

# POPULAR COMPUTING

A FOCUS MAGAZINES PUBLICATION

Dec 31 1987-Jan 6 1988 60p WEEKLY

## This Week

- ☐ **News** ..... p. 1-11  
Elite's 16-bit plans for 1988  
- low price surprise  
Amstrad PCW 9512 sales  
disappointment  
New PC software deal for  
Rymans
- ☐ **Bonecruncher  
competition** ..... p. 7  
Thirty games must be won!
- ☐ **News Analysis** ..... p. 10  
What went wrong at Nexus?
- ☐ **Software** ..... p. 12  
Synth Works for the Yamaha  
synthesisers
- ☐ **Game of the Week**  
*Jinxter* from Magnetic Scrolls  
on the ST ..... p. 15



- ☐ **Games** ..... p. 16-25  
*Microleague Wrestling*,  
*Scrupes*, *Out Run*. The very  
latest games reviewed in full  
colour
- ☐ **Software** ..... p. 26-27  
The Digipic video digitiser
- ☐ **Hardware** ..... p. 28  
The Miles Gordon +D disc  
interface reviewed.
- ☐ **Listings** ..... p. 37-41
- ☐ **Comment, puzzle**.. p. 54

## New virus shocker

THE Amiga Virus has found its way on to official software from a London dealer. The problem seems to be caused by shop demonstration machines being infected and the virus then passing to demonstration copies of the game.

Three out of 20 copies of the Electronic Arts Test Drive at GMB Electronics in London's Tottenham Court Road produced the familiar message "Something wonderful has happened. Your Amiga is alive".

A GMB spokesperson confirmed that the 17 virus-free copies had since been sold.

"People were desperate for it. We informed them that the games

might have the virus and we sold the games only to people familiar to the Amiga who would know what to do if the virus appeared," a spokesperson said.

At first, Mark Lewis, European publisher of Electronic Arts was under the impression that the problem with the copies of Test Drive was caused by people trying to load the game prematurely. When told that the virus message had appeared, he denied that the virus was present at Electronic Arts.

"There is no way the copies could have come straight from the duplicator. There is no Amiga involved in the process," he said. It was his opinion that the games



Test Drive.

were not pristine copies.

The spokesperson for GMB Electronics was adamant. "The copies came direct via courier from Electronic Arts. So far as we are concerned, they are the genuine thing."

It is possible for Virus to get on to discs, since new discs are sent

continued on page 7 ►

## Gremlin's film action



Courtesy of Cannon Films.

*MASTER Of The Universe* is the first live-action film to have been created from a toy-line and, having acquired its exclusive licence, Gremlin recently released a computer game based on the film.

Gremlin boss, Ian Stewart, is 'absolutely confident' that the game will be a success, predom-

antly because Cannon had an almost unlimited budget in promoting the film. "It was one of the best organised launches concerning a film company," said Stewart.

No child could have escaped the Masters mania over Christmas and Gremlin were there riding on the back of all the hype.

Pizza Hut and the Daily Mirror were among those giving special offers on the Masters film and associated products.

Stewart's faith in the product was reflected by the fact that the game actually pre-empted the film's Boxing Day release by ten days. Normally, the game version would follow the film a few months later, in case the film flopped.

Many film-licensed games deviate from the actual storyline, merely using the main character. According to Stewart, the *Masters Of The Universe* computer game remains faithful to the motion picture.

Five key elements from the film have been chosen and Gremlin has made these into different parts of the game, providing considerable variation in gameplay.

In addition, some of the characters of the film are also incorpo-

continued on page 6 ►



# THE ULTIMATE AERIAL EXPERIENCE! NOW AVAILABLE FOR YOUR COMPUTER

All the thrills and skills of real skateboarding in this unique challenge to become champion of the skating world. Starting out from 'Skate City' test your abilities amongst the numerous skateparks, improving your techniques both in freestyle and competitive action as you attempt to complete the ultimate manoeuvre – the 720 degree twist while soaring through the air.



**ATARI**  
GAMES

**CBM64/128**

**£11-99** Disk

**£9-99** Tape

**Spectrum**

**£8-99** Tape

**Amstrad**

**£14-99** Disk

**£9-99** Tape

Screen shots from Arcade version.

U.S. Gold Ltd., Units 2/3 Holford Way, Holford, BIRMINGHAM B6 7AX. Tel: 021 356 3388



**C**hristmas is over for another year. As the nation prepares to turn its back on all those socks, book tokens and, yes, computers, we cannot help wondering what will be the big deal for Christmas 1988.

Think it through. There is clearly a gap opening in the now ageing games computer market. After six or seven years the market for games computers has crystallised with a number of groups – the youngsters playing games for the first time, dedicated users of a particular machine, and older users who started on a Spectrum and now use an Amiga or Atari.

In those circumstances the whole affair starts to look rather tired. All the machines on offer, brilliant though they are, are variations on a now elderly and rather limited format. It happens to be a format successful enough to pay many salaries, but the keyboard/joystick/monitor way of manipulating blobs of colour, on New Year's Eve, looks distinctly passé.

The vast sales of the Atari ST during the festive season have proved that it still has a strong attraction but are we really to believe that the combined brains of Atari, Commodore, Amstrad and the rest can provide nothing better? If that is the case, the market will surely stagnate in two years at best.

It is obvious that a radical injection of new life must and will be put into games computing. It must be for new people to be attracted to it as a leisure activity. We are often told that the market is "growing up", although this is more often cited as evidence of a shift towards 16-bit machines. As a self-fulfilling prophecy on the part of hardware manufacturers it sounds limiting.

Atari has already nailed its colours to the mast of the future with its soon-come CD-Rom machine. Obviously that kind of interactive video/computer game concept is the thing of the future, but whereas some see it happening in five years, there is every reason to suspect that the late 1980s will mark its arrival in a big way.

One company has its finger in several of these pies already. It has also proved its ability to bring new combinations of existing technologies to the market at an exceptionally low price. For Christmas 1988 look for the Amstrad interactive CD unit.

John Brissenden

## POPULAR COMPUTING WEEKLY

A FOCUS MAGAZINES PUBLICATION

Vol. 6: No. 52

**Executive Editor** Francis Jago  
**Deputy Editor** John Brissenden  
**Features Editor** Duncan Evans  
**Production Editor** Yvonne Hartland  
**Chief Sub-editor** Harold Mayes MBE  
**Staff Writer** Nikki Carvey  
**Advertisement Manager** David Osen  
**Classified Manager** Susannah King  
**Classified Executives** Robert Cole, Tim Owen  
**Managing Editor** Brendon Gore  
**Publisher** Trish Phillips  
**Group Publisher** Paul Coster  
**Chief Executive** Richard Hease

**Financial Director** Brendan McGrath  
**Published by** Focus Magazines, Greencoat House, Francis Street, London SW1P 1DG

**Typeset by** Magazine Typesetters, 6 Parnell Court, East Portway, Andover, Hampshire

**Printed by** McCorquodale Magazines, Andover, Hampshire

**Distributed by** SM Distribution, London SW9, Telephone: 01-274 8611, Telex 261643  
 © Focus Magazines 1987.  
 ISSN 0265-0509

# ABC

**Popular Computing Weekly.** Tel: 01-834 1717. Fax 01-630 6165

# ABC

## NEWS DESK..... 1-7

Amiga virus crops up on commercial software... Elite unveils lower price for new 16-bit range... PCW9512 sales disappoint... Code Master hot shots the brothers Darling sign autographs

## BONECRUNCHER COMPETITION..... 7

Your chance to win a copy of Superiors latest game for the Commodore 64 and BBC B

## NEWS ANALYSIS..... 10

Nikki Carvey reports on the reasons behind the recent demise of Electronic Arts affiliate label Nexus

## LETTERS..... 11

Your comments and opinions on the state of computing

## MOUNTAINS OF SOUND..... 12

Tony Sachs tries the Synth Works package for the Yamaha DX-7 synthesisers

## GAMES..... 15-25

*Jinxter* on the ST is Game of the Week, plus *Microleague Wrestling*, *Scruples*, *Out Run*, *Mad Balls*, *Rainbow Dragon*, *Marble Madness*, *Andy Capp*, *Jet Bike*, *Basket Master*, *California Games*, *Galactic Games* and *Bubble Bobble*. All fully reviewed

## PRIVATE IMAGE..... 26

Peter Worlock tests out JCL's Digipic video digitiser for the Amiga

## DISCIPLE ON THE CHEAP?..... 28

John Wase reviews the +D disc interface from Miles Gordon Technology

## LISTINGS..... 30-34

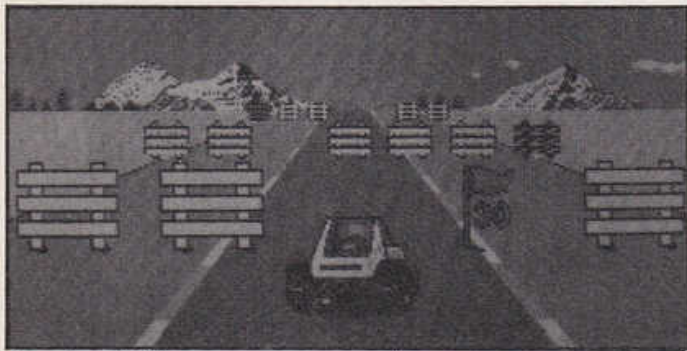
A selection of programs for you to type into your machine

## COMMENT/PUZZLE..... 46

Neil Scrimgeour of Sigma Software Designs proposes a Software Programmers Union



# Elite makes 16-bit debut in '88



Buggy Boy on the ST.

ELITE has announced details about a range of software to be made available for the Atari ST and Amiga computers.

According to Geoff Grimes, Elite's marketing manager, "The earliest release of the games for

the 16-bit machines is March, we hope to have the whole catalogue completed by about the middle of the year."

Titles to be made available will include *Space Harrier*, *Buggy Boy*, *Battleships* and also *Paper*

*Boy*. The titles look likely to be released on the ST first and then the Amiga later.

Grimes said, "We're very much looking forward to bringing out 16-bit conversions. It opens up a whole new market."

Elite was very concerned about the pricing of the software. "It's very important that the industry doesn't out-price itself. We're looking at keeping the releases below £15," Grimes added.

But Geoff Heath, project manager of Mastertronic whose 16-bit products retail at £9.95 for budget and £19.95 for full price, said, "If the product is good enough it shouldn't go below £19.95."

Heath added that in order to justify a £19.95 release, the product had to be of a high enough

standard for Mastertronic to release it.

Another company which has been in the forefront of 16-bit software is Electronic Arts. An Electronic Arts spokesperson said that because of the way Electronic Arts is positioned, there is no need to reduce the price of its 16-bit software. "We're aimed at the top end of the market and produce software of the highest quality which can take two or three years to develop, such as *Star Flight*."

Despite the fact the other software houses are dropping their prices, the spokesperson was adamant that Electronic Arts will keep their prices at £24.95.

"There is no plan to drop prices in the foreseeable future," she said.

## Fleet Street gets slice of Atari's DTP package deal

LAST week Atari announced that it would be using Mirrorsoft's *Fleet Street Publisher* software as part of a new complete desktop publishing package.

Pat Bitton, marketing director of Mirrorsoft was delighted that Atari had decided to use its software, since Mirrorsoft had worked with Atari during the development of its *Fleet Street Publisher*.

"*Fleet Street* is an all-British product," she enthused, "using the technological expertise uniquely available to us as part of a major

printing and publishing corporation. Both dealers and end users can rest assured that the product will be well supported by knowledgeable technical staff, and that Mirrorsoft as a company is well-positioned to meet future market requirements."

The system that dealers and distributors will receive comprises a Mega 2 or 4 ST, a monochrome monitor, 10 or 20 megabyte hard drive, SLM804 laser printer, *Fleet Street Publisher* 1.1. with SLM804 driver and the 1st Word word processor.

Atari's technical manager, Les Player, was also pleased with the deal, saying, "Atari has selected *Fleet Street Publisher* due to its flexible level of usage. Combined with the Atari Laser Printer and Mega ST, we now have a Desk Top Publishing package suitable for both the novice and experienced professional user."

However, since the system costs between £2000 and £3000, depending on the configuration of hardware, it is unlikely that many novices will be able to afford it.



Les Player - Atari's European Technical Manager.

## Amstrad PPC to help out Prince



Prince Charles with Amstrad's Alan Sugar.

There are about 300 members, primarily from the private sector but also incorporating trade unions, voluntary organisations, local authorities and government departments. Through the BiC network of Enterprise Agencies, such bodies often sponsor people wanting to start their own businesses.

Based in London, BiC also has almost 300 small regional offices. It is hoped that the Amstrad donation will help to tighten the network of regional communication and, according to a BiC spokesperson, "Help us to help other people to put money into these projects."

In addition to the portable, Amstrad has also given a number of PC 1640 computers, an undisclosed cash grant and computer training facilities.

Stephen O'Brien, chief executive of BiC is very pleased with the Amstrad offer, saying: "We are delighted to have been given this equipment and most grateful to Amstrad for its generosity. This will be a great help to us in improving communication with our regional network."

THE PRINCE of Wales recently received, on behalf of Business in the Community, a charity of which he is president, an Amstrad portable from Alan Sugar.

One of Prince Charles' inner city projects, BiC has been established for six years, its aim being to promote the involvement of companies in the community. BiC encourages different parts of the community to get together and co-operate on schemes such as job creation and training.



# PCW 9512 lifts at last

THE Amstrad 9512 Word Processor, which is the successor to the extremely successful 8256 Word Processor, does not appear to be doing as well as Amstrad expected. A leading computer dealer has said, "It's not as popular as everyone thinks."

The dealer put the unpopularity down to several reasons, "The end user has been disappointed with the printer, as it's noisy and not very good quality. We're selling more 8256 than 9512."

But leading Amstrad supplier Ryman said that the machine is

starting to gain sales. A spokesperson said, "Sales are now picking up at last. One shop received three machines on a Friday and by Monday they were all sold. So far we haven't had any complaints from users."

WH Smith's at present do not stock the 9512, but a spokesperson said that they would consider stocking it in the near future since they have no reason not to.

An Amstrad spokesperson said: "It's a super machine and the printer quality is very good. We've had no real complaints."



Amstrad PCW 9512.

## Sega success for Mastertronic



MASTERTRONIC is reporting that sales of its Sega Mastersystem have now exceeded over 30,000 units, with software sales approaching 100,000.

The success of the sales has meant that £5 million worth of stock has been sold.

Rachel Davies, Mastertronic marketing manager said: "We're very pleased with the way it has been selling even though we haven't done any major advertising for it."

Mastertronic has also announced details of a new range of cartridges and add-ons to be available for the Sega during 1988.

"We've got 12 new titles coming out over the next couple of months including *Zaxxon 3-D*, *Alien Syn-*

*drome* and *After Burner*," Davies said.

Davies was particularly enthusiastic about *After Burner*. "If you thought *Out Run* was big, *After Burner* is huge. It has to be seen."

The two add-ons Mastertronic are bringing out are 3-D glasses at £39.95 to enable the purchaser to play *Zaxxon 3-D* in real and *Light Phaser* at £44.95 so you can start to shoot up your television screen with some of the new range of games Mastertronic intend to release.

No final prices have been set on the cartridges as there is a fluctuation in the price of the Yen from Japan where Mastertronic imports the cartridges.

## Tasword gets boost from Dutch banks

TASMAN Software has secured an agreement with two major Dutch banks to supply them with the Tasword word processing program.

The deal evolved through Tasman's licensee in Holland - Filo-soft - who for the last four years has been translating and marketing Tasword and other products.

At an exhibition last year, Filo-soft and Tasman were approached by Olivetti, who was in the process of negotiating a contract to supply large Dutch banks with computers and associated software. It was this meeting that eventually resulted in Tasman securing its major coup.

Simon Howarth, on behalf of Tasman, was very pleased with the new collaboration, saying: "It is a

small market, largely ignored by the very big boys but one which is nice and contained for a company like ourselves."

Howarth refused to disclose the sums of money involved but since the banks have already bought and paid for about 12,000 Taswords, the amount is likely to be considerable. This money will be paid to Tasman on a royalty basis - a percentage of the total sales.

Howarth added that a further deal may be on the way since the banks were looking at the Tasman spelling checker, and a number of other products. It is thought that the banks may also take English versions of the checkers, to help them when writing letters in foreign languages.

## Mega-Apocalypse gets January Spectrum debut

MARTECH will, in January, be releasing the much long awaited *Mega-Apocalypse* for the Spectrum.

Originally written by *Crazy Comets* author Simon Nicol, the game was converted by John Wilson, with the graphics depicted by Malcolm Smith.

Hailed as the 'Arcade Game

of the Year' *Mega-Apocalypse* features digitised speech samples and sound effects, 360 degree rotating pods and is described as a fast-action game.

*Mega-Apocalypse* will retail at £8.99 with a +3 version to follow at £14.99.

Also to follow are Amstrad versions priced at £9.99 and £14.



# Hitachi CD cut Accolade double from Electronic Arts

HITACHI has initiated price-cutting in the CD-ROM market, having reduced its CDR 2500 by 40 per cent, to £595.

Currently with sixty per cent of the world market share, Hitachi is

set to keep this during 1988. Nick Rogers, marketing manager of Hitachi New Media Products, predicts that the New Year will bring further price cuts in CD-ROMs as other companies follow Hitachi's lead.

It is also offering a £145 discount off its new second generation (combined audio and data storage) drives when bundled with Microsoft's Bookshelf - for which Hitachi is the U.K. distributor.

Costing £195, the Bookshelf software is aimed at writers, researchers and teachers and contains ten of the most useful reference works to help them.

Special discounts are being offered to universities, colleges and schools in the government sponsored ECCTIS scheme under which details of some 50,000 courses and broadcast education programmes are on one 552 Mbyte compact disc.

## Gremlin

◀ continued from page 1

rated in the game, so that the player does not get bored of just He-Man and Skeleton.

The *Masters Of The Universe* saga is set to continue all this year too, as Gremlin are working on a follow-up game to be released in April.

Entitled *Evil Hoards*, it is not another film tie-up but is once again based on the exploits of everyone's favourite cartoon hero, He-Man.

## Adventure bugs

*KENTILLER* and *Rigel's Revenge*, two of Mastertronic's adventure games, have disruptive bugs, a source revealed to *Popular Computing Weekly* this week.

The source indicated that the Spectrum version of *Kentiller* has two fatal bugs which stops the player from completing the game. The first prevents Elva from killing the Darg Vool, and the second will not let the player retrieve a dagger from a chest.

The bug in *Rigel's Revenge* is also said to be fatal. Appearing in

the second half of the adventure, it too prevents players from continuing their adventure.

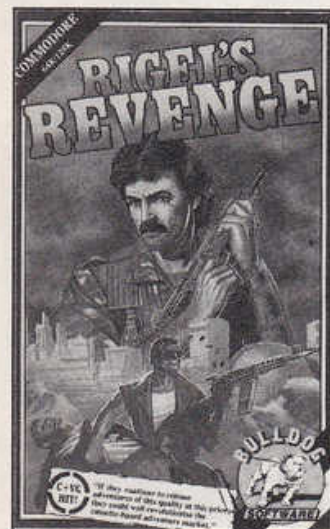
Rachel Davies, marketing manager for Mastertronic, admitted that a bug had been found on the Amstrad version of *Rigel's Revenge*. She denied, however, that there was any problem with *Kentiller*. "We are not aware of the bugs," she said.

Concerning *Rigel's Revenge*, Rachel continued. "The master that was used to duplicate the games has been redone." She added that Mastertronic was offering to replace any faulty tapes held by the public.

When questioned as to why no-one had spotted the bug before the game was released, a spokesperson commented: "Technically this happens a lot. Sometimes adventure games take days to complete and we have not got the time to play them ourselves."

The spokesperson stated that it was the programmer who found the bug but conceded that it should have been spotted before the game was released.

Ron Harris, Mastertronic's software manager, was adamant that the new batch of games would be bug free. "The samples have been tested all the way down," he said. "there are no bugs."



Rigel's Revenge.

ELECTRONIC Arts has released details concerning the release of two new games from Accolade. The two titles are *The Train: Escape to Normandy* and *Power at Sea*.

*The Train* is a strategic action game set in 1944 in Normandy. The plot concerns the Germans who are about to pull out of occupied France and take with them priceless French art treasures to Germany.

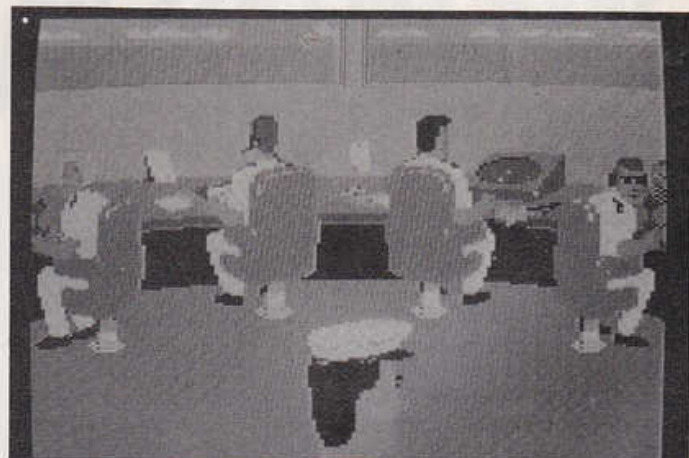
As a member of the French resistance you must stop them and

take the train to the Allies in Normandy.

*Power at Sea* is also set during WW2.

This time you are at the helm of a U.S. convoy. You are about to take part in the Battle for Leyte Gulf against the Japanese.

The games are initially available for the Commodore 64 at £9.95 for cassette and £14.95 for the disc. Conversions for other machines are planned but release dates have yet to be finalised.



New release - Power at Sea.

## CHARTS

### Top Twenty

1	(4)	Out Run	Sega-US Gold
2	(1)	Combat School	Ocean
3	(2)	Grand Prix Simulator	Code Masters
4	(9)	Match Day 2	Ocean
5	(5)	Solid Gold	US Gold
6	(3)	Live Ammo	Ocean
7	(6)	Star Wars	Domark
8	(7)	Game Set Match	Ocean
9	(8)	Gary Lineker's Superstar Soccer	Gremlin
10	(14)	Fruit Machine Simulator	Code Masters
11	(10)	10 Pack	Gremlin
12	(NE)	Rampage	Activision
13	(18)	BMX Simulator	Code Masters
14	(15)	Dizzy	Code Masters
15	(16)	Pro Ski Simulator	Code Masters
16	(24)	Back To The Future	Firebird
17	(11)	Soccer Boss	Alternative
18	(22)	Magnificent 7	Ocean
19	(17)	Renegade	Imagine
20	(13)	720	US Gold

All figures compiled by Gallup



# Bros D at HMV New virus shocker

FANS of Code Masters budget computer games can finally meet their heroes the Darling brothers Richard and David live in person at an exclusive autograph signing session on January 7th at HMV records 363 Oxford Street, London from 5.30pm onwards.

The brothers D will be there to launch and sign copies of the new Code Masters Plus range of games.

The signing session at HMV is the first major appearance they have made in public but both brothers are looking forward to it. David Darling said: "Both Richard and I are looking forward to the HMV store appearance as it's a great opportunity for us to meet some of the people who have made Code Masters such an immediate success."



Meet the heroes.

◀ continued from page 1  
out with the write-protect tag open.

In that case, it is clear that any disc, not just *Test Drive*, could be affected if it has been previously used or demonstrated previously through no fault of either the manufacturer or the dealer.

If an infected disc is inserted into a demonstration machine, say *Workbench* or a customer's own

game, it may be that virus could then reside in the demonstration machine.

In those circumstances it is easy to see how any game demonstrated on that machine could become infected.

The answer would appear to be to ensure that any game bought has not been demonstrated in a shop, although that presents problems of its own.

## ST clock saves space

A NEW clock for the Atari ST has been launched which doesn't take up any space in the cartridge port of the ST. Produced by Star UK, it

is available from Cotton House, 493 Union Street, Aberdeen, Scotland AB1 2DB. Tel: 0224 581858. Price £29.95.

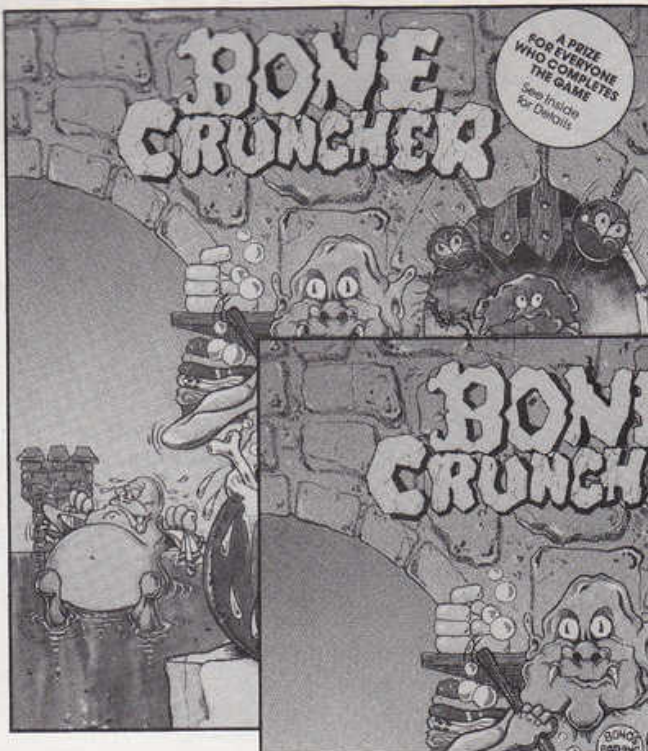
## COMPETITION

*Bonecruncher* is a brilliant and extremely exciting new fun game for the Commodore 64 and BBC B from Superior Software. At *Popular Computing Weekly*, we reckon this game is extremely addictive and worthy of a placing in your software library. So confident are we, that we are giving away 15 copies of *Bonecruncher* for the Commodore 64 and 15 copies for the BBC.

All you have to do to win a copy of the game, please state machine you want it for, is answer the following two questions:

1. Which well known band does Bono front?
2. Which mega-successful sci-fi tv and film series has a character called Bones?

Address your postcard to: Bones Make The World Go Round Competition, *Popular Computing Weekly*, Focus Magazines, 3rd



Floor, Greencoat House, Francis Street, London SW1P 1DG.

Entries must arrive by last post January 18th 1988.

Judges will be Francis Jago, Executive Editor and John Brissenden, Deputy Editor of *Popular Computing Weekly*.



# NOW THE PRICE IS RIGHT!



Commodore Amiga.

**£429.00** INC. VAT!

## THE AMIGA A500 COMPUTER:

- v 512K of RAM, upgradable to 9MB.
- v 256K of ROM, optional 512K cartridge.
- v 7.14MHz 68000 16/32 bit processor.
- v stunning graphics, music and speech.
- v dedicated mouse, printer and communication ports.
- v built-in 3.5" disc drive (880K).
- v 3 software discs including Basic Workbench, DELUXE paint etc.
- v monitor optional.

Mail order: Please allow £7.00 for p&p.



NEW DISC DRIVE FD-200A

**ONLY  
£99.00**

INC. VAT!

## 880K Bytes, 1.5 Watt

Advanced micro electronics has made the FD-200A possible, the first dedicated 3.5" second drive for the Amiga A500 and A1000 series with a power rating of only 1.5 Watt.

This is especially important with the A500 because the latter may have to cater for extra RAM boards.

Not only that, the FD-200A is extremely quiet too.

With a capacity of 880K (one megabyte unformatted), the FD-200A is compatible with all protected software.

At £99 inclusive of VAT, the FD-200A is guaranteed to be your best buy ever.

Mail order: please allow £4.00 for p&p.

**FULL ONE YEAR  
GUARANTEE**

## SHOPPING AND ORDERING:

We stock a complete range of Amiga software, hardware and books. Our shop is open Monday to Saturday, from 9.00am to 5.30pm (Saturday from 10.30am). Access and Visa welcome. Enquiries and orders can be placed on our FAX number (0702) 512 426.

**PHONE ORDERS:  
(0702) 510151**

**ADVANCED SYSTEMS AND TECHNIQUES  
UNIT 32/33 RUTHERFORD CLOSE  
PROGRESS ROAD  
EASTWOOD INDUSTRIAL ESTATE  
SOUTHEND-ON-SEA  
ESSEX SS9 5LQ**

**A.S.&T.**

EVERYTHING ATARI  
**ATARI**  
Power Without the Price™

**(0702) 510151**

Monday to Saturday  
9.00am to 5.30pm

A.S.&T.  
A127  
M25 (25 miles)  
London

Southend

# WHEN YOU HAVE MADE THE DISCOVERY

## NOTHING ELSE COMES CLOSE



**Pyradev** is a set of 5 programs which collectively provide a secure and comfortable environment for the development of AMSDOS and CPM software on these Amstrad machines using the DDI disk system.

Amstrad CPC 464/664/6128  
£29.95 disk.



PICTURESQUE  
PICTURESQUE  
PICTURESQUE

**The Code Machine** is a combination of the original picturesque Editor/Assembler and monitor. Both programs are entirely self contained and written entirely in machine code.

Amstrad CPC 464/664/6128 £14.95 cassette  
PLUS Spectrum £12.95 cassette.



**Emu** is the electronic music utility which will remove a great deal of the hard work and mystery from programming the Amstrad Sound Chip. all your creations can be saved in a form that lets you use Basic or Machine Code program.

Amstrad CPC 464/664/6128  
£14.95 cassette £19.95 disk.



**The Animator** gives you the chance to transform the ideas and images in your mind into pictures on your screen. The power of your computer is enormous, the creativity within your mind is greater still. The Animator allows the two to come together to open up a whole new computing world.

Amstrad CPC 464/664/6128  
£14.95 cassette £17.95 disk.



# WHEN YOU HAVE MADE THE DISCOVERY NOTHING ELSE COMES CLOSE

Please send me the following

	No.	COST EACH	TOTAL
The Animator			
Pyradew			
Pyradew			
The Code Machine Amstrad			

	No.	COST EACH	TOTAL
The Code Machine Spectrum			
EMU			
Post & Packaging		FREE	
TOTAL			

Name \_\_\_\_\_  
Address \_\_\_\_\_  
I enclose cheque/P.O. for the sum of \_\_\_\_\_  
Please charge my Access/Visa\*\* the sum of \_\_\_\_\_  
Card No. \_\_\_\_\_ Card Expiry Date \_\_\_\_\_

Please allow 28 days for delivery. \*All cheques payable to Gremlin Graphics Software Limited. \*\*Delete as necessary

Gremlin Graphics Software Limited, Alpha House, 10 Carver Street, Sheffield S1 4FS Tel: (0742) 753423.



# PROGRAMMERS

Over the last year the ZEN ROOM has produced some of Europe's top games, like TAU CETI, DRACULA, CYBORG, ACADEMY, DEATH OR GLORY, BALLBREAKER and THE ROCKY HORROR SHOW. Now Britain's most innovative software development team are looking for experienced freelance programmers to join them. If you have just written a game or are about to and would like the financial and programming back-up the ZEN ROOM can offer contact Michael Hodges on 01-985 2391 or write to the ZEN ROOM, Unit 7D, Kings Yard, Carpenters Road, London E15.

## THE ZEN ROOM

A DIVISION OF CRL GROUP PLC

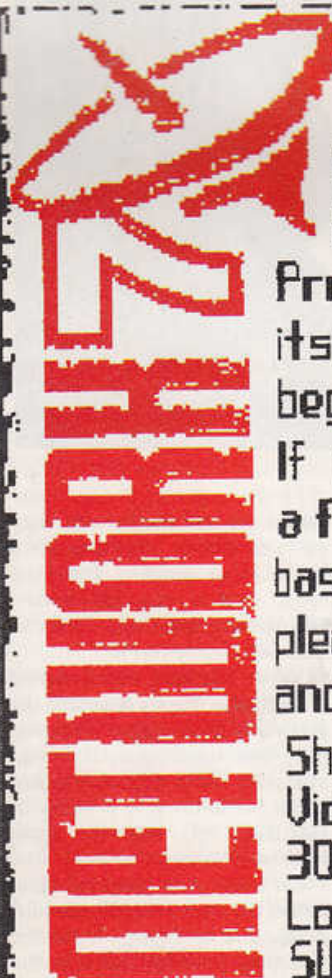


## PROGRAMMERS

Over the past 5 years many programming teams have been set up. Some have been very successful, but many others have failed. Nearly all have been

connected in some way with a software house that has had hits and failures.

Exocet is a new software house and a new programming team, which is not going to have any failures, only hits. It is because of this fact that Exocet are now looking all over the world for the very best programmers, on the following machines: Amiga, Atari ST, IBM, CBM 64, Amstrad and Spectrum. So if you are a serious programmer and want to make a successful career out of entertainment software, please contact Exocet on: 0772/20 29 97, or write to Exocet, 16 Lune Street, Preston, Lancs. PR1 2NL.



Channel 4's  
**NETWORK 7**

Are looking for  
Amiga Artists &  
Programmers for  
its second series  
beginning May 88  
If interested in  
a full-time London  
based commitment  
please send C.V.  
and Demo Disk to:  
Shelley O'Neil  
Video Visuals  
300 Fulham Rd  
London  
SW10 8BY



# The good ship Nexus

Shortly before Christmas, another small software house called in the receiver. Nikki Carvey tells the sad tale of Nexus.

The recent and somewhat unexpected downfall of Nexus has resulted in considerable speculation about the factors contributing to its demise. Whatever the causes, small businesses inside and outside the computer industry will have learned from their costly mistakes.

Paul Voysey, who took over the directorship of Nexus in August, explained that the Nexus ship sank because of "historic indebtedness".

He expanded by saying that prior to Electronic Arts, Nexus had licensing deals with a number of countries. Far from being lucrative deals, Nexus signed with Electronic Arts owing considerable sums of money.

"In Australia, we had licensed eight products in three formats and taken £18,000 in advance," Voysey said. "Since sales were very disappointing we still had something in excess of £10,000 outstanding on products in that country. Effectively we would have had to ship another 10,000 games to break even or to have settled the debt there."

With the same situation occurring in several European countries the total sum owed amounted to thousands of pounds. Voysey believes that the problems centred predominantly on the failure to plan long-term. The situation was exacerbated by the neglect to make a bad debt provision. Subsequently, when companies failed owing Nexus money, Nexus lost financially.

So far as planning goes, it seems Nexus was almost doomed from the beginning. While Clive Bailey and Bill Delaney had sufficient capital to get them going in May, 1986, that money should have been invested in products but it was not.

Voysey was critical about the beginning, saying: "Someone said to me that small companies should always be run on the basis that they are in a crisis. Early on that was not the case with Nexus. Not enough money was going on products - it was going on small things here and there."

Nexus became affiliated to Electronic Arts in July 1987 and it was soon after that Delaney left, followed by Ian Ellery, to start another business totally removed from the computer industry.

In August, Voysey took control of the directorship and it soon became apparent that Nexus was in dire straits. "I had some idea of the deals which were going on," he

deeply. We were not buying the company, so we took the assurance of people who had a place in the industry and a proven record."

It soon transpired that the company Forrest had believed to be very strong was too weak to cope. Electronic Arts had secured large orders in Europe for *Skull Diggery* but the buyers wanted the inlay cover re-designed. "We had dis-

us was left in the lurch. "We would have bailed it out but the figures we saw showed that it had got deeper and deeper into an uncontrollable situation."

Voysey supported Forrest's assertion saying that the Nexus affiliation to Electronic Arts probably prolonged the company's life. He praised its attempts to put together a rescue package. "At one stage we were trying to re-negotiate the whole basis of the contract to produce the software we had," he said.

From then the situation went into rapid decline. Voysey described the predicament. "It was horrific. We just could not get the figure down to anything accessible."

When it became obvious the situation was hopeless, Voysey informed the programmers soon before the liquidators moved in. The secretary, however, was oblivious to the fact until the liquidators arrived and began taking products.

For the moment, the future of the games Nexus had in the pipeline hang in the balance. Voysey admitted, though, that a number of companies had showed interest in bidding for the products, including Electronic Arts. The decision on who will get the games rests with the liquidators and no doubt there will be considerable haggling at the creditors' meeting next week.

Despite its embarrassment at the failure of Nexus, Electronic Arts has not been deterred from accumulating affiliated labels, as the recent Martech signing proved. Forrest is adamant that the company's concept is correct and that Nexus was merely not as strong as Electronic Arts had believed it to be.

Voysey, meanwhile, has time to reflect the past and what went wrong. He has learned a major lesson from the demise of Nexus and admits if he had the time over again, things would be done very differently. "I would run the operation much slimmer, put more money into product and have more products going through." □



The end of software products from Nexus.

said, "but it was only when I took over and looked carefully at the assets and liabilities that I found what the situation was. Things I thought had been sorted out and paid off appeared as very large debts."

John Forrest, director of European distribution for Electronic Arts, admitted that he "went in blind" as far as Nexus was concerned. Prior to negotiating deals in the U.K., Electronic Arts claimed to have researched the market thoroughly.

He defended Electronic Arts' naivety saying: "None of it was visible to us. There was no reason for us to have investigated Nexus

cussed the new design with Nexus," said Forrest, "but they were not able to progress from the design stage to producing the covers for both legal and financial reasons."

Nexus had been over-spending dramatically. Voysey described the overheads as "crippling". The company was spending as if it was producing considerable numbers of games but in the time it was with Electronic Arts only two titles reached fruition.

Electronic Arts remained ignorant of the situation at Nexus until it was told by Voysey. It did not take long for it to throw in the towel but Forrest denied that Nex-



## Christmas cheer

I've just bought the Christmas double issue, and had to write in to say - well done! At last you've got *Popular* printed on decent paper. I noticed your Mastertronic competition as well - let's have more competitions in 1988.

A couple of grumbles about your Christmas Buyer's Guide. David Lester says that the Atari 520STM needs an adaptor to connect to a TV set. Wrong David - the M stands for modulator, which connects it to a TV set!

Also the Amiga does not, contrary to what David writes, have a built-in IBM emulator - although the A2000 has sockets for an IBM board, available as a £400 extra. Otherwise, great magazine, keep up the good work.

Cathy Robins,  
London N16.

Yes there will be more competitions in 1988, and rest assured that David Lester's errors were spotted, and he has been locked in the cellar at Focus Towers over the entire Christmas holiday.

## Good, bad, indifferent, or ... ?

The back page article by Raymond Jones (Comment, November 26) on being ignored by software firms produced a wry smile in this office.

Is it not ironic that PCW chooses to "cast stones" at software firms when its own attitude towards serious business offers (with suggestions for a new puzzle) is much the same?

While PCW's questionably polite silence doubtless saves the editorial staff some time and trouble in the short run, in the long run it does nothing for PCW's reputation.

Whether you regard this policy of dismissive silence as "good, bad or indifferent" I do not know, but I do know how it looks from here!

Philip Lewis,  
Model Micropastimes,  
Bournemouth, Dorset.

The comment page is a platform for the personal opinions of individuals regarding any aspect of computing.

The opinions expressed there are not necessarily those of the editor or staff, and publication does not imply our agreement or

otherwise with those views. So *Popular Computing Weekly* was in no way casting stones at anybody, nor agreeing or disagreeing with Mr Jones' views.

As far as our "silence" on puzzle ideas is concerned, we would like to thank all those readers who sent in ideas. The demand for the original puzzle's return has been well documented on our letters page. Obviously the return of the original puzzle means, unfortunately, that we were unable to use any of the other ideas submitted.

We cannot and do not reply to all letters, but would like to apologise to anybody who submitted an idea and was waiting for a personal reply.

## Adventure society

In reply to "Comment" by Mike Lewis in PCW December 10.

Mike said "a few years ago adventure games were a growth area ... today this is not so". The fact is a few years ago all computer games were a growth area and that growth has now considerably slowed. Although budget software has made a major impact on the mainstream market, there are relatively few adventures available at the lower price point. Sales of adventure games have therefore remained largely unaffected by market factors and are now taking early advantage of the growth in the 16 bit sector.

Another of Mike's statements was "adventure games no longer sell anywhere near the numbers of any moderate arcade game". But they do. They sell over a longer period. It's a different market. The Pawn was launched in March 1986 and still sells up to 5000 copies per month! It's a similar story with many other titles. No "moderate" arcade game can even come close in terms of overall sales performance.

Standards of programming? The Guild of Thieves recently won the British Micro Awards "Game of the Year Award" for its depth of plot, graphic content and technical excellence, beating worldwide competition. Magnetic Scrolls, Level 9 and Infocom all produce traditional adventures featuring gradual improvements over previous products. Level 9's latest release "Gnome Ranger" has ten times more text than their early products and the technical content is enormously more sophisticated.

The mixture of plot, text, humour and intelligent response give each game an individual personality, a life, a vision, an imagination. Their appeal contrasts greatly with the nervy speed and excitement of arcade games. Adventures take more time to write than most arcade games. The games are no less enjoyable to play, they simply appeal to a different public.

Rather than needing to adapt, as Mike suggests, adventures need to continue their progression. The subject matter will become more diverse, the features will grow, the occasional leap forward will be made. It's all in hand Mike, people are already working hard towards these ends.

Where to get the information? Send a stamped addressed envelope to "P", Official Secrets, PO Box 847, Harlow, Essex CM21 9PH. We are about to build the World's best Adventure Society, to keep pace with the changes!

Tony Rainbird,  
Inter-Mediate Ltd,  
on behalf of  
Magnetic Scrolls Ltd.

## Interviews

Having read *Popular Computing Weekly* for several years, I have noticed that one very important feature is missing from the magazine - interviews. Where are they? The kind of interviews of which I am talking are with programmers, software houses, even famous people who use computers or play games on them.

I like the idea of a weekly News Analysis but how about having a weekly interview as well? Apart from this minor problem, I must say that the new format and the expanded games section have made *Popular Computing Weekly* a very enjoyable read.

Janet Williams,  
Barnes, London.

## Soft soaping

What is happening with the full-price software houses these days? Barely a week passes without a new compilation appearing featuring several games I bought only a month or so earlier. It is now approaching the stage where I will not be buying any more full-

price software, I will wait for the compilation and buy budget.

Sarah Powell,  
Aberdeen, Scotland.

## Infected

Not a week passes when your magazine does not have a story concerning virus on computers. Why is *Popular Computing Weekly* so obsessed with the virus?

David Jones,  
Northolt, Middlesex.

## Correction

Steve Gold's article on multi-user bulletin boards - Communications, December 10-16 - compared the cost of a number of multi-user games and said that compared to *The Gods and Mud*, *Phantasia* represents excellent value at £1 an hour.

Those behind *The Gods* have asked us to point out that *The Gods* costs only 50 pence an hour. We apologise for the error and for any embarrassment.



We are sorry but *Popular Computing Weekly* cannot guarantee to reply to all letters requesting a personal answer. It helps us enormously if readers are prepared to have general queries answered on these pages, so, if possible, please do not send SAs.



# Mountains of sound

Tony Sachs takes a look at the Synth Works package for the Yamaha DX7 synthesisers.

The Yamaha DX7 synthesiser has had a remarkably long innings in a market where lifespans rarely exceed a year. In the four years since the DX7 was unleashed, more than 100,000 have been sold and its distinctive frequency modulation sounds can be heard on almost every chart record.

The quality of the FM sounds is such that the DX7 – and its offsprings, the TX7, TF1 and TX 216/816 synthesiser modules – have succeeded despite being fiendishly difficult to program. More than 100 parameters, known collectively as a patch, have to be specified to define a sound. Many DX7 owners find the process so daunting that they never venture beyond the original sounds supplied with the synthesiser.

Synth Works is several packages in one. At its most basic level it is a patch editor, displaying all the DX/TX parameters on a single screen where the user can tweak them to achieve the desired sound. Almost

output level are combined cleverly in a single representation.

Two particularly useful aids are the four buffer areas, in which variations on a patch can be stored without losing the original, and a mini-sequencer which remembers a five-second snatch of music. It can be triggered from the ST QWERTY keyboard, allowing the user to hear a newly-edited patch in action without touching the synthesiser keyboard.

Although the editing screen makes the patch-designing process as painless as possible, Synth Works has some more tricks up its sleeve to assist in creating new sounds. If you want a variation on an existing patch, the program can compute versions of the patch by varying its parameters slightly. It can also create completely new sounds from scratch using a set of randomising algorithms developed by Steinberg. Although not all the sounds produced in this way are worth keeping, serendipity ensures that every now and

Patch creation is a similar function which limits the number of source sounds to six but introduces artificial intelligence to analyse them and to form new patches from them. It is certainly a powerful tool although the Steinberg assertion that it will "swamp the music world with a plethora of new sounds" is probably an over-statement.

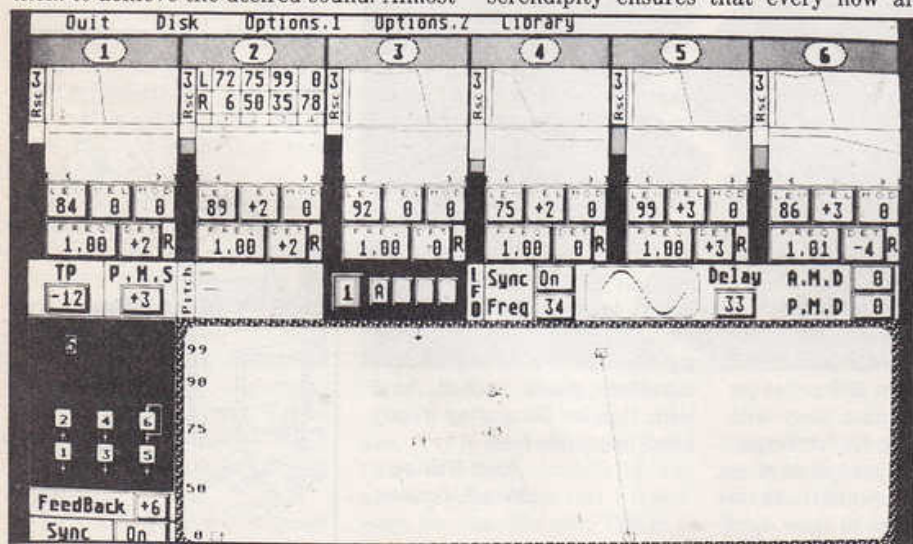
The next element of the Synth Works package is a patch library which can store more than 2,000 patches in 21 categories. To start you, the package has more than 700 patches, some of them familiar to DX/TX owners, many of them new. FM strong points are well represented with more than 100 examples each of piano and string sounds and almost 100 percussion patches. Patches can be moved around and sorted with ease and the program can even root out identical patches masquerading under different names.

The final weapon in the Synth Works armoury is a routine which performs a fast Fourier transform on any patch to display it as a three-dimensional graph. The result looks like a miniature mountain range and depicts how the various harmonic constituents of the sound vary with time. Discordant sounds produce the most dramatic effects, generating a passable imitation of the Himalayas on the ST screen.

Although the FFT display is intriguing and educational, it is of little practical help in designing or editing patches. I suspect that it has been included to keep pace with Steinberg's main German rival, C-Lab, which has a similar function in its *X-Alyser* package. It will also provide an impressive showroom demonstration especially as, by pressing the F10 button, the display cycles through a series of views of the harmonic "mountain range" from different angles.

At £150, the Synth Works DX/TX offers remarkably good value for the library alone. ROM-based libraries of patches can cost more for fewer sounds. Add to this the ease of creating usable new sounds with the package and it is obvious that Steinberg has a winner. □

Evenlode Soundworks, The Studio,  
Church Street, Stonesfield, Oxford OX7  
2PS. Tel: 099 389 228.



Synth Works – several packages in one.

every adjustment can be made with the mouse, sometimes using clever two-button short-cuts. For many parameters the user can choose between altering a numeric value or varying the shape of a graph using the mouse to drag it to the correct shape.

A great deal of thought obviously has gone into designing the patch editor. Some of the graphs have non-linear scales to represent the uneven effects of varying certain parameters. Another example is that two interacting variables, velocity and

then a gem emerges.

The two most powerful sound creation options offered by Synth Works are called mix and patch creation. The former produces an amalgam of between two and 32 patches selected by the user. You can mix a piano sound with a string sound to produce a new sound with elements of both. The program will produce a string of alternative combinations of the original sounds, never repeating itself, Steinberg claims.



NOW!

£5 OFF

ALL  
TRADE  
PRICES

## YOUR MICRO DESERVES THE BEST...

When your home or business micro costs several hundreds of pounds, it deserves the finest repair facilities in Europe (well, probably!). And the finest prices – £5 off trade rates for a limited period only. ★ How? At Verran we use our own range of advanced automatic test equipment (now sold worldwide), backed by stringent 2-8 hours soak-rack testing. That means speed, ultra-low prices and, most important, guaranteed reliability. For the first three months we'll repair any fault free. For the next three, at half these quoted prices. ★ It's the finest service available.

★ Currently we handle over 3500 products on average every day. Providing services for such leading companies as Amstrad plc, Commodore Business Machines, Sinclair Research, Rank Xerox, Dixons, Currys, Boots, W H Smiths, John Menzies and many more. ★ Join them and take up our special offer now.

Recommended and Approved by

AMSTRAD

ACORN

ATARI

SINCLAIR

COMMODORE

## EUROPE'S LEADING COMPUTER REPAIR CENTRE



★ SPECTRUM	TRADE £19.95	NOW £14.95
★ COMMODORE 64	TRADE £24	NOW £19
★ BBC B STD BRD	TRADE £30	NOW £25
★ AMSTRAD 464	TRADE £30	NOW £25
★ ELECTRON	TRADE £25	NOW £20

### ...AND UNBEATABLE DISCOUNTS ON ALL COMPONENTS!!!

★ With over £500,000 worth of spares in stock, we can meet many of your specialised requirements. We've listed a few examples and for anything not displayed just call us and we'll quote immediately inclusive of first class post.

#### SPECTRUM SPARES

Z80 CPU	2.50
ULA 6C001	7.00
Power Supply	6.50
ROM	7.00
4116 RAMS	.75
ZTX 650	.40
ZTX 213	.40

#### Keyboard Membrane

Spectrum	3.00
Spectrum Plus	8.00
QL	9.00
Metal Templates	3.00

#### COMMODORE SPARES

6510 Processor	12.00
6525 CIA	12.00
6581 Sid Chip	15.00
901225 Graphic ROM	10.00
901226 Basic ROM	10.00
901227 Kernal ROM	15.00
906114 House Keeper	10.00
6569 - VIC	18.00
4164 RAMS - Memory	1.00

#### Power Supplies

C64	19.50
C16	15.00

All the above prices include VAT but please enclose a further £1.50 post and packing on all component orders.

#### HOW TO CONTACT US

★ For quotes on computers not listed or on any component, telephone 0276 66266. (Quoting POP/5312).

★ To send us your micro for repair, mail it securely packed, accompanied by cheque, postal order (made out to Verran Micro Maintenance Limited) or quote your Access or Barclaycard number. And to obtain your special discount quote POP/5312.

# Verran

Verran Micro-Maintenance Limited, Unit 2H & 2J, Albany Park, Frimley Road, Camberley, Surrey GU15 2PL. Telephone 0276 66266.

31 DECEMBER 1987-6 JANUARY 1988

POPULAR COMPUTING WEEKLY/13



# DON'T MISS..

BOARD  
GAME

COMPUTER  
GAME

## THE BEST FOOTBALL FOOTBALLER OF THE YEAR

Enjoy the world of a Football League Player suffering the pain and winning the glory, starting at the bottom and becoming a legend... A Footballer of the Year.

# GARY LINEKER'S



GAMES YOU CAN BUY

## SUPERSTAR SOCCER

The most original computer football game of all time.... Available on CBM64/128 disc and cassette, Amstrad disc and cassette, Spectrum 48/128K cassette, MSX Cassette.



Available  
Now  
£14.99

Gremlin Graphics Software Ltd /  
Gremlin Board Games Ltd.,  
Units 2/3 Holford Way,  
Holford, Birmingham  
B6 7AX

CBM64/128 · AMSTRAD £9.99C · £14.99D  
SPECTRUM · MSX £7.99

Available  
from  
October

### ORDER YOUR GAMES NOW!!

If you would like us to rush one of these great games direct to your home at no extra charge fill in this coupon NOW and post to:-

GREMLIN BOARD GAMES/GREMLIN GRAPHICS SOFTWARE LTD.  
Units 2/3 Holford Way, Holford, Birmingham B6 7AX.

I would like \_\_\_\_\_ copies of Gary Lineker's Footballer of the Year (Cheques made payable to Gremlin Board Games)  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Postcode \_\_\_\_\_

Total Amount Enclosed £

Please debit my Access/Visa account

Signature \_\_\_\_\_

CHEQUE/P.O. OR ACCESS/VISA ONLY

Date \_\_\_\_\_

## SUPERTEC LTD -computer solutions!

Atari computer systems available from stock - ALL MODELS - call for details.

520 STF - 1040 STF - MEGA ST2 & ST4  
HARD DRIVES - MONITORS - PRINTERS  
ATARI PC's  
ATARI SLM 804 LASER PRINTERS

MONITOR MASTER - COLOUR/MONO SWITCH £351

AMSTRAD PC1512 ALWAYS IN STOCK.

We have a full range of AMSTRAD products available. Ask about the new PPC640 portable

AKHTER PC'S from £499 (exc VAT) call for details.  
We have a wide range of software, this includes:

GAMES - APPLICATIONS - GRAPHICS  
PLEASE CALL AND ASK

SUPERTEC IS A GENUINE ATARI AND AMSTRAD DEALER, NOT JUST A POSTAL ADDRESS. WE SUPPORT OUR CUSTOMERS WITH QUALITY SERVICE AND BACKUP IF REQUIRED. DON'T COMPARE US WITH 'BOX' MOVERS. IF YOU KNOW WHAT YOU WANT, WE WILL SUPPLY ON MAIL OR TELEPHONE ORDERS. ORDER WITH VISA OR ACCESS FOR IMMEDIATE DESPATCH OF STOCK ITEMS.

PRINTERS - PLOTTERS - MODEMS - DISC DRIVES - HARD DRIVES - CABLES - MONITORS and SOFTWARE!

We can supply items from the following manufacturers:  
Panasonic - Mira Peripherals - Epson - Brother - Philips - Manneemann Tally - Roland - Tandon - Miniscribe - Star Mikronics - Amstrad - Akhter - Miracle Technology - Cumana - Eldersoft - and many more. JUST CALL AND ASK!  
COME FOR A CHAT ABOUT YOUR NEEDS, YOU WON'T BE GIVEN THE HARD SELL, BUT WE WILL TRY TO HELP.  
PC & ATARI ST based DESK TOP PUBLISHING systems from Mirrorsoft (FLEET STREET PUBLISHER) - TIMEWORKS DTP - Soft Logik (PUBLISHING PARTNER)

Don't be a DINOSAUR - move to the best and easiest micro's to use. You can easily pay three times (or more) as much, for the so called 'INDUSTRY STANDARD' computers and still not get a system as good.

THIS AD WAS PRODUCED ON AN ATARI LASER!

SUPERTEC LTD  
CORNWALLIS HOUSE  
HOWARD CHASE  
BASILDON  
ESSEX  
SS14 3BB

TEL (0268) 282308

OPEN 9 TO 5 PM MONDAY TO FRIDAY.  
PERSONAL CALLERS WELCOME - WE HAVE SYSTEMS ON DEMO FOR YOU TO TRY  
VISA & ACCESS ACCEPTED

NOW IN STOCK 520STFM!!  
WE ARE OPEN FROM JANUARY 4th!!

14/POPULAR COMPUTING WEEKLY

## AMAZING OFFERS!

Brand New

### SPECTRUM PLUS's 48k

A scoop purchase for Christmas at

only **£79.95**

With power supply, User Guide, introductory cass, TV aerial & 90 day warranty

### ELECTRON COMPUTERS

Superb value — only **£59.95**

### ELECTRON PLUS 1's

only **£43.95**

with View & Viewsheets — only **£65.95**

Please add 95p for P. & P.

Cheques, P.O or quote Access or Visa



0532 687735

SAE for latest product offers  
Please state which machine

SOFTWARE BARGAINS  
DEPT. PCW  
8/8A REGENT STREET  
LEEDS  
LS7 4PE

TRADE OR EXPORT ENQUIRIES WELCOME

31 DECEMBER 1987-6 JANUARY 1988



# All the luck in the world

**M**agnetic Scrolls again. Wacky plot again. Fabby graphics again. Loads of awards again? Some people have all the luck? I guess they do.

*Jinxter* is all about luck, and the lack of it. The magician Turani created a bracelet, complete with accompanying charms, to provide copious quantities of good luck for the inhabitants of Aquitania.

Here's where it all starts to get just a bit silly. The power of the bracelet, in the grasp of a worthy enough mortal, is harmful to witches, particularly the Green Witches of Aquitania.

So, the bracelet was placed in the hands of the witches to safeguard it, a move about as sensible as getting a wolf to watch over your sheep.

The power of the bracelet has limited the mischief that the witches could get up to, but now that has all changed.

A witch by the name of Janedor has used her influence to overthrow the power of the bracelet, and cast an enchantment on it.

The net result, destruction of the bracelet, but only if all the charms are removed from it first.

Inducements have been offered to the public, to do this for the witches and now all the luck has run out in Aquitania for the ordinary working folk.

The powers of the bracelet are fast diminishing so a brave, forthright, upstanding, but most of all gullible, member of the

public has been conscripted to find the charms, reassemble the bracelet, and confront the witches.

You in other words.

That's the task, the first problem is getting off a bus at the right stop.

It is important to get off at the right stop, otherwise you'll find yourself halfway down Neverending Lane. And it's quite long!

Getting off the bus accomplished, a first meeting with an immortal and a mysterious juggernaut is on the cards, but only if you stoop to pick up some keys.

Inside your house the telephone rings, and you hear the last words of one of your friends. Head for his house, by going out of your back door and the adven-



decomposing on a bus.

It's ghastly, and completely different in style than everything else in the game.

The packaging is nearly as

ho), the dim witted postman.

The parser in *Jinxter* is reputedly more advanced than in *The Pawn*, and *Guild of Thieves*, but it doesn't seem so.

What you may not be able to swallow is the sophisticated humour and the satirical element.

If expressions like 'Narmean' and 'Wossname' are your idea of stylish wit, then you're going to love *Jinxter*.

A more frivolous game than *Guild of Thieves*, *Jinxter* represents a different style again, while still retaining all the acclaimed Scrolls hallmarks.

As far as adventure games go, there seems to be few companies that can match the Rainbird/Magnetic Scrolls alliance.

Even the mighty Infocom are being eclipsed with their dihard text only productions, so it only remains to be seen exactly how much acclaim is poured onto *Jinxter*.

Good as this adventure is, though, I seriously doubt that it will be the best one that Anita Sinclair and Co. come up with in 1988.



ture begins in earnest.

The graphics are as good as usual, except for the opening scene. This looks like people

copious as usual. An envelope containing a memo, instruction card, a competition beermat, and a copy of *The Independent Guardian*, quality news for the hard of thinking make up the goodies. Missing is a novella, but considering what they tend to be like this is no loss.

The newspaper will raise a few chuckles, but isn't as good as *What Burglar?* in *Guild of Thieves*.

Problems in *Jinxter* include getting past a bull, barbed wire fence, seeing in the dark, opening Xam's mailbox (your recently departed friend's), dealing with a megalomaniac gardener, a postmistress who thinks she is Calamity Jane, and most bitingly of all, Poor Bloody Lebling (ho, bloody,



Reviewer Duncan Evans  
Rating 16  
Micro Amiga/ST  
Price £24.95  
Supplier Rainbird



Your complete guide to all the software released this week

## Amstrad CPC

**Program** *Compendium* **Price** £9.99 **Supplier** Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS.

*Shove-a-Sledge*, *Tiddly Winks*, *Ludo* and *Snakes and Ladders* make up this compendium, unashamedly aimed at the younger gamer.

**Program** *Anarchy* **Price** £2.99 **Supplier** Rack-It/Hewson, 56b Milton Park, Milton, Abingdon, Oxon OX14 4RX.

Sixteen maze-like carpets of blastable blocks, unstoppable aliens, tricky trackers and manic manoeuvring combine to form the thinking man's shoot-'em up.

According to the press release anyway. Actually it's a reasonable enough game.



## Atari ST

**Program** *International Karate* **Price** £14.95 **Supplier** Activision, 23 Pond Street, London NW3.

Re-release of graphically impressive karate game at a lower price. The animation is inferior to that in *Karate Kid 2*, as are the sonics.

Why do all the fighters look like monkeys though?

**Program** *Jinxter* **Price** £24.95 **Supplier** Rainbird, 74 New Oxford Street, London WC1A 1PS. Game of the Week so see relevant

### Popular Rating:

1-5 Gobble, gobble, gobble. A turkey. Avoid at all costs.

6-10 Serious flaws make this one for the committed only.

11-15 Good, but not that good. Should be worth the readies if you like that sort of thing.

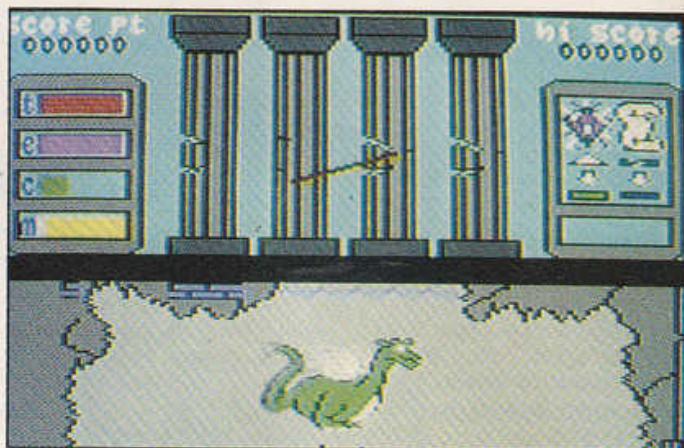
16-20 So good it makes good look bad. Run down to the shop and buy immediately.

## Rainbow Dragon

**D**ragons seem to be featuring in a few games recently. The latest member of the fire breathing clan to appear in pixel format is Asturias, a magical dragon.

Trapped in a temple deep underground (and what was he doing there anyway I wonder?), Asturias must find and destroy ten magical chests as well as overcoming the various hazards along the way, if he is to see daylight once more.

The dragon has more than napalm up his nose to help him on his way though. He can cast four spells: magic detection, reading magic, dispel illusion and restore.



Magic detection is useful for discovering whether a chest is enchanted, or just a pile of wood, while reading magic can be used to decipher magical writing on the pillars.

Clues to problems usually appear in these places.

Restore is the cornerstone spell of the game, and is used to clear obstacles or repair pillars. One of the main dangers is from crumbling pillars.

For a budget game the graphics are rather special, bright and colourful and very engaging. The

dragon is a jolly green thing and even the sound effects are reasonable.

For only a couple of quid *Rainbow Dragon* is good value for money and if you fancy a simple arcade adventure with a measure of strategy then you can hardly go wrong.

Reviewer Duncan Evans

Rating 13

Micro C64

Price £1.99

Supplier Firebird

## Madballs

**M**adballs is the latest game for the Amstrad CPC from Ocean. The game is loosely based on the toys of the same name.

The aim is to become the top Madball on the planet ORB. You play the part of a madball called Dust Brain who is intent on creating as much mayhem and havoc as possible to become supreme ruler of Orb.

To become the head Madball you must convince the other Madballs why you should be the leader. This is done easily by

beating the doubters into submission so that their skills and talents can be incorporated into Dust Brain so that he can rule forever.

*Madballs* is one of the most vicious and violent computer games to grace the screen.

The characters go by the names of Freaky Fullback, Skull Face, Fist Face and your character, Dust Brain. Dust Brain drinks blood for food while Fist Face eats bones and Screamin' Meemie takes coke.

The game is billed as being "freaky fun for everyone" but I

feel that after a few plays you will not find it very exciting.

Initial impressions are good. The game is played a la *Boulder* - you control your ball which bounces round the screen but you must be careful and watch for the other Madballs who intend to kill you.

The game has been programmed by Denton Designs and I expected much more than a simple scrolling game. The graphics can only be described as adequate and leave much to be desired compared to previous Denton offerings. As a budget game, it would be good value but at full price it is really a joke.

On the positive side, the packaging is appealing to the impulse buyer with its cartoon-style cover and the promise of free Madball stickers. My advice is wait until this game is on budget or until it appears on one of the excellent Ocean compilations.

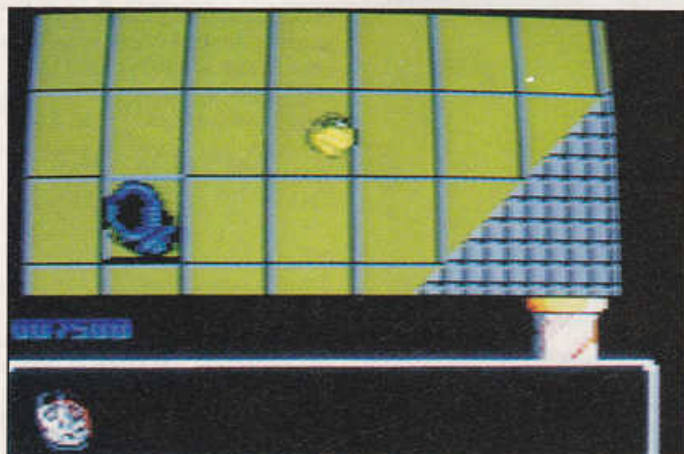
Reviewer Leslie Bunder

Rating 9

Micro Amstrad CPC

Price £8.95

Supplier Ocean







## Out Run

Witness the phenomena, experience the sensation, salivate over the licence, and prepare for disappointment over the conversion.

*Out Run* has arrived, the mega smash hit driving success in the arcades appears in a C64 incarnation. The disappointment mentioned is only because the original coin-op is such a brilliant game, and the C64 version is merely good.

If you are not aware of what it's all about, let me refresh your memory. *Out Run* has you and a

'gorgeous girl' in a high performance Ferrari Testarossa sports car piling down the highways and byways, trying to complete various sections in the time allowed. Scenery flashes by on either side of an undulating road, littered at times with drivers of more sedate and less stylish motors.

The C64 version has five courses, and fifteen sets of scenery, starting at Coconut Beach. Each course is a self contained game and must be loaded separately.

Fast, smooth, detailed graphics are the hallmark of the original, and alas the old 64 just isn't

up to reproducing this kind of action. The graphics of the scenery, especially the houses, are very crude, and the sensation of speed is given by flickering lines that stretch across the entire screen. The undulation is well done though, you really feel that you're going up a hill, and the game certainly is fast enough.

One of the best features of *Out Run* is that having a brush with other motorists isn't fatal, as in too many driving games. In fact it is almost as if the car had rubber bumpers, and that is all right by me.

*Out Run*, the C64 computer version, is a pretty decent game, it just does not look it when compared to the original. However, if you want to feel the wind in your hair and the thrill of driving through regions like Devils Canyon, then set up a hair-drier four feet away, and boot up a copy of *Out Run*.

Reviewer Duncan Evans  
Rating 13  
Micro C64  
Price £9.95  
Supplier US Gold

## Marble Madness

Anyone who has ever seen the Amiga version of *Marble Madness* will agree that it is a superb piece of software. From the graphics to the music and sound effects, a five star product.

Pity then, that this ST implementation is so very disappointing. The game, for the uninitiated, features a marble which has to negotiate 3-D Escher-like surfaces, surreal plains, gullies, pathways and ramps. The landscapes become increasingly complex, convoluted and eye boggling the further you program.

The opposition to completing a level is provided by Slinkys, enemy black balls, repelling blocks and magnets, flapping bridges and many other bizarre foes.

One feature worth noting is that limitless marbles are supplied on the levels which have to be completed against a decrementing time. If you lose a marble, the action simply restarts at the beginning of the level.

While the scenery scrolls down slowly, but smoothly, the sprites

are nothing special. Nice to see the entire screen being used on an ST game though.

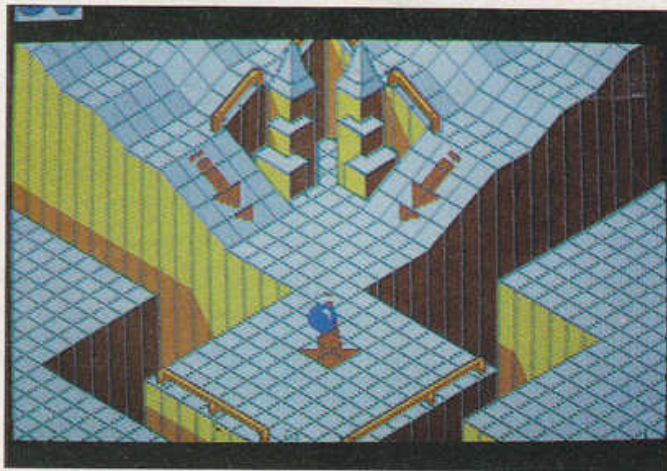
Two factors let this conversion down. The first is the sprite detection, which could best be described as random and rather spoils things. The second is the sound.

The music is atrocious, so watery and tuneless that you immediately want to turn it off. The sound effects are not particularly good either. Have these

people never heard of sampling?

Very disappointing for ST owners that such a poor job has been done on this conversion. Only recommended if you are completely addicted to the arcade game.

Reviewer Duncan Evans  
Rating 9  
Micro Atari ST  
Price £19.95  
Supplier Electronic Arts



## Software guide continued

page elsewhere in the magazine. The graphics are just the same, but it wasn't that good a week.

**Program Moebius** Price £24.95  
Supplier Microprose, 2 Market Place, Tetbury, Gloucestershire GL8 8DA.

Martial arts role playing strategy that fails to achieve the high standard it sets itself.

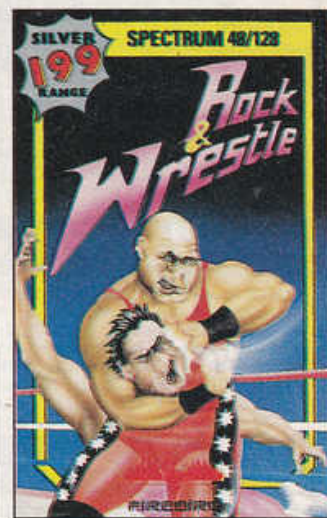
The music is quite appalling, and the animation is poor.

Apart from that it's pretty boring to play and costs far too much.

## BBC B/Electron

**Program Creepy Caves** Price £1.99 Supplier Atlantis, 28 Station Road, London SE25 5AG.

Decent graphics lift this budget platform and ladders above the plethora of similar products. The plot is commendably silly and it's all good fun, so why not?



## Commodore 64/128

**Program Deflektor** Price £9.99 (tape), £14.99 (disc) Supplier Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS.

Interesting one this. Guide your laser beam around each screen using reflectors, refractors, mirrors, absorbers, polarisers and fibre optics.

If you fancy a change from mindless blasting and intense strategy then investigate further.

continued on page 20 ►



**All prices VAT/delivery inclusive**

**ATARI®** New Year Special  
1040STF only £399.00

520 STFM good availability, good price.....	£269.00
520 STFM with 1meg memory upgrade.....	£338.00
1040 STF with SM125 mono monitor .....	£499.00
Mega ST2 with mono monitor .....	£869.00
Mega ST4 with mono monitor .....	£1169.00
Atari SLM804 laser printer, great value at .....	£1199.00
Atari SM125 mono monitor .....	£134.00
Atari SC1224 colour monitor, few at .....	£299.00

**All ST prices include: mouse etc. PLUS 5 disks of s'ware including graphics, wordpro, utility, game and demos.**

Philips CM8833 colour monitor c/w ST lead .....	£279.00
Philips CM8852 as above, higher resolution .....	£299.00
(Extra £10.00 discount on either if bought with an ST)	

**520 STFM 1 MEG  
MEMORY UPGRADE**  
Requires soldering, full  
instructions supplied.  
**£59.00**

### 3.5" disks

10...£11.95 in plastic case £13.95  
25...£27.95 in 40 cap case £34.95  
Fully guaranteed double sided media

Be spoilt for choice from our vast range

We have a full complement of models including the highly popular Evesham upgraded machines. Our single floppy 21/32 MEG models are professional internal installations leaving maximum possible future expansion room. Twin floppy versions use a hardcard, which can also be specified on single drive versions if required. 1512 models can be supplied with 640K RAM installed for £20.00 extra. Prices in light type are excluding VAT.

**Migent Ability & 4 US Gold games FREE with 1512**

	SD	DD	AMS 20MEG	SD 21MEG	DD 21MEG	SD 32MEG	DD 32MEG
MONO 1512	381.74 439.00	477.39 549.00	N/A	598.26 688.00	693.91 798.00	641.74 738.00	737.39 848.00
COLOUR 1512	520.87 599.00	616.52 709.00	N/A	737.39 848.00	833.04 958.00	780.87 898.00	876.52 1008.00
MONO 1640	494.78 569.00	581.74 669.00	868.70 999.00	711.30 818.00	798.26 918.00	754.78 868.00	841.74 968.00
CGA (1600x1200) 1640	625.22 719.00	712.17 819.00	912.17 1049.00	841.74 968.00	928.69 1068.00	865.22 1018.00	972.17 1118.00
ECD (EGA) 1640	755.65 869.00	842.61 969.00	1129.57 1299.00	972.17 1118.00	1059.13 1218.00	1015.65 1168.00	1102.61 1268.00

## Western Digital Hardcards

Top quality equipment at simply amazing prices. We supply ready configured for 1512 or 1640 (please state). Prices include the highly praised Xtree file management software (normally £50.00).

**21 MEG...£249.00      32 MEG...£299.00**

# commodore

Excelsator+ 64/128 compatible disk drive .....	£159.95
Excelsator+ as above with Freeze Machine .....	£179.95
(All Excelsator orders include GEOS software)	
Freeze Machine tape to disk backup cart. ....	£ 28.95
Amiga 500 with D. Paint & Silent Service .....	£449.00
Philips CM8833 to suit Amiga, + STEREO .....	£279.00
Philips CM8852 as above higher resolution.....	£319.00
(both c/w cable £10.00 off if bought with an Amiga)	

**PRINTERS** Prices include...  
CABLE, VAT & DELIVERY

We use and recommend Star printers. They offer a combination of features, print quality, reliability and value that is unbeatable. Don't make the wrong decision, get it right with a Star printer at our special prices. State computer type when ordering.

Our LC-10 price includes 2 extra ribbons (value £13.90) as well as cable VAT & delivery

Star LC-10 replaces the NL-10, even better .....	£199.00
Star NX-15 wide carriage version of NL-10 .....	£319.00
Star ND-10 180/45cps .....	£299.00
Star ND-15 wide carriage version of ND-10 .....	£419.00
Star NR-10 240/60cps .....	£379.00
Star NR-15 wide carriage version of NR-10 .....	£499.00
Star NB24-10 brilliant 24 pin, 216/72cps .....	£479.00
Star NB24-15 wide 24 pin .....	£599.00
Star SF-10D cut sheet feed, 10" models .....	£ 59.00
Panasonic KXP-1081 very popular .....	£179.00
Amstrad LQ3500 new 24 pin at low price .....	£349.00

## How to order

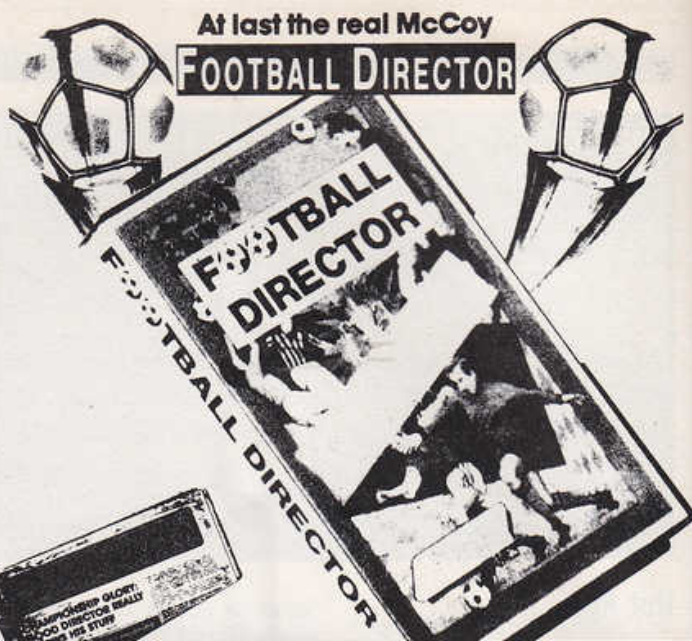
All prices VAT/delivery inclusive  
Next day delivery £5.00 extra

Send cheque, P.O. or ACCESS/VISA details  
Phone with ACCESS/VISA number  
Govt. or PLC official orders welcome  
All goods subject to availability E.&O.E.  
Open to callers 6 days, 9.30-5.30  
Telex: 333294 Fax: 0386 765354

Also at: 1756 Pershore Rd., Cotteridge, Birmingham, B30 3BH Tel: 021 458 4564

## Evesham Micros

**63 Bridge Street  
Evesham  
Worcs WR11 4SF  
Tel: 0386 765500**



**THE MOST REALISTIC FOOTBALL  
STRATEGY GAME YOU CAN BUY**

AVAILABLE FROM ALL LEADING RETAILERS

## FEATURES

Four Leagues	Retirements
20 teams each	Transfer Market
38 Game Season	Internationals
Home & Away	European Tours
1 A League	5 Leagues
Replays: European Cup	Manager Rating
U.S.A. Cup	Prime Minister
Cup Winners Cup	8 Reserves: Promotion
2 Leagues: Aggregate	Relegation
Penalties: Players	Useless Players
Field Position	Borrowing: Mortgage
Scores: Conceded	Save Game: Interest
Match Day	Tax: Referrals
P.W. L O D A P T S	Referrals: Referrals
Scout: Coach: Physio	Season Tickets
Youth Team: Bats	Season Tickets
Substitutions	Club: Money
Sending: Offs	Season Counter
Postgame: Bats	TV Cameras
Midweek Games	Postgame: Camera: Wages
Injuries: Free Transfers	Manager: Approaches
Bat: Season	Testimonials

Name Editor  
Team Editor  
LMTG Counter  
League Titles  
Sackings  
Extra Training  
Insurance  
Build Stands  
Pools Pens  
Manager of the Month  
+ MUCH MORE

FEATURES VARY WITH  
DIFFERENT COMPUTERS



## SPECTRUM SCREENSHOTS

	<b>FULL TIME</b>	<b>Away</b>				
TIME 90 MIN					LARGE BILL £11695-	WEEKLY NEWS GATE MONEY £35718+
NOTTS FOR (1)3 DERBY C (0)1					GENERAL RUNNING COSTS £2372E -	
SUTTON 24 MIN HILLS 60 MIN					INTEREST FROM BANK £729 +	
WALLACE 63 MIN					MURRAY TESTIMONIAL £51271 +	
HUNT 77 MIN					CROUD VIOLENCE DAMAGES £3872B -	
					PAYORS SPONS THE CLUB £51271 +	
					TU LIVE BROADCAST NETS £20000 +	
					BANK REPAYMENTS £8325E -	
					MORTGAGE REPAYMENTS £28358 -	
					<b>WEEK PROFIT</b>	
EVERTON 3 P BLYMOUTH 0 P					<b>SCOUT LOOK IN TRANSFER MARKET</b>	
ASTON U 3 P BRIGHTON 0 P					CLOUGH INJURED FOR 2 WEEKS	
WEST HAM 0 O OLDHAM A 0						
MAN UTD 1 S TOTTENHAM 1					THE PLYMOUTH MANAGER APPROACHES YOU AND OFFERS £779455	
CRYSTAL P 5 BARNSLEY 1					AND WALKER IN A FREE TRANSFER FOR UEBB DO YOU ACCEPT Y/N	
LIVERPOOL 1 E CHARLTON 0					<b>DAILY</b> £243954	
LEEDS UTD 3 NORWICH C 1						
NEWCASTLE 3 ARSENAL 0						
SOUTHPTON 0 BIRMINGHAM 0						
C CONTINUE					<b>SEASON 14 M MENU</b>	

[illegible]

SPECTRUM £8.95 • COMMODORE £8.95 • AMSTRAD £8.95

This game also available by mail order at £8.95 per cassette. Send your cheque/ P.O. made out to D & H Games plus a large SAE, with 25p stamp attached. Please write your name and address on reverse side of cheque. (72 hours delivery).



19, Melne Road, Stevenage,  
Herts SG2 8LL

 (0438) 728042



# CLIK

AMIGA  
SOFTWARE  
SPECIALIST

Unit 1, Willowsea Farm, Spout Lane North, Stanwell Moor, Staines, Middx TW19 6BW

## GAMES

TITLE	RRP	OUR PRICE
Alternate Reality	£24.95	£18.50
American Pool Sim		
Auto Jewel	£24.99	£18.50
Alien Strike	£19.95	£15.50
Adventure Const. Set	£29.95	£21.50
Art Parts I	£9.95	£7.50
Art Parts II	£9.95	£7.50
Arctic Fox	£29.95	£21.50
Arazoks Tomb	£28.75	£20.50
Arena/Brattacus	£34.95	£24.75
Archon	£29.95	£21.50
Archon 2	£29.95	£21.50
B.M.X.	£9.95	£7.50
Battle Thru' Time	£9.95	£7.50
Ball Raider	£19.95	£15.50
Backlash	£19.95	£15.50
Ballyhoo	£29.99	£21.50
Balance Of Power	£39.95	£26.50
Barbarians	£24.95	£18.50
Bureaucracy	£34.99	£24.75
Borrowed Time	£24.99	£18.50
Baseball	£24.99	£18.50
Bards Tale	£24.95	£18.50
B.M.X. Sim		
California Games	£24.99	£18.50
Chessmaster 2000	£24.95	£18.50
Championship Golf	£34.99	£24.75
Challenger	£9.95	£7.50
Cut Throats	£29.99	£21.50
Cruncher Factory	£9.95	£7.50
Seven Cities Of Gold	£29.95	£21.50
Deep Space	£29.99	£21.50
Deadline	£29.99	£21.50
Doctor Fruit	£9.95	£7.50
Demolition	£9.95	£7.50
Deja Vu	£29.95	£21.50
Diablo	£19.95	£15.50
Defender Of Crown	£29.95	£21.50
Eagles Nest	£19.95	£15.50
Extensor	£19.95	£15.50
Enchanter	£29.99	£21.50
Earl Weaver Baseball	£24.95	£18.50
Flight Sim. II	£49.95	£32.50
Firepower	£24.95	£18.50
Fighter Command	£29.99	£21.50
Faery Tale Adv	£49.99	£32.50
Feud	£9.99	£7.50
Flight Simulator	£49.99	£32.50
Final Trip	£9.95	£7.50
Football GFL	£24.99	£18.50

TITLE	RRP	OUR PRICE
Grand Prix Sim		
Gunship II	£24.95	£18.50
Guild Of Thieves	£24.99	£18.50
Goldrunner	£24.95	£18.50
Grid Start	£14.95	£11.50
Gauntlet	£24.99	£18.50
Hollywood Poker	£19.95	£15.50
Hollywood Hijinx	£29.99	£21.50
Hitch Hiker	£29.99	£21.50
Hardball		
Hacker	£24.99	£18.50
Hacker II	£24.99	£18.50
Insanity Fight	£24.95	£18.50
Impact	£14.95	£9.75
Infidel	£29.99	£21.50
Jump Jet	£9.95	£7.50
Jinxter	£24.95	£18.50
Jewel Of Darkness	£19.95	£15.50
Kampfgruppe	£29.99	£21.50
Karate	£19.95	£15.50
Karate Kid II	£24.95	£18.50
King's Quest Pack	£24.99	£18.50
Karting Grand Prix	£9.95	£7.50
Knight Orc	£24.95	£18.50
King's Quest III	£29.99	£21.50
Little Comp People	£34.99	£24.75
Leviathan		
Leaderboard	£24.95	£18.50
Leisure Suit Larry	£24.99	£18.50
Leather Goddess Of Phobos	£29.95	£21.50
Marble Madness	£29.95	£21.50
Mouse Trap	£14.95	£11.50
Mean 18 Golf	£29.99	£21.50
Mech Brigade	£29.99	£21.50
Moon Mist	£29.95	£21.50
Mind Shadow	£24.99	£18.50
Mind Forever	£34.99	£24.95
Ninja Mission	£9.99	£7.50
One On One	£29.95	£21.50
Orge	£24.99	£18.50
Pub Crawl	£9.99	£7.50
Portal	£34.99	£24.75
Plutos	£14.95	£11.50
Planet Fall	£29.99	£21.50
Phantasia	£24.99	£18.50
Pawn	£24.95	£18.50
Roadwars	£19.95	£15.50
Roadwar 2000	£24.99	£18.50
Red October	£21.69	£16.50

TITLE	RRP	OUR PRICE
Suspect	£29.99	£21.50
Sorcerer	£29.99	£21.50
Stationfall	£29.99	£21.50
Starcross	£29.99	£21.50
Star Glider	£24.95	£18.50
Silent Service	£24.95	£18.50
Silicon Dreams	£19.95	£15.50
Skyfox	£14.95	£11.50
Skyfighter	£14.95	£11.50
Sinbad And The Throne Of Falcon	£29.95	£21.50
Sinbad	£39.95	£24.75
Shanghai	£24.99	£18.50
Season And Holidays	£9.95	£7.50
Seastalker	£29.99	£21.50
S.D.I.	£29.95	£21.50
Surgeon	£49.95	£32.50
Swooper	£19.95	£15.50
Strategic Def Initiative	£29.95	£21.50
Strip Poker	£19.95	£15.50
Space Quest	£29.99	£21.50
Space Bottle	£9.95	£7.50
Spellbreaker	£29.99	£21.50
Space Ranger	£9.99	£7.50
Solid Gold	£9.99	£7.50
Street Sports Baseball	£24.95	£18.50
Skyfighter	£14.95	£11.50
Suspended	£29.99	£21.50
Super Huey	£19.99	£15.50
Testdrive	£24.95	£18.50
Thai Boxing	£9.95	£7.50
Time And Magik	£19.95	£15.50
Trinity	£34.99	£24.75
Terrorpods	£24.95	£18.50
Temple Of Apshai	£24.99	£18.50
Tass Times	£24.99	£18.50
Uninvited	£29.95	£21.50
Ultima 4	£24.99	£18.50
Ultima 3	£24.99	£18.50
Universal Milit. Sim	£24.95	£18.50
Vader	£9.95	£7.50
Winter Games	£24.99	£18.50
Winter Olympiad '88	£19.95	£15.50
Wizard's Crown	£29.99	£21.50
Wishbringer	£29.99	£21.50
World Games	£24.95	£18.50
Witness	£29.99	£21.50
Zork I	£29.99	£21.50
Zork II	£29.99	£21.50
Zork III	£29.99	£21.50

## UTILITIES

Acquisition 1.3	£249.00	£185.00
Analyze 2	£149.95	£102.50
Audiomaster	£46.00	£32.00
A C Basic	£195.00	£132.50
Animator/Images	£103.50	£75.50
Assembler	£69.95	£49.50
A C Fortran	£295.00	£202.50
Butcher	£29.95	£21.50
B B S PC	£99.95	£65.00
Climate	£39.95	£29.50
City Desk	£114.95	£85.00
Deluxe Music Con Set	£69.95	£48.50
Deluxe Paint	£24.95	£18.50
Deluxe Paint II	£69.95	£48.50
Digiprint	£59.95	£42.50
Digiview 2.0	£185.00	£142.50
Digiview adaptor	£22.95	£18.50
Diga	£57.50	£42.50
Draw Plus	£184.00	£135.00
Flipside	£29.95	£21.50

Futuresound	£175.00	£155.00
Goldspell	£39.95	£29.50
Hot And Cool Jazz	£9.95	£7.50
Hai Calc	£59.95	£42.50
Instant Music	£29.95	£21.50
Laserscript Driver	£39.95	£29.50
Lattice C Prof 3.1	£299.00	£184.50
Lattice C 4	£172.50	£122.50
Lisp	£149.95	£95.50
Marauder 2	£39.95	£29.00
Maxplan Plus	£149.95	£102.50
Micro A P L	£99.95	£72.50
Modula 2 (STD)	£99.95	£69.50
M C C Pascal	£89.95	£62.50
Mi-Amiga File	£99.95	£65.00
Music Studio	£34.99	£24.75
Maxplan A500	£99.95	£72.50
Modula 2 (developer)	£149.95	£110.50
Organise	£99.95	£72.50
P C L O Plus	£495.00	£355.00

Publisher Plus	£99.95	£72.50
Publisher 1000	£199.95	£120.00
Rock 'n' Roll	£9.95	£7.50
Sunix	£57.50	£39.50
Sega Assembler	£49.95	£34.50
Softwood File 2	£99.95	£72.50
Shell	£49.95	£34.50
Scribble 2	£99.95	£72.50
Softwood Write	£99.95	£72.50
Textsoft	£56.35	£39.50
T.V. Text	£99.95	£72.50
Toolkit	£39.95	£29.50
Videoscape 3D	£143.75	£110.00
Visawrite	£99.95	£72.50
Video Titler	£71.30	£50.50
VIP Prof	£228.25	£165.00
The Works	£149.95	£105.00
Word Perfect 4.1	£228.85	£175.00
X Cad	£460.00	£325.00
Zuma Fonts 1,2,3	£34.95	£24.75

All our prices include VAT and First Class Post.

Tel: **0753 682988**

For personal service

Please make cheques payable to Clik and send to:

**CLIK, UNIT 1, WILLOWSEA FARM, SPOUT LANE NORTH  
STANWELL MOOR, STAINES, MIDDLESEX TW19 6BW**



## Software guide continued

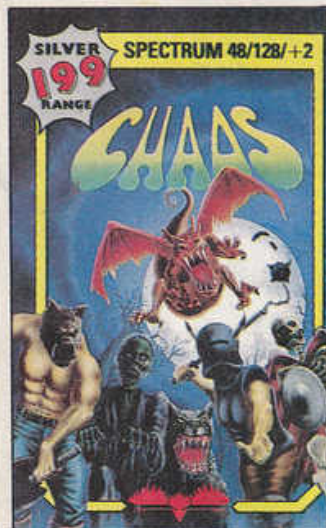
◀ continued from page 17

**Program** *World Tour Golf* **Price** \$12.95 **Supplier** Electronic Arts, Langley Business Centre, 11/49 Station Road, Langley, Berks SL3 8YN.

The only opposition to the omnipotent *Leaderboard*. Less arcade feel and more strategy, but it isn't as much fun to play and the graphics are inferior.

A split screen display shows an overview of the hole, as well as the golfer. Harder to play, so represents something of a challenge.

**Program** *Gary Lineker's Superstar Soccer* **Price** \$9.95 **Supplier** Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS. Now available across all 8-bit for-



mats, this clever reworking of football management themes is recommended. I'm just waiting for the ST version.

**Program** *Psycho Soldier* **Price** \$9.95 **Supplier** Imagine, 6 Central Street, Manchester M2 5NS. The barbarian girl with the big shoulder blades hits the 64. Best version of the game recently reviewed.

**Program** *Orc Attack* **Price** \$1.99 **Supplier** Top Ten, 12 Chiltern Enterprise Centre, Station Road, Theale, Berks RG7 4AA. Well, we had *Operation SAS* last week from Top Ten, so it's no surprise to see the geriatric *Orc Attack*. Quite ridiculous that this is even being sold at all.

**Program** *Helidrop* **Price** \$1.99 **Supplier** Top Ten, 12 Chiltern

## Jet Bike

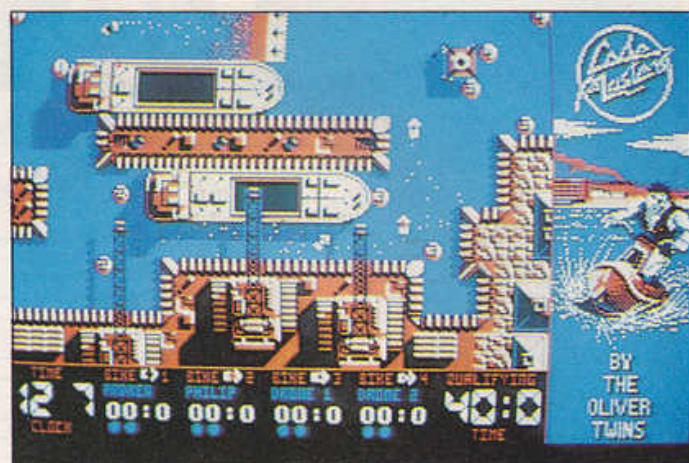
**C**odemasters moving upmarket? Surely not. Although the answer may appear to be yes, it really should be, not really, or even only slightly. Confused?

Let me explain (*I wish you would, Ed*). The Plus range of games offers the usual Codemasters budget game but with lots of freebies to warrant the extra cash. The extras in the case of *Jet Bike Simulator*, written by the prolific Oliver brothers, include a badge, poster, and most importantly, an extra cassette.

With two tapes to play with Codemasters has provided a standard version of the game, an expert version, and two additional sets of courses, each with eight screens.

The first set of courses has the player zipping around lake scenes, trying to beat three other competitors, of which one can be a friend. An interesting feature to note is that you can only bump into another human player, not the computer bikes. This is a relief because otherwise anyone ending up at the back would have no chance to overtake the pack.

Although the game is entitled *Jet Bike Simulator* it could easily be *Small Blob Simulator*. The reason for this is that the courses are quite detailed, fill one non-



scrolling screen, and if the bikes were any bigger it would be a real pain trying to get round.

Not that this affects the playability one bit. Far from it really, with clockwise and anticlockwise directions and thrust it's possible to scream around very tight corners and perform some pretty neat manoeuvres.

The spray spurring from the back of the boat is a nice touch, as are the brief snatches of synthesized speech.

From a technical point of view, no one could accuse *Jet Bike* of being state of the art, but then at this sort of price, and if the game's fun to play then it doesn't really matter.

For those who get cocky

enough to reckon that they've cracked the standard version of the game, and played out the extra scenes, there's the advanced version to contend with. And boy do they mean advanced. Unless you're red hot, forget it.

Simple but entertaining gameplay, decent sound effects, and long term playability will doubtless ensure that *Jet Bike Simulator* spends as long near the top of the chart as the all conquering *Grand Prix Simulator*.

Reviewer Duncan Evans  
Rating 14  
Micro Amstrad CPC  
Price \$4.99  
Supplier Codemasters

## Andy Capp

**C**artoon hero Andy Capp has finally made it onto the computer screen, courtesy of Mirrorsoft. All your favourite characters from the cartoon strip are here, Flo, Chalkie, The Rentman and many others.

The plot consists of Andy discovering that his dole cheque has gone missing, while Flo demands some money. As Andy, you must find out who stole your cheque so that you can give Flo her wedge. But if you cannot find the cheque, you have got to obtain money by other means.

You can use the money from your last giro to place a bet on a horse. Alternatively, try and persuade some friends to lend you a few bob so that you can keep Flo happy.

*Andy Capp* is ideally suited to the Spectrum as the main playing area, the top half of the screen is in black and white similar to the cartoon strip.

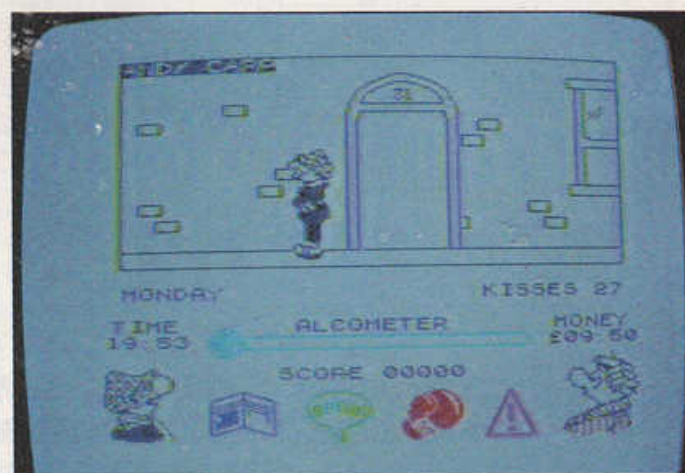
The bottom half of the screen shows the icons you can choose. The Wallet icon, for example, is

used for moving money in and out of your pocket. If you want to be radical you can choose Fight, which can get you out of some tricky situations.

There are many jokes on Northerners in the game, including a rendition of the theme used on Hovis advertisements. Mirrorsoft has produced an enjoyable romp around town in ol' Andy. The graphics, while not detailed, are still impressive enough to make the game enjoyable to

play. I am now awaiting the release of *Andy Capp 2* - how about Andy Capp meets up with Wally Week (remember him). Well done Mirrorsoft.

Reviewer Leslie Bunder  
Rating 15  
Micro Spectrum  
Price \$9.95  
Supplier Mirrorsoft





## Scraples

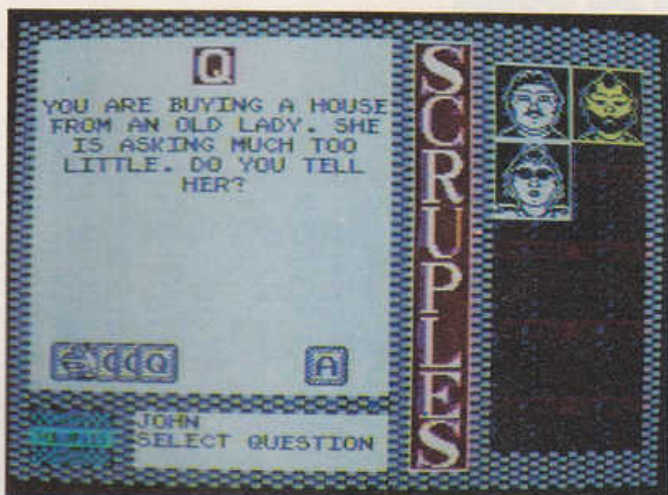
The question posed by the press release is that after reviewing *Scraples* from Virgin Games do you return the program to the magazine's software library, or do you steal it? Silly question really.

Thankfully, the questions posed by the game itself are far more penetrating and dilemma inspiring. It all adds to the fun and games.

Between three and ten players can participate in *Scraples*, although any number of those can be computer players. The initial options include defining a face, from 64, for the player character, as well as 12 personality traits, rated between +5 and -5.

The game commences with each player receiving a number of dilemma cards, and an answer card, which can be yes, no or depends. The idea is to dispense with all the dilemma cards, which is done by selecting a dilemma and posing it to another player. The trick is to give the dilemma to a person whose answer will match your answer card.

Equally, when being given a dilemma, reply with yes, no or depends, and then pick the reason, from a choice of four, that you responded that way. This is where it all gets complicated. If the answers match, the asking player discards the dilemma and answer cards, and receives a new



answer card only. If the answers do not match then they receive a new dilemma card as well.

The asking player now has a chance to challenge the answer, regardless of whether it matches or not, and the players vote on who they believe. Bluff and counter bluff ensue.

At the end of the game the players original histogram and the modified one are displayed and everyone can accuse each other of lying, cheating and so on.

*Scraples* is a rather good implementation of the board game. A pleasant tune warbles away to begin with, and the graphics for the players' faces are reasonably distinctive.

Playing against the computer

provides some measure of fun, but the serious laughs come when you play with a few friends, especially when the questions apply to their current circumstances.

It all depends on whether you like this style of game, but full marks to Virgin for a first class implementation anyway. In response to the question about where our review copy is going to end up - my doggybag, I think chaps.

Reviewer Duncan Evans  
Rating 15  
Micro Spectrum  
Price £9.95  
Supplier Virgin Games

## Basket Master

*Basket Master* puts you in a head to head confrontation on a basketball court, against the computer or another player. Rather than having several different characters to control, you have only one character with which to try to shoot a few baskets.

Imagine has produced quite a nice little game for those who enjoy playing sport games. The graphics are well defined, the sound effects are good and the animation is smooth.

Each game lasts for two periods of five minutes. Each time you score a basket, there is a slow motion close up of how that basket was scored.

As in real basketball, you can also commit fouls such as touching your opponent as he is about to shoot. So you must be careful as to how you steal the ball away from him.

Playing the game is simple and easy to understand. After a few plays, I found the game very enjoyable and exciting. Imagine and the software authors Dynamic have put a great deal of effort into the game and it shows. If you like basketball, or even if you do not, *Basket Master* is highly recommended.

Hopefully Imagine will use the idea of head-to-head confrontations in some of their future sport games.

Reviewer Leslie Bunder  
Rating 15  
Micro Spectrum  
Price £7.95  
Supplier Imagine



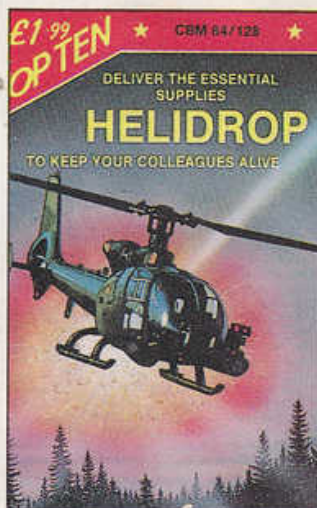
## Software guide continued

Enterprise Centre, Station Road, Theale, Berks RG7 4AA.

Simple gameplay, entirely unoriginal and plain graphics suggest that you should leave this one on the shelf.

**Program** *How To Be A Complete Bastard* **Price** £9.95 **Supplier** Virgin Games, 2/4 Vernon Yard, Portobello Road, London W11 2DX. You'll either be in stitches, offended or completely indifferent.

**Program** *Hunt For Red October* **Price** £14.95 (tape), £19.95 (disc) **Supplier** Argus Press Software,



Victory House, Leicester Place, London WC2H 7NB.

Rather expensive conversion of the ST/Amiga program which was graphically impressive but a bit dubious on the gameplay.

At this price it should have a copy of the Tom Clancy book that it's based on bundled with it.

## IBM PC/Clones

**Program** *Space Quest II* **Price** £24.95 **Supplier** Activision, 23 Pond Street, London NW3. *Space Quest II, Vohaul's Revenge*, throws Roger Wilco back into conflict with Sludge Vohaul, the evil scientist.

The chunky style of graphics look decidedly at home on the PC, and with text input and on screen 3-D arcade adventure action you really can't go wrong.

continued on page 24 ▶



# COMSOFT

APPOINTED AMSTRAD BUSINESS COMPUTER DEALER

## PC/IBM GAMES

TITLE OF GOODS	SOFTWARE HOUSE	R.R.P.	OUR PRICE
221B Baker Street	U.S. Gold	24.99	22.49
A.M.F.M. Trivia Vol. 1	Prism Leisure	9.99	8.99
A.M.F.M. Trivia Vol. 2	Prism Leisure	9.99	8.99
A.M.F.M. Trivia Vol. 3	Prism Leisure	9.99	8.99
Ar Combat Emulator	Cascade	19.99	17.99
Alter Ego (female)	Activision	24.99	22.49
Alter Ego (male)	Activision	24.99	22.49
Amazon	Audogenic	19.99	17.99
Annals Of Rome	P.S.S.	19.99	17.99
Arkland	Imagine	19.99	17.99
Armchair Quarterback	Prism Leisure	9.99	8.99
Backgammon	Prism Leisure	9.99	8.99
Balance Of Power	Microprose	24.99	22.49
Ballyhoo	Infocom	29.99	26.99
Battle Of Ararat	S.S.I.	29.99	26.99
Beyond Zork	Infocom	24.99	22.49
Black Jack	Prism Leisure	9.99	8.99
Born With Time	Activision	19.99	17.99
Boulderdash 1	Prism Leisure	9.99	8.99
Boulderdash 2	Prism Leisure	9.99	8.99
Breakers	U.S. Gold	24.99	22.49
Brian Clough Football	C.D.S.	24.99	22.49
Brimstone	U.S. Gold	24.99	22.49
Brux Lee	U.S. Gold	19.99	17.99
Bureaucracy	Infocom	34.99	31.49
Championship Football	Activision	19.99	17.99
Championship Golf	Activision	24.99	22.49
Conflict In Vietnam	Microprose	24.99	22.49
Cross Check	U.S. Gold	19.99	17.99
Crusade In Europe	Microprose	24.99	22.49
Cuthberts	Infocom	29.99	26.99
Dambusters	U.S. Gold	19.99	17.99
Deluxe Scrabble	Leisure Genus	24.99	22.49
Deadline	Infocom	29.99	26.99
Decision In The Desert	Microprose	24.99	22.49
Destiny	U.S. Gold	24.99	22.49
Dragonwrest	Audogenic	19.99	17.99
Eden Blasters	Infocom	24.99	22.49
Elchier	Infocom	29.99	26.99
F15 Strike Eagle	Microprose	21.99	19.76
Fahrenheit 451	Audogenic	19.99	17.99
Five-a-side Soccer	Mastertronic	9.99	8.99
Football Manager	Prism Leisure	14.99	13.49
Fourth Protocol	Amuletsoft	19.99	17.99
Gamma Games	Amuletsoft	14.99	13.49
Gears	Microprose	29.99	26.99
Gettysburg	S.S.I.	29.99	26.99
Great Escape	Golan	19.99	17.99
Greeting Card Maker	Prism Leisure	9.99	8.99
Hacker	Activision	19.99	17.99
Hacker II	Activision	19.99	17.99
Hell Cap Ace	Microprose	17.99	16.16
Hitchhiker's Guide	Infocom	29.99	26.99
Hollywood Hi-jinx	Infocom	29.99	26.99
Infidel	Infocom	29.99	26.99
Infinitor	U.S. Gold	24.99	22.49
Jewels Of Darkness	Infocom	19.99	17.99
Kamigraphe	S.S.I.	29.99	26.99
King's Quest 1	Serra On Line	19.99	17.99
King's Quest Triple Pack	Activision	24.99	22.49
Knight Dr.	Reinhard	19.99	17.99
Kolyahs	Mastertronic	9.99	8.99
Leather Goddess	Infocom	29.99	26.99
Lord Of The Rings	Millbourne	19.99	17.99
Lunar Explorer	Microprose	29.99	26.99
Lurking Horror	Infocom	29.99	26.99
Macabre Burger	Infocom	24.99	22.49
Major 18 Ultimate Golf	Amuletsoft	19.99	17.99
Med Brigade	S.S.I.	29.99	26.99
Metropolis	Millbourne	19.99	17.99
Mind Dance	Prism Leisure	9.99	8.99
Mind Forever Voyaging	Infocom	34.99	31.49
Mind Shadow	Activision	19.99	17.99
Mind Wheel	U.S. Gold	24.99	22.49
Montezuma's Revenge	Databyte	14.99	13.49
Moonsong	Infocom	29.99	26.99
Music Studio (int 1512 PC)	Activision	24.99	22.49
New Princess In Amber	Audogenic	19.99	17.99
Nord + Bert	Infocom	24.99	22.49
Ogre	Origen	24.99	22.49
Orbitor	Microprose	29.99	26.99
Passengers On The Wind	Infocom	24.99	22.49
Passengers On The Wind II	Infocom	19.99	17.99
Perry Mason	Audogenic	19.99	17.99
Pitstop II	Amuletsoft	19.99	17.99
Playfall	Infocom	29.99	26.99
Plundered Hearts	Infocom	24.99	22.49
Poker	Prism Leisure	9.99	8.99
Portal	Activision	24.99	22.49
Pro Golf	Mastertronic	9.99	8.99
Prohibition	Infocom	19.99	17.99
Protect PC	Amor	59.99	53.99
PSI 5 Trading Co	U.S. Gold	19.99	17.99
Poon Chess	Pison	24.99	22.49
Pub Pool	Mastertronic	9.99	8.99
Rendezvous With Rama	Audogenic	19.99	17.99

Rings Of Zelen	S.S.I.	24.99	22.49
Roadwar 2000	S.S.I.	24.99	22.49
Rock And Wrestle	Melbourne	19.99	17.99
Saboteur 2	Dunell	14.99	13.49
Seastalker	Infocom	29.99	26.99
Shanghai	Activision	19.99	17.99
Shogun	Virgin	19.99	17.99
Sidewalk	Infocom	19.99	17.99
Silent Service	Microprose	24.99	22.49
Sky Runner	Cascade	19.99	17.99
Solo Flight	Microprose	19.99	17.99
Space Max	Frontier	39.99	35.99
Space Quest	Serra On Line	19.99	17.99
Spellbreaker	Infocom	29.99	26.99
Spotify Ace	Microprose	17.99	16.16
Starcross	Infocom	29.99	26.99
Starglider	Reinhard	19.99	17.99
Starfall	Infocom	29.99	26.99
Storm	Mastertronic	9.99	8.99
Strike	Mastertronic	9.99	8.99
Strip Poker	U.S. Gold	19.99	17.99
Sub Battle Simulation	U.S. Gold	24.99	22.49
Summer Games II	Amuletsoft	19.99	17.99
Super Sunday	Prism Leisure	14.99	13.49
Superstar Ice Hockey	Databyte	24.99	22.49
Support	Infocom	29.99	26.99
Tag Team Wrestling	U.S. Gold	19.99	17.99
Taxi Times	Activision	19.99	17.99
Thesaurus	Activision	19.99	17.99
Top Gun	Dolan	19.99	17.99
Tractor Sanction	Activision	19.99	17.99
Travis	Reinhard	19.99	17.99
Trinity	Infocom	34.99	31.49
Trivial Genius Edit	Denmark	24.99	22.49
Two On Two Basketball	Activision	24.99	22.49
Ultima 3	Origen	24.99	22.49
Ultima 4	Origen	24.99	22.49
Ultima 5	Origen	24.99	22.49
Ultima 6	Origen	24.99	22.49
Ultima 7	Origen	24.99	22.49
Ultima 8	Origen	24.99	22.49
Ultima 9	Origen	24.99	22.49
Ultima 10	Origen	24.99	22.49
Ultima 11	Origen	24.99	22.49
Ultima 12	Origen	24.99	22.49
Ultima 13	Origen	24.99	22.49
Ultima 14	Origen	24.99	22.49
Ultima 15	Origen	24.99	22.49
Ultima 16	Origen	24.99	22.49
Ultima 17	Origen	24.99	22.49
Ultima 18	Origen	24.99	22.49
Ultima 19	Origen	24.99	22.49
Ultima 20	Origen	24.99	22.49
Ultima 21	Origen	24.99	22.49
Ultima 22	Origen	24.99	22.49
Ultima 23	Origen	24.99	22.49
Ultima 24	Origen	24.99	22.49
Ultima 25	Origen	24.99	22.49
Ultima 26	Origen	24.99	22.49
Ultima 27	Origen	24.99	22.49
Ultima 28	Origen	24.99	22.49
Ultima 29	Origen	24.99	22.49
Ultima 30	Origen	24.99	22.49
Ultima 31	Origen	24.99	22.49
Ultima 32	Origen	24.99	22.49
Ultima 33	Origen	24.99	22.49
Ultima 34	Origen	24.99	22.49
Ultima 35	Origen	24.99	22.49
Ultima 36	Origen	24.99	22.49
Ultima 37	Origen	24.99	22.49
Ultima 38	Origen	24.99	22.49
Ultima 39	Origen	24.99	22.49
Ultima 40	Origen	24.99	22.49
Ultima 41	Origen	24.99	22.49
Ultima 42	Origen	24.99	22.49
Ultima 43	Origen	24.99	22.49
Ultima 44	Origen	24.99	22.49
Ultima 45	Origen	24.99	22.49
Ultima 46	Origen	24.99	22.49
Ultima 47	Origen	24.99	22.49
Ultima 48	Origen	24.99	22.49
Ultima 49	Origen	24.99	22.49
Ultima 50	Origen	24.99	22.49
Ultima 51	Origen	24.99	22.49
Ultima 52	Origen	24.99	22.49
Ultima 53	Origen	24.99	22.49
Ultima 54	Origen	24.99	22.49
Ultima 55	Origen	24.99	22.49
Ultima 56	Origen	24.99	22.49
Ultima 57	Origen	24.99	22.49
Ultima 58	Origen	24.99	22.49
Ultima 59	Origen	24.99	22.49
Ultima 60	Origen	24.99	22.49
Ultima 61	Origen	24.99	22.49
Ultima 62	Origen	24.99	22.49
Ultima 63	Origen	24.99	22.49
Ultima 64	Origen	24.99	22.49
Ultima 65	Origen	24.99	22.49
Ultima 66	Origen	24.99	22.49
Ultima 67	Origen	24.99	22.49
Ultima 68	Origen	24.99	22.49
Ultima 69	Origen	24.99	22.49
Ultima 70	Origen	24.99	22.49
Ultima 71	Origen	24.99	22.49
Ultima 72	Origen	24.99	22.49
Ultima 73	Origen	24.99	22.49
Ultima 74	Origen	24.99	22.49
Ultima 75	Origen	24.99	22.49
Ultima 76	Origen	24.99	22.49
Ultima 77	Origen	24.99	22.49
Ultima 78	Origen	24.99	22.49
Ultima 79	Origen	24.99	22.49
Ultima 80	Origen	24.99	22.49
Ultima 81	Origen	24.99	22.49
Ultima 82	Origen	24.99	22.49
Ultima 83	Origen	24.99	22.49
Ultima 84	Origen	24.99	22.49
Ultima 85	Origen	24.99	22.49
Ultima 86	Origen	24.99	22.49
Ultima 87	Origen	24.99	22.49
Ultima 88	Origen	24.99	22.49
Ultima 89	Origen	24.99	22.49
Ultima 90	Origen	24.99	22.49
Ultima 91	Origen	24.99	22.49
Ultima 92	Origen	24.99	22.49
Ultima 93	Origen	24.99	22.49
Ultima 94	Origen	24.99	22.49
Ultima 95	Origen	24.99	22.49
Ultima 96	Origen	24.99	22.49
Ultima 97	Origen	24.99	22.49
Ultima 98	Origen	24.99	22.49
Ultima 99	Origen	24.99	22.49
Ultima 100	Origen	24.99	22.49

TITLE OF GOODS	SOFTWARE HOUSE	R.R.P.	OUR PRICE
1-Up (computer Calc)	Compsoft	49.99	44.99
151 Word Plus	Digital Research	79.99	71.99
2 Bookwork 1 Delta	Compsoft	399.99	359.99
3 in One	Logistix	29.99	26.99
ABC All In One	A.B.C.	172.44	155.20
Ability	Magent	113.85	102.47
Ability Plus	Magent	162.85	144.57
Accountability	Magent	113.85	102.47
Accountant	SageSoft	171.35	154.22
Accountant/Payroll	SageSoft	228.85	205.97
Accountant Learning	SageSoft	29.99	26.99
Accounts And Payroll	Sandpaper Software	199.99	179.99
Accounts With Stock	Sandpaper Software	199.99	179.99
Advanage Purchase	Anagran	113.95	102.56
Advanage Sales	Anagran	113.95	102.56
Advanage Stock	Anagran	113.95	102.56
Apple Laserwriter	Microprose	89.99	82.99
Art Studio	Microprose	49.99	44.99
Book Worker	Compsoft	199.99	179.99
Book Worker & Delta 4 Promo	Compsoft	399.99	359.99
Bookkeeper	SageSoft	113.85	102.47
Calendar/Station Maker	Prism Leisure	49.99	44.99
Cardbase	Compsoft	49.99	44.99
Cardbase Plus	Compsoft	59.99	53.99
Certificate Maker	Microprose	24.99	22.49
Chart Chart	SageSoft	113.85	102.47
Chart Chart + Modern	SageSoft	274.85	247.37
Compact Accounts	Compsoft	199.99	179.99
Compact Accounts Plus	Compsoft	249.99	224.99
Compact Daybook	Compsoft	69.99	62.99
Complete Accounting	M.A.P.	343.85	309.47
Complete Accounting	M.A.P.	149.00	134.10
Complete Display Package	Compsoft	519.30	467.37
Complete Professional Pack	SageSoft	499.85	449.87
Condo Junior	Canton	99.99	89.99
D-Base III+	Ashton Tatl	684.25	615.83
DAC Easy Accounting	T.S.L.	97.90	88.11
DAC Easy Base	T.S.L.	57.45	51.71
DAC Easy Mate	T.S.L.	47.44	42.70
DAC Easy Port	T.S.L.	45.94	41.35
Database Link	M.A.P.	29.00	26.10
Database Links	M.A.P.	48.00	41.40
Daybook	Compsoft	89.99	80.99

DBase II	1st Software	119.00	107.10
Dealer Card	Compsoft	519.75	467.78
Decision Director	1st Software	49.95	44.96
Defender Of The Crown	Microprose	24.95	22.46
Delta 4	Compsoft	99.95	89.96
Delta Graph	Compsoft	69.95	62.96
Desk Set	SageSoft	79.35	71.42
Desktop Accountant	Canton	201.25	181.13
Desktop Commands	Neric Automation	28.75	25.89
Disk Tidy	M.C.M.	49.95	44.96
Domino	Compsoft	99.95	89.96
Easy Labeler	M.A.S.S.	29.95	26.96
Electric Studio Imprint	Digital Research	9.95	8.96
Eyes On PC	U.S. Gold	19.95	17.96



# SUPERPAC: COMPLETE SYSTEM FOR LESS THAN WHAT YOU WOULD PAY FOR A 520 STFM!

FOR ONLY  
**£259.95**  
INC VAT  
THE SUPERPAC  
INCLUDES...



## COMPUTER:

- v Atari 520 STM computer
- v 16 bit 68000 CPU, 8 MHz
- v 520K bytes of RAM, 192K bytes of ROM
- v 128K ROM cartridge optional

## FD-200 DISC DRIVE:

- v Double-Sided 3.5 inch Disc Drive
- v 720K bytes (formatted) of storage
- v Twice the capacity of the 520STFM drive
- v All protected software

## SOFTWARE:

- v Atari Basic
- v RAM disk, clock, Doodle
- v Megaroids, ST Writer Wordprocessor

## DISPLAY:

- v UHF output for colour TV
- v monitor output
- Monitor optional

## Monitors (if required):

- ATARI monochrome, high resolution: SM 125 £135.00 inc. VAT.
- Philips colour, medium resolution: CM 8833 £299 inc. VAT.

Post and packing on monitor: £7.00

We stock the entire range of Atari products, including monitors, printers, Mega ST2 and ST4, Laser printer, Atari PC and large selection of software and accessories (leads, ribbons, paper, discs, graphic tablets, video digitiser, hard disc, drive mechanism, sound synthesiser etc.)

## SHOPPING HOURS AND ORDERING:

We are open Monday to Saturday, from 9.00am to 5.30pm (Saturday from 10.30am). We accept Access and Visa credit cards.

## OUR PRICE PROMISE:

Yet a complete system, up to the mains plug, and with a double-sided disc drive, the MEGAPAC costs only £259.95 inc. VAT, actually less than the 520 STFM! You can be certain that this is the best price you would find anywhere, we will refund the difference if you find the same system cheaper from any official Atari dealer. Please allow £7.00 for post and packing. Public Domain software: only £2.00 per disc! Ring for list.

**A.S.&T.**

EVERYTHING ATARI ST  
**ATARI**  
Power Without the Price™

**(0702) 510151**

Monday to Saturday  
9.00am to 5.30pm  
Southend

A.S.&T.

M25 (25 miles)  
London

**PHONE ORDERS:**  
**(0702) 510151**

**ADVANCED SYSTEMS AND TECHNIQUES**  
**UNIT 32/33 RUTHERFORD CLOSE**  
**PROGRESS ROAD**  
**EASTWOOD INDUSTRIAL ESTATE**  
**SOUTHEND-ON-SEA**  
**ESSEX SS9 5LQ**

# Once Bytten



## AMIGA HARDWARE

A500 + Modulator	£499.95
(Includes D/Print + 10 P/D Discs + More!)	
1081 Monitor (Few Only)	£299.00
A1010 Ext. Disc Drive	£244.00
Cumana CAX354 Disc Drive	£139.00
512Kb Expansion + Clock	£99.00
Supra 20Mb Hard Disc for A500	£745.00
Supra 60Mb Hard Disc for A500	£1495.00
Easy Drawing Tablet A500	£315.00
Rendale PAL Genlock A500/2000	£269.00
Ruby-Comm Viewdata/TTY Comms	
(Allows split baud rates)	£139.95
Centronics Printer Lead	£12.95

**Less  
Your  
Part  
Exchange**

## ATARI ST HARDWARE

520 ST-FM (Inc. 5 P/D Discs)	£279.50
520 ST-FM + SM125 Mono Monitor	£379.50
MEGA ST 2Mb	£837.50
MEGA ST 2Mb + SM125 Mono Monitor	£937.50
MEGA ST 4Mb	£1117.50
MEGA ST 4Mb + SM125 Mono Monitor	£1210.50
SC1224 Colour Monitor	£372.50
SLM804 Laser Printer	£1210.50
SH204/5 20Mb Hard Disc	£559.95
MEGA ST 4Mb SM125 + SLM804 + SH205	£2779.00
Above Deal Plus Timeworks DTP	£2850.00
Centronics Printer Lead	£12.95

**Less  
Your  
Part  
Exchange**

## ST SOFTWARE - GAMES

Star Trek	
Star Wars	
Backlash	£14.95 each or all three for £42.00

Jewels Of Darkness, Silicon Dreams,  
Golden Path, Boulderdash Construction Kit,  
Pirates Of Barbary Coast, Tass Times In Tone Town

£8.95 each

Zork I, II or III, Ballyhoo, Hollywood Hijinx,  
Trinity, Spellbreaker, Moonmist, Wishbringer,  
Hacker, Hacker II, Borrowed Time, Mindshadow

## ST SOFTWARE - SERIOUS

Timeworks Desktop Publisher (Brilliant!)	(Intro. offer) £79.95
1st Word Plus	£64.50
Easy Draw 2	£64.50
Cyber Studio (All add-ons also available)	(Intro. offer) £69.95
Wordwriter ST (Inc. 3-way Spell Checker and Thesaurus)	£64.50
Swiftcalc	£64.50
Superbase Personal	£79.95
Mark Williams C	£99.95

## DISCS

All with lifetime guarantee. 100% error free					
<b>Xidex/Dysan Bulk 3 1/2" (including labels)</b>					
	10	25	50	100	200
SSDD 135tpi	£11.95	£27.95	£51.50	£95.50	£187.50
DSDD 135tpi	£13.50	£31.50	£57.50	£110.00	£199.00
<b>Safe Data 3 1/2" DSDD 135tpi</b>					
10 in Library Case	£14.95				
<b>BASF/Athana Bulk 5 1/4" (including sleeves and labels)</b>					
	25	50	100	200	1000
SSDD 96tpi	£9.40	£17.75	£31.90	£61.70	£272.50
DSDD 96tpi	£9.80	£18.50	£33.50	£64.40	£285.00
High Density	£31.62	£55.25	£101.90	£196.70	£897.50
<b>SPECIAL LIMITED OFFER</b>					
3M Branded 3 1/2" DSDD 135tpi 10 box	only £17.50				

## BBC

Joystick (no interface needed) £5.95

All our prices include VAT and carriage in U.K. Overseas orders welcomed. For Europe please add 10% to above prices, further afield please ask for a quote. If you don't see it here... give us a call. Remember... we support most micros and have new stocks arriving daily.

We especially welcome part-exchange and we would be only too pleased to quote you.

Write to:

**59 SWANLEY ROAD**  
**WELLING, KENT DA16 1LL**  
**or 'PHONE: 01-304 2631**

Cheques to AMTEN LIMITED



Callers welcome but please 'phone first  
We are open Mon.-Sat. 9am-10pm





## Software guide continued

◀ continued from page 21

### Spectrum

**Program** *Tank Busters* **Price** £1.99 **Supplier** Firebird, Wellington House, Upper St Martin's Lane, London.

Very much a *Battlezone* style affair with the added bonus of wire guided missiles.

Seek out the lager of... no that's something else.

Seek out the aliens and destroy the suckers. Laudible enough quest and the wire frame 3-D graphics are good enough.

Budget software tends to be rather hit and miss, with the emphasis on the latter. Nice to report a game that is firmly in the former category.

**Program** *Pro Golf 2* **Price** £1.99 **Supplier** Atlantis, 28 Station Road, London SE25 5AG.

A golf simulation sequel for 1-4 players, featuring Royal St George's and Lytham St Annes.

Not particularly impressive and as far as I'm concerned, if it isn't *Leaderboard*, it isn't golf.

**Program** *Rock & Wrestle* **Price** £1.99 **Supplier** Firebird, Wellington House, Upper St Martin's Lane, London.

Wasn't this the Melbourne House wrestling game from a couple of years ago that everyone was particularly unimpressed with? Yes, so it was.

**Program** *Xen* **Price** £1.99 **Supplier** Top Ten, 12 Chiltern Enterprise Centre, Station Road, Theale, Berks RG7 4AA.

Finally, a re-release from more recent times from Top Ten.

*Xen* is a vertically scrolling shoot-'em up with lots of colour (aka *Lightforce*), decent gameplay and it's pretty cheap to boot. A good buy.

**Program** *Chaos* **Price** £1.99 **Supplier** Firebird, Wellington House, Upper St Martin's Lane, London. I mentioned this a couple of weeks back in *Hotlines*.

Oh dear, it doesn't look very good at all. Still, any game which allows for eight players squeezing around a keyboard deserves a look.

**Program** *Sports Hero* **Price** £1.99 **Supplier** Firebird, Wellington

## California Games

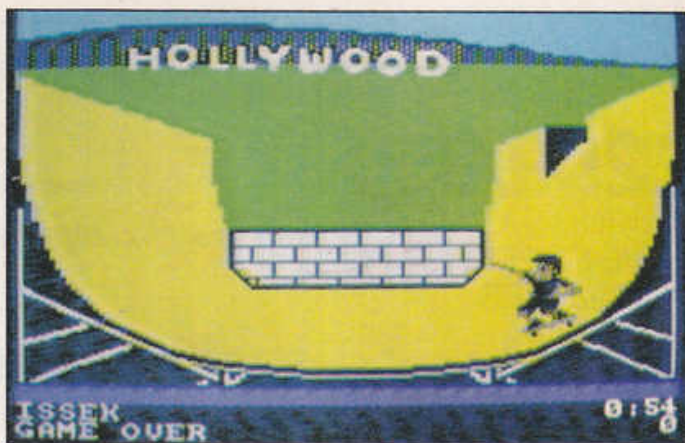
It is the first week of cold January and US Gold has finally got round to releasing the Spectrum version of *California Games*.

*California Games* is a multi-load event game with six different events, Half Pipe Skateboarding, Foot Bag, Surfing, Roller Skating, BMX Bike Racing and Flying Disk. In the foot bag event, you must keep the bag in the air for one minute and 15 seconds only using your feet, knees and head, while trying to perform a few stunts for extra points.

Surfing has you trying to stay near the curl of the wave and manoeuvring the board at high speeds. What all the events have in common is a need to show your skills to the full - the more skills you have, the more points you will gain.

While the game sounds exciting and the inlay card makes interesting reading, the game is let down by the way in which the graphics are defined.

Controlling the characters in



the various events is also a little confusing.

The actual packaging, presentation and idea of the game are quite good. It is a real shame that these points were let down by the standard of programming.

One fun aspect of the game is the chance to choose your own sponsor from a selection of names including Ocean Pacific, Frisbee and Bluebird. Also, by purchasing the game, you have a chance to win some prizes from US Gold including surf boards and tee-shirts.

But having the chance to win a prize or choose your own sponsor does not redeem the game. US Gold could have produced something of a higher standard, *California Games* is a sad release from the company.

Reviewer Leslie Bunder  
Rating 6  
Micro Spectrum  
Price £7.95  
Supplier US Gold



## Galactic Games

On the face of it, *Galactic Games* could almost be called *Flogging a Dead Horse in Space*. How many more sports games will the great British public tolerate? But *Galactic Games* has a secret weapon; some of the events are funny as well as being enjoyable. What you get are 100m Slither, Space Hockey, Psychic Judo, Head Throwing and the Metamorph Marathon.

The first event is an exciting race between two worms. It is good fun and the animation of the worms, especially when they try to super slither, is well done.

Space Hockey is a novel re-

working of an old standard. The goals at either end of the pitch are black holes and if a player approaches too close, down he goes.

As the players are a sphere, judicious use of the brake is necessary to retain some measure of control over the proceedings. Space Hockey is best played against a friend; beating the computer is not so much fun.

The worst game of the five is undoubtedly Psychic Judo, an event in which the players lob balls of psychic energy at each other. Guide the ball of plasma and erect a shield to block retaliatory action.

My favourite event is head-

throwing. Not the sick variety in which the player throws some poor unfortunate's noggin. In this game you leg it down the track as fast as possible, stop to get the correct angle and then off it goes - your head, that is. While it is airborne, extra lift is provided by flapping the ears.

To avoid bouncing on touchdown it is necessary to press the fire button to start the head rotating. Get it correct and your head dives nose first into the turf. Enormously funny, this is by far the best event in the collection and justifies the purchase.

The last event, the Metamorph Marathon, is a timed obstacle course. To get round successfully a number of shape changes are the order. Become a runner, burrower, jumper or flyer.

Although the graphics and sound are nothing to shout about most of the events are entertaining enough and who could resist the opportunity to throw his own head?

Reviewer Duncan Evans  
Rating 13  
Micro Amstrad CPC  
Price £9.99 (tape), £14.99 (disc)  
Supplier Activision





## Wrestling

Wrestling is a much bigger game - I hesitate to use the word sport - in the States than it is in the U.K. It is a surprise, then, to witness Microprose importing *Micro League Wrestling*, an official World Wrestling Federation product.

What really is impressive about the game is the standard of the graphics. They are all digitised shots of Hulk Hogan and his two challengers, Randy 'Macho Man' Savage and Paul 'Mr Won-

derful' Orndorff, in various poses as they flounce round the ring.

Rather than being an arcade-style game, like the U.S. Gold *Championship Wrestling*, *ML Wrestling* is apparently more strategic. After suffering the preliminaries in which the combatants are 'interviewed' by the TV channel showing the event, the clocks starts ticking and a list of your possible options appears to the left of the main display.

A strength counter measures your ability to deliver blows as frightening as The Clothes Line,

while a damage counter clocks how much sense you are having knocked out of you. If you do not get off to a good start the match rapidly becomes a lost cause and the one fall needed in the 20-minute match to win soon occurs.

The action is animated, in a crude kind of way, but as this is a crude type of sport it is rather appropriate. Between two and four frames of digitised action are played rapidly to give an unconvincing illusion of movement. In true TV style the camera switches to the crowd from time to time. The only thing missing is a break for the advertisements.

*Micro League Wrestling* is interesting enough for about two games. After that the glamour of the digitised pictures tends to fade and the inherent boredom rises to the surface. If you are a wrestling fan the appeal will last longer but as far as I'm concerned I would rather watch margarine melt.

Reviewer Duncan Evans  
Rating 10  
Micro Atari ST  
Price £19.95  
Supplier Microprose

## Bubble Bobble

Would you describe the title *Bubble Bobble* as the greatest arcade game of the year? I would not.

*Bubble Bobble* casts you as a small predominantly green monster which spits bubbles. The object is to leap around the platform-strewn screen, spitting the bubbles at leaping enemies. There are 100 screens to complete and eight credits with which to play.

To clear a screen you need to hit all the rampaging bogeys or whatever they are. Hitting one results in it becoming encapsulated in a bubble, which rises slowly towards the top of the screen.

To kill the nasty, burst the bubble or, in other words, stamp on the sucker. A piece of fruit springs forth, which can then be stamped on for bonus points.

There are myriad features in the form of magic targets and bonus letters. Also fire, thunder and water bubbles will help destroy the bullies quickly.

Watching the water bubbles

burst and pour downhill is one of the bright spots in a generally mediocre game.

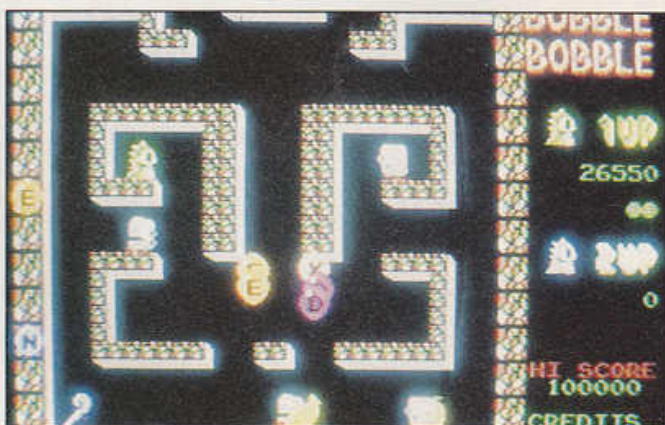
Clearing a screen quickly - and the first four or five can be cleared very quickly and very easily - allows for high point targets on the next level. Instead of squashing fruit for 2,000 points maximum, you can hit jewels and other goodies for 5,000-10,000 points.

If you take too long on a screen Baron von Blubba appears. He is indestructible, so

when he appears get your finger out otherwise you have had it.

*Bubble Bobble* is mildly entertaining in a monotonous kind of way. It is fine for the younger games player but otherwise it lacks the kind of polish which would convince you it was really running on an Atari ST.

Reviewer Duncan Evans  
Rating 10  
Micro Atari ST  
Price £19.95  
Supplier Firebird



## Software guide continued

◀ continued from page 23

House, Upper St Martin's Lane, London.

Four events feature in another Melbourne House budget re-release affair. 100 Metre Sprint, Long Jump, 110 Metre Hurdles and the Pole Vault are all you get. It may only be £1.99 but this is hardly good value, and the graphics are nothing to tell David Vine about either.

Program *The Colditz Story* Price £1.99 Supplier Atlantis, 28 Station



Road, London SE25 5AG.

Escape from Colditz Castle, while avoiding the guards who will have you shot at dawn if they catch you.

An arcade/strategy adventure that is reminiscent of Ocean's *The Great Escape*. Only it isn't that good.

Program *Deflektor* Price £9.95 Supplier Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS.

See Commodore 64 listing for the biz.

Program *Compendium* Price £0.00 Supplier Gremlin Graphics, Alpha House, 10 Carver Street, Sheffield S1 4FS.

Four simple games that are no worse than the other versions, considering the Spectrum's graphics.

Program *Madballs* Price £7.95 Supplier Ocean, 6 Central Street, Manchester M2.

Check out the review of the Amstrad version for relevant comments.



# Private image

Peter Worlock tests out JCL's Digipic video digitiser for the Amiga.

Most of us would like to be able to produce the kind of graphics the Mirrorsoft Cinemaware range have made commonplace in games like *Defender of the Crown* and, most recently, *King of Chicago*. The trouble is that most of us do not have the artistic talents to draw anything except *Invasion of the Matchstick Men*, but if you have an Amiga, a video camera and a spare £300, an easy solution is at hand.

The JCL Digipic video digitiser allows you to capture video images and use them in almost any Amiga software. That is reputed to be how Palace Software translated the realistic movements of the protagonists in *Barbarian*. Now you, too, can have your friends act scenes from your latest epic, grab sequences using Digipic, touch up the images in *Deluxe Paint* and then use the resulting graphics in your masterpiece.

The digitiser is a large black box, about the size of two external disc drives, which connects to the Amiga parallel port. A cable from the video camera plugs into the rear of the Digipic unit and then you power up everything, load the software and start shooting.

Although the system is designed specifically to work with a video camera you can use any other suitable video source, such as a video recorder, which is what I used for this review. A suitable cable is easily available from most hi-fi and electronics stores but I made one by butchering two spare TV interface leads.

## Hooked to the TV

Using the software was simple. If you are using a camera it helps to have a separate monitor in addition to the Amiga monitor for displaying the camera image. That

helps with focusing, contrast and other initial setting-up. With a video recorder, of course, you can leave it hooked to the TV as usual.

When you have a suitable image you select Digitise from the menu bar and Digipic grabs a frame and displays it on the Amiga monitor. An additional video display is not essential, since you can have Digipic constantly grab a sequence of images and display them successively on the Amiga. When you see one you like you press the Escape key and Digipic keeps that one and breaks out of the loop.

I found the system gave excellent results from both TV signals and pre-

has the EGSA adaptor.

All this is not to say that Digipic cannot work in colour... but the process is a little more complex. Supplied with the package are three colour filters in red, green and blue. These are fitted to your camera and used in sequence. Digipic takes three images with the filters masking out the corresponding colours and the three resulting pictures are merged to give a fairly accurate colour image.

## Rock-steady camera

How accurate it is depends on the quality of the camera, lighting, and having a rock-

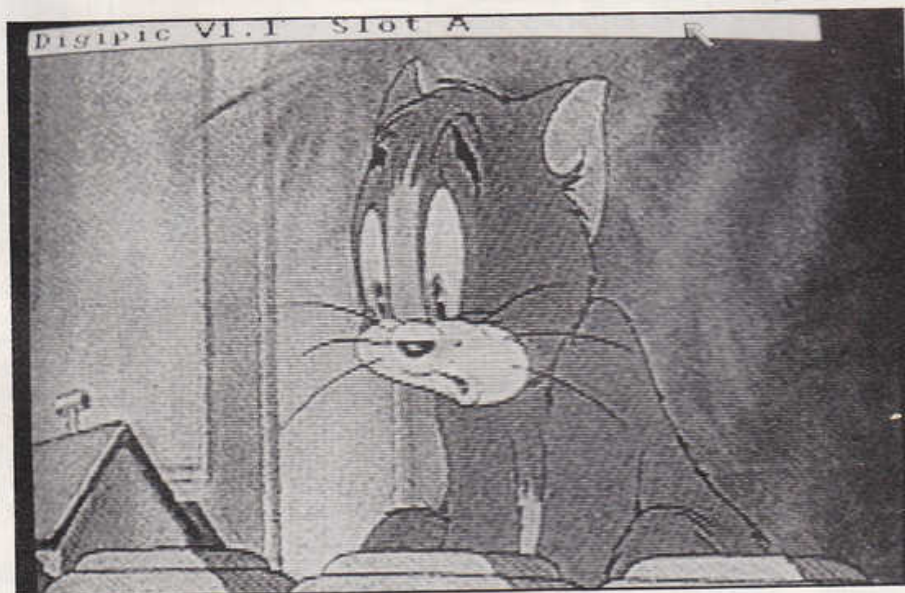
steady camera during the three shots. The results, the manual implies, range from excellent to poor. Once you have captured a suitable image the first thing to do is to save it. The Digipic software allows you to save in a variety of formats, depending on what you want to do with the image. Since a screenful of bit-planes occupies a good deal of memory you can save a file in compressed form,

which saves disc space but might give problems if your other software cannot read the format.

The other main option is to specify the number of bit-planes to be saved. Digipic uses six planes in monochrome to store higher-resolution pictures than most software. If you want to load the image back into Digipic you must save six planes.

Some programs like *Deluxe Paint* will not accept six planes so you can choose four- or five-plane formats. Generally, four are used for monochrome pictures and five planes for colour.

Finally, you also have the choice of saving only a part of the whole screen image, which uses considerably less disc space.

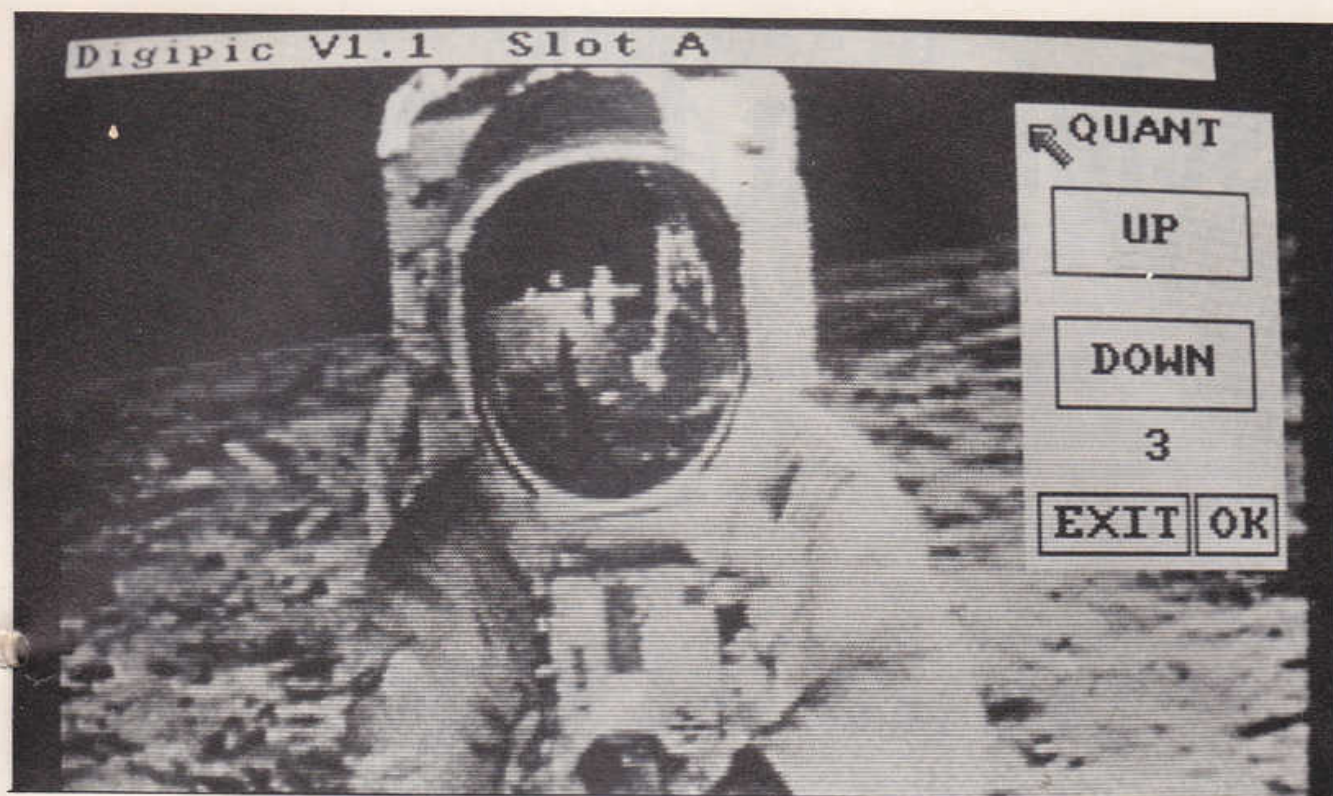


recorded video tapes. Digipic really works in mono and will give first-class black and white images using a 16 level grey scale. An additional adaptor is supplied to reside between Digipic and the Amiga which gives an extended 32-level grey scale and this produces correspondingly better images.

## Masking out

The only disadvantage to using extended grey scale pictures is that the adaptor must be present on the Amiga whenever the images are to be loaded, even if you want to put them into another program. This means that you cannot pass on a disc of EGSA pictures unless the recipient also





The software also provides a series of image-processing tools which can be used to enhance a poor-quality image. They include the ability to affect the brightness of each pixel, the contrast between neighbouring pixels and the opportunity of clipping very light and very dark grey levels from the scale.

Two other options allow you to spread the range of greys across the full 16 levels, producing a more even tone. It is great fun experimenting with these tools and some interesting graphic effects can be produced but I found that, from the video recorder at last, the first image produced by Digipic was excellent and using the tools always resulted in a reduction in quality.

The only other comment on the software tools is that they form the basis of my only complaint about the system, and it is a minor one, anyway. Some of the tools take time to complete their task but there is no indicator of that. If you pull down a menu while some image processing is taking place you get a ghosting effect in the main picture. Use of the "busy" icon on the mouse pointer would cure this simple fault.

More interesting is the ability to port your digitised image into Deluxe Paint or something similar and you can then touch up lines, altering the contrast and adding colour. From there you can do almost anything with it, including using the resulting images in your programs, includ-

ing Basic.

The real question is ultimately what you might expect to do with a video digitiser and the honest answer for the moment is "not much". The system is great fun to play with and, provided that you are prepared to do a good deal of work touching-up pictures you can use them in a variety of programs.

If you do not have a video camera all the images available to you are strictly copyright and you could not use them in any commercial program.

### Estate agents

Perhaps the major use will be in compiling a video database. With a camera attached to a copying stand, you could create a file of Amiga pictures - of photographs, book covers, technical drawings, architects' plans and so on. Estate agents could hold a database of properties for sale, complete with a picture of each house. These can be compiled into one of several commercial database packages which support pictorial as well as textual data.

Suffice it to say that if you can think of an application which requires, or would be improved by the ability to use real-world images on your Amiga, the Digipic system is excellent. The hardware was well-built and reliable, while the software is virtually flawless. □

**Product:** JCL Digipic  
**Price:** £299 plus VAT  
**Supplier:** Precision Software, 6 Park Terrace, Worcester Park, Surrey KT4 7JZ





# Disciple on the cheap?

The +D is full of surprises. The first is the size of the box - scarcely big enough to hold a large paperback; the second is the interface - not much bigger than a pack of cards and probably not so thick. I was expecting something similar to the Rockfort Disciple but this is a new and different beast. Neat, tidy; gone is the hot plastic Disciple box with the +2 dangling uneasily above; this is metal, sticks out behind and runs cool - only one PAL instead of two; with a near LED atop which shows it is powered - it is extinguished during disc operations.

## Size

It is not much wider than the edge connector in front; there is just room for disc ribbon cable and printer ribbon cable connectors - standard BBC types - at the back. No joystick port, no through port - get out your microslots - no network, no disable button.

At first it crashed in 128K mode; with my arrogance I had started without reading the manual. The first page of text indicates clearly that for a 128+2 "go into EDIT mode and select SCREEN to avoid problems later". Problems? They mean it. This is fiddly and could perhaps have been avoided but I soon got used to it. Once operating, it is very like the Disciple but with improvements.

## Formatting

There is the same formatting - up to 800K per disc depending on drive; two drives served - and all the usual facilities for saving, loading, verifying, re-naming and copying files. There are many files, too - Basic, code, screen, number and character arrays. Microdrive files, "special" files and execute - auto-running code - files; and 48K and 128K snapshots.

The snapshot button next to the LED

John Wase reviews the Miles-Gordon + D Disc Interface.

takes a snapshot of the whole memory, either 48K or 128K. It is not intended as a competitor of Multiface interfaces and will not permit Pokes; nor is there a toolkit.

I tested it with Tasword +2 with the Disciple patch, as saved on a Disciple. It loaded it admirably; it really is compatible with Disciple discs and the snapshot button worked, taking around 15 seconds to save the whole 128K on my geriatric drive; re-loading took an impressive eight seconds.

The snapshot button plus other keys will also dump small screens on almost any

are other alterations in the operating system.

The system file now boots to a different location; in the Disciple it loaded first then moved down into the operating area, with some duplication. With this and the removal of the network code there is now some 2-75K of paged RAM left for the user; for example, to insert extension Basic directly or from the boot program to allow random access files, the hardware is arranged for ready access from Basic to a disc sector.

## Quirks

Port addresses differ from the Disciple 5, 6 and 7; +D uses 2, 3 and 4, the same as Microdrives. It is therefore no longer Microdrive- or Discovery-compatible - no point in a disable button; nor ZX printer-compatible, but should run with other peripherals like Kempston interfaces, mice and midi. Additional quirks Disciple had with its streams and channels have also been sorted out.

The 24-page A5 manual is well produced and clearly written with examples and answers to potential queries.

Sources of information for more advanced users are indicated, principally from IN-DUG, the user group, which has a useful hot-line for burning problems.

The review sample had several PCB modifications, proof that testing had revealed problems which had been rectified: my issue seemed fairly bug-free. Notches for ribbon cable connectors were hand-filed in the metal.

I enquired and was told that production interfaces would have re-designed PCBs and properly-notched cases with the company logo painted on.

I thought the +D worked well. It works with all Spectrums except the +3 - a pity this has no ROMCS line - and on its own at £49.95 or with a 780K capacity drive at £129.95 offers good value for those seeking an upgrade.



printer and A4 screens on Epson-compatibles with full grey scale.

Finally, unlike Disciple, you can abort any unintended snapshot; I dropped a disc on it by mistake by pressing "X", a useful addition.

The printer port works well - it must to do screen dumps - and will work as a stand-alone parallel interface. Unlike the Disciple, you do not need to boot the system disc or load a systems tape. This has been re-designed from Disciple days and is now much easier to follow; I preferred the blue screen, too.

## Alterations

I noticed, however, that single density systems are no longer catered for. There



# Subscribe to **YOUR COMPUTER**

*A new look for an established magazine*

*Your Computer* is now taking a new approach to satisfying its readership. More in-depth reviews, more features, more style, and more to satisfy computer owners who want to do more than just play games. We are sure that existing subscribers will immediately find the magazine changes for the good, but if you have yet to subscribe, now's the time!

## *Special offer* **10% OFF**

Anyone subscribing to *Your Computer* this issue will save 10%\* on the new subscription price of £15 per annum. This means that for twelve months, you will receive the best computer magazine available, earlier than your friends, and cheaper too!

A subscription to *Your Computer* makes an ideal present for a friend with an interest in computers. Just complete the appropriate section below, make your cheque payable to Focus Magazines Ltd and send to TIL, P.O. Box 64, Tonbridge, Kent TN12 6BW.

*I would like to take advantage of the Your Computer special offer. Please begin my subscription with the next issue of the magazine. I enclose a cheque/postal order for £13.50.*

Name \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

*Please send the subscription to the person named below starting with the next issue.*

Name \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

UK Residents Only

PCW3



## A game of squares

A Campbell Black

**T**his program is a game for two players. It is based on the pencil and paper game where you join the dots and try to complete more boxes than your opponent. All the playing instructions are included with the program. If you are using a Spectrum with a rubber keyboard, the cursor keys are CAPS SHIFT with 5, 6, 7 or 8. Otherwise, the ordinary cursor keys do the work.

The program shows how windows can be used to make a simple game look far more appealing than it would when printing things straight on to the screen.



Spectrum Plus 2.

```
1000 REM *****
1010 REM A GAME OF SQUARES
1020 REM Author: C.Black
1040 REM 1987
1050 REM VERSION 2.2
1060 REM *****
1070 REM
1075 REM
1080 REM ** INITIALISE **
1100 GO SUB 9500
1160 DIM N$(2,12)
1165 DIM C$(4)
1180 LET FLAGS=0
1185 INK 9: POKE 23658,8
1190 LET W$="GAME WINNER": LET U$="MATCH WINNER"
1220 REM **DRAW SCREEN**
1240 BORDER 5: PAPER 5: INK 0: CLS
1260 PRINT AT 1,1: PAPER 6: INK 9: " A GAME OF SQUARES ACB 1987 ": PAPER 5: AT 1
,0: CHR$ 132: AT 2,0: GO SUB 9300
1280 PLOT 7,159: DRAW 241,0: DRAW 0,9: DRAW -241,0: DRAW 0,-9
1300 PRINT AT 3,0: CHR$ 132: FOR n=4 TO 16: PRINT AT n,0: CHR$ 133: NEXT n
1320 PRINT AT 17,0: GO SUB 9350
1340 PLOT 7,39: DRAW 113,0: DRAW -113,0: DRAW 0,-113
1360 PRINT AT 3,16: CHR$ 132: FOR n=4 TO 16: PRINT AT n,16: CHR$ 133: NEXT n
1380 PRINT AT 17,16: GO SUB 9350
1400 PLOT 135,39: DRAW 113,0: DRAW 0,113: DRAW -113,0: DRAW 0,-113
1420 FOR n=3 TO 16: PRINT PAPER 3: AT n,17: " ": NEXT n
1440 PRINT PAPER 4: AT 4,18: n$(1): PAPER 6: AT 15,18: n$(2)
1460 PRINT PAPER 7: AT 9,18: "GAME ": AT 9,25: "GAMES": AT 10,18: "SCORE": AT 10,25: "
WON "
1480 PRINT PAPER 7: AT 7,20: "00": AT 7,26: "00": AT 12,20: "00": AT 12,26: "00"
1500 PRINT AT 19,0: CHR$ 133: PAPER 6: "GAME ": PAPER 7: "00": PAPER 6: " OF ": PAPE
R 7: "00"
1520 PRINT AT 20,0: GO SUB 9400
1540 PLOT 7,15: DRAW 105,0: DRAW 0,9: DRAW -105,0: DRAW 0,-9
1560 PRINT AT 18,14: CHR$ 132: PAPER 3: " "
1580 PRINT AT 19,14: CHR$ 133: PAPER 3: " "
1600 PRINT AT 20,14: CHR$ 133: PAPER 3: " "
1620 PRINT AT 21,14: GO SUB 9450
1640 PLOT 7,15: DRAW 105,0: DRAW 0,9: DRAW -105,0: DRAW 0,-9
1660 PLOT 119,7: DRAW 129,0: DRAW 0,25: DRAW -129,0: DRAW 0,-25
```



```

1680 PLOT 143,47: DRAW 97,0: DRAW 0,9: DRAW -97,0: DRAW 0,-9
1700 PLOT 143,135: DRAW 97,0: DRAW 0,9: DRAW -97,0: DRAW 0,-9
1720 PLOT 143,87: DRAW 41,0: DRAW 0,17: DRAW -41,0: DRAW 0,-17
1740 PLOT 199,87: DRAW 41,0: DRAW 0,17: DRAW -41,0: DRAW 0,-17
1760 PLOT 207,111: DRAW 17,0: DRAW 0,9: DRAW -17,0: DRAW 0,-9
1780 PLOT 159,111: DRAW 17,0: DRAW 0,9: DRAW -17,0: DRAW 0,-9
1800 PLOT 207,71: DRAW 17,0: DRAW 0,9: DRAW -17,0: DRAW 0,-9
1820 PLOT 159,71: DRAW 17,0: DRAW 0,9: DRAW -17,0: DRAW 0,-9
1840 GO SUB 3040
1850 PRINT PAPER 8: INK 9: AT 18,15; " "; INVERSE 1; "I"; INVERSE 0; "NSTRUCTIONS"
1852 PRINT PAPER 8: INK 9: AT 19,15; " "; INVERSE 1; "S"; INVERSE 0; "TART"; AT 20,1
5; " PRESS A KEY"
1855 BEEP .05,15
1860 PAUSE 0: LET I$=INKEY$
1865 IF I$="I" THEN GO SUB 9000:: GO SUB 3242: GO SUB 9200: GO TO 1840
1870 IF I$="S" THEN GO TO 1900
1880 GO TO 1860
1895 REM **NEW PLAYERS NAMES **
1900 BEEP .05,10
1905 PAPER 8: GO SUB 3242
1910 LET NN=1: FOR Y=4 TO 15 STEP 11: LET X=19
1911 LET P$=" "
1912 PRINT AT 18,15; INK 9; "INSERT NAME OF"; AT 19,15; "PLAYER "; NN; " THEN"; AT 20,
15; "PRESS "; INVERSE 1; "ENTER"
1915 PRINT AT Y,X; FLASH 1; " ";
1920 PAUSE 0: LET I$=INKEY$: BEEP .005,20
1925 IF I$>="A" AND I$<="Z" AND X<=28 THEN LET P$(X-18)=I$: PRINT AT Y,X; I$: LE
T X=X+1: GO TO 1915
1928 IF I$=CHR$ 12 THEN PRINT AT Y,X; " ": LET X=X-(1 AND X>19): LET P$(X-18)="
": GO TO 1915
1930 IF I$=CHR$ 13 THEN PRINT AT Y,X; " ": LET N$(NN,2 TO 11)=P$: LET NN=NN+1: N
EXT Y: GO TO 2000
1940 GO TO 1920
1960 REM
1980 REM
1990 REM **GAMES IN MATCH**
2000 LET P$=" ": LET Y=19: LET X=12
2010 GO SUB 3242: PRINT INK 9: AT 18,15; "INSERT MAXIMUN"; AT 19,15; "NUMBER OF GAM
ES"; AT 20,15; "IN MATCH"
2020 PRINT AT Y,X; FLASH 1; " "; FLASH 0; " "
2030 PAUSE 0: LET I$=INKEY$: BEEP .005,20: IF I$<"0" OR I$>"9" THEN GO TO 2030
2035 LET P$(1)=I$: PRINT AT Y,X; P$(1); FLASH 1; " "
2040 PAUSE 0: LET I$=INKEY$: BEEP .005,20: IF I$=CHR$ 13 THEN LET P$="0"+P$(1):
GO TO 2060
2050 IF I$<"0" OR I$>"9" THEN GO TO 2040
2055 LET P$(2)=I$
2060 LET MATCH=VAL P$: PRINT AT Y,X; P$: IF MATCH=0 THEN GO TO 2000
2065 GO SUB 3242: PRINT INK 9: AT 18,15; "PRESS "; INVERSE 1; "ENTER"; INVERSE 0; "
TO"; AT 19,15; "CONFIRM OR ANY"; AT 20,15; "KEY TO CORRECT"
2070 PAUSE 0: IF INKEY$<>CHR$ 13 THEN GO TO 2000
2080 LET GAME=1: LET G1=0: LET G2=0
2085 REM **NEW GAME **
2086 PRINT AT 19,6; "0" AND GAME<10; GAME
2100 GO SUB 3242: PRINT AT 18,15; INK 9; PAPER 8; " CURSOR KEYS"; AT 19,15; " MO
VE ARROWS."; AT 20,15; INVERSE 1; "ENTER"; INVERSE 0; " DRAWS LINE": BEEP .05,15
2200 DIM h$(7,7): DIM v$(7,7): DIM b$(6,6)
2220 IF FLAGS THEN GO SUB 9200: GO SUB 3040
2240: LET sc1=0: LET sc2=0: LET c$=CHR$ 144+CHR$ 145+CHR$ 146+CHR$ 147: LET x=1:
LET y=1: LET CURPL=0: LET FLAG=0

```



# PROGRAMMING: SPECTRUM

```

2260 IF NOT FLAG THEN LET CURPL=NOT CURPL
2280 IF FLAG THEN LET FLAG=NOT FLAG
2320 PRINT PAPER 7;AT 7,20;"0" AND sc1<10;SC1;AT 12,20;"0" AND sc2<10;SC2
2340 IF SC1>=19 OR SC2>=19 THEN GO TO 3260: REM END OF GAME SEQUENCE
2345 IF SC1+SC2=36 THEN GO TO 3400
2350 PRINT AT 4,18; PAPER 4; FLASH CURPL;N$(1);AT 15,18; FLASH 0; FLASH NOT CUR
PL; PAPER 6;N$(2)
2360 PRINT AT 16-2*y,2*x; OVER 1; PAPER CODE B$(X,Y)-25;c$( TO 2);AT 17-2*y,2*x;
c$(3 TO )
2380 PAUSE 0: LET i=CODE INKEY$
2400 IF i=8 AND c$=CHR$ 144+CHR$ 145+CHR$ 146+CHR$ 147 THEN GO SUB 3180: LET x=
x-(1 AND x>1): GO TO 2360
2420 IF i=9 AND c$=CHR$ 148+CHR$ 149+CHR$ 150+CHR$ 151 THEN GO SUB 3180: LET x=
x+(1 AND x<6): GO TO 2360
2440 IF i=10 AND c$=CHR$ 152+CHR$ 153+CHR$ 154+CHR$ 155 THEN GO SUB 3180: LET y
=y-(1 AND y>1): GO TO 2360
2460 IF i=11 AND c$=CHR$ 156+CHR$ 157+CHR$ 158+CHR$ 159 THEN GO SUB 3180: LET y
=y+(1 AND y<6): GO TO 2360
2480 IF i>=8 AND i<=11 THEN GO SUB 3180: FOR Z=1 TO 4: LET C$(Z)=CHR$ (143+Z+(I
-8)*4): NEXT Z: GO TO 2360
2500 IF i<>13 THEN GO TO 2380
2520 LET i=((CODE c$(1)-144)/4)+8
2580 IF i=8 AND v$(x,y)=" " THEN LET v$(x,y)="*": GO TO 2650
2600 IF i=9 AND v$(x+1,y)=" " THEN LET v$(x+1,y)="*": GO TO 2650
2620 IF i=10 AND h$(x,y)=" " THEN LET h$(x,y)="*": GO TO 2650
2640 IF i=11 AND h$(x,y+1)=" " THEN LET h$(x,y+1)="*": GO TO 2650
2645 GO TO 2380
2650 GO SUB 3180
2655 PLOT (x+(i=9))*16,(y+(i=11))*16+32: DRAW 16*(i=10 OR i=11),16*(i=8 OR i=9)
2657 BEEP .05,2
2660 IF i<>8 THEN GO TO 2760
2680 IF v$(x+1,y)="*" AND h$(x,y)="*" AND h$(x,y+1)="*" THEN LET XX=X: LET YY=Y
: GO SUB 3200
2700 IF X=1 THEN GO TO 2260
2720 IF v$(x-1,y)="*" AND h$(x-1,y)="*" AND h$(x-1,y+1)="*" THEN LET XX=X-1: LE
T YY=Y: GO SUB 3200
2740 GO TO 2260
2760 IF i<>9 THEN GO TO 2860
2780 IF v$(x,y)="*" AND h$(x,y)="*" AND h$(x,y+1)="*" THEN LET XX=X: LET YY=Y:
GO SUB 3200
2800 IF X=6 THEN GO TO 2260
2820 IF v$(x+2,y)="*" AND h$(x+1,y)="*" AND h$(x+1,y+1)="*" THEN LET XX=X+1: LE
T YY=Y: GO SUB 3200
2840 GO TO 2260
2860 IF i<>10 THEN GO TO 2960
2880 IF h$(x,y+1)="*" AND v$(x,y)="*" AND v$(x+1,y)="*" THEN LET XX=X: LET YY=Y
: GO SUB 3200
2900 IF Y=1 THEN GO TO 2260
2920 IF h$(x,y-1)="*" AND v$(x+1,y-1)="*" AND v$(x,y-1)="*" THEN LET XX=X: LET
YY=Y-1: GO SUB 3200
2940 GO TO 2260
2960 IF h$(x,y)="*" AND v$(x,y)="*" AND v$(x+1,y)="*" THEN LET XX=X: LET YY=Y:
GO SUB 3200
2980 IF Y=6 THEN GO TO 2260
3000 IF h$(x,y+2)="*" AND v$(x+1,y+1)="*" AND v$(x,y+1)="*" THEN LET XX=X: LET
YY=Y+1: GO SUB 3200
3020 GO TO 2260
3040 REM *** DRAW DOTS ***
3060 FOR n=3 TO 16: PRINT PAPER 7;AT n,1;" " : NEXT n
3080 LET yc=48

```



```

3100 FOR u=1 TO 7: LET xc=16
3120 FOR a=1 TO 7: PLOT xc,yc
3140 LET xc=xc+16: NEXT a: LET yc=yc+16: NEXT u
3160 RETURN
3170 REM **PRINT ARROW**
3180 PRINT OVER 1: PAPER 8;AT 16-2*y,2*x;c$( TO 2);AT 17-2*y,2*x;c$(3 TO ): RET
URN
3190 REM **COMPLETED SQUARE**
3200 IF B$(XX,YY)<>" " THEN RETURN
3220 IF CURPL THEN LET B$(XX,YY)=CHR$ 29: LET FLAG=1: LET SC1=SC1+1: PRINT OVE
R 1: PAPER 4;AT 16-2*YY,2*XX;" ";AT 17-2*YY,2*XX;" ": BEEP .05,5: RETURN
3240 LET B$(XX,YY)=CHR$ 31: LET FLAG=1: LET SC2=SC2+1: PRINT OVER 1: PAPER 6;AT
16-2*YY,2*XX;" ";AT 17-2*YY,2*XX;" ": BEEP .05,5: RETURN
3241 REM ** CLEAR COMMAND BOX **
3242 FOR N=18 TO 20: PRINT PAPER 3;AT N,15;" " : NEXT N: RETURN
3250 REM ** END OF GAME **
3251 REM **GAME WON**
3255 GO SUB 3242
3260 GO SUB 3242
3262 IF SC1>=19 THEN LET G1=G1+1:
3265 IF SC2>=19 THEN LET G2=G2+1:
3267 PRINT AT 7,26;"0" AND G1<10;G1;AT 12,26;"0" AND G2<10;G2
3270 IF G1>INT (MATCH/2) OR G2>INT (MATCH/2) THEN GO TO 3500
3275 IF G1+G2=MATCH THEN GO TO 3600
3280 PRINT AT 5,18; PAPER 4; FLASH 1;W$ AND SC1>=19
3282 PRINT AT 14,18; PAPER 6; FLASH 1;W$ AND SC2>=19
3290 FOR N=1 TO 3: BEEP .1,N-1: BEEP .1,N: NEXT N: BEEP .2,N: NEXT N
3300 PRINT INK 9; PAPER 8;AT 18,15;" PRESS ANY KEY";AT 19,15;" FOR NEXT GAME";:
PAUSE 0
3305 GO SUB 3242: LET FLAGS=1: PRINT PAPER 3;AT 5,18;" " ;AT 14,18;" "
3306 PLOT 143,56: DRAW 97,0: PLOT 143,135: DRAW 97,0
3310 LET GAME=GAME+1: GO TO 2085
3330 FOR N=1 TO 3: BEEP .1,N-1: BEEP .1,N: NEXT N: BEEP .2,N: NEXT N
3340 FOR n=1 TO 6: BEEP .1,n: BEEP .1,n+1: BEEP .1,n+2: NEXT n: BEEP .2,n: BEEP
.2,N: BEEP .3,N+1
3370 STOP
3400 REM **GAME DRAWN**
3410 GO SUB 3242: PRINT INK 9;AT 18,17; INK 9; PAPER 8;" "; FLASH 1;"GAME DRAW
N"; FLASH 0;" " : BEEP .1,11: BEEP .1,2: BEEP .1,3: PRINT INK 9; PAPER 8;AT 19,
15;" PRESS ANY KEY";AT 20,15;" TO REPLAY": PAUSE 0: LET FLAGS=1: GO TO 2085
3500 REM **MATCH WON**
3505 GO SUB 3242
3520 PRINT AT 5,18; PAPER 4; FLASH 1;U$ AND G1>INT (MATCH/2)
3525 PRINT AT 14,18; PAPER 6; FLASH 1;U$ AND G2>INT (MATCH/2)
3530 FOR n=1 TO 6: BEEP .1,n: BEEP .1,n+1: BEEP .1,n+2: NEXT n: BEEP .2,n: BEEP
.2,N: BEEP .3,N+1
3535 PRINT AT 18,15; PAPER 8; INK 9;" " ; INVERSE 1;"N"; INVERSE 0;"EW MATCH";AT
19,15;" " ; INVERSE 1;"Q"; INVERSE 0;"UIT";AT 20,15;" PRESS A KEY"
3540 PAUSE 0: LET I$=INKEY$
3542 IF I$="Q" THEN STOP
3544 IF I$="N" THEN GO TO 3550
3545 GO TO 3540
3550 GO SUB 3242: PRINT PAPER 3;AT 5,18;" " ;AT 14,18;" "
3552 PLOT 143,56: DRAW 97,0: PLOT 143,135: DRAW 97,0
3555 GO SUB 3242: PRINT PAPER 8; INK 9;AT 18,15;" " ; INVERSE 1;"S"; INVERSE 0;"
AME PLAYERS";AT 19,15;" " ; INVERSE 1;"N"; INVERSE 0;"EW PLAYERS";AT 20,15;" PRES
S A KEY"
3556 PAUSE 0: LET I$=INKEY$
3558 IF I$="N" THEN GO TO 3570
3559 IF I$="S" THEN GO TO 3580

```



```

3560 GO TO 3556
3570 GO SUB 9200: GO SUB 3040: PRINT PAPER 8;AT 4,18;"          ";AT 15,18;"
      ": GO SUB 3590: GO TO 1895
3580 GO SUB 9200: GO SUB 3040: PRINT PAPER 8;AT 14,18;N$(1);AT 15,18;N$(2): GO
SUB 3590: GO TO 1990
3590 PRINT PAPER 8;AT 7,20;"00";AT 7,26;"00";AT 12,20;"00";AT 12,26;"00";AT 19,
6;"00";AT 19,12;"00": LET FLAGS=0: RETURN
3600 REM **MATCH DRAWN**
3610 GO SUB 3242: PRINT AT 18,15; INK 9;" MATCH DRAWN "
3620 FOR n=1 TO 6: BEEP .1,n: BEEP .1,n+1: BEEP .1,n+2: NEXT n: BEEP .2,n: BEEP
.2,N: BEEP .3,N+1
3630 PRINT INK 9;AT 19,15;" PRESS ANY KEY": PAUSE 0: GO SUB 3242: GO TO 3535
9000 REM **INSTRUCTIONS**
9020 RESTORE 9100
9030 FOR M=1 TO 2
9035 GO SUB 3242
9036 GO SUB 9200
9040 FOR P=3 TO 16: READ A$: PRINT AT P,1:: FOR Q=1 TO LEN A$: BEEP .005,10: PRI
NT A$(Q):: NEXT Q: NEXT P
9050 PRINT AT 19,15; PAPER 8; INK 9;" PRESS ANY KEY": BEEP .05,15: PAUSE 0
9060 NEXT M: RETURN
9100 DATA "", "A Game for two", "players.", "", "Join the dots", "with a line", "and c
omplete a", "square to win", "a point.", "", "One line per", "turn. An extra", "turn w
hen you", "win a point."
9110 DATA "First player", "to score more", "than 18 points", "wins the", "current ga
me.", "", "Your aim is to", "win more than", "half of the", "maximum no.", "of games i
n ", "the match.", "", "GOOD LUCK!"
9190 REM **CLEAR GAME BOX**
9200 PAPER 7: FOR K=3 TO 16: PRINT AT K,1;"          ": NEXT K: RETURN
9300 PRINT CHR$ 129:: FOR N=1 TO 29: PRINT CHR$ 131:: NEXT N
9310 PRINT CHR$ 130: RETURN
9350 PRINT CHR$ 129:: FOR N=1 TO 13: PRINT CHR$ 131:: NEXT N
9351 PRINT CHR$ 130:: RETURN
9400 PRINT CHR$ 129:: FOR N=1 TO 12: PRINT CHR$ 131:: NEXT N
9410 PRINT CHR$ 130:: RETURN
9450 PRINT CHR$ 129:: FOR N=1 TO 15: PRINT CHR$ 131:: NEXT N
9460 PRINT CHR$ 130:: RETURN
9500 REM **UDGs**
9510 RESTORE 9600
9520 FOR n=USR "a" TO USR "a"+127
9530 READ d: POKE n,d: NEXT n: RETURN
9600 DATA 0,0,0,4,12,28,63,127,0,0,0,0,0,0,248,248,127,63,28,12,4,0,0,0,248,248,
0,0,0,0,0,0,0,0,0,0,0,0,31,31,0,0,0,32,48,56,252,254,31,31,0,0,0,0,0,254,252,5
6,48,32,0,0,0,0,0,0
9610 DATA 3,3,3,3,3,0,0,0,192,192,192,192,192,3,3,31,15,7,3,1,0,192,192,248,240,
224,192,128,0,0,1,3,7,15,31,3,3,0,128,192,224,240,248,192,192,3,3,3,3,3,0,0,0,19
2,192,192,192,192,0,0,0

```

## Pay attention!

**F**rom now on we are requesting that you include a suitable stamped addressed envelope for return of your submission. Not enclosing a suitable SAE will mean that your program will not be returned. You have been warned.

With regards to future submissions we are looking for articles on programming in general, utility programs and applications

software and lastly, good games. Here are a few types of program we don't want: Educational, hangman, pools predictors, mastermind, flashing borders, bank accounts, disc catalogues and clocks.

Please do not telephone regarding any queries or problems with the listings. If you cannot get a program listing in the magazine to work, write to me, care of *Popular*

*Computing*, and I will deal with it as soon as possible.

If there were problems then we will let you know. Corrections normally appear a couple of weeks later.

Thanks. ☐

**Kenn Garroch**  
Listings Editor



# MICRO-FILE

FOR SALE

## STORT SOFT MAIL ORDER SPECIALISTS

### CHRISTMAS SPECIALS - LIMITED NUMBERS

1040 STF + Atari SC1224 12" medium resolution colour monitor, mouse etc. including Datapost next delivery...	£738.95
SMM804 PRINTER (dot-matrix)	£149.95
Centronics Data Switch Box (2-way)	£24.95
RS232 Data Switch Box (2-way)	£24.95
Centronics Crossover sw/box	£149.95

### INCREDIBLE LOW PRICES!

ALL DISCS CARRY A NO QUIBBLE REPLACEMENT GUARANTEE ARE CERTIFIED 100% ERROR FREE AND COME WITH LABELS, 5 1/4" ALSO HAVE SLEEVES AND WRITE PROTECTS. FLIP SIDED DISCS HAVE TWO INDEX HOLES AND TWO NOTCHES.

SPECIAL OFFER !!	
25 SS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£16.00
50 SS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£25.00
100 SS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£39.95
25 DS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£17.00
50 DS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£26.50
100 DS 48TPI 5.25" DISCS & 120 CAP LOCKING DISC BOX	£42.00

### 5 1/4" DISCS FROM AS LITTLE AS 33 PENCE

#### BLANK 5 1/4" DISCS

DISC NOTCHER FREE WITH EACH 100 DISCS PURCHASED

UNBRANDED	TRIAL 10	25	50	100	10 in a plastic lib. case
SS48 TPI	£4.50	£9.00	£17.00	£33.00	£5.50
DS48 TPI	£5.50	£11.00	£19.00	£35.00	£6.50
DS96 TPI	£6.50	£13.00	£21.00	£37.00	£7.50
DS96 TPI FLIP SIDED	£7.00	£14.00	£22.00	£38.00	£8.00
MIMIC FLIP SIDED DS96 TPI	£8.95	£20.00	£38.00	£70.00	£9.95
MIMIC HIGH DENSITY 1.6meg COLOURED - mix and match or all one colour	£23.00	£52.00	£100.00	£180.00	£24.00
SS48 TPI	£6.50	£12.00	£22.00	£42.00	£7.50
DS48 TPI	£7.50	£14.00	£24.00	£44.00	£8.50
DS96 TPI	£8.00	£16.00	£28.00	£50.00	£9.00

#### LOCKING DISC BOXES

5 1/4" HOLDS 50	£7.95	5 1/4" HOLDS 100	£9.95
3 1/2" HOLDS 40	£7.95	60/90 (HOLDS 60 3" or 90 3 1/2")	£9.95

#### ANCILLARIES

ST/IBM/AMIGA/PC 1512 TO CENTRONICS PRINTER LEAD	£7.95
ST TO RS232 MODEM LEAD	£7.95
SWITCH BOX - 2 POSITION (ie 1 printer to 2 computers and vice versa) Centronics or RS232 - please specify	£29.95
QUICKSHOT II MICROSWITCH JOYSTICK	£8.95

Just write for more information. Cheques etc. payable to STORT SOFT (International orders add 10% and remit in pounds Sterling by bank draft or international money order. Write for quote in any other currency)

ACCESS/MASTERCARD/EUROCARD/VISA accepted. CREDIT CARD ORDER LINE - 0279 89509  
24 HOURS A DAY, 7 DAYS A WEEK - VAT & P.P. INC. NO HIDDEN EXTRAS - WHAT YOU SEE IS WHAT YOU PAY

18 CROWN CLOSE, SHEERING, BISHOP'S STORTFORD, HERTS CM22 7NX (548)

### ST SOFTWARE

First Word Plus	£59.95
Desktop Publisher (Timeworks)	£79.95
OST Assembler	£19.95
OST C Compiler	£19.95
Data Manager	£49.95
Swift Calc	£59.95
Word Writer	£59.95

### 3.5" SPECIAL OFFERS

	10	25	50	100	500	10
25 SS/DD 135 TPI(MF1DD) & 80 or 60/90 locking disc box						£32.00
50 SS/DD 135 TPI(MF1DD) & 80 or 60/90 locking disc box						£55.00
25 DS/DD 135 TPI(MF2DD) & 80 or 60/90 locking disc box						£35.00
50 DS/DD 135 TPI(MF2DD) & 80 or 60/90 locking disc box						£61.00
135tpi unbranded	10	25	50	100	500	10
SS/DD (MF1DD)	£10.00	£24.00	£47.00	£92.00	£399	in a case £12.95
DS/DD (MF2DD)	£11.50	£27.00	£53.00	£99.00	£429	£14.95

### CUMANA DRIVES

ATARI ST 1 MEGABYTE	£139.00
AMIGA 1 MEGABYTE	£129.00
NO ADDITIONAL LEADS OR POWER SUPPLY REQUIRED	

### ATARI HARDWARE - BARGAIN PRICES

	520 STFM £279.95
520 STFM, SF354 (1 meg drive)	£279.95
520 STFM, SF314 (1 meg drive)	£239.95
520 STFM, SF354 & SM125 mono monitor	£374.95
520 STFM, SF314 & SM 125	£374.95
1040 STF & SM125 mono monitor	£434.95
Mega ST (2 megabyte RAM & 1 meg drive)	£570.00
Mega ST (2 megabyte RAM & 1 meg drive) & SM125	£645.00
Mega ST (4 megabyte RAM & 1 meg drive)	£935.50
Mega ST (4 megabyte RAM & 1 meg drive) & SM125	£1095.00
	£1190.00

All Hardware comes with free dust covers!! All STs come with 5 public domain discs including CPM emulator and the arcade game Megarods, 5 blank discs to get you going or choose 5 additional discs from our public domain library. Basic language disc and manuals.  
520 STFM ONLY comes with 1st Word word processor and spelling checker.

### COMPUTER ACCESSORIES

5 1/4" DISC NOTCHER (Double your disc capacity on a single sided drive)	£3.95
DISC CLEANING KITS Liquid non-abrasive type - protect your valuable software	£3.95
5 1/4" DCK	£3.95
3 1/2" DCK	£4.95
SPECIAL PRICE	
MOSFET, SMM804 Printer, SC1224 Colour Monitor, 1st Word & Spell It plus	
as above	
MEGA ST (2 meg), SMM804, SC1224, 1st Word & Spell It	** £899.00 **
MEGA ST (4 meg), SM125 Mono Monitor, SLM804 Laser Printer &	** £1250.00 **
SH205 Hard Disc Drive	** £2699.00 **

### DUPLICATION ALL FORMATS

Formats covered include:  
Atari, Amiga, IBM, BBC, CP/M, DFS, QFS PS/2

For best prices ring us NOW!

#### BLANK DISKS

10 3.5" DS/DD 135tpi	£13.99
10 3.5" SS/DD 135tpi	£12.99
100 5.25" DS/DD 48tpi	£29.00

#### ATARI 520 STFM

Only £289 with 5 blank discs  
and 5 P.D. discs

### CENTRAL MEDIA

101 SPRINGBANK, HULL HU3 1BH  
TELEPHONE (0482) 26581

Magnetic Media & Specialist Computer Systems

### SPECIAL NEW YEAR OFFERS ON ALL COMPUTER REPAIRS

AMSTRAD CPC 128	£17.60	AMSTRAD PCW 8512	£18.00
BBC B	£17.60	ACORN COMPACT	£18.00
COMMODORE 64	£16.00	COMMODORE 128	£18.00
ATARI 130 XE	£17.60	ATARI 520 ST	£18.00

PRICES NOT INC. PARTS OR VAT

1 week turnover. Free collection for businesses.

### WYNTER ELECTRONICS

Unit 30F, Atlas Village, Oxgate Lane, Staples Corner, London NW2 7HU.  
Telephone office hours 9-5 01-452 5660

COME ALONG AND DROP IT IN  
OR PHONE US PLEASE BEFORE SENDING.

(55 1)

## ADVERTISING RATES FOR MICRO-FILE

Semi Display  
Lineage

£8 per single column centimetre (+VAT)  
35p per word (+VAT)

CALL SUSANNAH KING, ROBERT COLE or TIM OWEN on  
01-834 1717 FOR SEMI DISPLAY ADVERTISING



**ROCK BOTTOM DISCS**

(Lifetime Guarantee)

★ FREE CASE ★ FREE CASE ★ FREE CASE ★

	10	30	50	100
Unbranded 3.5" DS/DD	£11.50	£30.00	£48.00	£91.00
Unbranded 3.5" SS/DD	£10.95	£29.00	£47.00	£89.00
Branded Wabash 3.5" DS/DD	£15.00	£41.00	£65.00	£120.00
Branded Wabash 3.5" SS/DD	£14.00	£38.50	£63.00	£116.00
Unbranded 5.25" DS/DD	£5.70	£13.90	£22.00	£41.00
Branded Wabash 5.25" DS/DD	£7.00	£19.00	£29.00	£56.50

## ★ Offers ★

**BRANDED 3.5" SONY DS/DD**  
**Pack of 10 ONLY £19.95**

**FREE LIB. CASE (10) with 10 3.5" UNBRANDED or**  
**WABASH DISCS worth £1.30**

LIB. CASE (10) 3.5" £1.30

LIB. CASE (10) 5.25" £1.30

Remember all prices include VAT & POSTAGE. For  
 EXPRESS 1st class despatch please add £1 per 10  
 discs.

CREDIT CARD HOTLINE 0329 282083 (24 hour)

Cheques/PO to:

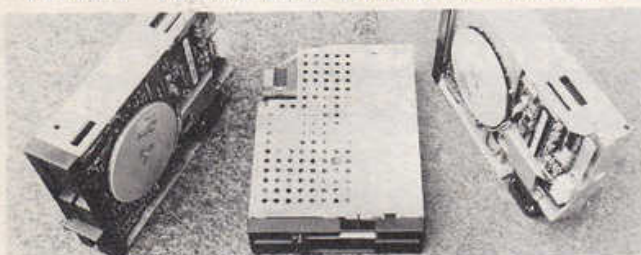
**Athene Consultants**

33 Holly Grove, Fareham  
 Hants PO16 7UP



(647)

## 80 TRACK / DS DD 5.25" HALF HEIGHT DISC DRIVES



Uncased bare drive ..... £60  
 Drives in cream metal cases ..... £70  
 Cased drive with connecting leads to suit BBC micro .... £74.95

**Special Offers on IBM compatible add-ons**

Few only:

Racal CP2123 plug in modem card V21/V23 ..... £99  
 20 meg hard cards ..... £199.00  
 32 meg hard cards ..... £330.00  
 40 track DS/DD bare drives, black fronted (half-height) Suitable  
 for up-grading PC ..... £60.00  
 AT and T CDC Wren 1 36mb hard disc drives (45µS)  
 (uncased) ..... £335  
 Irwin Model 12S 20 meg tape streamer ..... £300

Money back if not satisfied and returned undamaged within 7 days.  
 Callers welcome Mon-Fri 9-5.

Callers only. A selection of green screen monitors £34.95 to £59.95

**Pinboard Computers Ltd,**

Unit 9, Bondor Business Centre, London Rd, Baldock, Herts SG7 6NG

Tel: (0462) 894410



Prices include VAT, packing and parcel post.

(477)

VISA

## IBM PC and AMSTRAD PC1512/1640 SHAREWARE/PUBLIC DOMAIN SOFTWARE

**WATCH OUT!** There are **SHAREWARE SHARKS** about, and  
 they're after your money!!!

Why pay them £5 to £10 per disc when you can have a larger  
 choice plus the latest releases from us, at only £3 per disc (less  
 for quantity, Starter pack at only £2/disc!). Send SAE for a free  
 catalogue.

**NEW!!! Modula-2 compiler, 3D Chess, Bridgepal, Com-  
 poser, UK General Ledger, plus many more.**

**PC-STAR**

P.O. Box 164, Cardiff CF5 3YB

(573)

**GOLDSTAR BRANDED DISKETTES**

Boxed in 10s with labels, 100% certified, error free, lifetime guaranteed.

**WHY TAKE RISKS, BUY BRANDED DISCS**

3.5" MF-2DD DS/DD 80 TRACK 135 TPI ..... £10.20 per box  
 5.25" M-2DD DS/DD 80 TRACK 96 TPI ..... £7.50 per box

**ALL PRICES ARE FULLY INCLUSIVE OF VAT AND  
 CARRIAGE**  
**COUNTER OPEN MON TO SAT 9am - 5pm**

**P. V. Tubes (Computer Centre)**

104 Abbey St., Accrington,  
 Lancashire BB5 1EE  
 Tel: (0254) 390936



(650)

**SECTOR SOFTWARE**

Z88 and QL Specialists

For Z88 computers, software, expansion Ram, printer  
 leads, Eproms, erasers etc.

Send for price list and details

QL to Z88 file transfer software and cable ..... £23.00  
 QL keyboard membrane ..... £6.00  
 Spectrum keyboard membrane ..... £6.00

Other QL and Spectrums on request

**New this week - Flashback**

QL database with speed increasing in excess of 100 times  
 over archive. Cheap, once used micro drive cartridges which  
 have had a commercial program recorded on them, tabs  
 removed then never sold ..... £1.25

QL printer leads ..... £7.00  
 Spectrum printer leads ..... £7.00  
 New microdrive cartridges ..... each £1.90  
 or 20 in a storage box ..... £39.50

Access and Visa accepted

**Sector Software**

39 Wray Crescent, Alnes Walton,  
 Leyland, Lancashire PR5 3NA Tel: 0772 454328

(649)



## FOR SALE

### SPECIAL OFFERS

25 x 5-25" DS-DD DISCS  
PLUS  
100 CAPACITY LOCKABLE DISC BOX  
FOR

**ONLY £16.50**

OR  
50 x 5-25" DS-DD DISCS  
PLUS  
100 CAPACITY LOCKABLE DISC BOX  
FOR

**ONLY £26.00**

20 x 3-5" DS-DD DISCS  
PLUS  
40 CAPACITY LOCKABLE BOX  
FOR

**ONLY £28.00**

OR  
40 x 3-5" DS-DD DISCS  
PLUS  
40 CAPACITY LOCKABLE BOX  
FOR

**ONLY £48.00**



**REMEMBER THE PRICE YOU SEE IS ALL  
YOU PAY. (U.K. ONLY)  
THEY INCLUDE VAT AND CARRIAGE**

Cheque or Postal Order to:



**Manor Court Supplies Ltd**

Dept PCW1, Glen Celyn House, Penybont,  
Llandrindod Wells, Powys LD1 5SY.  
Telephone: 0597 87784 or 0597 87792

75 x 5-25" DS-DD DISCS  
PLUS  
100 CAPACITY LOCKABLE DISC BOX  
FOR

**ONLY £34.00**

OR  
100 x 5-25" DS-DD DISCS  
PLUS  
100 CAPACITY LOCKABLE DISC BOX  
FOR

**ONLY £41.00**

50 x 3-5" DS-DD DISCS  
PLUS  
90 CAPACITY LOCKABLE BOX  
FOR

**ONLY £60.00**

OR  
80 x 3-5" DS-DD DISCS  
PLUS  
90 CAPACITY LOCKABLE BOX  
FOR

**ONLY £89.00**

### HEAD CLEANERS

Special offer price if bought  
with discs + box offer

5 1/4" + Fluid ..... £2.50  
3 1/2" + Fluid ..... £3.50

Both for use with single or  
double drives

### DISKS 5 1/4"

QTY	SS/48	DS/48	DS/96
25	£9.00	£10.00	£11.00
50	£16.00	£18.00	£20.00
100	£30.00	£33.00	£36.00
200	£58.00	£61.00	£68.00

All includes envelope, labels and  
fitted hub rings  
100% guarantee

### DISKS 3 1/2"

QTY	SS/DD	DS/DD
10	£10.00	£13.00
20	£19.00	£25.00
30	£28.00	£37.00
50	£46.00	£52.00
100	£90.00	£100.00

Price includes labels  
100% guarantee

### UK MADE LIBRARY CASE

5 1/4" or 3 1/2"  
(10 capacity)

**ONLY 95p**  
(if bought with discs)

### PRINTER CABLE

ST/IBM/AMSTRAD 1512/CLONE  
25 way D to 36 way cent

**ONLY £7.75**

EDUCATION AND GOVERNMENT ORDERS WELCOME

TRADE ENQUIRIES ALSO WELCOME

(601)

## AMAZING

This is the verdict from all our customers who purchased a copy of "The Gamester". This is a truly unique utility that allows the user to gain infinite lives on most types of games, and includes the brilliant "Slomo" device, to slow down most programs to your desired speed. Win all those top prizes with "The Gamester".

"Well worth buying..." CRASH

"Very easy to use..." A.S.D. Mid-Glamorgan

"Absolutely brilliant, now I play all those impossible games and easily gain high scores." R.D. Manchester

Spectrum 48/+128/+2/+3

Compatible with Multiface 1/Multiface 128/Snapshot

R.R.P. £9.99 ..... **MAIL ORDER £5**

Cheques/P.O.s to:

**S.U., 155 Wash Lane, Yardley, Birmingham B25 8PX**

SAME DAY DESPATCH

(540)

## The Scrambler for BBC B, Master and Compact

PROTECT your files for as little as £19.95. (p.&p. incl.). The system to help you comply with the DATA PROTECTION ACT. ENCODES any file held on disc (ADFS/DFS). Menu driven. Unique PASSWORD. Supplied on ROM. Ideal for schools, colleges.

### Number 3 Software,

3 Dairy Farm Court, Attleborough, Norfolk.

(618)

JANUARY DEALS ALREADY!

## STORT SOFT MAIL ORDER SPECIALISTS

### NEW YEAR SPECIALS - LIMITED NUMBERS

1040 STF + Atari SC1224 12" medium resolution colour monitor, mouse etc, including Datapost next delivery.. **£739.95**  
SMM804 PRINTER (dot-matrix) ..... **£149.95**  
Centronics Data Switch Box (2-way) ..... **£24.95**  
RS232 Data Switch Box (2-way) ..... **£24.95**  
Centronics Crossover sw/box ..... **£149.95**

IT COULD ONLY BE FROM STORT SOFT! WHO ELSE?  
**SEE HALF-PAGE NOW FOR MUCH, MUCH MORE!**

(659)

18 CROWN CLOSE, SHEERING, BISHOP'S STORTFORD, HERTS CM22 7NX

## COMPUTER REPAIRS Fixed Super Low Prices!

Inclusive of parts, labour and VAT



**FIRST AID  
FOR  
TECHNOLOGY**

1 week turnaround

Free collections/delivery available for local area

### ★ AUTUMN OFFERS ★

SPECTRUMS	£14 inc. + Free Game
C64	£22 inc. + Free Game
C16	£18 inc.
VIC20, C+4	£22 inc.
BBC	£32 inc.
ELECTRON	£19 inc.
AMSTRAD 464	£32 inc. + Free Game
SPECTRUM 128	£16 inc.
C64 P.S.U. FOR SALE	£20 inc.

Please enclose payment with item - 3 month warranty on repair  
Please enclose advert with repair

**W.T.S. ELECTRONICS**

5-9 Portland Road, Luton, Beds LU4 8AT. Tel: 0582 458375. Telex: 265871

(182)



# AMIGA EXPERIENCE

## HARDWARE & SOFTWARE

### NEW AMIGA 500

AMIGA A500/8833 MONITOR OFFER  
AMIGA A600 with PHILIPS 8833  
HIGH RES COLOUR MONITOR  
with STEREO SOUND OUTPUT  
Mouse, Workbench, Basic and DPaint  
Software plus free scart cable ..... £665

#### CUMANA 1 MEG

AMIGA DRIVES  
in stock  
for £129  
NOW!

#### AMIGA A500 SPORTS BUNDLE

Contents: AMIGA A500 COMPUTER •  
COMMODORE SPORTS HODDALL • AND  
INDIVIDUALLY PACKED SPORTS GAMES FROM  
ACTIVISION • GFL AMERICAN FOOTBALL •  
BASEBALL • CHAMPIONSHIP GOLF  
£469.95 + free modulator

PHILIPS 8833 Monitors  
Stereo Sound, Free Scart Cable  
THE WORKS

ONLY  
£265



#### COMMODORE C64 SPORTS PACK £169.95

Price includes: Commodore C64, Commodore C2N cassette unit, joystick,  
Commodore sports hoddall bag, Barry McGuigan's Boxing, Great American Road  
Race, Decathlon, On Field Football, Star League Baseball.

COMMODORE 64 POWER PACKS  
ONLY £11.50

#### DISCS

DISCS! DISCS! DISCS! DISCS! DISCS! DISCS! DISCS!  
ALL DISCS COME COMPLETE WITH LABELS

10 3 1/2" DS/DD Discs, £10.25 3 1/2" DS/DD Discs, £24.50 3 1/2" DS/DD Discs, £47.100 3 1/2" DS/DD  
Discs + 1 Lockable Disc Box, £93.200 3 1/2" DS/DD Discs + 2 Lockable Disc Boxes, £186.500 3 1/2"  
DS/DD Discs + 5 Lockable Disc Boxes, £447. Lockable Disc Box - Holds 80 3 1/2" Discs, £9.95.  
100 Disc Labels, £2.

Name .....  
Address .....  
Postcode .....  
Please rush boxes I have ticked above.  
I have enclosed cheque/postal order made payable to "MEMORY STORE" Thank you.  
\* Overseas orders - enquires for postage \*  
MEMORY STORE IS PART OF FULSAN DISTRIBUTION LIMITED 1987

## OUT NOW! OUT NOW!

OUT NOW SOFTWARE OUT NOW SOFTWARE OUT NOW

#### Amiga Titles

Title	Price	Tick	Title	Price	Tick
Borrowed Time	£18.75	<input type="checkbox"/>	Shanghai	£18.75	<input type="checkbox"/>
Championship Golf	£26.25	<input type="checkbox"/>	Championship Football	£18.75	<input type="checkbox"/>
Little Comp People	£26.25	<input type="checkbox"/>	Space Battle	£7.50	<input type="checkbox"/>
Cruncher Factory	£7.50	<input type="checkbox"/>	Final Trip	£7.50	<input type="checkbox"/>
Vader	£7.50	<input type="checkbox"/>	Dr. Fruit	£7.50	<input type="checkbox"/>
Sky Fighter	£11.20	<input type="checkbox"/>	Balance of Power	£22.50	<input type="checkbox"/>
De Ja Vu	£22.50	<input type="checkbox"/>	Sinbad	£22.50	<input type="checkbox"/>
Defender of the Crown	£22.50	<input type="checkbox"/>	S.D.I.	£22.50	<input type="checkbox"/>
Uninvited	£18.75	<input type="checkbox"/>	Star Glider	£18.75	<input type="checkbox"/>
Terrorpods	£18.75	<input type="checkbox"/>	Knight Orc	£14.95	<input type="checkbox"/>
Guild of Thieves	£18.75	<input type="checkbox"/>	World Games	£18.75	<input type="checkbox"/>
Winter Games	£18.75	<input type="checkbox"/>	Phantasia III	£18.75	<input type="checkbox"/>
Hardball	£34.95	<input type="checkbox"/>	Digi Paint	£22.50	<input type="checkbox"/>
Faery Tale	£18.75	<input type="checkbox"/>	Gold Runner	£18.75	<input type="checkbox"/>
Firepower	£18.75	<input type="checkbox"/>	Amiga Karate	£14.95	<input type="checkbox"/>
Karate Kid II	£38.50	<input type="checkbox"/>	Scenery Disc II	£18.75	<input type="checkbox"/>
Flight Simulator II	£18.75	<input type="checkbox"/>	Silent Service	£18.75	<input type="checkbox"/>
Scenery Disc 7	£11.20	<input type="checkbox"/>	O-Ball	£14.95	<input type="checkbox"/>
Impact	£14.95	<input type="checkbox"/>	Living Daylights	£14.95	<input type="checkbox"/>
Leviathan	£7.50	<input type="checkbox"/>	Backlash	£14.95	<input type="checkbox"/>
BMX Simulator	£14.95	<input type="checkbox"/>	Zuma TV Text	£74.50	<input type="checkbox"/>
Indoor Sports	£110.00	<input type="checkbox"/>			
Analyze & Spreadsheet					

OUT NOW SOFTWARE OUT NOW SOFTWARE OUT NOW

#### Atari Titles

Title	Price	Tick	Title	Price	Tick
Borrowed Time	£18.75	<input type="checkbox"/>	Shanghai	£18.75	<input type="checkbox"/>
International Karate	£14.95	<input type="checkbox"/>	Championship Football	£18.75	<input type="checkbox"/>
Little Comp People	£26.25	<input type="checkbox"/>	Fast Basic	£67.50	<input type="checkbox"/>
Balance of Power	£22.50	<input type="checkbox"/>	Fleet Street Publisher	£90.00	<input type="checkbox"/>
Defender of the Crown	£22.50	<input type="checkbox"/>	S.D.I.	£22.50	<input type="checkbox"/>
T.N.T.	£14.95	<input type="checkbox"/>	Barbarian	£18.75	<input type="checkbox"/>
Terrorpods	£18.75	<input type="checkbox"/>	Star Glider	£18.75	<input type="checkbox"/>
Guild of Thieves	£18.75	<input type="checkbox"/>	Knight Orc	£14.95	<input type="checkbox"/>
Winter Games	£18.75	<input type="checkbox"/>	World Games	£18.75	<input type="checkbox"/>
Hardball	£18.75	<input type="checkbox"/>	Phantasia III	£18.75	<input type="checkbox"/>
Leaderboard	£18.75	<input type="checkbox"/>	Metrocross	£18.75	<input type="checkbox"/>
Gauntlet II	£18.75	<input type="checkbox"/>	Road Runner	£18.75	<input type="checkbox"/>
Karate Kid II	£18.75	<input type="checkbox"/>	Jeffery Archer	£14.95	<input type="checkbox"/>
Flight Simulator II	£38.50	<input type="checkbox"/>	Scenery Disc II	£18.75	<input type="checkbox"/>
Scenery Disc 7	£18.75	<input type="checkbox"/>	Silent Service	£18.75	<input type="checkbox"/>
Trivial Pursuits	£14.95	<input type="checkbox"/>	Star Wars	£14.95	<input type="checkbox"/>
Solomon's Key	£14.95	<input type="checkbox"/>	Impossible Mission II	£14.95	<input type="checkbox"/>
BMX Simulator	£7.50	<input type="checkbox"/>	Backlash	£14.95	<input type="checkbox"/>
Outrun	£14.95	<input type="checkbox"/>	Captain America	£14.95	<input type="checkbox"/>
Spy v Spy	£14.95	<input type="checkbox"/>	Mortville Manor	£18.75	<input type="checkbox"/>
Blue War	£14.95	<input type="checkbox"/>	Film Director	£44.00	<input type="checkbox"/>
Prohibition	£14.95	<input type="checkbox"/>	10th Frame	£18.75	<input type="checkbox"/>
Indiana Jones	£14.95	<input type="checkbox"/>	F-15 Strike Eagle	£18.75	<input type="checkbox"/>

OUT NOW SOFTWARE OUT NOW SOFTWARE OUT NOW

## THE MEMORY STORE

Suite 5, 136 Ingram Street, Glasgow G1  
Telephone: 041-552 4222

(639)

24 hours  
0932 787568

ARB

COMPUTERS

24 hours  
0932 787568

XMAS  
OFFERS

#### AMIGA

	£
A500 inc. Deluxe Paint + starter pack	£485.00
A1081 Hi-Res Monitor (not stereo)....	£339.99
A1010 Ext. Drive .....	£249.99
A501 512K Expansion .....	£119.99
A521 TV Modulator .....	£24.99
Pagesetter .....	£99.00
Faery Tale .....	£48.00
Flight Simulator II .....	£43.00
Word Perfect .....	£228.85
Sculpt 3D .....	£75.00
TV Text .....	£99.00
Aegis Sonix .....	£52.00

#### ATARI

	£
520 STFM (inc Flight Sim II) .....	£299.99
1040 STF (includes starter pack) .....	£399.99
1040 STFM (includes mono monitor and Haba pack) .....	£499.99
SM125 Mono Monitor .....	£149.99
SC1224 Colour Monitor .....	£399.99
Flight Simulator II .....	£45.00
Fleet Street Publisher .....	£115.00
Art Director .....	£49.95
Aegis Animator .....	£57.00
Kuma Range .....	Ring
Film Director .....	£59.00

#### AMSTRAD

	£
PCW8256 .....	£343.85
PCW8512 .....	£458.85
PCW9512 .....	£573.85
PC1640 SDMD .....	£573.85
PC1640 DDMD .....	£688.85
PC1640 HD/MD .....	£1033.85
Colour Display .....	£172.50
EGA Display .....	£345.00
PC Write .....	£109.00
PC Planner .....	£109.00
Super Calc 3.21 .....	£69.95
Wordstar Express .....	£69.95
Super Base Personal .....	£95.00
Windowworld .....	£58.00
1st Word Gem .....	£79.95

Prestel Mailbox: 932 787568

If you cannot find the computer - printer - modem - discs - paper - software - please ring

To order please send cheque and POs made payable to: **ARB COMPUTERS**, 40 Halliford  
Close, Shepperton, Middlesex TW17 8SL.  
(Callers only by appointment please)

All prices include VAT, postage and carriage charge. Please  
allow 5 days for delivery. (599)



35 LONDON ROAD, Tooting,  
LONDON SW17 9JR**TIMESOFT** TEL: 01-685 9849

PLEASE PHONE IF YOU DO NOT SEE WHAT YOU WANT !!!

**ATARI ST****NEW RELEASES**

Bubble Bobble.....	£15.50
Jinxter.....	£19.95
Rampage.....	£11.95
Formula 3 Racing.....	£15.95
Spy Versus Spy.....	£15.50
Terrorpods.....	£18.95
Barbarian.....	£11.45
Gold Path.....	£9.95
Pirates.....	£7.50
Boulderdash.....	£9.95

**SALE**

Western Games.....	£16.95
World's Greatest.....	£24.95
Star Trek.....	£15.50
Backlash.....	£15.50
Star Wars.....	£15.95
Marble Madness.....	£19.95
Chessmaster 2000.....	£18.95
Degas Elite.....	£23.95
Defender Of The Crown.....	£24.95

**AMIGA****NEW RELEASES**

Jinxter.....	£19.95
Crazy Cars.....	£19.95
Earl Weaver Baseball.....	£17.95
Garrison.....	£19.95
Western Games.....	£16.95
Backlash.....	£15.95
Test Drive.....	£19.95
Marble Madness.....	£15.95
Gold Runner.....	£15.95
Star Glider.....	£15.95
Flight Simulator II.....	£35.00
Grid Start.....	£7.95
Sinbad.....	£24.95
Leaderboard.....	£19.95
Barbarian.....	£18.95
Terrorpods.....	£18.95
Grand Slam Tennis.....	£18.95
King's Quest Pack.....	£19.95
Chessmaster 2000.....	£17.95

PLEASE MAKE ALL CHEQUES  
PAYABLE TO TIMESOFT!IF YOU DO NOT SEE WHAT YOU REQUIRE PLEASE  
PHONE FOR A LOW PRICE.

PHONE FOR LOW PRICES ON AMIGA A500

(498)

**SPECIAL LOW PRICES ON ATARI  
ST AND AMIGA SOFTWARE FOR  
JANUARY****ATARI ST**

World's Greatest Epyx.....	£19.95
Rampage.....	£10.95
Formula 1 Grand Prix.....	£13.95
Chamonix Challenge.....	£10.95
Las Vegas.....	£6.95
Winter Olympiad.....	£13.95
Livingstone.....	£19.95
Hunt For Red October.....	£16.95
Star Wars.....	£13.95
Solomon's Key.....	£13.95
Star Trek.....	£13.95
Barbarian (PAL).....	£10.95
Impact.....	£10.95
Advanced Art Studio.....	£16.95
Ogre.....	£16.95
Terrorpods.....	£16.95
Sentinel.....	£13.95
Mission Elevator.....	£13.95
Western Games.....	£13.95
Bubble Bobble.....	£13.95
Deja Vu.....	£16.95
Bubble Ghost.....	£13.95

Super Sprint.....	£10.95
Tonic Tile.....	£13.95
Backlash.....	£13.95
Spaceport.....	£13.95
Defender Of The Crown.....	£20.95
Ranarama.....	£13.95
Barbarians (PSE).....	£16.95
Trivial Pursuits.....	£13.95
TNT.....	£13.95
Indiana Jones.....	£13.95
Guild Of Thieves.....	£16.95
The Pawn.....	£16.95

**AMIGA**

Swooper.....	£9.95
Backlash.....	£13.95
Leviathan.....	£13.95
Sinbad.....	£20.95
Silent Service.....	£16.95
Fire Power.....	£16.95
Barbarians.....	£16.95
Impact.....	£10.95
Arena/Bratticus.....	£16.95
Defender Of The Crown.....	£20.95

**MAIL-CENTA**17 Campbell Street, Belper, Derbyshire DE5 1AP  
Telephone: 077382 6830All items despatched same day whenever possible. Many more titles in stock,  
please ring for details or a price list. All prices valid until 31st January 1988

(665)

**SPECIAL OFFERS from DigiComm****Atari 520STFM..... £279.00 inc.**  
Including TV modulator, allowing you to use the computer with a normal TV, built-in disk drive, BASIC language PLUS five disks packed with software. All you need to plug in and go!**Amiga 500..... £475.00 inc.**  
Including free TV modulator (worth £24.99!) allowing you to use the computer with a normal TV, built-in disk drive PLUS disks and software worth £80.00! Everything you need to plug in and go!**Philips CM8833 stereo colour monitor..... £295.00 inc.**  
For the best display of the Atari or Amiga's graphics with stereo sound. Comes complete with lead to connect it to your computer. Please state if monitor is for Amiga or Atari.**Selected Software for the ST and Amiga**

Flight Simulator 2.....	£37.95
World Games.....	£21.95
Leaderboard.....	£21.95
S.D.I.....	£24.95
Barbarian (Psygnosis).....	£21.95
Starglider.....	£21.95
Defender Of The Crown.....	£24.95
The Pawn.....	£21.95

**Atari XE Video Games Console £75.00 inc.**

Superior video games system that uses ordinary TV and plug-in games cartridges. Comes complete with Missile Command and joystick.

**Selected games cartridges for the XE system**

Defender.....	£9.95
Galaxian.....	£9.95
Robotron 2084.....	£12.95
Millipede.....	£12.95
Donkey Kong.....	£12.95
PacMan.....	£12.95

**Fast courier delivery available for Xmas orders!**

Prices include p.&amp;p. but fast courier delivery can be arranged for Xmas - please phone. Lots more hardware and software available for the XE, ST and Amiga. Send an S.A.E. or phone for lists. Make cheques or P. Orders payable to DIGICOMM. Telephone orders taken for Access credit card holders.

**DIGICOMM**

170 Bradwell Common Boulevard, Milton Keynes, Bucks MK13 8BG.

☎ 0908 663708

(634)

**RAMSOFT COMPUTERS****AMIGA 500 - Phone £****ATARI 520STFM & 1040STF - Phone £**Various Package Deals Now Available  
20-Day Replacement On Our Computers  
1 Year Full Warranty

Customer Technical Advice Hotline

★ ALSO AVAILABLE - ST and AMIGA BOOKS,  
PRINTERS, DISC DRIVES AND SOFTWARE ★

ENQUIRIES - PHONE 0706 43519 (1-7pm)

ACCESS (Not VISA) Orders Accepted

**RAMSOFT, 24 BANKFIELD LANE  
NORDEN, ROCHDALE, LANCs OL11 5RJ**

(628)

**KENT BARGAINS****Generous discount on  
ATARI ST, COMMODORE and AMIGA software**

SPECIALISTS IN BBC AND AMSTRAD

**Master Compact..... SAVE £300**  
- BUSINESS OFFER**Amstrad PC1512..... SAVE £100**  
- BUSINESS PACK**BUY A PRINTER AND  
WE PAY THE  
V.A.T.**

EDUCATIONAL SOFTWARE A SPECIALITY

**Lighthouse Computer Service**  
4 Park Avenue, Deal. Tel: (0304) 362049

(537)





## PROGRAMMERS GRAPHIC ARTISTS

Urgently required to join Britain's most productive and innovative software development house.

We can offer impressive all-round performance to talented and experienced 8086, 8088 (IBM compatibles), 68000, 6502 and Z80 applicants, for major development projects.

Our reputation is spreading fast. . . .

- ★ Top rate royalty or outright payments.
- ★ Instant financial back-up and guaranteed payments
- ★ Europe's top arcade coin-ops and licensed projects
- ★ Professional programming support and development facilities

*So discover your true hidden potential and join the team*



### THE FORCE BEHIND THE INDUSTRY

Contact:

Fergus McGovern, Probe Software Limited,

P.I.F.C. House, 2nd Floor, 1a Church Road, Croydon, Surrey CR0 1SG

Tel: 01-680 4142 or 01-680 4454



(403)

## NETCODE LTD

	Our Price	RRP
Citizen 120D Parallel I/F	£132.00	£199.00
Panasonic 1081 Parallel I/F	£139.00	£245.00
PC 20Mb Hard Disc Kit	£195.00	—

### PRINTERS

	Our Price	RRP
Citizen LSP 100 Parallel	£165.00	£245.00
Amstrad 1512 PC Mono SG	£369.00	—
Amstrad 1512 PC 20Mb Seagate	£599.00	—
Amstrad 1640 20Mb Mono	£699.00	—
Amstrad 1640 ECD 20Mb	£949.00	—
Amstrad 1640 20Mb Seagate Mono	£699.00	—
Amstrad 1640 ECD 20Mb Seagate Mono	£949.00	—
20Mb Seagate Kit for PC XC	£225.00	—
40Mb Kit	£499.00	—
20Mb Hard Card	£230.00	—
Star NL 10 Parallel I/F	£179.00	—
20Mb Hard Card for IBM PC	£225.00	—

Citizen	
MSP 15E	£269.00
MSP 10E	£223.00
MSP 40	£310.00
MSC 45	£399.00
MSP 50	£399.00
MSP 55	£499.00
45 HQP	£570.00
110 Laser	£1330.00

Panasonic	
1081	£149.00
1082	£199.00
1083	£299.00
1592	£349.00
1540	£499.00
1595	£499.00
3131	£249.00
3151	£419.00

### SPECIAL OFFERS

#### SEAGATE H/D

- 20Mb SEAGATE
- HARD DISC KIT
- ★ HARD DISC ★
- ★ CONTROLLER ★
- ★ CABLE ★

### FLOPPY CONVERSION KIT

- 3 1/2" FLOPPY CONVERSION
- KIT FOR IBM PC
- ★ 720k 3 1/2" DISC DRIVE ★
- ★ FITS IN 5 1/4" SLOT

### Epson

LX 800	£199.00
FX 800	£305.00
FX 1000	£433.00

### REPAIRS

On site maintenance service available. In house repairs carried out on the following:  
Printers, disc drives and IBM compatible computers. 90-day warranty on all repairs

Dealer/Overseas/Educational enquiries welcome. All prices exclusive of VAT. Postage and packing £8

To order phone 0753 75041 or send cheque to:

**367 Cippenhan Lane, Slough, Berks SL1 2YE**

(New premises opening shortly in Hounslow)

(663)



FOR SALE



COMPUTER PRODUCTS

**5 1/4" DISCS WITH  
PLASTIC DISC BOX**

10 5.25" DS/DD 48 TPI	£7.50
10 5.25" DS/DD 96 TPI	£10.00

**3 1/2" DISCS  
(UNBRANDED)**

10 3.5" SS/DD 135 TPI	£8.50
10 3.5" DS/DD 135 TPI	£9.50
100 3.5" SS/DD 135 TPI	£82.00
100 3.5" DS/DD 135 TPI	£90.00
250 3.5" SS/DD 135 TPI	£200.00
250 3.5" DS/DD 135 TPI	£220.00
500 3.5" SS/DD 135 TPI	£390.00
500 3.5" DS/DD 135 TPI	£430.00

PSION ORGANISER XP (WITH 32K RAM)	£139.50
DATAPAK 128K FOR THE PSION ORGANISER	£99.95

**AMIGA SOFTWARE**

DARK CASTLE	£21.75
STAR GLIDER	£21.75
BARBARIAN	£21.75
GUILD OF THIEVES	£21.75

OTHER SOFTWARE AVAILABLE FOR THE  
ATARI ST, AMSTRAD CPC/PCW AND CBM 64.  
ALL AT DISCOUNT PRICES.

**5 1/4" DISCS**

10 5.25" DS/DD 48 TPI	£7.00
10 5.25" DS/DD 96 TPI	£8.00
100 5.25" DS/DD 48 TPI	£65.00
100 5.25" DS/DD 96 TPI	£75.00
250 5.25" DS/DD 48 TPI	£150.00
250 5.25" DS/DD 96 TPI	£175.00
500 5.25" DS/DD 48 TPI	£275.00
500 5.25" DS/DD 96 TPI	£325.00

ALL DISCS INCLUDE LABELS AND FREE POSTAGE AND PACKING

VAT INCLUDED IN ALL PRICES. ALL CHEQUES/POs MADE PAYABLE TO:

# L&A COMPUTER PRODUCTS CO LTD

21 OVERSTRAND CLOSE, BICESTER, OXON OX6 7YP. TEL: 0869 240920/249433

(640)

**CHEER UP!**  
We've got you  
covered



For Amstrad PCW/PC, BBC, AB/B+

**SEAL'n TYPE™**

A protective keyboard cover through which you can type freely and easily.

**SEAL'n TYPE™**

Accidents can happen! Protect against spills, dust, ash and grime; any of which could ruin your keyboard. Stop erosion of your key lettering.

**SEAL'n TYPE™**

Made of clear, flexible plastic moulded to fit over every key. Removable, Washable, Reusable.

£8.75  
incl.

**...straightened**

**FEED'n PRINT™**

A Paper Guide for the PCW 8256/8512 which fits simply onto your printer. Now you can easily 'feed' in paper and have precisely aligned margins every time.

**FEED'n PRINT™**

Includes markers to centre A4 and inch scales in pitches 10 & 12 matching screen layout.

£6.50  
incl.

**and  
re-inked!**

PROLONG PRINTER RIBBON LIFE

Ring 0784 252662 for FREE transporter SAs.

Same day service **£1.90 per ribbon**

Make cheques  
Payable to  
KADOR

Visit us:  
Amstrad Show  
10-12 July  
Stand A5

Unit 18 Aberman  
Ind. Est.  
ABERDARE,  
Mid. Glam.  
CF44 6DA.  
Tel. 0685 870571  
or 883663

**kador**

## Phone for best New Year deal

5 1/4" ..... DS/DD	3 1/2" ..... DS/DD
10 ..... £4.75	10 ..... £9.50
25 ..... £12.50	25 ..... £23.50
50 ..... £19.95	50 ..... £45.00

Commodore 64 compatible drive	£129.95
Commodore 64 pack 1	£195.95
Amiga 500 pack	£439.00
Atari STM pack	£269
Neos mouse	£23.95
Commodore music expansion system	£77.50
Amstrad PCW 9512	£520
Amstrad DMP 3160 printer	£199
Amstrad DMP 4000	£345
Amstrad LQ 3500	£345
Sinclair +2	£138
Sinclair +3	£199
3 1/2" 5 1/4" LIBRARY CASES	95p
3" MIMIC CF2 (10)	£20.00
80 capacity 5 1/4" LSB	£8.00
100 capacity 5 1/4" LSB	£11.00
3 1/2" 5 1/4" library cases	95p
40 capacity 3 1/2" LSB	£7.95
Spectrum 128+	£99.00
Citizen 2 col. dot matrix printer	£28.95
Datex Microstick joystick	£8.99
C2N data recorder	£25.99

All prices include VAT and postage. ALL TRADE ENQUIRIES WELCOME.

Ring now for Amstrad 1512 and 1640 ribbon paper and other computer consumables

## NEW YEAR DEALS FROM US TO YOU

### M.D.S. Computer Supplies

11 Church Street, Banbridge BT32 4AA

24-hour Credit Card Hotline 08206 23477

Enquiries - Tel: 08206 23399

A Division of Brocklis Enterprises Ltd.



(468)



## FOR SALE

### ATARI ST PUBLIC DOMAIN

Why reinvent the wheel? We have a large selection of languages, demo's, utilities, comm's and games etc. available. A stamp for our list will save you hours of frustration.

Discs from £2.50

#### MCISOFT

9 Abingdon Gardens, Bath,  
Avon BA2 2UY (178)

### AMIGA

#### CUMANA DISC DRIVES/JUMPDISK CHRISTMAS PACK

Using only the internal disc drives becomes tedious and frustrating. The Cumana disc drive for the Amiga is the answer. It is quite compact and highly reliable - we test each drive prior to the launch and there is a 12 month guarantee. We include with all orders the Christmas issue JUMPDISK, the top two PD selling discs and a special software surprise. Immediately available for only \$129 inc. VAT & p&p.

#### George Thompson Services Ltd.

Dippen Lodge, Dippen, Brodick, Arran,  
Scotland KA27 8RN. Tel: 077082 234 (291)

## ALADDINK

#### FABRIC RIBBON CASSETTE RE-INCKING

Trial offer: £1 per ribbon  
Post used cassettes with payment to:

#### ALADDINK (Dept PC),

4 Hurkur Crescent, Eyemouth,  
Berwickshire TD14 5AP  
Tel: 08907 50965 (338)

#### PUBLIC DOMAIN SOFTWARE

For the ATARI ST range of computers. Send a stamp for our comprehensive catalogue containing full details of the COMPLETE PD SERVICE we offer. Prices from only £1.50p per disk!!

#### SOFTVILLE

55 Highfield Avenue, Waterloo, Hants PO7 7PY (630)

#### JBS records

#### COMPUTER PROGRAMS

REAL-TIME or HIGHER-SPEED professional Cassette Duplication and Blanks 1 to 1,000+. Computer printed cassette labels, BBC & PC Disk copying 1 to 500+. Fast Security Delivery Service.

FILTERBOND LTD. - JBS RECORDS DIV.,  
FREEPOST, 19 Sadlers Way, Hertford SG14 2BR,  
0992 500101 17

### MICRO DRIVE MANAGER

For the Spectrum Sinclair

Makes cartridge handling really easy. Features BACK-UP cartridge, multi-FORMAT and PRINT extended catalogue with sensible error handling.

Select files from a pageable catalogue to LOAD, RE-NAME, ERASE file (S) or make multiple COPIES for quick loading.

Send cheque for £7.50 to D. Smith,  
7 Curlew Drive, Hythe, Hants. SO4 6GB,  
Tel: (0703) 845 787. 643

**ST PUBLIC DOMAIN.** Large list, programs from as little as 10p. Send large S.A.E for lists to: Shetland Software, 82B Commercial Street, Angus Closs, Lerwick, Shetland ZE2 0DP.

**AMSTRAD CPC 464** mono, over £200 worth of software, colour modulator, joystick. Sell for £140 o.n.o. Tel: 0372 63067. (Evenings).

### THEORY OF MUSIC

Grades 2 to 5 - questions and exercises

A wide-ranging program for individual practice (full details on request).

BBC (B. Master, Compact) 5 1/2 in. £9

3 1/2 in. £10 - please specify

40/80, DFS/ADFS, SS/DS, col/mono

SPECTRUM 128K/Plus 2 VERSION

also SPECTRUM 48K/Plus VERSION -

Cassette £5, Microdrive £7

From: Ted Kirk, Dept PCW, 33 Humber Crescent, Sutton Leach, St. Helens, Merseyside WA9 4HD.  
Tel: 0744 818761 (654)

Britain's No 1 ST User Group and Finalists in the 1987 Desktop Publishing Awards can now offer you even more. With annual membership at £5, including free disc and prices from £2.50 per disc, you just can't beat us for value. Same day despatch on all orders guaranteed. Forget the rest and try the best by sending large S.A.E. to:

**Floppyshop ST**  
50 Stewart Crescent  
Northfield  
Aberdeen AB2 5SR



## BLANK CASSETTES

WITH LIBRARY CASES

	C10	C15	C20	C30
20	7.50	7.70	7.90	8.70
50	16.00	16.20	16.90	18.50
100	29.00	30.00	31.00	35.00

Fully Inclusive (C.O.D. £1 extra)

### DISKS

10 5 1/4 DS/DD  
£6.00 inc. case

10 3 1/2 SS/DD  
£11 inc. case

10 MAXELL 3" CF2  
£20

### MEMOTECH COMPUTERS AND ACCESSORIES

MTX 512 COMPUTER	£43.00
DMX 80 PRINTER	£150.00
RS232	£30.00
PASCAL ROM	£30.00
SPECULATOR ROM	£30.00
1/2 mb. DISK DRIVE & INTERFACE	£160
1 mb. DISK DRIVE & INTERFACE	£160

All the above prices are fully inclusive. We stock the entire Memotech Range. Order/Enquiries to:

**UK HOME COMPUTERS**  
82 CHURCHWARD AVE, SWINDON,  
WILTS SN2 1NH  
24-hr Phone Service 0793 695034

**EXPRESS SOFT SERVICE (GERMANY).** Amiga Marauder, Brain 9, Grabbit, £19.95 each; Arkanoid (Cal) £22.45. Cheques only. Free shipping. Express Soft Service (Germany), PO Box 130, Sittingbourne, Kent ME10 3PX.

**FOR SALE.** CBM 64 emulator and serial lead for Amiga 500. Genuine items £55 o.n.o. Tel: Bursledon (Hants) 4561.

## FREE SOFTWARE AND DISCS!

For ST and prices of hardware phone  
for more details

**Free Software:** Yes, that's right, we are offering a FREE budget game with all purchases of five software titles of £7.00 or over.

UNBEATABLE DISCOUNTS ON HARDWARE AND SOFTWARE.

TITLE (on Tape)	Ams. CPC	Spectrum	C64
Game Set And Match	£10.99	£10.99	£10.99
Renegade	£6.99	£6.49	£6.99
California Games	—	—	£7.99
World Class Leaderboard	£7.99	£6.99	£7.99
Paperboy	£6.99	£6.49	£7.99
Comp. Hits 10 44	£7.99	£7.99	£7.99
Driller II	£12.99	£12.99	£12.99
Six Pack Volume II	£7.99	£7.99	£7.99
AMX mouse	£59.99	£59.99	—

CF2 3" discs pack of 10.....£20.00

All titles available on disc for Amstrad and Spectrum CBM. For more details on the above and other great offers. Phone us now at:

## TORNADO COMPUTER SERVICES

4 Swan Court, Dunstable, S. Beds. LU6 3DE  
Tel: Dunstable (0582) 604610 (611)

## RECRUITMENT

### New Technology Assistant

£104.80 weekly, based in Acton, London

Nacro has a vacancy for a new assistant under the Community Program Scheme. The successful applicant will join a small team responsible for software design, implementation and staff training using the Smart 'C' languages in a PC/XT environment. We require an enthusiastic person who wishes to further develop skills in MS-DOS, 'C', Basic and Smart. Nacro - for the care of offenders and prevention of crime.

**Contact Russell Archer or  
Val Knight on:**

**01-749 9001**

Nacro aims to be an equal opportunities employer and to eliminate unfair discrimination against anyone in its selection process (664)

# PROGRAMMERS



**STAR  
SOFT  
NEED  
YOU!**

**STAR SOFT**  
  
**THE EXPERIENCE**

Star Soft are an up and coming software house who need expert programmers for games, sub-contract work and conversions. For programming on C64, Atari ST, Amiga and Amstrad. Top royalties available.

**Call Gary in strictest  
confidence**

Telephone: Star Soft 0224 581858 (660)



## VIDEO SENDER NEW TECHNOLOGY

Watch Video Recorder/Computer/Satellite TV on any set in your home - VIDEO SENDER transmits to any number of TVs in your home, no wires, simple to install. Smaller than a Video Cassette.

**PHOENIX COMMUNICATION**  
31 NIGHTINGALE LANE, FELTWELL  
NORFOLK IP26 4AR

Tel: 0842 827267

Send Cheque/PO

for £33.50 (inc. P.&P.) (627)





## POPULAR COMPUTING WEEKLY/43



M

CRO  
SLE

## 1 SOUTH EAST

**4GAMER**  
PERSONAL COMPUTERS

 71 EAST STREET, BRIGHTON BN1 1HQ  
Telephone: 0273 728681

## AMIGA 500 £499

 Including free modulator ★ Deluxe Paint  
★ 3 games ★ 10 blank discs

## AMIGA 500 + 1901 Colour Monitor £715

 Wide range of Amiga and ST software and peripherals  
All prices includes VAT (657)

## 4 SOUTH WEST

## EXMOUTH MICROS

**BANANA REVERSIBLE DISCS**  
2 notches, 2 hub holds, 100% guaranteed  
DS/DD (Box of 10) £9.95 + 50p postage

For all your computer needs – computers, printers, papers, discs and accessories. Phone for a competitive price on any product

★ PLUS... PLUS... PLUS Vandrad Fantasy and Wargames. RPGs rules, tools and much, much more. Send S.A.E. for current stocklist of games.

Cheques and Postal Orders to:

## EXMOUTH MICROS

 The Computer Shop, 13 South Street, Exmouth, Devon EX8 2SX  
Barclaycard hotline  
0395 267734 (645)

## NORTHAMPTON

**MICROCOM SYSTEMS**  
**OUTSTANDING**  
**SOFTWARE**

For IBM PC and Compatibles

**£4.50**  
per disc

 V.A.T. &  
postage  
included

 Discount  
**10%**  
on 10 or more

- **BUSINESS 1.** EZ-Forma business form generation, completion and printing program
- **CAD 1.** Artimura, a 4 colour, object oriented drawing program. Colour required.
- **COMM 1a,b,c,d,e** (5 disks). RBBS Bulletin Board System 14.1D.
- **DATABASE 1a,b** (2 disks). File express menu driven general purpose database manager.
- **EDUCATION 1.** Interactive DOS tutorial for new PC users. Makes learning DOS painless
- **GAMES 1.** 3-D PacMan, Kong, SpaceWar, Janit Joe and more. Colour required.
- **GAMES 2.** Quibert, Pango, Centipede, Monopoly, Zaxxon and more. Colour required.
- **GAMES 3.** Blackjack (you set rules), Arm Chair QB and Empire (War Game).

- **GAMES 4.** Castle, Star Trek and the original Colossal Cave Adventure.
  - **GAMES 5.** The Hack adventure game from the universities. Like Rogue, only more complex
  - **GAMES 6.** Pinball, Othello, Dragons, Sopwith (fly one) and more. Colour required.
  - **INFO 1a,b** (2 disks). Cooking recipes database with keyword/ingredient retrieval.
  - **LANGUAGE 5.** Turbo Pascal interactive debugger, pop-up help, formatters, etc.
  - **LANGUAGE 7.** Complete Pascal interpreter/compiler. Great for learning Pascal.
  - **ORGANIZER 1.** DeskMate, a Sidekick clone and the Judy calendar program.
  - **UTILITIES 1.** A collection of invaluable general purpose DOS utilities. A must.
  - **UTILITIES 2.** More invaluable DOS utilities. Too many to list here!
  - **UTILITIES 3.** A comprehensive set of debugging and diagnostic utilities.
- NEW RELEASES/UPDATES**
- **CAD 2a,b** (2 disks). An advanced 2D/3D drafting program 540K and colour required.
  - **COMM 1a,b** (2 disks). Version 2.4 of the ever-popular Qmodem comm. program.
  - **COMM 2a,b** (2 disks). Procomm 2.42, an excellent modem program with terminal emulation.
  - **EDUCATION 3.** PC fast type typing tutor. Colour required.
  - **EDUCATION 5.** Learn Origami, the Japanese art of paper folding. Colour required.
  - **EDUCATION 8.** Spanish language vocabulary and verb drills and verb conjugator.
  - **EDUCATION 9.** First language vocabulary and verb drills and verb conjugator.
  - **EDUCATION 10.** German language vocabulary and verb drills.
  - **FINANCES 3a,b** (2 disks). Express Calc 3.12, a powerful spreadsheet program.
  - **GAMES 8.** Striker helicopter attack and Risk, world domination. Colour required.
  - **GAMES 9.** EOARisk, the game of world domination in very high resolution. EGA required.
  - **GAMES 10.** Solitaire, Tweed-Off Golfing, and Sailing in The Bermuda Triangle. Colour required.
  - **GAMES 12.** MyChess (9 levels), Backgammon and Wheel Of Fortune. Colour not required.
  - **GRAPHICS 1.** Record and play back screen images excellent for demo etc. Colour required.
  - **LANGUAGE 3a,b** (2 disks). The A862.18 macro assembler and debugger.
  - **SHELL 4.** Automenu and HDM II 4.04 hard disk menus. Creates custom full-screen menus.
  - **UTILITIES 5.** Utilities for formatting, parading and optimising hard disc drives.

- **UTILITIES 6.** Advanced utilities including Dpath, Esc, Holdos, Resident program utilities.
- **UTILITIES 7.** More advanced utilities including MasterKey (undeletes files from hard disks).
- **WORD 1a,b** (2 disks). PC Write 2.7, a powerful word processing system, w/spell checker.

**OTHER BRAND NAMED SOFTWARE AVAILABLE AT UP TO 20% DISCOUNT. S.A.E. FOR LISTS.**

 Catalogue £2.50  
3.5" format add £1.25 per disc  
MicroCom Systems

 MicroCom Collection TM  
authorised dealer

**CRIFFELL**  
**SERVICES LTD.**

 PO Box 108, Northampton NN3 5LP.  
Phone orders 0604 31613

 This is only a small  
selection of our  
extensive library


(635)

## DEALERS!

 You can reach 40,000 readers for as little as £25 a week!  
For more details phone Susannah on 01-834 1717



## 3 SCOTLAND

### SPECIAL CHRISTMAS OFFERS



Amiga & colour monitor .....	£649.95
Atari 520 STFM .....	£279.95
Fantastik joystick .....	£4.95
CBM power supply .....	£22.50
Spectrum power supply .....	£8.95

#### PRINTERS



Star NL10 .....	£209.95
Citizen 120D .....	£179.95
Olivetti, spark jet .....	£69.95
5 1/4" discs (box of 10) .....	£4.99
3 1/2" discs (box of 10) .....	£12.90

### COMPUTER DEPOT



205 Buchanan Street  
Glasgow G1 2JZ

Telephone: 041-332 3944



(569)

## AIRDRIE

### J.C.S.

☆ Atari 520 STFM - £299  
Including starter pack

☆ Amiga A500 - £469  
Including starter pack

☆ Sega Master Systems - £94.95

ALL HARDWARE AND SOFTWARE AVAILABLE  
NOW!!

MAIL ORDER OFFER

4 Graham Street, Airdrie,  
Scotland ML6 6BU  
Telephone: (0236) 69874

(546)

## EDINBURGH

### THE AMIGA CENTRE SCOTLAND

Commodore Business Centre  
Amiga Specialists since 1985  
Amiga A500 and A2000 now available.  
Technical and software support to our customers. Full range of AMIGA software and peripherals.

Send S.A.E. for our software catalogue

4 Hart Street Lane  
Edinburgh EH1 3RN  
Tel: 031-557 4242 (24 hrs.)

(379)

## GLASGOW

### GLASGOW COMPUTER CENTRE

Atari appointed dealer  
and Service Centre  
Specialists in Atari ST Computers

WE'VE MOVED TO:  
122 WEST NILE STREET  
GLASGOW G1 2QZ  
TEL: 041-332 8246

(136)

## 2 THE MIDLANDS

### CROWN SOFTWARE

TOP GAMES		TAPE	DISC
California Games .....		8.95	13.50
Solid Gold .....		8.95	13.50
Renegade .....		8.95	13.50
720 .....		8.95	13.50
Buggy Boy .....		8.95	13.50
Gary Lineker .....		8.95	13.50
Match Day II .....		8.95	13.50
Elite Collection .....		8.95	13.50
Combat School .....		8.95	13.50
Star Wars .....		8.95	13.50
Game Set And Match .....		8.95	13.50
World Class Leaderboard .....		8.95	13.50
Thundercats .....		8.95	13.50
Airborne Ranger .....		8.95	13.50
Ramparts .....		8.95	13.50

#### NINTENDO HARDWARE

Deluxe .....	£155.99
Deck .....	£95.99
Rob .....	£42.99
Zapper Gun .....	£18.99

#### NINTENDO GAMES ROB SERIES

Gyro Mite .....	£29.95
Stack Up .....	£29.95

#### PROGRAMMABLE SERIES

Wrecking Crew .....	£26.99
Exercise Bike .....	£26.99
Mach Rider .....	£26.99

#### ACTION SERIES

Kung Fu .....	£18.50
Balloon Fight .....	£18.50
Clu Clu Land .....	£18.50
Ice Climber .....	£18.50
Pinball .....	£18.50
Super Mario Bros .....	£18.50
Urban Champion .....	£18.50
Action Asst .....	£18.50

#### SPORTS SERIES

Golf .....	£18.50
Baseball .....	£18.50
Soccer .....	£18.50
Tennis .....	£18.50
Ten YD Fight .....	£18.50
Sports Asst .....	£18.50

Cheques and POs to:

**CROWN SOFTWARE**  
6 High Street, Boston, Lincolnshire.  
Tel: 0205 53611

(662)

## 2 NORTHERN ENGLAND

### ASHCOM

#### Atari hardware

520 STFM, keyboard/mouse/0.5 meg drive .....	£259.95
1040 STF keyboard/mouse/1 meg drive .....	£439.95
1040 STF plus colour monitor .....	£799.95
SF 314 1 meg drive .....	£169.95

#### Commodore Amiga range

A500 + Offer Pack + modulator .....	£435.00
A1010 disc-drive .....	£249.95
3.5 inch discs DD/DS guaranteed (packed in 10s) .....	£12.00
25 bulk packed 3.5 inch discs DS/DD guaranteed .....	£25.00

Free public domain software on request with discs. All products fully guaranteed.  
Amazing prices on peripherals and all software. All prices include VAT at 15% and P&P on UK mainland. For more information call us on (0530) 411485 or send SAE for full price list. To order send cheques/PO or Visa/Access details to the address below or phone with credit card.

### ASHCOM

10 The Green, Ashby de la Zouch, Leicestershire LE6 5JU  
(437)

### BE A CHRISTMAS HIT WITH A COMPUTER FROM 2 BIT

COMMODORE 64 COMPENDIUM PACK .....	£139.99
(FIRST 20 GET A FREE MODEM WORTH £75.00)	
SPECTRUM 48K+ WITH FREE JOYSTICK AND INTERFACE .....	£59.99
MUSIC SYNTHS FOR SPECTRUM 128+ AND +II .....	£29.99

#### COMMODORE MODEMS

WERE **£75.00**

NOW **£29.99**

Manuals available for most popular computers - phone for details.

Lots more in stock. Ring for more information.

## 2-BIT COMPUTERS

26-28 Bowesfield Lane, Stockton-on-Tees, Cleveland TS18 3ER TEL: 0642 604788  
"If in doubt, give us a shout"



# The programmers united . . .

**A**lmost every computer user has a complaint about the price of software or the protection routine which means you cannot transfer programs from tape to disc.

The companies are too big to argue with so we sit and take it. The Advertising Standards Authority (ASA) has had many a complaint about software being advertised but not ready. The ASA has no real teeth, only gums, so it cannot do much apart from suck.

I am a freelance games designer and graphic artist and it annoys me that all the foregoing happens and companies get away with it.

In one case a company was asked by the ASA why a certain sports game had not been released; the reason given was that the programmer had died.

A good reason but the only problem was that he was still alive. What is more, he had a hell of a time convincing software companies otherwise.

I have thought for some time that the only way to prevent this kind of nonsense would be to have a Computer Programmers' Union.

It would work only if the vast majority of programmers, designers, artists and musicians joined the CPU. If all the big names like Braybrook, Rob Hubbard, Tony Crowther, Bernie Drummond and Tag

could be persuaded to become members the union might be able to gain influence with companies which were naughty.

If a software house pre-advertised a game the CPU could withdraw all its members from working for that company. If a firm charged too much for a game a programmer could ask the CPU to boycott the company. On the plus side for the companies there could be a realistic wages scale.

The union could also pursue the question of violence and sexism in games - the latter is starting to annoy me. In short, the CPU could be a substitute for the governing body which is badly needed in the software industry.

There are far too many sad stories of programmers being ripped off and, to a lesser extent, a software company being cheated by a programmer.

I am not a red-blooded socialist who demands power for the worker; in fact, the day I vote Labour will be the day full-price software becomes extinct.

I have been very lucky in that the vast majority of companies for which I have worked in the past have played - and paid - reasonably fair. Others have been less fortunate.

Many other leisure industries have a union, so surely now that the software market has come of age it is about time to

have a CPU. It could benefit everyone if run properly. ☐

Neil Scrimgeour  
(Sigma Software Designs)

## PUZZLE

### Deck of cards

**T**ake six pieces of card and write a single digit on each. You can use only the digits from 1 to 9 - zero is not allowed - but you can write the same digit or digits more than once if you wish. This must be done to enable you to perform the following actions:

Place the cards in a row to form a six-digit number divisible by three.

Move the right-hand end card to the left-hand end so that the new number is divisible by five.

Repeat this procedure of moving a card from the right end to the left four more times, so that at each stage the number formed is divisible by seven, 11, 13 and 17 respectively.

By divisible we mean exactly, without a remainder. Can you determine what our starting number must be?

## HACKERS





# NEW LOW PRICE ST!



## ONLY FROM SILICA

Finally, there's a personal computer that not only solves problems like other computers, but also solves the one problem that other computers have created. Affordability. Silica Shop are pleased to present the ST range of personal/business computers from Atari. The ST was designed utilizing the most recent breakthroughs in semiconductor technology, producing a personal computer that performs tasks with fewer parts. Which means it costs less to make. And less to buy. The latest ST computers now include built-in power supplies and built-in disk drives. The TOS operating system and GEM window environment are now on ROM chips which are already installed in the ST keyboard. This enables automatic instant booting when you switch on. Silica Shop are pleased to offer the complete Atari ST range. Our mail order department is situated in Sidcup and we have 3 retail outlets at Sidcup, Lion House (Tottenham Court Rd) and Selfridges (Oxford Street). We have eight years experience of Atari products, longer than any other UK company, and are well established as the UK's No.1 Atari specialist. With a group turnover of over £9 million, and in excess of 80 staff, we offer you unbeatable service and support. We provide several facilities which you will find invaluable during your Atari computing life and most of these facilities are available ONLY FROM SILICA. We suggest that you read through what we have to offer, before you decide where to purchase your Atari ST.

### FREE STARTER KIT - Only From Silica

When you purchase any Atari ST keyboard, you will not only receive the best value for money computer on the market, but you will also receive the following from Atari Corporation as part of the package:  
\* BASIC Language Disk \* BASIC Manual \* ST Owners Manual \* TOS/GEM on ROM  
If you buy your ST from Silica Shop, you will also receive:

\* NEochrome Sampler - colour graphics program \* 1st Word - Word Processor  
In addition, we at Silica would like to see you get off to a flying start with your new computer, so we have put together a special ST STARTER KIT worth over £100, which we are giving away FREE OF CHARGE with every ST computer purchased at our normal retail prices. This kit is available ONLY FROM SILICA and is aimed at providing users with a valuable introduction to the world of computing. We are continually upgrading the ST Starter Kit, which contains public domain and other licensed software, as well as books, magazines and accessories all relevant to ST computing. Return the coupon below for full details.

### DEDICATED SERVICING - Only From Silica

At Silica Shop, we have a dedicated service department of seven full time Atari trained technical staff. This team is totally dedicated to servicing Atari computer products. Their accumulated knowledge, skill and experience makes them second to none in their field. You can be sure that any work carried out by SILICA, in addition to providing full servicing facilities for Atari ST computers (both in and out of warranty), our team is also able to offer memory and modulator upgrades to ST computers.

**1Mb RAM UPGRADE:** Our upgrade on the standard Atari 520ST-M or 520ST-FM keyboard will increase the memory from 512K to a massive 1024K. It has a full 1 year warranty and is available from Silica at an additional retail price of only £86.95 (+VAT - £100).

**TV MODULATOR UPGRADE:** Silica can upgrade the 1040ST-F to include a TV modulator so that you can then use it with your TV set. This is an internal upgrade and does not involve any untidy external boxes. A cable to connect your ST to any domestic TV is included in the price of the upgrade which is only £49 (inc VAT). The upgrade is also available for early 520ST computers at the same price.

### THE FULL STOCK RANGE - Only From Silica

We aim to keep stocks of all Atari related products and our warehouse carries a stock of over £2 million. We import many software titles direct from the USA and you will find that we have new releases in advance of many of our competitors. Unlike dealers who may only stock selected titles, we have the full range. In addition, we carry a complete line of all books which have been written about the Atari ST. A range as wide as ours is something you will find is available ONLY FROM SILICA.

### AFTER SALES SUPPORT - Only From Silica

Rest assured that when you buy your ST from Silica Shop, you will be fully supported. Our free mailings give news of releases and developments. This will help to keep you up to date with new software releases as well as what's happening in the Atari market. And, in addition, our sales staff are at the end of a telephone line to service all of your Atari requirements. If you purchase an ST from Silica and would like any technical advice, we have a full time technical support team to help you get the best from your computer. Because we have both the staff and the systems specifically dedicated to providing after sales service on Atari ST computers, we are confident that our users enjoy an exceptionally high level of support. This can be received ONLY FROM SILICA.

### FREE CATALOGUES - Only From Silica

At Silica Shop, we recognise that serious users require an in-depth information service, which is why we mail free newsletters and price lists to our ST owners. These are up to 48 pages long and are crammed with technical details as well as special offers and product descriptions. If you have already purchased an ST and would like to have your name added to our mailing list, please complete the coupon & return it to us. This information service is available ONLY FROM SILICA.

### FREE OVERNIGHT DELIVERY - From Silica

Most orders are processed through our computer within 24 hours of receiving them. Most hardware orders are sent by the overnight GROUP 4 courier service FREE OF CHARGE to customers within the UK. This method helps to ensure minimum delay and maximum protection.

### PRICE MATCH - Only From Silica

We hope that the combination of our low prices, FREE UK delivery service, FREE Starter Kit and FREE after sales support, will be enough to make you buy your Atari equipment from Silica Shop. If however, there is something you wish to purchase, and you find one of our competitors offering it at a lower price, then please contact our sales department, providing us with our competitor's name, address and telephone number. If our competitor has the goods in stock, we will normally match the offer (on a 'same product - same price' basis) and still provide you with our normal free delivery. We realise that we are not the only company who offer after sales service, including free newsletters and technical support. This makes our price match promise rather special, something you will receive ONLY FROM SILICA. We don't want you to go anywhere else for your Atari products. So shop at Silica, the UK's No.1 Atari Specialist.

# £260

+VAT=£299

## SO MUCH FOR SO LITTLE!

There is nothing that can compare with the incredible value for money offered by Atari's 520ST-FM. For only £260 (+VAT=£299), you can purchase a powerful 512K RAM computer, with a 95 key keyboard (including numeric keypad), MIDI interface, GEM, a palette of 512 colours, mouse controller, and a 512K built-in disk drive. The 520ST-FM has a TV modulator built-in, and comes with a lead to allow you to plug it straight into any domestic colour television set. The mains transformer is also built-in to the keyboard, so there are no messy external boxes. You couldn't wish for a more compact, powerful and stylish unit. Atari ST computers are now firmly established in the UK, there are nearly 500 software titles already available for a wide variety of applications and the list is growing all the time. And that's not all. When you buy your new 520ST-FM (or any Atari ST computer) from Silica Shop, you will get a lot more, including a FREE Silica ST Starter Kit worth over £100. Read the ONLY FROM SILICA section on the left, to see why you should buy your new high power, low price 520ST-FM from Silica Shop, the UK's No.1 Atari Specialists. For further details of the range of Atari ST computers and the FREE Silica ST Starter Kit, complete and return the reply coupon below.

**ATARI 520ST-FM NOW ONLY £260 (+VAT=£299)**  
520ST-FM with 512K RAM & mono monitor £399 (inc VAT) Upgrade from 512K RAM to 1024K RAM £100 (inc VAT)

### ATARI 1040ST-F - NEW PRICE

We are pleased to announce a new reduced price point on the 1040ST-F which is now available for only £499 (inc VAT). The 1040 is a powerful computer with 1Mb of RAM and also includes a built-in 1Mb double sided 3 1/2" disk drive. The 1040 has been designed for use on business and professional applications most of which require a high resolution monochrome or colour monitor. It does not therefore have an RF modulator for use with a domestic TV set. Modulators can be fitted for £49 (inc VAT).

1040ST-F Keyboard - Without Monitor £499 (inc VAT)  
1040ST-F Keyboard + High Res SM125 Mono Monitor £599 (inc VAT)  
If you would like further details of the 1040ST-F, return the coupon below.

### MEGA ST's NOW IN STOCK

For the user who requires even more RAM than the 520 or 1040 ST's offer, the new MEGA ST computers are now available. There are two MEGA ST's, one with 2Mb of RAM and the other with a massive 4Mb. Both new computers are fully compatible with existing ST's and run currently available ST software. The MEGA ST's are styled as an expandable Central Processing Unit with open architecture and a detachable keyboard. They are supplied with GEM, a free mouse controller and all extras as with the 520 or 1040. Prices are as follows:

MEGA ST 2Mb Keyboard + CPU £899 (inc VAT)  
MEGA ST 2Mb Keyboard + CPU + SM125 Mono Monitor £999 (inc VAT)  
MEGA ST 4Mb Keyboard + CPU £1199 (inc VAT)  
MEGA ST 4Mb Keyboard + CPU + SM125 Mono Monitor £1299 (inc VAT)  
If you would like further details of the MEGA ST's, return the coupon below.

# ATARI ST

To: Silica Shop Ltd, Dept PCWK 1087, 1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX

**PLEASE SEND ME FREE LITERATURE ON THE ATARI ST**

Mr/Mrs/Ms: \_\_\_\_\_ Initials: \_\_\_\_\_ Surname: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Postcode: \_\_\_\_\_

Do you already own a computer  
If so, which one do you own? \_\_\_\_\_

**SIDCUP (& Mail Order)**  
1-4 The Mews, Hatherley Road, Sidcup, Kent, DA14 4DX **01-309 1111**  
**LONDON** **01-580 4839**  
Lion House (1st floor), 227 Tottenham Court Rd, London, W1P 0HX  
**LONDON** **01-629 1234 ext 3914**  
Selfridges (1st floor), Oxford Street, London, W1A 1AB



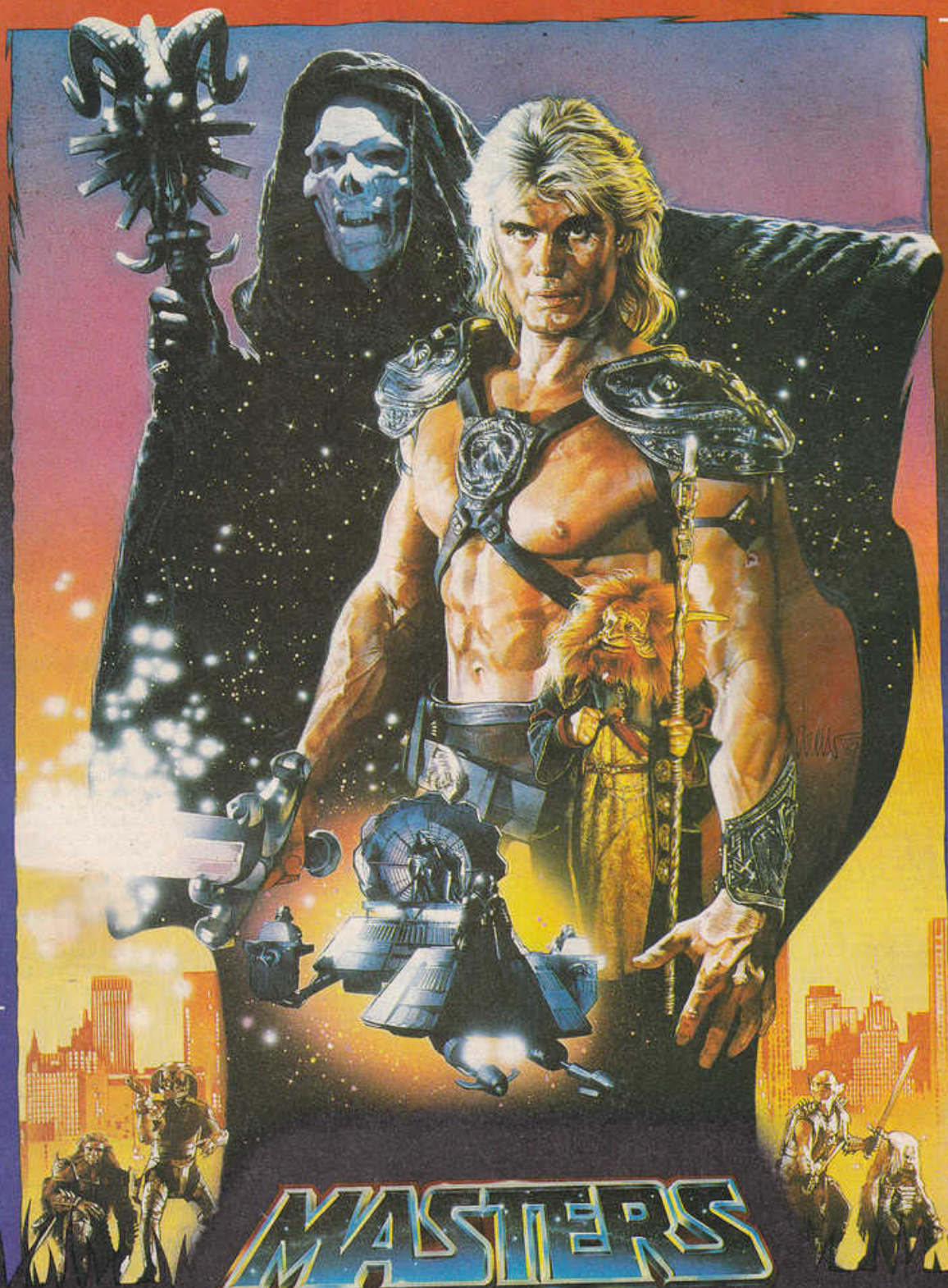


# MASTERS OF THE UNIVERSE HAS COME TO LIFE!!

• Now you can live it, as the conflict between good and evil continues •

Masters of the Universe, the Movie, brings to life the deadly, eternal conflict between good and evil. Masters of the Universe the computer game of the film allows you to control the forces of good to do battle with the forces of evil, the prize being the KEY to time travel and with it the title Master of the Universe. Slipping through a vortex in time the KEY has fallen into the hands of an unsuspecting American college student.

Little does he realise the awesome power he holds. Linking it to be a musical instrument he fails to realise that Evil-Lyn note he plays attracts the ruthless Skeletor and his devilish army led by the frightening powerful Evil-Lyn. With the key in their possession who can stop them escaping downtown America and returning to create chaos in Eternia? Only one man can save earth from this evil domination as HE MAN meets Skeletor in the battle for Eternia, the final chapter that will seal the fate of mankind forever.



AMSTRAD

£9.99

Cassette

£14.99

Disk

SPECTRUM

£7.99

Cassette

CBM 64/128

£9.99

Cassette

£14.99

Disk

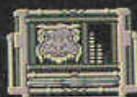
ATARI ST

£19.99

# MASTERS OF THE UNIVERSE

## The Movie

# GREMLIN



Masters of the Universe and associated characters are trademarks owned by and used under license from Mattel, Inc. © Mattel Inc. 1986. All Rights Reserved.

Gremlin Graphics Software Limited, Alpha House, 10 Carver Street, Sheffield S1 4FS T el: 0742 753423