega problems with *Everyone's A Wally*? You must have infinite endurance already! There's a POKE to make all the characters stand still so they don't nick all the objects you want.

As if that wasn't enough you can change to another character even when it's not on the same screen. Don't type in any data lines you don't want:

```
100 CLEAR 29999: MERGE "
"; POKE PEEK 23627+256*PE
EK 23628+33,33
110 FOR z=65313 TO 1E9:
READ x: IF x<999 THEN PD
KE z,x: NEXT z
120 GO TO 0
130 DATA 24,2,0,199,205,
128,91
140 DATA 62,201,50,67,22
7: REM INDESTRUCTABLE
150 DATA 62,24,50,184,23
1: REM CHANGE TO ANY CHAR
ACTER ANYWHERE
160 DATA 62,201,50,44,16
9: REM STOP OTHER CHARACT
ERS MOVING
170 DATA 195,151,91,999:
REM DATA END MARKER. IMP
ORTANT.
```

These few POKEs are from a person who comes from the 'Wolbidoob', Lancashire. Hmmm. Merge in the loader and enter these POKEs before the USR call

POKE 28982,0: POKE
28983,0: POKE 28984,0
and continue loading. A small tip for budding hackers, if you're NOPing out a call routine, a RET at the actual call address saves on the typing and is neater.

GYROSCOPE

Are you going potty playing Gyroscope, the Speccy version of *Marble Madness*? Well just enter this as a direct command:

CLEAR 24063: LOAD
"SCREEN

and load it in. Then all you've gotta do is enter the POKEs you feel like. POKE 53922,0 for infinite lives, POKE 54033,201 to roam around the screen at will and POKE 54354,201 to walk through the wobbling nasties getting in your way.

If you're really feeling lazy you can use one POKE that does all three features and that is POKE 53887,201. When you manage to finish all the screens the surprise is ... ta dah... you can travel up the slopes instead of down them, wow! Oh an' a useless bit of info — the two voice sound routine in this game is the same as in *Fairlight*.

MICRODRIVIN'

Hey, is your microdrive making you miserable? Drop Andrew Pennell a line and he'll sort out your problems. Now we're

Hi, it's me. Yeah me, Andy. S'pose you've forgotton me 'cos I wasn't in last issue. Rather large oversight by the Ed. (Me? Ed) Anyway now I'm here let's kick off with a big thanks to all those who wrote in about the corrected version of the routine that allows you to see which Interface 1 ROM you have. Oops, sorry I know it was a corrected version but we (You! Ed) made another blunder. Line 40 should have read:

40 IF a=129 THEN LET z=1
Most of you who wrote said that PRINT z gave the result of 129 so you've all got version 1 of the ROM. One reader, however, got 128! Well, I'll look into that and give you more details next month.

And now on with all your problems — oh, I do so enjoy playing at agony aunt.

» I'm having a bit of bother with my Epson printer and Interface 1. Have you found the cure yet?
Christopher Birkett, Solway

Yup! I have, thanks to **Hugh Wilding** who told me that Epson knows all about the problem and, better still, the cure. First set the Spectrum and Epson to 4800 baud (not 9600). You'll then have to get your soldering irons out and add a couple of components to the Interface 1 plug to get rid of all those glitches that cock up the printer. Connect a 1K, $\frac{1}{4}$ watt resistor between pin 3 on the I/F 1 plug and the cable going to it. Next, connect a 2000pF capacitor between the cable end of the resistor and pin 7 on the plug. Easy innit?

» I've got a Brother HR5 that's Epson compatible. How can I use its features via the Interface 1?
John Taylor, Grantham

Right, for straight text output OPEN #3,"T", then LPRINT, LLIST will work on the printer. In order to use the special features you'll have to send control codes, and you can only do this with a "B" type channel that can be created

with a line like OPEN #4,"B". Then PRINT #4 statements for the extra features.

If you wanted to go into condensed mode, for example, you'd use PRINT #4, CHR\$(15);. More advanced features require Escape codes which use the ESC character. In the manual setting the perforation skip is described as ESC N*x*, so, to set it to ten lines you'd use the following command:

PRINT #4; CHR\$(27);
"N";CHR\$(10);

Another tip — it's useful to have both B and T type channels open simultaneously, B for control codes and T for text.

» What's all this about a dec/hex converter in my Interface 1 ROM?
Paul Daamen, Netherlands

In version 1 of Interface 1 there were some subroutines for printing blocks of memory in hex that were used by the authors to debug it. When the Interface was finished they were left in and there they remained until version 2 came along. The hex routines were removed 'cos room was rather tight. You learn something new every day.

» Several disk drive interfaces claim 'Microdrive compatibility' but many items of software that make similar claims don't run on them — why's that?
David Saint, London

The disk interfaces are usually compatible in the sense that they use the same syntax from Basic to use the extra features but the problems occur because from machine code none of them is compatible. Machine code software has two ways of calling the Interface 1 ROM — via hook codes and directly. As yet there is no interface that has compatible hook codes and it would be impractical for one to have the same actual subroutines.

» What's my problem? Well, I've got a Kempston Interface E but I

can't load array data files from microdrive, though I can save them. Masterfile is the worst as I can't save anything to it.

R Dearden, Harlow

I don't have one of those interfaces but I think I know what the problem is. What a megabrain, eh? It has a ROM which is mapped out in the low 16K of the Basic ROM. It's also mapped out when the shadow ROM is in place but it normally doesn't obstruct it. Judging by the symptoms it appears that it's mapping into the Load array routine in the microdrive ROM that's obviously causing big trouble. Try contacting the guys at Kempston and see if they've got any ideas. If that brings no joy try using a different version of the Interface 1 ROM. Good Luck!

» How can I easily produce the error 'Hook code error' from the Interface 1?
Keith Symonds, Essex

I can't think why you'd want to do that but each to their own I s'pose. Do an RST 8 followed by a byte from #33 (ROM1) or #34 (ROMs 2&3) to #FE inclusive. It produces the error because those byte values are neither Basic error messages or valid hook code calls.

» I've used the copier program supplied with the Expansion System to great effect but whatever I do I cannot get it to copy the games cartridge supplied with it. Why is this?
Paul Daamen, Netherlands

Ahah! The reason is quite simple. When I wrote Copier, I was asked to write a protection routine so that the games cartridge couldn't be ripped off. Cartridges that have been duplicated using this special routine can't be copied with the official program, though other copiers will back them up with no problems. Copying should only be used for backing up and not to reproduce original software as this is illegal!

Try beating our SpecDrum!



Spec Drum

Digital Drum System
for the Spectrum

£29.95

- 8 DIGITALLY RECORDED REAL DRUM SOUNDS
- SIMPLE TO USE — UP AND RUNNING IN ONLY MINUTES
- A TRUE DIGITAL DRUM MACHINE
- 'REAL TIME' OR ON-SCREEN PROGRAMMING
- COMPLETE WITH SOFTWARE
- EXTRA SOUNDS CAN BE LOADED FROM TAPE
- CREATIVE, EDUCATIONAL AND FUN
- THE MOST EXCITING PERIPHERAL EVER DEVELOPED
- DYNAMIC FILING SYSTEM — STORE OVER 1000 PROGRAMMED RYTHMS
- TAPE SYNC FACILITY
- SONGS CAN BE SAVED ON TAPE
- POLYPHONIC
- COMPREHENSIVE MANUAL
- JUST PLUG INTO YOUR HI FI

Exclusively
available from

Boots

Cheetah
Marketing

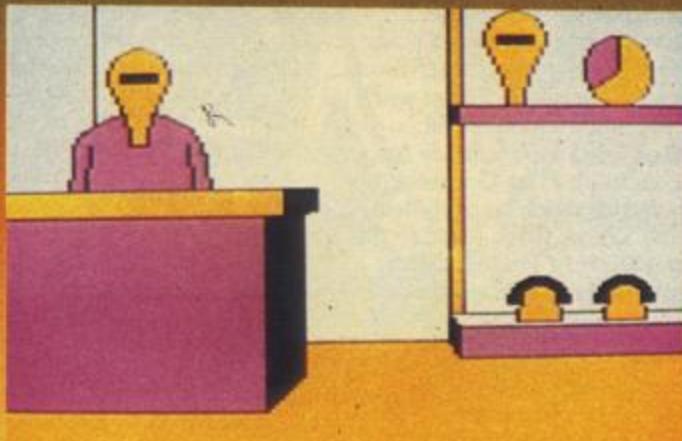
1 WILLOWBROOK SCIENCE PARK, CRICKHOWELL ROAD, ST. MELLONS, CARDIFF
TELEPHONE: CARDIFF (0222) 777337 TELEX: 497455
(Export enquiries - contact Cheetah direct)

YOUR SINCLAIR
MEGAGAME

BE
3



Yes come to Enoch, the capital of Eden. Level 9 Tours is offering 200 colourful locations packed full of fun, night-life and wild surprises and if you don't believe it just take a look at the brochure.



DESTINATION

Capital Investment

You arrive in Eden, with the special Trans-Ident Soul-Swap facility, in the body of a typical Eden dweller who's drinking in the pleasure of Reveline's Dream Parlour — dreamy eh? Well not everything's as dreamy as Eden isn't always a paradise.

Throw away your Eden-English, English-Eden pocket dictionary for a start. These guys aren't Neanderthals — they speak a rather simplified standard Galactic English. Your Speccy Bio-Trans facility features a thousand word vocabulary that'll give you more rabbit than a well-known Enoch supermarket chain.

If you fancy a visit to one of Enoch's amputums you'll need the standard currency unit — the Cred. Sorry but American Express Inter-Galactic Traveller's cheques won't do nicely here. Prices are a bit higher than on Earth but a good thing's worth paying that bit extra for.

Here are some of Eden's heavenly prices:

Reveline's Dream Parlour	9 creds
Pleasure Dome Entrance	9 creds
Newspaper	free
Museum	free
Casino	1 cred
Pie	9 creds

In fact all's fine in Eden, 'cept of course, the fines. You may be offered a few things on the streets for free. That's 'cos they're illegal.

Yeah, it is the other way round on Earth. Fines, like the Space Patrol Group, can be heavy but don't worry there's always a way to recoup your losses in Eden.

Fines

For being in debt	50 creds
Possession of an illegal object	9 creds
Theft	500 creds

MONEY

A wealth of health

Many travellers fear the unknown. Will I be able to drink the water? Do I need vaccines? Relax! The inhabitants of Eden have discovered the secret of almost eternal life — thanks to the transplant of worn-out bodily organs.

So if you fancy a fling in the Pleasure Dome or you want to buy a pet (or pay a fine!) it could cost you an arm and a leg — literally! A lime'll bring in about 800 creds cash-in-hand — that's if you've got a hand to hold it in! Enoch Hospital, south of City Square will do a quick clean job, cut price!

EAST OF EDEN

Level 9's new adventure *The Worm In Paradise* is set on the far-distant planet of Eden. But all is not well in the Garden. Join Death as he takes you on the trip of a lifetime — or rather several life-times. Nothing is impossible in Paradise...

PEOPLE

See the natives in their local habitat!

Eden's inhabitants are a friendly bunch. Many of them are robots who're going about their daily lives oblivious of the curious tourists around them — yes you! Fuzbots, the local constabulary, are on hand to keep you out of trouble. But if you do get up to naughties — buying illegal items, shoplifting, insolvency — the gates of Eden's gaol won't close on you, you'll only be fined.



ROUND AND ABOUT IN EDEN

No great big red double decker turbo buses here — just the smooth sophistication of the pedway that connects each city district. Earthling's find it all a bit disorienting as the roundabouts are numerous and they all look the same! And with forty million colour-coded destinations don't blame it on us if you end up off the beaten pedway. The Michelin guides are a bit thin here so your best bet is to draw yourself a map. If all else fails Level 9 Tours can provide you with a simple program that'll enable you to get where you're going.

STREET CRED

Part of our bumper package is a set of Trad-Clads — well we don't want you arrested for indecency do we? — and 100 creds. We also supply you with a personal designer tattoo, a device that'll tell you the time and also keep a check on your finances. Every Eden hour it'll buzz — like those quaint 20th Century ones that used to go off all over the cinema when the film was just getting to a good bit. Should you succumb to the magic of Eden then you could have a spaceman's holiday — and do a job of work. But don't forget that you must be properly registered.

TOURS

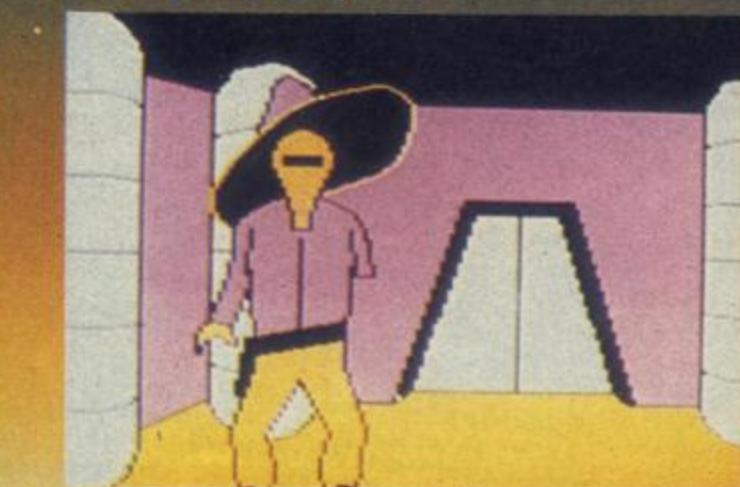
Sites and sounds

Frankly, you start at the Pleasure Dome. If you really want some fun you can throw crap in the Casino, muse in the museums and visit the pet shop. It'll cost you, but for a holiday like this it's worth going out on a limb even if you're left without a leg to stand on.



THE MUSEUM

See the Inflatable Kim Kimberley, complete with bowl of lentil porridge! Keep your hands off her, or you won't keep your hands on! Remember here on Eden they can remove organs (other planets can't reach).



The Casino

Great fun this! Just select a colour and pull the arm of the One-Armed-Bandit, watch his eyes light up and your credit balance drop! It's a scream and you might even win some money — there's a twenty cred jackpot waiting for some lucky tourist.

Reveline's Dream Dome

Just the thing for the weary travellers! Enter your choice of chamber, don the visor, and enjoy a brief but invigorating sleep with a special pre-programmed nightmare! Eeeekkk!

The City Plaza

A tribute to modern civil engineering, this is one location every tourist should have on his or her list. You should also visit the Municipal Buildings and the Monument on Glory Road. And when you're ready to go further afield, try the Eden Transport System.

Evesham Micros

THE UTILITY SPECIALISTS

MAKE THE MOST OF YOUR MICRODRIVE
WITH

INTERFACE III

THE IMPOSSIBLE HAS BEEN DONE

Yes it's true this **fantastic** new peripheral will transfer **every program available** on to microdrive. Yes every one. Yet, believe it or not, it is so **easy** to use that we are training our pet cat (Clive) to use it. Any drive.

Just look at these features . . .

- Consists of hardware and software.
- Transfers all programs available on to microdrive.
- Very, very, easy to use. (If Clive can do it we're sure you can.)
- Makes a "snapshot" of any stage of a program. (Saved as a screen.)
- Transfer can be actuated at any stage allowing "customised" versions.
- All programs reLOAD and RUN once transferred.

WARNING: Unlike competitive products, transferred programs run independently of the utility and occupy the correct amount of cartridge space for the program. (This means you can fit two large programs on one cartridge.)

IF YOU HAVE A MICRODRIVE YOU MUST HAVE INTERFACE III
ONLY £39.95 Inc. P&P

SIMPLY AMAZING

Trade and distributor
enquiries invited, U.K.
and overseas.

The software can be
supplied on cassette for
tape users.

This product is in a
class of its own.
Designed by DRAYSOFT.

DOUBLER

HAVING PROBLEMS BACKING UP THE
LATEST LOADING TECHNIQUES? DOUBLER
Will solve ALL your problems

THE tape backup "device".

After **spectacular success** on the CBM 64 and by public demand we introduced **Doubler** for the Spectrum. Now we have released **Doubler Mk.II**, which is professionally cased and has greater tolerance to the varying types of cassette decks in use.

It includes **hardware and software**. This **superb "device"** allows you to make backup copies of software with **all types of loader** regardless of length and speed. (Includes pulsing headers and different baud rates.) In fact our tests have **proved** "Doubler" is capable of copying with **100% success**.

Requires access to **two** cassette decks. The software allows you to save a **brand new machine copy** onto one cassette deck while loading from the other. **Fast and easy to use**. They said it couldn't be done.

ONLY £14.95

PATENT APPLIED FOR

Customers who have the Mk.I Doubler may return it along with £4.95 for the new version.

All prices include P&P and VAT. Send cheque, Postal Order or Credit Card No. Credit Card order accepted by phone. Callers welcome. Wide range of goods stocked. Trade enquiries welcome. European orders send price as advertised. Outside Europe £2.00 for airmail. Mail order to Evesham Shop please.

EVESHAM MICROS
BRIDGE STREET, EVESHAM,
WORCS., WR11 4RY.
Tel: 0386 41989

MICRO CENTRE
1756 PERSHORE ROAD,
COTTERIDGE, BIRMINGHAM.
Tel: 021-458 4564



For Your AUTUMN SAVERS SPECTRUM/PLUS

QuickShot™ II

INCLUDING INTERFACE
PLUGS STRAIGHT INTO SPECTRUM/PLUS

ONLY £15.99 POST FREE

- TOP + TRIGGER FIRE BUTTON
- AUTO FIRE MODE
- KEMPSTON COMPATIBLE
- STABILIZING SUCTION CUPS
- SPECTRUM OR PLUS • UNBEATABLE OFFER

SEND FOR INSTANT DESPATCH



PRICE BREAKTHROUGH

SWITCHABLE JOYSTICK INTERFACE

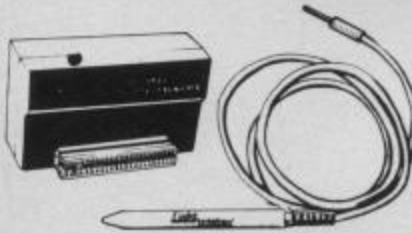
ONLY £12.99 POST FREE

- ALL THREE SYSTEMS AT THE FLICK OF A SWITCH
- 'KEMPSTON' - 'CURSOR' - 'INTERFACE II'
- ACCEPTS ANY 9 PIN JOYSTICK - INCLUDING RAPID FIRE MODELS • SPECIAL OFFER!!

Buy with QUICKSHOT II complete for only **£19.99**
SEND NOW



Now you can create Superb Graphics easily with



the New **Lightwriter**

ONLY £16.99
POST FREE

Lightpen comes
complete with
Interface & Software

- Just plug in the Datel Lightwriter and draw circles, squares, rectangles, make superb hand drawings, paint, fill, erase, choose inks, paper, colours. • Save your results into memory (48K) and use in animation or save onto tape to use in your own games. • All functions selected from screen menu with the lightpen.
- Unbeatable value. • Nothing more to buy.

SEND NOW AVAILABLE FOR IMMEDIATE DELIVERY

Digital Sound Sampling Technology.

**NOW Available
on your Spectrum**

Complete unit and Software

£49.99 POST FREE



* Digital Sound Sampling has only previously been available for large micros and costing at least 10 times the amount. * The Sound Sampler allows you to record 'Digitally' any sound into memory and instantly replay it at any pitch, forwards, backwards, ascending scale, compressed, expanded, with echo, endlessly looped etc. * Supplied complete with Software package to facilitate the above operations, plus on screen 'Voice Prints' + Frequency Plotting. * With on screen keyboard + drum kit a whole symphony could be produced from a single Sample Sound. * This is a professional unit featuring 8 Bit D to ADC converters as used in Digital equipment now sweeping the music world.

* Although the unit is not a toy, giving truly astounding results for the musically inclined, we have incorporated a games interface to allow you to use Sound Sampling in your own games etc., so the Sound Sampler would be of interest to everyone.



HOW ABOUT
WITH
SOUND?

**UNBEATABLE
OFFERS!!**

WHILE
POST FREE STOCKS LAST



Games Ace features:
KEMPSTON COMPATIBLE • JOYSTICK INTERFACE
ACCEPTS ANY 9 PIN JOYSTICK INCLUDING RAPID
FIRE MODELS
PLUS DELIVERS THE SOUND FROM YOUR
GAMES THROUGH TV SPEAKER. (Fully controllable)

ONLY £10.99 or complete with QuickShot II
only £17.99

Turbo Ace features:
ALL THREE SYSTEMS AT THE FLICK OF A SWITCH
KEMPSTON • CURSOR • INTERFACE II • ACCEPTS
ANY 9 PIN JOYSTICK • INCLUDING RAPID FIRE
MODELS • 'ON SCREEN SOUND' AS 'GAMES ACE'

ONLY £15.99 or complete with QuickShot II
only £22.99

GUARANTEED SAME DAY
DESPATCH ON ALL ORDERS
TRADE ENQUIRIES WELCOME

24 HR CREDIT
CARD LINE



DATEL
ELECTRONICS

UNIT 8, FENTON INDUSTRIAL ESTATE,
DEWSBURY ROAD, FENTON,
STOKE-ON-TRENT
TEL: 0782 273815

There's a bandwagon doing the rounds at the moment that everyone's hitching a ride on — and it's called the Apple Macintosh. You only have to take a look at SofTechnics' *The Writer*, reviewed in last month's YS, or OCP's *Art Studio*, reviewed in this, to see the influence it's having — all those dropdown menus and icons. Now just so you don't feel left out in the code, I've written my own Mac influenced program.

Macclone is a collection of three pull-down utility programs that are related to the Desk Accessories on the Mac — perhaps you've seen the calculator, puzzle and scrapbook that can be pulled down over the top of the screen you're working on. My three programs are similarly transparent to the Speccy so the screen won't be permanently corrupted. That means, for example, if you're bored with the program you're working on, you can call up one of these utilities and it'll sit on top of your program until you're ready to get going again.

CLONE RANGER

As soon as you're ready to use your saved copy of *Macclone*, type CLEAR 61950: LOAD "Macclone" CODE and start the tape. There are three main RAND USR calls to *Macclone* — 63256 sets the program up, 63278 switches it off and 63269 turns it back on again. You'll only need to set up *Macclone* after you've loaded it in or after NEW.

```
- OR KEY '2' TO USE T
"
75 LEF S$=S$#
1
80 PR T 18,
+29): IF X
HEN L
85 LE : IF
$<"1" THEN BEEP .03,0
```

THE LETTER SQUARE

Imagine you're writing a program and inspiration has deserted you. You've made enough cups of coffee to keep Brazil in credit for the next ten years but still nothing'll come. Nope, there's nowt for it but drop everything and play a game — if only you weren't already using the Speccy. Well, now, at the press of a key, you can jiggle your brains with this letter square puzzle. Just use the keys Q,A,O and P to move the blank tile around the letter square. As on as you get bored or inspiration returns, just press Space and bingo, you're back into Basic.



Nope, it's not the latest fast food fry-up from McDonalds — though that's how we sold the idea to Tony 'Slim' Samuels! *Macclone*'s an amazing utility package that packs the power of the Macintosh into your Speccy.

```
5 DIM A$(32): INK /: R
7: PRINT AT A,0: OVER
A: P 1;AT
S.GRE 'for
RUM"; H 10.85
0 FOR H BEEP
T A: INK 0:
DE
5 RANDOMIZE USR 35193:
```



THE UDG EDITOR

Here's a real time-saver — well, you can make up all the time you've wasted playing the word square. It's a UDG editor that you can call up and use from within the Basic program you're writing. It lets you change any one of the Speccy's 21 UDGs just by moving the cursor round the UDG with the Q,A,O and P keys. You can flip it on or off with the M key and change a UDG using Enter. Once back in Basic (press Space), your UDGs'll appear just as you defined them in the *Macclone* routine. Save your data before you shut down with SAVE "udg data" CODE USR "a".21*8.

THE LOCK-UP

Phew, that megaprogram's nearly finished but you've just got to go out/sleep/eat/go for a pee. And what happens — Sod's law, that's what! Someone's dusted and well, my hand slipped, honest. Sorry just doesn't seem to say enough. Plus you've got to keep a constant vigil against all those industrial spies just waiting to rip off your program. Panic no more 'cos this program provides the answer. Select option 3 and the screen will go black with just six question marks in the centre of the screen. Now type in your six letter password — no repeats are allowed so if your name's Aardvark, you'll have to find an alternative. When all six are in, press Enter and a message appears on the screen that should deter all intruders — DON'T TOUCH. Even if someone has a go, they'll find the Speccy completely locked up — and it'll stay that way without the password. Clever eh?

When you're ready to begin again, type in your password to take you back to Basic — But if you get it wrong you'll have to go right back to the beginning.

MAC MIMICRY

Here's a run-down of the three Macalike programs that mimic the desk accessories. Two grand computers — who needs 'em?

MICRO ZEIGHTY MACHINECODE

all on cassette or microdrive cartridge send S.A.E. for details on any of our products (add £1.50 for any 48k ZX spectrum).

CAMMAC 3 ½ price now only £19.95 until 31 Jan 86
Incredibly more advanced version of Cammac 2 including a monitor-disassembler/debugger, mover-relocator, searcher and assembler.

"the testing - debugging facilities are out of this world" Dr Ian Logan.

"by far the most powerful development package available" computer age...supplied with 62 page manual (£3.00 separately) are two 20k crashproof machine code versions, one for each end of memory.

CAMMAC 2 Assembler/Disassembler/Tester/Mover

"I've never come across such an easy to use assembler system" Educational Computing...used by at least 3 top software authors
"Machine code was a mystery until I bought Cammac 2, I'd recommend it to anyone" M.C. Kemp Dagenham

£11.99

CAMMAC 1 Although outdated by Cammac 2 and uncomparable with Cammac 3 it is still a high quality programming tool, ideal for the hobbyist learning assembly language.

£5.95

Fixture Creation Starting your own league? Need some fixtures. Our new fixture creation package allows you to create your own individual fixtures up to football league standard in minutes. You could have up to 20 divisions in memory at once with between 2 - 40 teams in each. All the features of league analysis and more, but written in machine code (100 times faster) and in 64 characters per line form. Supplied with up to date data for this Seasons first division.

£13.95

LEAGUE ANALYSIS

Run a league with tables, current form, predictions, sequences, look up a table on any date, divisional statistics and fixture lists. All you have to do is supply the dates, input the results every week and let it do the rest.

£4.00

send cheque/p.o.to
Micro Zeighty
7 The Crescent
Hurstbourne Tarrant
Andover, Hants, SP11 0AP

Totans Software VS
37 Gladstone Road
Hockley Essex
SS5 0BT
Tel: 0702 201168

48K SPECTRUM UTILITIES

WE WILL BE AT THE ZX MICRO FAIR ON DEC 14
KWIKLOAD allows cassette software to be loaded THREE TIMES the normal speed on a standard cassette recorder. The professionally written manual explains how to convert most commercially written Basic and Machine Code programs.

Knightlore loads in 115 secs
Jet Set Willy loads in 95 secs
Football Manager loads in 90 secs
Lunar Jetman loads in 105 secs
Jetpack loads in 58 secs

"A bit like upgrading your C5 to a 3.5 litre car"

ZX Computing

"I'm very satisfied" — N. Mellet — France

"Thank you for the delivery of your excellent Kwikload"

A. Cupif — Switzerland

Only £4.95 including a free tape header reader

★ ★ ★
VARILOAD is a new product written at the request of our customers. Several KWIKLOAD users asked whether loading speeds in excess of 4500 baud could be achieved. As a result VARILOAD was written to allow KWIKLOAD to operate at any of 8 different speeds between 2000-6000 baud. Depending on the reliability of your cassette recorder you can now tailor KWIKLOAD to your exact requirements. NOTE — VARILOAD works in conjunction with KWIKLOAD. Only £3.50.

KWIKLOAD AND VARILOAD
only £7.50

Overseas customers please
add 55p postage.

Send S.A.E. for details of our
Spectrum Utility product range.

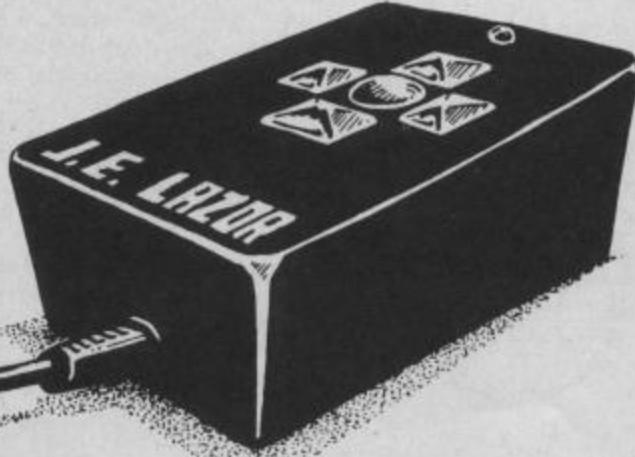
NO MORE BROKEN JOYSTICKS

Change to:
The J.E. LAZOR

Touch Sensitive
Solid State Switching
Real Touch Control -
NOT A MEMBRANE
Faster by Far

Specially Designed
for Sports Games

be KING
of the
HALL OF FAME



SEND TO:

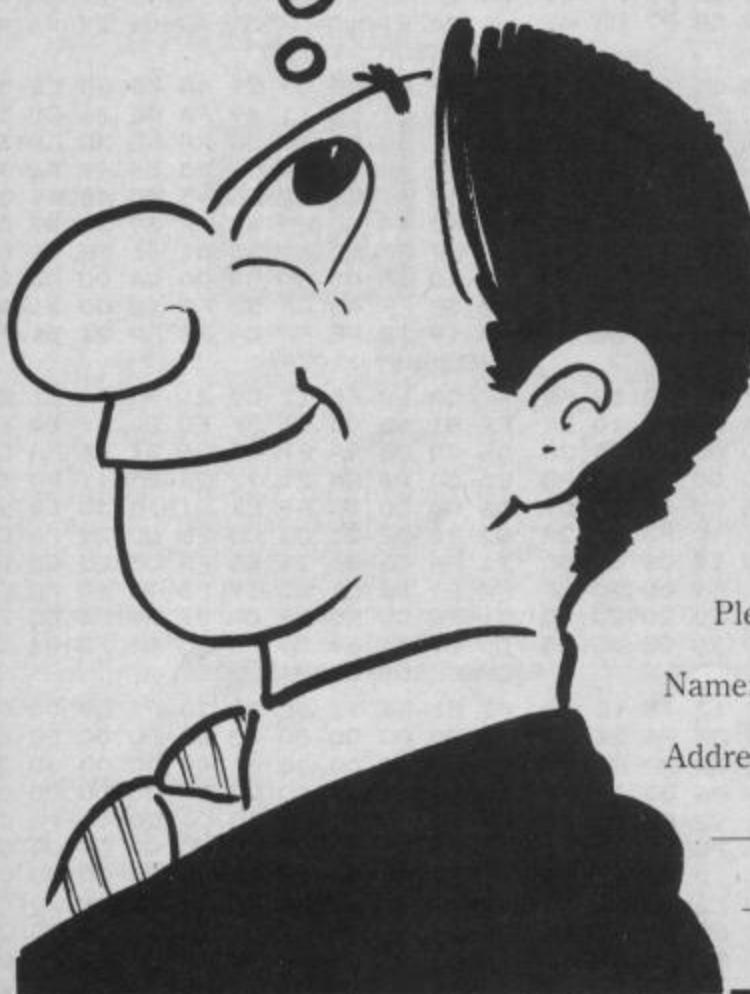
J. ENGLISH ELECTRONICS

31 Lincoln Road, Southport,
Merseyside PR8 4PR.

£17.99 plus £1.00 p & p (£3 overseas)
Allow up to 28 days delivery 12 Month Guarantee

A SPECIAL MESSAGE TO ALL THOSE PEOPLE WHO HAD A SINCLAIR COMPUTER FOR CHRISTMAS

(and those who have had one for years)



Looking for great gizmos for your new Spectrum or QL? There's one place you will find everything: THE MICROFAIR.

If it's new it will be on show. If it's original you'll find it on sale. If you need advice you only have to ask the exhibitors. If you want to meet thousands of enthusiasts, just come along and enjoy yourself.

There's everything for Sinclair Computers. Hardware, Software, Books, User Clubs, Programming Aids, Games, many at special 'show' prices — there's even a bring and buy sale.

For a fun day out and a chance to see and buy everything new and exciting . . . you won't beat the MICROFAIR.

THE NEW YEAR MICROFAIR

1st FEBRUARY 1986
AT THE HORTICULTURAL HALL
GREYCOAT STREET/ELVERTON STREET
LONDON SW1. 10am-6pm.
ADMISSION: £1.75 (ADULTS)
£1.25 (KIDS UNDER 14 YRS)

SEND NOW FOR REDUCED PRICE ADVANCE TICKETS

Send to Mike Johnston (Organiser), Dept Y.S.
ZX MICROFAIRS, 71 Park Lane, London N17 0HG.

Please send me advance tickets (Adults @ £1.25)

Please send me advance tickets (Child under 14 @ £1.00)

Name: _____

Address: _____

18th
ZX MICROFAIR

Please include a stamped, self-addressed envelope and make
cheques/POs payable to ZX MICROFAIR.

The Hex Loader

Is it a bird? Is it a plane? Nope, it's a Hex loader. Use it to type in the Hex data below.

```

10 CLEAR 32768          N GO TO 300          THEN GO TO 200
15 LET cqsf=110          105 IF LEN H$<>2 THEN GO TO 10  160 GO TO 100
20 LET s1=62451          0                      200 INPUT "CHECKSUM >",CS
20 LET s1=62451          110 LET H=0          210 IF CS<>CQ THEN PRINT : PRI
40 LET A=10: LET B=11: LET C=1 120 LET H=H+16*VAL H$(1)  NT "DATA ENTRY ERROR": LET s1=s1
2: LET D=13: LET E=14: LET F=15 130 LET H=H+VAL H$(2)  -cqsf: GO TO 230
50 LET CQ=0              140 POKE SL,H: LET SL=SL+1  220 PRINT : PRINT "DATA OKAY"
60 LET T=0                145 LET CQ=CQ+H  230 LET t=0: PRINT : LET nue=0:
98 LET nue=0              150 PRINT TAB (T),H$,: LET T=T+1  LET cq=0: GO TO 100
100 INPUT H$              3: IF T=33 THEN LET T=0: PRINT  300 PRINT "ALL DATA ENTERED": S
101 IF h$="END" OR h$="end" THE 155 LET nue=nue+1: IF nue=cqsf  TOP

```

The Hex Data

Type in the code one byte at a time and enter the checksum after each block. When it's all in, type END 'cos that's where you are. Now you've got 1980 bytes of machine code just sitting there in high memory — better save it using SAVE "Macclone" CODE 62451,1980. So, are you clonesome tonight?

```

F5 C5 D5 E5 DD E5 CD 05 F4 DD E1 11 EC F4 21 05 F5 1A BE 20 1B 23 13 2B 7C B5 20 FB C1 10 ED CD BE
E1 D1 C1 F1 C3 38 00 3A 00 00 FE 13 10 FB 06 64 21 D0 07 11 03 00 02 3A B1 F4 BB 28 C5 7B 32 B1 F4
F3 C0 3E 7F DB FE E6 03 FE 00 C0 ED 52 C5 E5 CD B5 03 F3 E1 C1 10 FE 21 20 10 3A BF F8 3C FE 15 20
21 60 09 22 B2 F4 2A B2 F4 11 05 F1 C3 82 F6 C3 2F F6 21 OC 48 06 02 3E 00 32 BF F8 C3 C1 F8 FE 10
00 CD B5 03 F3 2A B2 F4 2B 22 B2 38 11 4A FB C5 E5 01 08 00 ED B0 20 17 ED 5B BD F8 CD EE F7 3E 01
F4 3E 02 BC CA 14 F4 CD BE 02 F3 E1 CD 09 F7 C1 10 F2 21 OC 59 06 43 04 04 1F 10 FD 2A 90 F8 AE 77
7B FE 0C CA 31 FB FE 24 CA 4D F4 07 C5 01 08 00 ED B0 01 18 00 09 C3 F2 F8 FE 20 CA BD F9 FE 25 C2
FE 1C CA D2 F7 FE 14 CA C4 F9 C3 C1 10 F3 C9 11 OC 48 06 38 21 4A 7D F9 3A BE F8 3C FE 08 CA F2 F8
1A F4 CD AF F6 21 05 05 22 7F F5 FB C5 D5 01 08 00 ED B0 D1 CD 03 32 BE F8 21 90 F8 35 C3 F2 F8 FE
22 B1 F5 21 B4 F3 22 54 F7 11 91 F7 C1 10 F2 11 OC 59 06 07 C5 01 26 C2 95 F9 3A BE F8 3D FE FF CA
CHECKSUM >15923 CHECKSUM >11614 CHECKSUM >15770

F4 06 09 CD 9A F7 06 05 C5 78 C6 08 00 ED B0 01 1B 00 EB 09 EB C1 F2 F8 32 8E F8 21 90 F8 34 C3 F2
0B 32 9E F4 06 08 11 9D F4 CD 9A 10 F1 C9 EB CD 09 F7 EB C9 24 3E F8 FE 1A C2 A9 F9 3A 8D F8 3D FE
F7 C1 10 EE 06 08 11 A7 F4 CD 9A 07 A4 C0 7D C6 20 6F D8 7C D6 08 FF CA F2 F8 32 8D F8 C3 F2 F8 FE
F7 21 EC F4 11 05 F5 01 19 00 ED 67 C9 21 00 F2 11 01 F2 01 00 01 22 C2 F2 F8 3A 8D F8 3C FE 08 CA
B0 C3 1C F6 10 06 16 08 0C 21 23 36 F3 ED B0 F3 3E F2 ED 47 ED 5E F2 F8 32 8D F8 C3 F2 F8 CD 31 FB
23 23 23 24 16 00 0C 23 20 20 FB C9 F3 ED 56 FB C9 60 69 22 52 CD DB F6 C9 21 00 58 11 4A FB 01
20 20 20 23 16 0E 0C 25 23 23 23 F7 78 E6 18 67 CB F4 0F 0F 0F F6 00 03 ED B0 3E FF 32 B1 F4 21 30
23 23 26 FF 00 00 00 00 00 00 00 58 57 78 E6 07 0F 0F 0F B1 6F 5F 75 2B 7C B5 C2 D7 F9 06 08 21 6D
00 00 00 00 03 0F 1F 3F 3F 7F 7F 1A 22 56 F7 C9 00 00 00 3C 00 40 48 C5 01 06 00 ED B0 01 FA 00 09
00 00 00 00 00 00 00 00 FF FF FF 30 00 6F 26 00 29 29 29 ED 5B 54 C1 10 F3 CD 22 FA C3 D9 FA 21 4A
CHECKSUM >8391 CHECKSUM >12545 CHECKSUM >16434

FF FF FF FF FF 00 C0 F0 F8 FC FC F7 19 ED 5B 56 F7 06 08 7E 12 23 FB 11 00 58 01 00 03 ED B0 11 6D
FE FE 7F 7F 3F 1F 0F 03 00 FE 14 10 FA 7A 0F 0F 0F 3D E6 03 F6 48 06 08 C5 01 06 00 ED B0 01 FA
FE FC FC FB F0 C0 00 41 42 43 44 58 57 2A 58 F7 1A AD A4 AD 12 21 00 EB 09 EB C1 10 F1 3A 48 5C CB
45 46 47 48 49 4A 4B 4C 4D 4E 4F 53 F7 34 CB 6E 28 04 CB AE 2B 34 2F CB 2F CB 2F E6 07 D3 FE C9 21
50 51 52 53 54 55 56 57 58 20 00 21 56 F7 34 C0 23 7E C6 08 77 C9 00 58 36 00 11 01 58 01 FF 02 ED
00 00 00 00 00 00 00 00 00 00 00 00 E5 C5 1A FE 20 DA AD F7 D5 CD 5A B0 3E 00 D3 FE C9 06 14 C5 06 08
00 00 00 00 00 00 00 00 00 00 00 00 F7 D1 13 C1 10 F0 E1 C9 FE 16 CA 1A 13 C5 CB 27 30 01 71 23 C1 10
00 00 16 09 0D 11 1E F5 06 01 CD BA F7 FE 10 CA C9 F7 C3 A8 F7 13 F6 C1 10 EE C9 1C 61 26 70 12 91
9A F7 C9 16 00 0D 06 01 11 2A F5 EB 46 23 4E 23 EB D5 CD 33 F7 D1 A9 20 12 91 69 20 12 91 29 20 1C
CD 9A F7 C9 CD 21 F5 21 00 3C 22 C3 A8 F7 13 1A 13 32 58 F7 C3 A8 61 26 20 1C C9 32 48 09 29 4A 4B
CHECKSUM >9869 CHECKSUM >14495 CHECKSUM >10275

54 F7 21 05 F5 06 05 C5 3E 0F 90 F7 CD AF F6 C3 41 F8 C5 CD AA 22 09 29 43 CB 09 29 4A 40 08 C6 32
32 2B F5 06 05 3E 20 BE CA 77 F5 47 04 3E 01 0F 10 FD AE 77 C1 C9 48 21 61 58 11 49 FA 0E 36 CD 34
CB 46 CA 6F F5 3E 3A 32 58 F7 7E 3E FF 32 8C F8 18 05 3E 00 32 8C FA 21 A0 59 11 5D FA 0E 2D CD 34
E5 C5 CD 5A F7 C1 E1 23 10 E5 CD F8 D5 CB 22 CB 22 CB 23 CB 23 3E FA C9 42 48 59 36 35 54 47 56 4E
2D F5 C1 10 D6 C9 3E 17 32 58 F7 68 83 5F 3E 49 82 57 3A 8C F8 FE 4A 55 37 34 52 46 43 4D 4B 49 38
C3 5D F5 3E 00 32 58 F7 C3 5D F5 FF CA 24 F8 06 03 C5 D5 C1 CD D8 33 45 44 58 FF 4C 4F 39 32 57 53
05 05 05 05 00 3A 83 F5 FE 03 C2 F7 0C CD D8 F7 0C CD D8 F7 0D 0D 5A FF FF 50 30 31 51 41 FF 16 08
99 F5 3A 7F F5 FE 01 C8 3D 32 81 14 C1 10 EC D1 C9 D5 C1 CD D8 F7 0D 10 3A 00 00 00 00 00 CD 8E
F5 C3 C7 F5 FE 02 C2 AB F5 3A 7F 0C 04 CD D8 F7 0C 04 CD D8 F7 0D 02 3E FF BB CA BB FA 16 00 21 88
F5 FE 05 C8 3C 32 81 F5 C3 C7 F5 0D CD D8 F7 0C 0C 05 05 CD D8 F7 FA 19 7E FE FF CA BB FA 21 B1 F4
CHECKSUM >14662 CHECKSUM >15107 CHECKSUM >10741

F4 01 C2 BD F5 3A 80 F5 FE 01 C8 D1 C9 06 06 C5 3E 07 B0 32 59 F8 BE CA BB FA 77 C9 21 B5 FA 11 B6
3D 32 82 F5 C3 C7 F5 3A 82 F5 FE 06 0A 11 58 F8 CD 9A F7 C1 10 EE FA 01 05 00 36 3F ED B0 11 B0 FA
05 C8 3C 32 82 F5 2A B1 F5 CD F0 F5 EB C3 BC F8 16 0D 0C 10 00 20 20 20 06 08 CD 9A F7 06 06 21 B5 FA C5
F5 7E F5 E5 2A 7F F5 CD F0 F5 EB 20 20 20 20 20 11 00 00 2A BA F8 E5 CD BB FA E1 77 23 E5 11 B0 FA
E1 36 20 F1 12 2A B1 F5 22 7F F5 06 08 C5 7E E5 06 08 C5 A7 CB 07 06 08 CD 9A F7 E1 C1 10 EB CD BE
CD 36 F5 21 D0 07 11 04 00 CD B5 F5 DC EE F7 F1 1C C1 10 F3 E1 2B 02 7B FE 21 C2 08 FB CD 22 FA CD
03 F3 C9 2D 7D CB 27 CB 27 85 25 14 7B D6 08 5F C1 10 E4 C9 00 00 71 FA 06 06 21 B5 FA C5 E5 CD BB
84 26 00 6F 11 05 F5 19 C9 00 06 00 00 00 00 00 16 09 0D 10 0F FA E1 BE C1 C2 17 FB 23 10 F2 CD
FF C5 ED 5F 6F 3A 78 5C E6 3F 67 20 20 20 20 16 0A 0D 20 20 20 20 31 FB CD F5 F9 C9 21 64 00 E5 21
25 7E E6 03 32 83 F5 CD 84 F5 C1 16 0B 0D 20 20 20 20 16 0C 0D 20 D0 07 11 64 00 CD B5 03 F3 E1 E5
CHECKSUM >15076 CHECKSUM >8840 CHECKSUM >15945

10 E9 C9 CD 36 F5 CD 8E 02 F3 7B 20 20 20 16 09 12 10 17 41 16 0B F3 E1 23 3E 6E BC 20 F7 C9 00 00
FE FF CA 1F F6 CD 02 F6 C3 85 F6 12 10 0F 41 3E 00 32 8F F8 21 00 00 00 00 00 00 00 00 00 00 00 00
CD BE 02 F3 7B 21 B1 F4 BE CA 2C 00 22 8D F8 2A 7B 5C 3A BF F8 CB 00 00 00 00 00 00 00 00 00 00 00 00
F6 32 B1 F4 FE 25 C2 4E F6 3E 03 27 CB 27 CB 27 C6 07 06 00 4F 09 00 00 00 00 00 00 00 00 00 00 00
32 B3 F5 CD 84 F5 C3 2C F6 FE 26 22 8A F8 22 90 F8 11 92 F8 06 1B 00 00 00 00 00 00 00 00 00 00 00
C2 5E F6 3E 02 32 83 F5 CD 84 F5 3A BF F8 C6 41 32 B5 F8 CD 9A F7 00 00 00 00 00 00 00 00 00 00 00 00
C3 2C F6 FE 1A C2 6E F6 3E 01 32 CD 65 F8 2A 7B 5C 25 22 54 F7 11 00 00 00 00 00 00 00 00 00 00 00
83 F5 CD 84 F5 C3 2C F6 FE 22 C2 B6 F8 06 03 3A BF F8 C6 20 32 BB 00 00 00 00 00 00 00 00 00 00 00 00
7D F6 AF 32 83 F5 CD 84 F5 C3 2C F8 CD 9A F7 21 00 3C 22 54 F7 06 00 00 00 00 00 00 00 00 00 00 00
F6 FE 20 C2 2C F6 C3 BD F9 06 19 02 C5 ED 5B 8D F8 CD E7 F7 21 8B 00 00 00 00 00 00 00 00 00 00 00 00
CHECKSUM >17097 CHECKSUM >11841 CHECKSUM >1343
```

HISOFT

High Quality Microcomputer Software

Product Price Table

Machine Product	Spectrum	Amstrad	MSX	CP/M	QL
Pascal	25.00	29.95	29.95	39.95	
Devpac	14.00	21.95	19.95	39.95	19.95
C	25.00	34.95		*	(MON QL)
Ultrakit	9.45				
Font64		7.95	(Font designer/screen dump)		
The Knife		12.95	(CP/M disc editor)		
The Torch		12.95	(CP/M disc Tutorial)		

All prices in £ sterling. *Coming soon!

Here's what other people say about HiSoft Software:

Our Customers:

C "more addictive than any arcade game"
R. Walker

Devpac80 "a brilliant piece of software" A. Brown
Ultrakit "a great acquisition" J. Le Page

The Press:

Pascal "if you wish to teach yourself Pascal ... you won't go far wrong to buy HiSoft's Pascal" PCF 1/84

Devpac "it is impossible to recommend any other development package for the Spectrum" ECM 4/84

C "the most welcome addition to the Spectrum catalogue since Sinclair introduced the Microdrives" Sinc. User 12/84

Font64 "the manual is clear ... very simple to use" PCT 7/85

These are only a few of the glowing comments that we have on file showing that user and critic alike find HiSoft software offers a refreshing change of style.

We produce and market a wide range of high quality, professional and well-documented software packages for the popular home micros. Our type of software is becoming increasingly more popular as people get tired of zapping aliens and want to put their brains to work; learning new computer languages (Pascal, C, Devpac), investigating their computer's power (The Knife, The Torch) or being artistic (Font64), we have it all. Please feel free to write to us or phone for full technical details of any of our products. The above prices are fully inclusive and you can order directly from us or through your local computer shop.

Programmers: we are currently seeking to engage an experienced programmer to join our team in Dunstable. Please contact Sue on (0582) 696421 for further details.

HISOFT

180 High Street North,
Dunstable, Beds. LU6 1AT
Telephone (0582) 696421

POOLS PREDICTOR

SPECTRUM

PLUS **FREE RACING ANALYSER**

14,000 MATCH DATABASE

After three successful seasons, we know a thing or two about successful pools prediction on home computers. Things like seven powerful methods of analysing form. Like a massive database and easy data entry. Not forgetting tuning facilities to let you improve your forecasts as the season progresses. We've combined all of these and much more into the 1985/86 version of our renowned Football Pools Predictor Program. And to complete this outstanding punter's package, there is a free Racing Analyser Program to let you analyse any race using the racecard from your daily paper. Now beat that for value!

BOTH PROGRAMS
FOR ONLY

£8.99

MAYDAY SOFTWARE

181 Portland Crescent
Stanmore, Middx. HA7 1LR

MACHINE-CODED MAGIC FOR ZX SPECTRUM

THE ULTIMATE PRINT UTILITY

POWERPRINT II

THE PROGRAM THAT PRINTS ITS OWN ADVERTS.....

POSTERS **INSETS** **NOTICES**
BANNERS **STICKERS** **TICKETS**
ITEMS **BADGES** **NEWSLETTER AND MAGAZINE**
WINDOWS **PRICE TAGS**
CHARTS **LEAFLETS**
PROGRAM TITLES
INSTANT TYPESETTING
IN DOZENS OF EXCITING STYLES.

POWERPRINT UP TO 10FT. X 6FT.
...EVEN ON ZX PRINTER.

FOR: *** ZX PRINTER**
*** ALPHACOM 32**
*** FLOYD 40**
*** TIMEX 2040**

KEMPSTON E **TASMAN** **LPRINT III** **WITH: +EPSON MX80 +STAR DP510**
AND ANY INTERFACE THAT SUPPORTS
HI-RES SCREEN-COPY USING EITHER
'COPY' OR A USA 'XXXX' COMMAND.
(PLEASE STATE INTERFACE)
+SHINHUA JP-80 +SEIKOSHA GP80
+QUEN-DATA DP 100 +MICROLINE 80
AND ANY PRINTER THAT SUPPORTS
HI-RES SCREEN COPY.

GET NOTICED! SEND A SFT. LETTER TO BARRY TOOK... MADONNA.. YOUR MP.... IT'S SIMPLE WITH POWERPRINT II

FAST MAIL ORDER! **GUARANTEED SAME-DAY DESPATCH!!**

48K SPECTRUM
CASSETTE £7.99
MICRODRIVE
CARTRIDGE £10.99

SOFTWARE DISTRIBUTED
EUROPE, AUS. & CANADA
BY BUTTERCRAFT

BUTTERCRAFT

SOFTWARE

I've got a Kempston Centronics E printer interface and would like to produce a full width screen dump and get rid of all the blank lines between the text. Lawrence Owen, Brighton

Well, you can get rid of those nasty blank lines by using the CR (carriage return) setting on the printer, it's probably on LF (line feed) at the moment. Andrew Pennell's article *Dumps Of Distinction*, Your Spectrum 4, should help you with the full width problem.

When I connect up my Spectrum Plus, Currah MicroSpeech, ZX printer and Currah MicroSlot nothing works, though they work individually. Why? D. Piper, Blackwater

Sounds to me that you're experiencing what we in the trade call a power supply problem. Your best bet is to clean the contacts at the back of the ZX Spectrum and the MicroSlot.

I can't load Hyper Sports or Daley Thompson's Decathlon on my Spectrum version 2 although they load on my friend's Spectrum version 3. It's driving me potty. Simon Rabbell, Lancashire.

The games you mention use hyperload routines and the number that's read from the keyboard port is different on the version 3 Spectrum. Unfortunately the programmers haven't considered old users! There's only one answer — take the offending software back to the shop and ask for your money back.

Where can I buy the add-ons mentioned in Bits And Pieces, Your Spectrum 18? R Reed, Somerset

Most of the peripherals in Bits And Pieces cannot be purchased through retailers but you should be able to get them on mail order from the firms that supply them.

I recently moved to Canada and would like to use my Spectrum with a Canadian telly. Marco Nogueira, Canada.

Well, if the system used is NTSC, 525 lines your Spectrum will need a new VHF modulator and a different ULA to change the line frequency to 60HZ, 525

lines. I reckon you ought to get a second hand monitor or TV that works to British Standards (PAL, 625 lines, 50HZ). I don't think Sinclair will Americanise it.

Do you know of any 300 Baud terminal program that I can use for my Interface 1's port. Jean-Pierre Gibbard, Yaraville, Australia.

As a matter of fact I do! Paul Griffiths, (13 Andrews Road, Gospel Oak, Tipton, West Midlands DY4 0AW) has a version for text only transfer and a Dutch company called Microsource (Postbus 1243, 8001 BE Zwolle, Netherlands) sell a Prestel type program for the Interface 1. Drop 'em a line for details.

I'm a keen songwriter and want to use my Spectrum as a programmable synthesiser. Can you give me some advice on what equipment and software to use? Paul Allen, Liverpool

Sure can do! The MIDI interface would be the best as it'll allow you to interface many different synths and use the Spectrum to record and playback the sounds generated from the keyboard. You can control more than one synth so it'll be a good investment. You'll have to get software to suit the interface so you'd be well advised to look at combinations that'll suit your requirements.

My Spectrum works fine with a colour TV when connected up with a Currah MicroSpeech but it won't work properly with a Sony 124UB black and white TV. Why am I getting all this interference? Glynne McDonald, Dunbartonshire, Scotland

It sounds to me that the black and white TV should go in for a service. I reckon the sound and video signals are too close to each other causing the 'sound on vision' type of interference you describe.

Help! My poor Speccy is very sick indeed. It only produces black and white pictures. How can I get the colour back? J Beaton, Inverness

If you've got an issue 1 or 2 Spectrum then there's no problem — they've got a small capacitor inside that can be twiddled to adjust

AC erase and AC bias for recording on the unit so you shouldn't have any difficulties there. Have a look in the Maplins or AMBIT catalogue for the kit.

I have a problem. The trouble is I never know when to stop piling on the interfaces on my faithful ol' Speccy. I've already got five peripherals stacked on the back. Will I be pushing my luck if I add an RGB monitor interface? Graham Woodcott, Dorchester

I recommend you get an upgraded power supply and a MicroSlot interface as well 'cos all the RGB interfaces are dead-ended. Both Adapt Electronics and Ferguson do ones that are both pretty popular.

If I acquired an Interface 1, a microdrive and disk drive interface, such as OPUS or Kempston, that use microdrive commands, would I be able to transfer tapes to disk? R Grattan, Retford, Nottinghamshire

It's not very sensible to use two devices that use the same commands for a start. The Kempston interface (KDOS) would be the best bet 'cos it doesn't use the same microdrive commands — they're all prefixed by PRINT #4. It also uses a command that'll allow you to transfer tapes to disk without needing another interface.

How do I connect up a Spectrum Plus, microdrive and VTX5000? Malcolm Rose, Lytham, Lancs

Well, the Spectrum's connected to the Interface 1, the Interface 1's connected to the VTX5000 and the VTX5000 can then sit vertically behind the Interface 1 and that's the word of the Lord.

I've got a solution to the dot crawl problem you get with a Spectrum and monitor. Put a switch in series with the colour tuning capacitor (version 1 and 2's only). To eradicate dot crawl simply turn it off! This removes the colour and gives a perfect black and white signal to the monitor. T Van de Wart, Holland

Nice to see a tip for a change, thanks T. If anybody else has got a few hardware hints send 'em along to me at Hard Facts

HARD FACTS

Having hard times with your hardware? Write to Steve Adams and he'll give you a good time!

the colour. However, if you've got an issue 3 it could be anything in the colour circuit so it'd be best to get it looked at by a good repair firm.

How do you connect a Trend Printer 800 to a Spectrum?

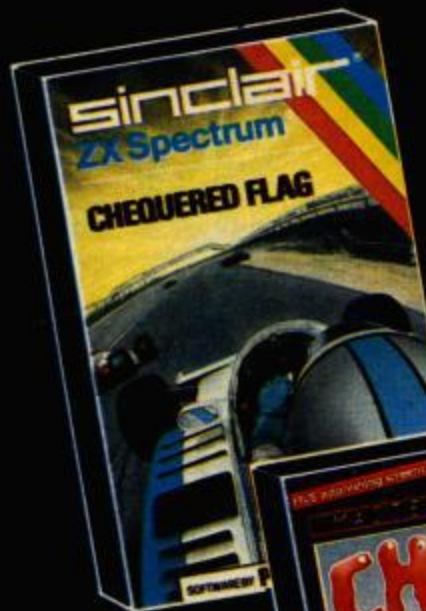
F Newberry, Portslade

Easy! You'll have to buy an Interface 1 and RS232 lead. Connect pins 5, 6 and 8 together inside the plug to make sure it works.

I know this sounds crazy but I'd like to turn an Ingersol XK696 data recorder into a tape recorder. Can it be done? J Robinson, Romford, Essex.

Well, you can try! The Load control can be used as a playback volume control but you'll need a separate pre-amplifier to plug into the AUX input. That way you can get the tone and volume you'll need to work from a MIC input. There's already an

**YOUR SINCLAIR
14, RATHBONE PLACE
LONDON W1P 1DE**



FREE GAMES!



YES....place an order for our magazine and we'll send you one of the above games absolutely free. We will also enrol you in our Discount Software Club enabling you to purchase software & utilities at huge savings over shop prices. We offer all the latest titles at up to £4 off shop prices (see panel for details) plus many older products at pocket money prices. In all we carry over 300 titles each for the Spectrum, Commodore 64 and Amstrad.

**SEE HOW YOU SAVE WITH
MR.SOFTWARE "BONUS" PRICES**

	Title	Shop Price	Bonus Price	You SAVE
SPECTRUM	Shadow of the Unicorn	14.95	11.45	£3.50
	Elite	14.95	10.95	£4.00
	Fighting Warrior	7.95	5.95	£2.00
	Spy v Spy	9.95	6.95	£3.00
	Tau Ceti	9.95	6.95	£3.00
	Frank Bruno's Boxing	6.95	3.95	£3.00
	Monty on the Run	7.95	5.95	£2.00
	Way of the Exploding Fist	9.95	6.95	£3.00
	Critical Mass	8.95	5.95	£3.00
	Starquake	7.95	5.95	£2.00
C-64	International Karate	6.50	4.50	£2.00
	Who Dares Wins II	7.95	5.45	£2.50
	Monty on the Run	9.95	6.95	£3.00
	Winter Games	9.95	7.95	£2.00
	Way of the Exploding Fist	9.95	6.95	£3.00
	Spy V Spy II	9.95	5.95	£4.00
AMSTRAD	Elite	14.95	11.45	£3.00
	ACE	10.95	7.95	£3.00
	Lords of Midnight	9.95	6.95	£3.00
	3D Grand Prix	8.95	6.95	£2.00
	Battle of Britain	9.95	7.95	£2.00
ACORN	Marsport	9.95	6.95	£3.00
	Match Day	8.95	6.45	£2.50
	Souls of Dakron	9.95	6.95	£3.00
	Space Invaders	9.95	6.95	£3.00

SIX MAGAZINES A YEAR

A subscription of just £5.00 will bring you six magazines a year through the post. Each magazine is packed with reviews of all the latest software, reader's game playing tips, competitions to enter, our reviewer's personal choices and a summary of how the other magazines rate the new releases.

HARDWARE AND UTILITIES SUPPLEMENT

Every new subscriber to the magazine gets a 24-page review of some of the more popular utilities — such as word processing software — and hardware including joysticks and Spectrum interfaces.

HOTLINE KEEPS YOU UP TO DATE

Subscribers to the magazine can 'phone our 24 hour Hotline for up to the minute news of the latest releases. A three minute recording, updated weekly, details the new titles and their prices. Credit card holders may order by phone too!

EASY ORDERING — FAST SERVICE

You can order from our substantial range as and when you like. There are no minimum order requirements — you don't have to buy anything at all. When you do order we do our best to despatch your goods within a week — often quicker.



SUBSCRIPTION FORM

CODE: 234

My computer is a: Spectrum Spectrum + Amstrad Commodore 64 / 128

I wish to subscribe to your magazine for the next 12 months and take advantage of the "Free Game" offer, for which I enclose £5 plus 75p post & packing for the free game. The game I would like

Finders Keepers Spellbound The Last V8 Chiller Chequered Flag
(All machines) **(Spectrum only)** **(C-64 only)** **(Amstrad only)** **(Spectrum Only)**

Note: If you would like to order some of the games shown in the panel above, list them on a separate

I enclose a cheque/postal order no. _____ value £ _____
or



I understand that if I am not fully satisfied with the goods, I may return them within fourteen days for a full refund of the cost of the games and the Magazine subscription.

Name (BLOCK CAPITALS)

Address

MR.SOFTWARE LIMITED
KELVIN HOUSE, TOTTERIDGE
AVENUE, HIGH WYCOMBE,
BUCKS HP13 6XG
(0494) 450751

*** Export Customers:** We welcome orders from all parts of the world, please note the following subscription and postage rates outside UK:- Europe – Subscription £7.00, Post £2; U.S.A. and Middle East – Subscription £9, Post £3; Australia, Far East and South Africa – Subscription £12.00, Post £4. Please note that all Magazines are despatched by Air Mail postage to keep you right up to date.

EXPRESS SPECTRUM, BBC & COMMODORE REPAIRS!

FREE!
2 FREE GAMES
(WORTH £10)
WITH EVERY REPAIR!*

*Spectrum repairs only

SPECTRUM REPAIRS
BETWEEN £9 and £20

BBC REPAIRS
BETWEEN £14 and £45

COMMODORE
REPAIRS BETWEEN
£14 and £35

When we say **NO HIDDEN COSTS** we mean it!

NO HIDDEN EXTRAS

FIRST to provide 'while-u-wait' service.

FIRST with international repairs.

FIRST to provide Insured/ Recorded Delivery on return journey.

FIRST with **LOW CHARGES** (e.g. £9 for keyboard faults).

FIRST with discounts for Schools, Hospitals and H.M. Forces.

FIRST to charge prices that are **FAIR** to you!, we do **NOT** charge **HIGH FIXED** prices!

WHY PAY HIGH FIXED PRICES? N.B. OUR PRICES INCLUDE **VAT**, P&P and **INSURED** Delivery!

REMEMBER WE HAVE A REPUTATION TO LIVE UP TO! If you must insist on paying a HIGH FIXED price of £19.95 + VAT = £22.95, we will donate the difference between that price and our charge, to the charity of your choice!

PHONE or SEND computer (without power supply or leads) for **FREE NO-OBLIGATION** estimate! If you don't like our estimate we will return your computer **AND** refund the postage incurred.



MANCOMP LTD.,

(Dept. YS 2/86),
Printworks Lane, Levenshulme,
Manchester M19 3JP.

WE set the
STANDARDS
and PRICES
others follow!

Tel: **061-224 1888**
or **061-224 9888**

ATTENTION ALL MANCOMP CUSTOMERS:

All repair companies have a legal obligation NOT to sell Sinclair spares to the public, otherwise our supplies get cut off and then we would go out of business.

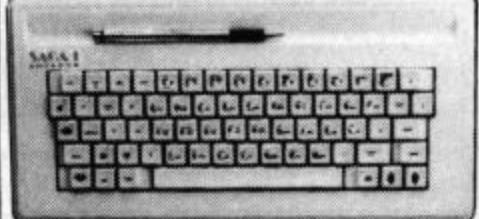
COMPARE OUR
GUARANTEE TERMS –
YOU DON'T FIND ANY
'HIDDEN CATCHES' –
AFTER THE REPAIR!

MANCOMP GUARANTEE

If the same fault occurs within 90 days of our repair, we will repair it **FREE** of charge **AND** refund the postage.

FAST, REPUTABLE,
HELPFUL, LOW-PRICE
SERVICE WHICH
REMAINS THE
BEST!!

THE BEST KEYBOARD
for **YOUR SPECTRUM**
The **SAGA 1 EMPEROR**



£39.95 inclusive!

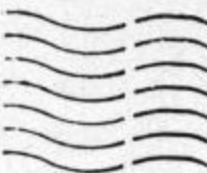
We repair hundreds of computers every week, so we can pass on our 'bulk-buying' discount to you ...

Z80A CPU – £1.50 4116 RAM – £0.50
SPECTRUM UPGRADE FITTED – £18

DANGER: Mancomp Wealth WARNING:
FIXED HIGH PRICES CAN
SERIOUSLY DAMAGE YOUR WEALTH!

OPEN
1 DAY
9am-8pm

1st by Popular Choice!



■ Brother EP 22 printer and typewriter with RS232 lead. Never used but may need adjustment to RS232 connections £90. Keithayton, 8 Raleigh Drive, Burncross, Sheffield, S30 4WR.

■ 48K Spectrum Interface I and microdrive, Currah speech and slot Kempston joystick interface, DK Tronics light pen and software £225 ono. Tel. (0296) 712848.

■ Microdrive and Interface I, still boxed, perfect condition £75 Sanyo cassette recorder, also perfect £12. 200 plus magazines £25. Your Spectrum 1,2,4 — £3 each. Tel. (061) 7739842 weekends only.

■ Spectrum 48K for sale plus 10 profile keyboard, joystick interface, two portable cassette recorders, magazines plus over 250 games. £200. Buyer will collect or straight swap for Commodore 64 plus C2N. (Hmmm! Ed). Paul Newall, 72 Dalmilling Crescent, Ayr, Scotland.

■ VTX 5000 Modem plus software — hardly used, boxed and includes *The Hackers Handbook*. £50 ono. Tel. Bognor Regis 823540.

■ Cassette recorder with volume, tone, auto level, tape counter, mains lead. VGC. Similar to BBC recorder, but silver/grey. Only £20. Write to John Heywood, 19 Molyneux Rd, Maghull, Liverpool.

■ Saga keyboard, boxed, £25. Currah microSpeech plus Mystic Tower tape £15. Currah MicroSlot, unused, £7. Or swap the lot for microdrive and Interface I. Tel. (0734) 332604 and ask for Ben.

■ VTX Modem. Five months old, as new, plus extra software £40. Software for running bulletin board with T-soft MBX, Cug's and much more £15. Also Currah MicroSpeech £15. Tel. (051) 4233381.

■ ZX Spectrum +, tape recorder, joystick interface, £80 worth of software incl. *JSW II*, *Way Of The Exploding Fist*. All for £150. Tel. Chandlers Ford 61062 and ask for Paul.

■ Spectrum 48K, 10 months old, with Kempston Interface and joystick, data recorder, over £150 worth of software, many recent titles, mags. All worth around £350. Tel. (093874) 310.

■ 48K Spectrum, radio cassette recorder, Kempston joystick interface. Scalextric with four cars, extra track, £20 or swap for C64 software. Tel. Ely 740672.

■ ZX Interface I, microdrive, three carts incl. *Ant Attack*. Brand new £65. Phone Runcorn 713498 after 4 pm. Also brand new unused boxed Interface I. £33.

■ Spectrum + printer, Protek Interface plus over 70 games. All guaranteed, brand new £250 ono. All games originals, many more. Tel. (0758) 612748 for details.

■ Spectrum 48K, turbo interface, Kempston compatible interface plus £180 worth of software, swap the above for a Commodore 64 and accessories. (Double hmmm! Ed). Tel. (0437) 5959 ask for Victor.

■ 48K Spectrum, Saga Emperor keyboard, microdrive and Interface I, Kempston joystick and interface with £300 of software including *Frankie, Fist*. Tel. (0423) 865418 ask for James. Offers around £250.

PEN PALS

■ Penpal wanted to swap adventure games and tips. I have lots of them! Send your list for mine. Hurry! Nuno Miranda, Av. Emílio Navarro, 19/A/1, 2750 Cascais, Portugal.

■ Penpal wanted aged 14. Into POKEs and arcade games — will swap games. I have the latest titles, *Super Test*, *Nightshade* and lots more. Darren Culley, 24 Gayland Avenue, Luton, Beds. LU2 0RR.

■ 17 year old Speccy owner wouldn't mind writing to a good looking female who likes Speccy's synths and Depeche Mode and music. Julian Phelps, 27 Worksop Road, Swallownest, Sheffield, S. Yorks. S31 0WA.

■ Penpal wanted. I like making graphics and m/c utilities. Also got lots of the latest games. Write to Peter van den Kooi, Bekhinghof g, Hoogeveen, Holland 7908 BS.

■ Male penpal wanted, about 13 years old, to swap games, POKEs and hints. I like arcade-type games and football. Tel. Craig (0382) 25076.

■ 15 year old Spectrum owner wants female or male Spectrum owner to swap software, POKEs etc. Tel. 850760 or write to Adrian Roberts, 75 Elvaston Road.

■ Penpal wanted male or female, aged 14+, for male Speccy wrecker. Interested in music, (pop), anything to do with micros etc. 39 West Lane, Burn, nr. Selby, N. Yorks. YO8 8LR, Richard Shore.

■ Foreign penpal wanted to swap games. I have a very large selection of English games. Please send your list with letter. Write to Dave Wild, 22 Lansbury Road, Edwinstowe, Notts. NG21 9QJ.

■ Female penpal wanted to exchange hints and tips etc., and for general correspondence. Must be 17. Write to Daryl Baughan, 12 The Island, Steeple Clayden, Buckingham, Bucks. MK18 2NU.

■ I would like a penpal who is good at playing and finishing adventure games to give hints and swap games. Martin Gormley, 51 Walter Street, Dennistown, Glasgow G31 4PX.

■ Penpal wanted, male aged 15-16. Must be beginner in Basic. Write to Michelle Farrell, 5 York House, Beech Road, Sowerby Bridge, W. Yorks. HX6 2LH.

■ Hi there, any Aussies wanna swap software, POKEs, etc.? Please send list. All letters answered. Any under-Spectrumized countries may apply. Dean Paradise, 5 South Road, Block 10, Broken Hill, Australia. 2580.

■ I am 17 and would like a penpal to write about all topics but especially the old ardently loved Speccy. All letters guaranteed answered. Please write to Eckhard Rodel, Lehrstr. 13, 7535 Ko. — Stein 2, West Germany.

■ Hi! I'm Nabeed and would like a penpal aged 12-14 to swap games, POKEs, hints, games and anything else. Please write to me, someone! Nabeed Ramzan, 25 George Street, Dunplane, Perthshire FK8 9HE.

■ Penpal wanted, male/female, aged 13/14, interested in swapping sci-fi and combat games and POKEs for the Spectrum. I also like pop music. Please write to Andrew Small, 6 Fairway, Chatteris, Cambs. PE16 6ST.

■ Sensible person sought, 21+ for trivial and not so trivial programming and Spectrum use. Preferably with VTX 5000 modem and in London. Richard Brown, 14C Saint Paul's Terrace, London SE17 3QH.

■ Female penpal 16-18 wanted for swapping games, hints, ideas. I'm 18 and interested in all kinds of music, football, tennis, basketball. I'm waiting for your offers. Please write, Arthur Sepien, P.M.B. 5437, Department of Pathology, M.M.H. Kano, Nigeria.

■ I'm 15 and would like a female penpal who is about 15-16. I'm interested in all Speccy stuff and Madonna. Please send a photograph. Alex Taylor, 7 Halifax Way, Newmarket, Suffolk, CB8 0DH.

■ 17 year old Australian who loves his Spectrum wishes to correspond with dedicated British Spectrum games buff to swap games, hints, news, etc. Please write to Ian Newman, 97 Springdale Road, Killara, 2071, N.S.W., Australia.

■ Dutch boy, 16, wants a penpal to swap games, tips etc. Write to Rene Klootwijk, Eliotplaats 199, Rotterdam, Holland. 3060 EK.

■ I'm a female Speccy lover, and would like a male penpal, 15+. My likes include computers, discs, FGTH — please send photo to Louiz Wright, 42 Bickham Park Road, Peverell, Plymouth PL3 4QL.

■ 14-17 year old penpal required into games, programming and Madonna. Male or female to swap games etc. I have about 500 games. Will return all letters received (tape or letter). David Moore, 5 Burdett Close, Skegness, Lincs. PE25 2NY.

■ A 15+ female penpal required. Write to John Clarke, 55 St. Mary's Stratford upon Avon, Warwickshire, CV37 6XG. I love hacking and adore pop music. Give a bloke a chance.

■ Penpal, male or female, 15+ to swap POKEs, hints and tips. Must have some knowledge of machine code. Steve Kidd, 88, Whitefield Loan, Whitfield, Dundee.

■ Penpal wanted to swap POKEs, hints, games. I have over 200 incl. *H Encounter*, *Nodes Of Yesod*, *Dambusters*. Write to Jonathan Cook, 217 Crescent Road, Brentwood, Essex, CM4 5JB.

■ Speccy user just got a microdrive. Would like a girl penpal abroad. Should be my age — 13. Phone soon, please! Gregory Pound, (0944) 946.

■ Girl penpals wanted. We are interested in computers, music, reading, water polo and fun. Tim and Marc, 5 St Brelades Road, Ballantyne Park, Harare, Zimbabwe.

■ Wanted — Interface 1 plus microdrive. Will swap £110 worth of software. M. Leah, 20 Oakworth Grove, Halfway, Sheffield, S19 5SE or phone (0742) 485736 after 4 pm and ask for Mark.

■ ZX Printer + paper. Will swap your Spectrum copies 1-12. Write to Gary Davison, 80 Barn Rise, Seaford, East Sussex.

■ ZX Printer wanted in good condition. Have light pen or programmable sound generator to swap or cash. Tel. (0438) 354177, ask for John.

■ *Willy meets the Taxman* wanted to complete *Miner Willy Saga*. Swap for *Runes Of Zendos* and/or *Ghostbusters*. Write to Peter Brown, 53, Windsor Road, Cambridge, CB4 3JL.

■ Will swap collection of railway books and

magazines for Commodore 64 computer system. J. C. McNeill, 15 Dalnottar Drive, Old Kilpatrick, Strathclyde, G60 5DP.

■ Wanted. A broken WH Smith's data record CPD8300. For spares. Please write with details to Alan Salmon, 422 Nore Road, Portishead, Bristol, BS20 8HA.

■ Currah MicroSpeech or Quickshot 2. Will swap *Frank Bruno's Spy Hunter*, *Match Day*, *Ghostbusters*, *Broad Street*, *Moon Alert* and loads of others. Tel. 01-471 1983 and ask for Neil.

■ Wanted. Tronic light pen. Will swap *Mugsy*, *Cookie*, *Super Spy* and *Election*. Tel. 01-459 5496 and ask for John.

■ Wanted. Interface I; would consider one with a microdrive working or non-working order. Must be very reasonable. Also wanted, *Hunter Killer*. Tel. (0843) 685222 Evgs.

■ Wanted. Crash issues 1 and 2 plus issues of *Your Spectrum* 2 and 3. Will give anything up to £2.50 per issue. Darren Say, 40 Rutland Place, Maidenhead, Berkshire SL6 4JA.

■ *Moon Cresta*, *On The Run*, *007 spy latest*. Send your list for mine. Write to Dave Wild, 22 Lansbury Road, Edwinstowe, Notts NG21 9QJ.

■ *Understanding Your Spectrum and the Complete Spectrum ROM Disassembly*. Both from Melbourne House — name cond and price. M. Coombes, 61 Clarkes Avenue, Worcester Park, Surrey KT4 8QA.

■ Interface plus microdrive plus stringy things or Opus Disk drive or letter quality sheet printer plus interface and software for Sony pocketsize cordless telephone/intercom with up to 1500ft. range. Almost new. Boxed. Tel. Wickford 63884 Evenings.

■ *Your Spectrum* issues 2,6,7 and 11 wanted. Will swap for any two of *Gremmils*, *Sabre Wulf*, *Knight Lore* or *Alien 8*. Tel. 042483 and ask for Danny.

■ The Illustrator urgently wanted. Will swap for *Sabre Wulf*, *Hurg* and *Hunchback*. Philippe Dirckse, Maasricht 9, Neer, Holland, 6086 NL.

■ Issue 11 of *Your Spectrum* wanted. Will pay £2. Tel. Steve on Chelmsford 81525 after 5.30 pm.

■ Urgent!! Spectrum rubber keyboard wanted. Will pay up to £3.50. Tel. Halifax 203739 and ask for Neil Kendall. Or write to 12 The Avenue, Hipperholme, Halifax, West Yorkshire. HX3 8NP.

■ Wanted. *Ket Trilogy* by Level 9 — swap for *Sherlock* by Melbourne House, and *Black Crystal*. G. Bourner, 77 Crewe Road, Airedale, Castleford, West Yorkshire, WF10 3NG.

■ Wanted. Interface 1 and microdrive. Will swap for DK Tronics light pen. Wild Command Control joystick and Kempston compatible Interface. Tel. (0326) 290459 and ask for Sean.

■ ZX Jet Set Willy map and POKEs wanted for *Alien 8*, *Dun Darach* and *Dynamite Dan* maps or Timegate. Write to Graham Miller, 49 Constance Street, County Durham DH8 5DN.

■ Wanted — guide book or solution book to *The Hobbit*. Any help accepted. A. Mulhall, 2 Upper Lord Street, Oswestry, Shropshire SY11 1LT.

■ Extensive ZX81 System, must have lots of hardware, tons of software and be in perfect working order. Will give my perfectly working Spectrum. Tel. Andrew on (0639) 750952.

■ Microdrive and Interface 1 will swap for some VTX 5000, Currah MicroSpeech, Ram Turbo Joystick Interface. Phone Andrew after 5 pm on (0639) 750952. Also interested in swapping software.

■ Interface One wanted and microdrive for ZX Spectrum. Tel. (0227) 720654.

■ Wanted! Your hardware for my games. Interested in interfaces, lightpens, joysticks etc. Write to Calle Nordlund, Barkspadevagen, 75247 Uppsala, Sweden. Your list for mine.

■ Required — issues 2,7,9,11 to complete set. Pay £1.50. Tel. David (031) 449 5315.

■ Wanted — Video Digitiser or schematic diagram for linked video monochrome camera to Spectrum. Write to Alan Cupif, Langeasse 97 CK-4104, Oberwil, Switzerland.

■ Wanted — Crash issues 19 & 20 and *Your Spectrum* 17 & 18. Will swap for any two of new software, including *Exploding Fist*, *Dambusters*. Write to Paloska Zeljko, Ho-Si-Minova 5, 11070 Novi Beograd, Yugoslavia.

■ Wanted — manual for Spectrum, old style. Please Tel. Chelmsford (0245) 358473 and ask for Ian.

■ Digital sound sampling unit wanted (Datei Electronics). Will swap for Currah MicroSpeech and software games (*Frankie*, *Nodes Of Yesod* etc.). Tel. (0686) 28730 and ask for Paul.

■ Carnival by Eclipse wanted — will swap. Please write to T. Longstaff, 1 Worcester Road, Durham. Tel. (0385) 66606.

■ Wanted. Hisoft or Oxford Pascal, Machine Lightning, Beta Basic 3, Crystal disassembler, (goes with Zeus). Send address and phone no. and details to Andrew Burnham, William Morris Hall, Ashby Road, Loughborough, Leics LE11 3TQ.

■ Wanted: Currah MicroSpeech, light pen or other accessory. Will swap for *Pool*, *Byte Bitten*, *Booty*, *Mr Wimpey*, *Lunar Jetman*, *Angler*, *Nifty Lifty* and more.. Tel. (0326) 785767 between 6 and 8.

■ Wanted: Kempston Turbo Interface, Quickshot 2 plus circular robot arm. Willing to pay reasonable prices. Write to Andrew Campbell, 413 Enniskillen Craigavon, Northern Ireland.

■ 4 x 2 Wanted: *Your Spectrum* issues 1 to 11 — please write to Edmund Behrendorf, Uuelhemmer Weg 14 5401 St. Sebastian, West Germany.

■ Wanted. Epson P-40 printer with adaptor, paper and suitable interface for Spectrum. Will swap for hand held Palman, some games and radio cassette recorder. Tel. (0535) 44302, ask for Clive.

■ Wanted. Microdrive Demo cartridge as supplied with expansion system. Tel. JR Greenwood on (0282) 65154.

■ Wanted. Alphacom 32 or Floyd 40 printer. Will swap 6 games worth £47. *Automania*, *Pyjamarama*, *Boulderdash*, *Gyron*, *MATC* and *Ant Attack*. Tel. Rainham 54333 and ask for Neil.

■ Datei sound sampler wanted. Will swap for Currah MicroSpeech, DK Tronics light pen, *Sherlock*, *Nightshade* and *Starion*. Tel. (061) 7158 after 5.

■ Wanted. Ram Turbo Interface. Will swap for programmable Interface and *Alien 8*. Tel. (0782) 620770 and ask for Paul.

MESSAGES, CLUBS & EVENTS

■ International Beta-disk User Club. Want to join or get details? Contact Per H. Kristensen, Norresbakken 111, 8800, Viborg, Denmark. Phone +45 61 2968.

■ POKEs, maps and tips FREE! Loads and loads of POKEs, maps and tips. You will not be disappointed. Send an eae to Mark Cairns, 'Glenfield House, 246 Comber Road, Lisburn, Co. Antrim, BT27 6XZ.

■ I have all YS issues. Send cash offers, software or hardware swaps, etc. A Steen, 194 King Street, Dukinfield, Cheshire, SK16 4TY.

■ Hi Hak and Leigh. I love you Leigh. Happy hacking Hak and I hope your Speccy cools down for Christmas. How's Mark, Tina? Bye for now, love from Joe. Mark Harris, Flat 4, Freshford Mansions, Atlantic Road South, Weston-Super-Mare, Avon.

■ YS issues 1 to 18 except 9. Ant poster. All as new. Any offers for all or buy issues. Joe Bakewell, Barrow-in-Furness, Cumbria.

■ Happy birthday Katy and Andy. Butch broke his Speccy so, Sophie, buy him another don't you think? Tracy, Jonny and Quincy.

■ Here's a message for anybody with a broken joystick. I repair them cheaply — mostly Quickshots. Send eae to Wayne Griffin, 27, Melling Road, Aintree, Liverpool, L9 0LE.

■ Help wanted. Studying Ideal Schools Computer Course and help needed with lessons 6 to 10. Any help rewarded. Contact Irene Blackhall, 48 Polmuir Road, Aberdeen.

■ Spectrum High Score magazine. Loads of tips, POKEs and scores. For latest issue send 20p piece plus stamp to Anthony Marshall, 41 Loders Green, Eastfield, Scarborough, N. Yorks, YO11 3LB.

■ I have all YS issues. Anyone interested? Offers in writing to Robert Lawes, 4 Meadow Croft, Rogiet, Newport, Gwent, Wales NP6 3SR.

■ Your Spectrum magazine collection (1 to 18) on offer. Phone Tom during evening meals. Phone 202116 (Brighton code).

■ Hi Darren Rabbit Hornsby. My poor erauqs has a common code. Please make it "new" again. No sarky comments from this so called Ed. T.P. for Editor. (Hooray! T.P.). Robert Excellent Bell.

■ Back issues! Your Spectrum, nos 1 to 18, *Sinclair User*, *Crash*, *Your Computer*, *16/48* etc. For complete list and prices write to Keith Johnston, 3 Navar Court, Bangor, Co. Down, N. Ireland BT19 2PS. Enclose eae.

■ I would like to know POKEs for all the games. I'm waiting for your hints. Mario Manuel Silva Cunha, Outeiro — Calendario, 4760 U.N. Famalicao, Portugal.

■ I've got millions of POKEs, tips'n'maps to swap for games or will sell separately. Phone Hindley 55633 after 4 pm and ask for James.

■ Your Spectrum copies 1 to 12. I'd like a ZX printer, if possible, with paper. Write to Gary Davison, 80, Barn Rise, Seaford, East Sussex, BN25 3DD.

■ Problem? No problem! Bored genius seeks mental exercise. Any Speccy related problem guaranteed solved. Write and/or tape with eae to Mick West, 205 Palatine Road, Manchester, M20 8TU.

■ Alan Hassall from Lisburn Lane, Liverpool please answer my tape 1 letter. I don't think you play fair game in this way. Arie. Arie Baars, J. Steenstr. 95, 7606 XW Almelo, Holland.



ADVANCE WITH SAGA



After adding our products to your Spectrum, your Spectrum will not merely become a superior computer but a more complete computer system.

The SAGA keyboards, culminating in the new SAGA 3 ELITE, provide your Spectrum with the sheer elegance that it deserves. The SAGA 3 ELITE incorporates the most recent technology in keyboard design which provides 27 single entry functions.

If you would like graphics with real Style, then they are yours with our latest graphics package, while letter quality print can be produced for less than £120 from our new printer.

Just cut out the Coupon below for any of the following products:

SAGA 1 EMPEROR 67 keys enable easy access to every function, making obsolete the "Stretch requirement" of other keyboards. Now only £39.95

SAGA 2 PROFILE A re-design of the popular Lo Profile with number pad, 52 keys. £49.95

SAGA 3 ELITE recently developed, the SAGA 3 ELITE is the finest available keyboard for your Spectrum. The keyboard and number pad has 87 keys in total, a massive 27 keys are auto-shifted. £79.95

SAGA SYSTEMS LIMITED
(04862) 22977



**KEEPING YOUR COMPUTER
UP TO DATE**

QUANTITY

SAGA 1 EMPEROR	<input type="checkbox"/>	*£39.95	P&P £1.50	_____
SAGA 2 PROFILE	<input type="checkbox"/>	*£49.95	£1.50	_____
SAGA 3 ELITE	<input type="checkbox"/>	*£79.95	£1.85	_____
DUSTCOVER	<input type="checkbox"/>	*£4.95	FREE	_____
STYLE	<input type="checkbox"/>	*£29.95	FREE	_____
SAGA GP	<input type="checkbox"/>	*£79.95	£1.50	_____
LTR-1 PRINTER	<input type="checkbox"/>	*£119.95	£2.30	_____
SOUNDBOOST	<input type="checkbox"/>	*£9.95	FREE	_____
FLEXICABLE	<input type="checkbox"/>	*£11.95	FREE	_____
TURBO INTERFACE	<input type="checkbox"/>	*£21.95	£1	_____

VAT is included

Overseas orders, please deduct 15% VAT add £3 for postage excess.

SEND YOUR ORDER TO: Dept YS10 Order Desk Saga Systems Limited, 2 Eve Road, Woking, Surrey GU21 4JT.

Mr/Mrs/Miss _____
Address _____

Amount enclosed £ _____

My Access Card No. is ACCESS ONLY ACCEPTED

Please tick method of payment: PO Cheque Draft Access

If this is confirmation of telephone order, please tick box

Signature _____ Date _____

Please allow 28 days for delivery.

Limited quantities of the original low profile keyboard are available at only £39.95 inc. V.A.T. + £1.50 P&P.



BACKLASH

Iolo Davidson — On the Other Hand . . .

The financial crisis at Sinclair Research must have been dire indeed for Sir to have publicly stated that he thought Robert Maxwell would be better than himself at running the business side of the company. And just to get the egotistical magnate to front up a few readies. (We can't be sued for revealing that Maxwell is an egotist, can we?)

According to the *Sunday Times*, the Mirror Group's heading for a twenty-five million pound loss this year, after an unprecedented drop in circulation on all three of its national newspapers. Perhaps this is the reason that the Sinclair/Maxwell deal fell through. Maxwell may have suddenly realised that he didn't have ten million to spare. Or Sinclair may have realised that Maxwell didn't have ten million to spare. Sir is not, after all, as hopeless at business as he sometimes makes out — even if he does hang round with that Mensa crowd!

It's become almost obligatory for journalists to snipe at Sinclair. Even the television people seem to have changed over from 'entrepreneurial genius' to 'unsold stocks of C5s'. I predict that this means the badmouthing phase is now over. Once the telly gets hold of something it's dead as a story, and we visionaries in the specialist press have to write articles that go 'On the other hand . . .' I mean, you don't want me to tell you the same rubbish you hear every night on the box, do you? So we'll just lose likeable Uncle Clive the bumbling inventor, and in his place find Sir Clive 'Fifty Pence on the Pound' Sinclair, close-mouthed tycoon.

When you think about it, Sir

Clive's most successful innovations haven't been the genuinely new technology, such as the folded cathode ray tube in the miniature flat telly, but the hard-headed businesslike cost cutters like the membrane keyboard. Hands up everyone who actually likes the Spectrum (or QL) keyboard. Gosh, what a strange looking hand! Of course you were never meant to like the keyboard, you were meant to like the price, and millions of you did.

Sir didn't invent the home computer, but he did manufacture the first one that everyone could afford. The membrane keyboard and the ULA are the things that made the hundred quid computer possible, and they were available to any manufacturer. But Sinclair was the quickest to see the business possibilities of what were essentially compromises rather than technical advances.

The general public had no reason to notice Sir Clive until the advent of the home computer boom, but he's been around for a very long time. If you think Sinclair's first computer was the ZX81 — or for those who remember it, the ZX80 — then you're wrong.

The first was the mail order MK 14 Computer kit in 1978. It had a hexadecimal membrane keyboard, a quarter K of RAM, a calculator style display, and the cassette interface was an optional extra. Admittedly, it wasn't sold under the Sinclair name but as a product of Science of Cambridge Limited. But this company later marketed the Sinclair ZX80, so we can jump straight to the obvious conclusion — it was Sir Clive all along. When the ZX81 came along, Science of

Cambridge disappeared and Sinclair Research was born.

But Sinclair's history goes back long before that. Hardly anyone in the computer generation will remember the Black Watch fiasco. What looked like a highly desirable product, an early LED digital watch, couldn't be supplied in sufficient numbers because the maker of a vital chip let Sinclair down. Sinclair did much better out of the calculator boom of the mid seventies, producing half a dozen different models that sold in large numbers. There was even one that would strap on your wrist, but that was available only as a kit! The wrist calculator was sold by a company called Sinclair Instrument Limited.

You have to be one of the older electronics nuts to remember Sinclair Radionics Limited of the late sixties and early seventies. It sold Hi-Fi amplifier modules, odd polystyrene foam speakers, and the 'world's smallest' transistor radio, the Micromatic. This was a very successful company, one that regularly booked lyrical four page advertising spreads in the electronics mags. The equipment itself was very much what we've come to expect from Sinclair — high specifications, compact size, suspect reliability, and a bargain price.

Sinclair Radionics moved out of Hi-Fi into calculators and digital multimeters. They got the Queens Award to Industry in 1978, then became Sinclair Electronics Ltd, making oscilloscopes, frequency meters, and even logic analyzers, under the brand name 'Thandar'. Last I noticed it was Thandar Electronics Ltd. and still going strong.

Only the incredibly ancient

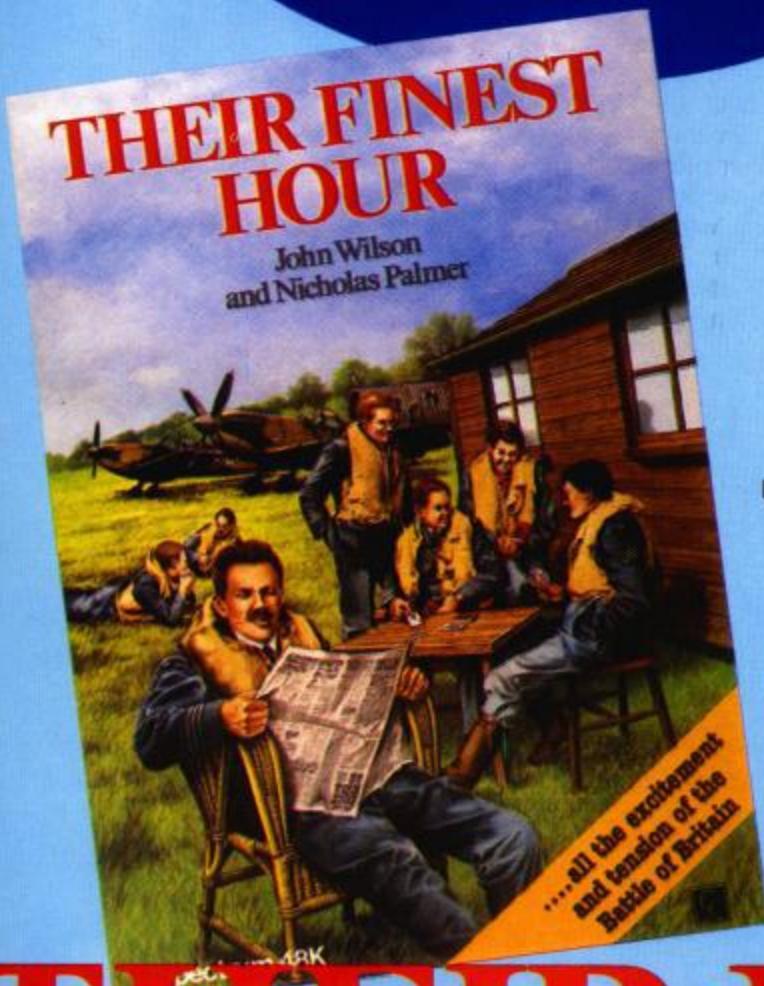
will remember Sir Clive's first business, and I don't admit to being as old as all that. The story goes that he earned a crumb or two in the days when semi-conductors were exotic and expensive by buying up manufacturer's out-of-spec transistors, sorting out the useful ones with a transistor tester and selling them at knock-down prices to electronics hobbyists. This make-do-and-mend beginning has stood our entrepreneur in good stead through the years. Even in the Spectrum, manufacturers' fallouts were used to keep memory costs down by using just the good halves of partially functioning memory chips.

So Sir has a record of business success going back more than twenty years. Those of you who admire this record and who wouldn't mind emulating it are now in luck. Before giving himself over fully to business activities, Sir Clive did a little writing. Naturally, he quickly realised that this was no activity for a grown-up person and desisted, but like Joanna Lumley's early video appearances, the evidence remains.

An afternoon's scholarly research through his adolescent indiscretions has revealed to me the whole secret of Sinclair's success. With a single cantrip he combines science and art and produces gold from dross. Here it is, from Clive Sinclair's own book *Transistor Subminiature Receivers Handbook for the Home Constructor*, and I quote: 'Simplifying circuits and obtaining the maximum performance from a limited number of components is an intriguing pastime.'

Now those are the words of a born businessman.

* Bernards Radio Manuals No. 174, (C) 1961, six shillings and sixpence at all good back street valve wireless emporiums.



THEIR FINEST HOUR



Their Finest Hour — a great strategy game simulating The Battle of Britain, by Nicholas Palmer and John Wilson. Published by Century Communications for the 48K Spectrum at £9.95.

"What's that picture supposed to be?"

"Er, eye-catching, that's what it's supposed to be."

"But it doesn't tell you anything about the great new icon-driven Battle of Britain strategy game, THEIR FINEST HOUR, from Century Communications, publishers of THE FOURTH PROTOCOL. I mean, what's it got to do with using your skill and judgement to stem the almost inexorable advance of Goering's Luftwaffe? Does it tell you anything about the deployment of Spitfire squadrons and ack-ack batteries, the allocation of fresh pilots, or keeping in touch with the weather forecast? How about the daily reports you have to make to Winston Churchill, and the pulse rate feature where you control the speed of the game?"

"Well, er ..."

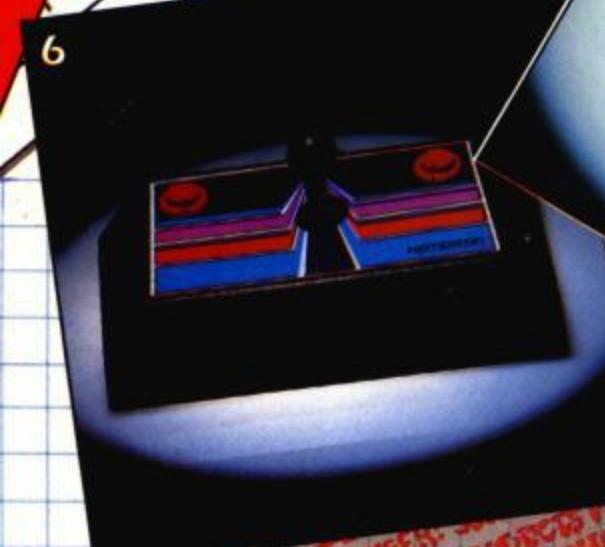
"Right, we'd better hurry up and design a new ad before the game hits the streets on 9 December, and people start writing to and phoning Century Communications at 62-65 Chandos Place, London WC2N 4NW, Tel: 01-240 3411 and asking for copies."

48K Spectrum



KEMPSTON
MICRO ELECTRONICS LTD

NEW GRAND
PRIX SERIES!



Available directly from Kempston Micro Electronics Ltd Fast Mail order service. Please send me the following

Name

Address

Postcode

<input type="checkbox"/> 1	Kempston Joystick Interface	£ 9.95
<input type="checkbox"/> 2	Tri-State Joystick Interface	£12.95
<input type="checkbox"/> 3	Formula 2 Joystick	£11.95
<input type="checkbox"/> 4	Kempston Pro Joystick Interface	£16.95
<input type="checkbox"/> 5	Formula 1 Joystick	£16.95
<input type="checkbox"/> 6	Scoreboard Joystick	£19.95

SPECIAL COMBINATION OFFER

- Formula One Joystick + Joystick Interface
- Formula Two Joystick + Joystick Interface
- Access/B'card

£19.95
£17.50

NEW GRAND PRIX SERIES!

All Prices include VAT P&P. Overseas add £4 P&P

Kempston Micro Electronics Ltd, Singer Way, Kempston, Bedford MK42 7AW.
Tel (0234) 856633 Telex 826078 KEMPMI G