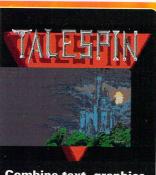




- Friendly mousedriven environment
- The Grail complete demo game
- Import pictures or use Talespin's built-in art package
- Import your own sampled sounds
- Manipulate graphics Over 100 commands

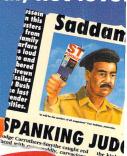


Combine text, graphics and sounds to create interactive adventures



9 JOSEPH The Daily Planet

Read our exclusive guide on how to make war, not love



COVE

Enigma -Totally encrypt your top secret messages

Sehra -Run programs in high

res with this brilliant mono emulator

utoZeST -

Add slick interfaces to GFA Basic programs and lots more!

Furious and frantic arcade blaster top drawer 🟣

massively powerful uge Wow! fact



BAIZE WATCH

We talk to the programmer of Jimmy White's Whirlwind Snooker about pool, life and lucrative sponsorship deals

CHEESE GUIDE

Who are the most important people in the ST world? Turn to page 136 to find out

THEN ASK YOUR NEWSAGENT FOR THEM IMMEDIATELY

N DISK Amazing graphic adventure creator! VIEWED THIS MONTH: 17 Public Domain programs, five budget releases, eight Lynx cartridges, ten serious products and seven full price game reviews!

PLUS! Sample CDs sampled, furrowed brows soothed and upgrades analysed. All inside!





Award winning innovative products from

Power Scanner



- Up to 400 DPI
- Real-time greyscale scanning
- Auto scan rate detect
- Monochrome text or 16 greyscale levels
- Full image and clipboard editing features
- Scan join feature for taking wide scans
- Cut, paste, magnify, flip, rotate, invert, crop, edit and many more editing features
- Works in all three resolutions
- Save a variety of picture file formats
- High resolution printer driver with more drivers forthcoming
- GEM menu and fast icon driven controls
- Keyboard shortcuts
- OCR text recognition coming soon
- M105-Plus scanning head

Watch out for our regular software updates with many exciting new features, available only to registered users

Power Scanner£99

Ram Expansion

- No soldering required
- Expand to 2MB or 4MB
- Plugs directly inside the ST
- Full fitting instructions
- Uses latest capacity RAM chips

1 £99	2MB RAM Expansion
£169	4MB RAM Expansion
£25	1MB SIMM for STE
£45	512K RAM STFM

New Blitz Turbo

- Back-up your disks at lightning speed
- Copies from the internal to the external drive
- Cleverly by-passes your ST's disk controller chip
- Back-up an ST disk in around 40 seconds
- Now you can switch between your disk drive and Blitz Turbo without disconnecting your Blitz interface

New Blitz Turbo	£25
Original Blitz Turbo	£15

Floppy Drives

PC720B



- Award winning drive manufactured by Power Computing
- Super slim design
- Virus blocker (prevents viruses)
- Built-in Blitz Turbo
- Boots from drive B
- High quality
- 12 month warranty

PC720B**£65**

PC7201

Atari internal disk drive£39.95

PC72001

Official Atari internal disk drive£45
 (No case cutting but must be small button version)

PC720P

Disk drive inc. power supply unit£50

Drive Accessories

Maxell Multi-Colour disks (10)£9.95
Floppy disks bulk supplied£POA

Boot from Drive B

If you have an internal drive that is not compatible with "Boot from drive B" this cable will solve your problem£9.95

Hard Drives

Series 900 HD

- Super slim design
- Low profile mechanism
- No need for a cooling fan
- Buffered thru'port
- Optional battery backed clock
- High speed 20ms seek rate
- Write protect switch, protect your valuable data
- Power supply
- ICD interface and utility disk

Series 900 40MB.	£329
Series 900 100MB	£479

Add £10 for clock to be fitted to Series 900 hard disk

Special Offer

When you purchase this hard drive you can buy Lattice C v5 for**£60**

ICD

The Link™

- External SCSI host adaptor
- Connect Atari ST to external SCSI devices e.g. External HD, floppy drives, Optical drives, CD ROM drives which were originally designed for the Apple Mac, IBM PC, Commodore Amiga, NeXT Atari TT, Falcon
- Atari ST must have a DMA port
- Plug-in and go
- Software included
- Compact interface
- 63 x 76 x 19mm in size
- No power supply needed

The Link™**£69.95**

Optical Hard Drive



- Manufactured by Power Computing
- 128MB on one optical disk
- Read and write optical disk
- 40ms running speed
- Built-in power supply
- High power cooling fan
- 25-way and 50-way SCSI ports
- SCSI ID switch

(The link $^{\text{TM}}$ must be used to connect drive to Atari computer)

128MB External optical drive£999 128MB Optical drive & The Link™ £1068 128MB 3.5" Optical disk£39.95 each

Software

Lattice C v5.0	£89
Devpac v2.0	£29
HiSoft C	
Proflight	£29
Harlekin	£45
Wercs	£24
Knife ST	£29
PC Ditto	£29
Neo Disk v3.0	£34
Devpac v3.0	£69.95

Miscellaneous

Power Mouse	£15
Optical Mouse£	29.95
Replacement Optical Mouse mat .	£9.95
10 Maxell disks, Optical mouse,	
Zinstick	£45

Distributor for Power Computing in Italy, D.R.R. SRL 00142, Roma. Via Duccio Di Buoninsegna Tel (06) 5193481/482 Fax 5040666 Power Computing, France, 15 Bld Voltiare 75011, Paris, France. Tel (1) 43386206 (6 lines) Fax (1) 43380028

Power Computing Ltd • Tel 0234 843388

Printers

All printers include cables and next day delivery

Star Printers

LC200 colour	£199
LC24-200 mono	£239
LC24-200 colour	£289

Citizen Printer

Swift 24e£279 (includes colour kit and AMI)

Epson Printers

Laser

EPL 4000

- Ideal first time laser printer
- Print speed of 6ppm
- Print superb quality text and graphics
- Ideal upgrade from dot-matrix

EPL 4000£639

EPL 4300

- High quality laser printer
- Print speed of 6ppm
- 1MB memory
- Expand to 6MB
- Adobe postscript option
- 100 sheet tray

EPL 4300£799

EPL 8100



- 1MB memory expandable to 6MB
- Microsoft printing
- Ritech
- 27 font
- 250 sheet papertray
- Adobe postscript option
- Intelligent/remote emulation switching

EPL 8100£1349

- Parallel/serial interface
- Networking capabilities
- Can serve 2-3 users
- Shared printing

Inkjet

SQ870



- New generation inkjet
- Advanced paper handling
- Print scalable fonts
- 660cps print speed
- 360 x 360 DPI print quality
- 128k printer buffer
- Handles four paper types

SQ870	£509
SQ1170	£629
(132 Column printer)	

Dot Matrix

LQ570

- Four feed paths
- Flexible paper management
- 225cps print speed
- Easy access control panel
- Memory stores around 4 full pages of text
- Print text and graphics
- Optional sheet feeders
- Optional tractor feeder

LQ570	£289
LQ1070	£449
(100 1	

LQ100



- 250 cps printspeed
- Space saving
- Scalable fonts
- Enhanced graphics
- 50 sheet A4 paper tray
- Dual position design
- Optional tractor feed
- LQ100 fits in anywhere!

LQ100**£209**

Dot Matrix Cont.

LX100

- 9 pin
- Tractor feed
- Cut sheet feeder
- Cables
- Some of the LQ100 features

LX100	£1	18

Monitor

Philips CM8833 MK2

- With cable
- On-site maintenance

CM8833 MK2	 £	19	9

The Ultimate Cartridge

The Ultimate Cartridge will break into any Atari ST program. Whether you're a programmer, hacker, games player, or just curious about your Atari ST, The Ultimate Cartridge gives you the power that you need. Updates available with new software.

Features:

- Break into any program
- Read memory
- Search memory
- Print memory
- Disassemble
- Disassemble to disk
- Edit memory
- Search for graphics
- Search for sprites
- Edit screen configurations
- Set up colour palettes
- Alter plane configurations
- Load and save screen displays
- Run external TOS programs
- Load TOS programs
- Load and save graphic screens
- Low level disk editor
- Disk analyser
- Examine formats
- Format analyser
- File editor
- Directory editor
- Formatter
- Break and restart function
- Search for infinite lives
- Look for music
- Play music
- Load and save music
- Search for soundtracker music
- Search for sound samples

The cartridge the ST has been waiting for

The Ultimate Cartridge£25

Award Winning Manufacture Power products come wi full technical support

Order Form

Name

Address

Postcode

Tel. No.

Description

Credit Card No

Expiry Date

Signature

I enclose cheque/PO for f

> Tel 0234 843388 Fax 0234 840234

Power Computing Ltd Unit 8 Railton Road Woburn Road Ind. Esta **Kempston Bedford**



Established 1985

Specifications & prices subject to change with out notice All trademarks acknowledged VAT & delivery included

ABC Jan - June 1992 69,059

MEMBER OF THE AUDIT BUREAU OF CIRCUI AT

Editor Andy Hutchinson **Art Editor Steve Fardy Production Editor Paula Richards Disk Editor Chris Lloyd Technical Editor Clive Parker Staff Writer Andrew Lowe Production Assistant Rob Mead** Art Assistant Helen Hayward Trainee Art Assistant Lisa Kellett

Contributing Music Editor Tim Tucker

Contributors

Billy Allen, Peter Crush, Paul Hughes, Jon Pillar, Tony Wagstaff, Steve Wright, **Photography**

Ashton James, Bob Whitfield **Cover illustration Barry McCullock**

ADVERTISING

Ground Floor, Rayner House, 23 Higher Hillgate, Stockport SK1 3ER Advertising manager Gail Blincow (© 061 474 7333, fax: 061 476 3002) **Ad Sales Exec David Eckett** (= 0225 442244)

Ad Production Freddy Wasem (fax: 0225 423929)

EDITORIAL

30 Monmouth Street, Bath, Avon BA1 2BW 2 0225 442244 • FAX: 0225 465982 BBS: 0225 461330 Telex: 9312134560 (FU G)

ies can be answered only in the pages of the magazine ry, we cannot reply to individuals in any shape or form Cover Disk problems, call Sam Hiah on = 0274 736990. or general ST problems, call the official Atari helpline on 31 332 93233 (Mon - Sat 6pm - 11pm, Sun 8pm - 11pm)

Publisher Stuart Anderton roup Publishing Director Greg Ingham Printed & bound in the UK by Chase Web Ltd, St Ives plc UK Distribution Future Publishing (= 0225 442244)
Worldwide Distribution MMC Ltd (± 0483 211678) **Circulation Director Sue Hartley** (# 0225 442244)

SUBSCRIPTIONS/MAIL ORDER **UTURE PUBLISHING, Somerton, Somerset** 11 6TB ■ = 0458 74011 ■ FAX 0458 74378

92 Future Publishing. No part of STF may be reproduced or re-sold without the written permission

re-sold without the written permission of our Published ISSN 0957-4859 ou contribute, the full copyright comes to Future Publishing. Letters are assumed to be intended for publication, so say if 're not. We may edit letters for reasons of space and clarity. three games! Tell us what the line on the spine this month hans. Write to the editorial address above by Monday 9 Nov

DUR GUARANTEE OF VALUE

magazine comes from Future Publishing, a company founded just an years ago (doesn't time fly!) but now selling more computer jazines than any other publisher in Britain. We offer:

ter advice. Our titles are packed with tips, suggestions and explana-features, written by the very best in the business.

onger reviews. We have a cast-iron policy of editorial ependence and our reviews give clear buying recommendations.

arer design. You need solid information fast. So our on-wielders highlight key elements by using charts, diagrams, imary boxes, annotated photographs, and so on...

ater relevance. At Future, Editors operate under two golden rules: derstand your readers' needs. tisfy them and then head for the pub.

re reader interaction. We draw on readers' contributions, resulting the liveliest letters pages and the best reader tips. Buying one of our pazines is like joining a nationwide user group.

ter value for money. More pages, more intelligent staff, better

Ulure

Home of Britain's finest magazines

• Sega Power • Your Sinclair Commodore Format • PC Plus • PC Answers • Amstrad Action Your Sinclair • Amiga Format Amiga Power • Amiga Shopper PCW Plus • PC FORMAT

ST FORMAT . Total!

ST FORMAT ISSUE 40 NOVEMBER 1992

nten

FEATURES

TALESPIN COVER DISK

Let your imagination run riot as you create whole new worlds with this adventure creator

30 BATTLEMANIA

The STF crew take a look at war and the ST. Never in the field of human conflict etc etc..

SAMPLE IT!

We roundup some of the better CDs packed full of off-beat samples.

FONT FRENZY

Paul Hughes continues his guide to getting more from your DTP package.

POOLING AROUND

Archer Maclean the itinerant programmer and erstwhile debutant talks to Andy Lowe about balls.

ST FORMAT 80 **GOES PUBLIC**

Find out about the show of the year and how you can meet the STF team!

All the hints and tips you're ever

this huge section.

glorious colour!

ST ANSWERS

GAMEBUSTERS

50

60

going to want bundled together in

The game players crib sheet. Now in

More of your probing techie problems

answered by our team of experts.

132 UPDATE OR BE DAMNED

Is it actually worth updating your favourite package? Clive Parker reveals all

136 MOVERS AND SHAKERS

We let a whole screech of cats out of the proverbial bag about who really controls the destiny of the ST.

REGULARS

COVER DISK

Copious numbers of funky, frilly, frothy and just plain handy programs for you to add to your collection.

NEWS

We reveal the games you'll be buying this Christmas. And everything else that's been going on in the ST world.

FEEDBACK

More moans, groans and consoling, intelligent answers. This month, the Falcon takes a front seat.

SUBSCRIBE!

Never have to go to the newsagent's again. Until you run out of crab paste anyway

MICRODEAL OFFER

Find out how to get hold of the chunky Talespin manual for a tenner and your very own sampler for a modest £15.

128 SPECIAL OFFERS

Invest in some new hardware or software at these fantastic prices, all with the ST FORMAT seal of approval.

138 OBJECTS OF DESIRE

After the salaciousness of last month's Falcon piccy we bring you er, something else. Well, have a look don't just take our word for it.

REVIEWS SECTION

Page upon page of exhaustive reviews start here This month we get to grips with two sequencers, a snazzy modem and a touch-up package for owners of scanners or digitisers. Oh - and there's a printing program, too

102 GAME REVIEWS

Look here for the funkiest game reviews in the galaxy - this month we cover loads of sports games, there's everything from olympic events to salad-tossing.

118 REDUCED TO CLEAR

Jon Pillar and Andy Lowe check out the latest budget game

121 PUBLIC SECTOR

How good are PD programs? We review the latest releases scores of the things.

126 LYNX ROUNDUP

In a new bit of the mag, we investigate games for the Lynx, Atari's handheld console. It most certainly is not just an



"SUNS THAT SET MAY RISE AGAIN...

But if once we lose this light, 'tis with us perpetual night." All of which goes to show that Ben Jonson (not the sprinter, the poet) had an ST and a copy of Trip-A-Tron, Jeff Minter's fabulous light synth. Evening sessions with an Orb album will never be the same again...



SEEN PLAN 9 FROM OUTER SPACE?

If you thought that was bad, wait until you see the game page 105





BIG CHEESE ROUNDUP

We profile the most important people in the ST world - flick to page 136

HOW MUCH DO YOU NEED?





Boy, have we crow-barred some goodies onto the Cover Disk for you this month! First up is the amazing Trip-A-Tron, the enormously powerful light synthesizer. We've also got the brilliant Cybernetix, a top notch Defender style arcade game. Add to that a superb mono emulator, a back-up utility and some new STOS STE commands and it makes this one of the best Cover Disks ever.

■ Suffering withdrawal symptoms from mindless blasting games? Check out *Cybernetix* and say "goodbye" to sleep.

REMEMBER: TWO'S COMPANY





No matter how much you enjoy a game, you're always left feeling you'd have done things differently. Well, now you can do things differently - in fact, you can do things from scratch. With Talespin you can fashion your own fantastic lands or more down-to-earth worlds peopled with humans or goblins. It's up to you, so perhaps it's time to turn that great novel you want to start into an adventure game!

Let your imagination run riot and then turn it into an adventure game with *Talespin*.



COVER DISK 40

The guide's voice dropped to a hoarse whisper: "...And now we enter the sacred area known as the Cover Disk pages."
Chris Lloyd asks some embarrassing questions from the back

Trip-A-Tron

BY: JEFF MINTER
RESOLUTION: LOW ONLY
FOLDER: TRIP

FILES: TRIP1.BWE, TRIP1.TOS,

RUN_ME.PRG

READ: README.DOC

GET STARTED WITH: SEE BELOW

This is a real stunner, a Shareware release of Jeff Minter's brilliant light synthesizer. It's not a traditional graphics program with static images or a sound-to-light system, but more of an instrument in its own right producing constantly changing waves and harmonies with light rather than sound – the whole thing's seriously groovy.

It uses its own eight channel parallel programming language KML to work its magic. You can edit everything – patterns, wave forms, palettes, starfields – the lot. If you've 1MByte or more of memory there's a sexy video sequencer, too. Because the program's

THIS MONTH'S MODELS

TRIP-A-TRON

ENIGMA

Mammoth powerful and seriously psychedelic light synthesizer.

Page 6

CYBERNETIX
Top notch arcade outing with loads of interesting things to blast into total oblivion.

Page 9

Simulation of the devilish cypher machine, scramble

that text into the impenetrable zone. See also Battlemania on page 30.

Page 9

Excellent mono emulator so you can use that high res only software on any screen.

Page 10

AUTOZEST

Add a slick interface to *GFA Basic* progs, no problem.

Page 10

STOS STE EXTENSION

Enables STOS to get at the E in STE with a whole set of new commands.

Page 10

PRO 12

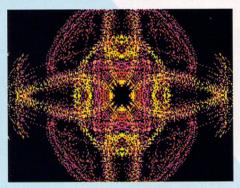
MIDI instrument test song for Steinberg's sequencer, *Pro 12.*

Page 12

BACK-UP

Trouble-free back ups no problem.

Page 12



■ Trip-A-Tron in action, imagine the pattern constantly changing, flowing like water effortlessly from one shape to another, the colours cycling and flashing all hues of the rainbow. Sounds good, looks even better.

so big with its example files we've compressed everything. Get a spare disk ready and run RUN_ME.PRG from the Cover Disk. Insert your new disk when prompted and press <Return>. The new disk is then formatted and *Trip-A-Tron* is decompacted on to it. Now run TRIP.PRG from your new disk and off you zoom. It loads in a set of palettes, patterns, waveforms and KML programs as a default, so you can get going straight away.

Press the left mouse button to select mouse control, then, after a spot of loading, the control panel pops up. Press <Esc> to get rid of it and wiggle the mouse around – the little dot on-screen moves. Now press down the left button as your wiggle him about. Wow, flowing iridescent graphics. Try pressing the

number keys on the main keyboard to change the palette. The cluster of keys holding the cursor keys controls the symmetry of the display – try pressing them and changing it around. Various pattern modes are mapped to the letter keys – experiment.

If things get too hectic or messy the Spacebar acts as a panic button and resets things. Pressing <F10> loads in the second set of demo KML programs with sexy laser and starfield effects – some of these respond to mouse control, but some don't. Try a few of the letter keys to set them going. To find out which keys have KML programs assigned to them, click on the KML icon with the left button and a picture of an ST pops up the relevant keys marked in red. Once you've been wowed by the psychedelic display, press <Esc> and be awed by the mass of icons and functions. This is a monster of a program.

Along the bottom is a row of icons with red backgrounds that control some of *Trip-A-Tron's* functions. Clicking with the left button toggles them off and on and the right button enables you to edit some of them. You can test out the results of the changes immediately in the top half of the screen.

For best results you should play *Trip-A-Tron* in a darkened room while you're listening to your favourite music. The demo files are ready to roll as soon as you load the program, giving you a taster of *Trip-A-Tron's* abilities. It can do much much more, though. Read the text file README.DOC for more information on getting going and registration details for this monstrous experience of a program.

READ THIS FIRST

To keep your STF Cover Disk safe, write-protect it by moving the black tab so you can see through the hole. Nothing can now be written to your Disk. Write-protection also keeps your Disk safe from viruses.

Map and compass
Space on Cover Disk pages is limited, so you may find text files on the Disk. These have the file extension .DOC. It's always a good idea to

read these for more information on the program. Double-click on them and select Show to display the text. If text disappears off the screen when you try to read a DOC file in low resolution, change to medium resolution and try again.

Elephant gun

To keep your *ST FORMAT* Cover Disk safe you should make a backup, so if anything goes wrong you still have the original. Because

we use a special disk format to squeeze programs on to the Disk, you can't do a direct disk to disk copy. But we've made life easy for you with this Back-up program. Follow the instructions on page 12 and you can't go wrong. Now there's no need to risk damaging or losing your disk again!

Some programs are com-pressed to fit on the Disk and cannot be run directly from it. Follow the instructions in these Cover Disk pages and everything is sure to come up roses.

Natives go AWOL

ST FORMAT uses a double-sided disk format. If you only own a single-sided drive you can't read STF Cover Disks, or virtually any current software. This is because singlesided drives are obsolete. We brought you a guide to fitting internal drives in STF32 - turn to page 58 to order a copy if you missed it.

TRIPPING THE LIGHT FANTASTIC

Trip-A-Tron is an incredibly powerful program with more buttons and parameters than you can shake a whole bundle of sticks at. Here's a guided tour through the main screens

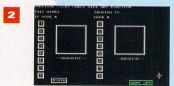


5

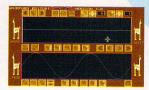
■ DISK ACCESS: select the drive and file type, then click on one to select it.



■ SILLY SCOPE: controls the laser effects - click on blue buttons to activate.



■ MIDI SETUP AND TEST: synchronise and test your MIDI connections here.



WAVEFORM CONTROL: you can build up and edit new waveforms here.



■ SEQUENCER: powerful internal event recorder for your KML programs.



OSCILLATOR FX: enables you to attach oscillators to different cursor positions.



■ GLOBAL PARAMETERS: you can change the decay of trailback patterns here.



■ PATTERN EDITOR: edit the expander, decay and line patterns here.



> COLOUR COOKER: you can set, change and rotate any of the 200 palettes.

COLOUR CHANNELS: Palette interlacing gives the illusion of more than 16 colours on-screen.

SHEAR: takes the display, reduces it in size then shears it vertically.



STARFIELD FDIT: needs 1MByte to run. You can test starfield settings here.

■ PRE-SYMMETRY: this enables you to set the symmetry for the main drawing routines.

RESIZE: the display can be reduced and resized on up to 14 windows. Click right button to use.



KML: each KML set consists of 128 different KML programs for you to try.

REMAP: you need a map in the memory to use this. Press the right button to enter a selected map.

POST-SYMMETRY: works like pre-symmetry, but changes the results of other effects.



11

■ VIDEO SEQUENCER: create and manipulate animation sequences here.

■ CUBIC REMAP: a zappy function which enables you to remap the display on to a cube.



a 68030 CPU 16MHz - 3.84MIPS, Possible 262144 Colours, Graphics Co-Processor, Super VGA: 640x480 - 256 Colours, slour 16Bit Mode: 640x480 - 65536 Colours, True Colour verlay Mode: 640x480 32768 Colours, SCSI Ports, Stereo n/Out, Analog RGB Colour [ST or VGA], Composite PAL-SECAM-SCART, RS232 Serial, Bi-Directional Printer Port, Out, 2 x Joystick Ports, 8 Channel 16Bit DMA Sound Port, CH MORE.... This is the one you've been waiting for...

Disk Drive with 3.5" Drive, 65Mb, Hard Mh Version Drive, 4Mb, Version reat New Atari New Power Atari

A TARI 1040STE mily Curriculum Wo Great Learning Packs

PACKS CONTAINS. 40STE Keyboard, 1024K RAM, 256K ROM, 4096 Colours, s inc. MIDI, 8-BIT PCM Sound in Stereo, 1Mb. Floppy sk Drive, Mouse, External Genlock support, Built-in dulator PLUS... Some Great Educational Software:

Learn For younger members of the family, fun learning! School Maths, Spelling, General Knowledge for Juniors. Revision Maths, French & Geography for GCSE levels. ve Computing Paint, Music & Basic programes.

1: The Business all the above plus... Processor, Database, readsheet

reat Value...

PACK 1: Great Games contains all the above plus... Two great games: 9 Lives and Prince

Great Value...

A TARI 1040STE

Jusic Master Pack

'The Melody Maker' INS

40STE Keyboard, 1024K RAM, 256K ROM, 4096 Colours, s inc. MIDI, 8-BIT PCM Sound in Stereo, 1Mb. Floppy

sk Drive, Mouse, External Genlock support, Built-in dulator PLUS... A MUSICAL SOFTWARE GREAT: STEINBERG PRO 24 III ack Recording, MIDI, Quantising, Score Edit,

Edit, Cycling, Step Programming, UNDO, r Track, Controller Mapping...BRILLIANT! eat Value...£289

ATARI 520STE Starter Pack INS

OSTE Keyboard, 512K RAM, 4096 Colours, Stereo, 1Mb. 3.5" Disk Drive, Mouse, Built-in TV Modulator PLUS... STE SOFTWARE:

ctivity Disk 1st Word WP, Neochrome Paint, ANI ST, Self Test Utility, Calendar, RAM Disk Accessory.

ainment Disk Missile Command, Crystal Castles, reakout, Battlezone,

Disk STE Language Disk

x Version £2

ARI 520STE 1Mb **US Starter Pack**

Atari 520 STE Starter Pack above but upgraded by Atari tion to A FULL 1Mb. RAM MACHINE and also e of Family Curriculum software as follows l Learn Pack - Jumior School Pack - GCSE Revision Pack ess Computing Pack - Creative Computing Pack

MBER... You still get all the software [ie, Productivity, nment and Start Disk] as included in the 0.5Mb. pack too!

Natur... £289.99

Atam Peripherals Atari Lynx BATMAN RETURNS pack now The FALCON is coming!

The State of 9 240 150/38 8 4 80 £134.99 9 240 185/40 8 16 80 £194.99 stair LC 20 Mono 24 360 230/75 10 16 80 LC 200 Colour LC 24-200 Mono 24 360 220/55 10 7 80 £219.99 LC 24-200 Colour 24 360 220/55 10 30 80 £264.99 XB 24-200 Col(*) 24 360 275/80 18 29 80 £Phone XB 24-250 Coll 3 24 360 275/80 18 76 136 SPhone

Att Card Card Park 81 £129.99 2 4 80 9 240 120/25 £179.99 80 9 240 160/40 120D+ Mono £184.99 SWIFT 9 Mono 160/40 240 £Phone SWIFT 9 Colour 24 360 160/53 £Phone 224 Mono 24 360 160/53 24 360 180/60 7 8 80 £Phone 224 Colour £Phone 7 8 80 SWIFT 24E Mono SWIFT 24E Colour 24 360 180/60

OTHER TYPES CITIZEN OF PRINTERS STAR SJ 48 STARJET PRINTER | 52.39.1

Near silent likigt Printer similar to BJ10e but with Epson
LQ/IBM Proprinter emulations. 360dpi. 100cps. 28K Buffer. CITIZEN PN48 NOTEBOOK PRINTER (♦) £269.99 £769.99 STAR LASERPRINTER 4[*]

Postscript compatible laser printer...Brilliant Quality Print!

GENUINE RIBBONS tair £27.95 £19.95 £59.95 £12.49 Star LC10/20 £29.95 £59.95 £6.49 Star LC200 Star LC 24/200 £32.99 £59.95 £12.99 £32.99 £6.99

Star XB Printers 120D+/Swift9 £76.95 £16.45 €4.99 124D/Swift24 Swift9/24/224/24E GENUINE ACCESSORIES

CITIZEN STARTER PACK

200 - Sheets of Continuous Paper, 5 - Continuous Envelopes, 100 - Cont Address Labels, 1 - Amiga/Atari ST Printer Driver 3.5" Diskette

WITH EVERY PRINTER (EXCEPT THOSE MARKED WITH AN [�]) YOU

WILL GET THE FOLLOWING INCLUDED QUALITY DUST COVER

2 PART PRINTER STAND LEAD TO YOUR ATARI

REE ENTRY INTO THE MERLIN PRIZE DRAW With each hardware

EUP DISNE receive a FREE ENTRY form* for our Euro Disney Holiday Competition

*Full Details available on written request to
Merlin Express Ltd. Please include a SAE.
Euro Disney is the Copyright of The Walt Disney Corpor

ST SECOND DRIVES

CUMANA CSA 354 3.5" Second external drive with throughpor and extra long cable.

ROCTEC 5.25" DISK DRIVE 5.25" Floppy Drive, 360K, 48/96TPI, complete with PSU and connection cable

£109.99 (rrp £129.96)

£69.99

PURCH

PRINTERS

Citizen 240 - Mono... 24 Pin, 80 Col, £249.99 200cps/66cps, 9 LQ/2 Scaleable Fonts, 8K Buffer Citizen 240C - Colour Vers of above...£269.99

Citizen 200 - Mono...24 Pin, 80 Col, £219.99 180cps/60cps, 6 LQ Fonts, 8K Buffer, Colour Option Citizen 200C - Colour Vers of above... £Phone Star LC100 - Colour... 9 Pin, 80 Col, £164.99 180cps/45cps.8 Fonts.

Star LC24/100 - Mono ... 24 Pin, 80 Col £189.99

ATARI SUNDRIES

MOUSE MAT High quality, save your mouse from dirt!

DUST COVER HIGH QUALITY vinyl covers for hardware.

Atai keyboard, printers, monitors etc, etc.
DISK STORAGE BOXES High quality, smoked perspectable, complete with divides in two capacities. Sep Capacity DISK LIBRARY CASES Plastic case for 10 disks, 3.5° PRINTER STANDS 2 Part plastic, paper fits under.
ATARI CONTROL CENTERS

Metal stands for K/Board, Monitor, 2 Disk Drives.

Metal stands for K/Board, Monitor, 2 Disk Drives.

AKSHA SCANNER The one you've been waiting for!

NAKSHA SCANNER The one you've been waiting for!

NAKSHA MOUSE-Free Operation Stealth while stocks last

SQUIK MOUSE Budget priced... but GREAT quality

ATARI SOFTWARE...Games, Educational and Business software is al

available at discounted prices please phone & ask for prices.

ATARI BOOKS...Covering everything Ataril Phone for details

KONIX SPEEDKING MECAPACK...

KONIX SPEEDKING MOYSTICK with FOUR GREAT GAMES!!

KONIX SPEEDKING JOYSTICK with FOUR GREAT GAMES!! £29.99 £16.99

KONIA SPEEDANNO DISTREM WHILFOOK ORGAN TREASURE Island Dizzy
OUICKJOV IL...Auto-Fire, Stainless Steel Contact Switch
21.99
ZIPSTICK...Auto-Fire, Microswitched,
\$11.99

PLUS LOTS OF OTHER ACCESSORIES TOO MANY TO LIST!!!

MORE ATARI PRODUCTS

ATARI PORTABLE ST BOOK COMPUTER

FANTASTIC NEW PORTABLE FROM ATARI FEATURING..

FEATURING...
Small Footprint: 8.5" x 11.4" x .25" thk, TRULY PORTABLE
20Mb. Built-in Hard Drive
Weighs in at ONLY 4.2lbs
Up to 10 Hrs battery life [charger optional] Supplied with File Transfer and Organiser software Optional FAX modem due to be released soon!

AVAILABLE SOON!!! £1149.99

ATARI PORTFOLIO POCKET PC ORGANISER

With address & telephone book, calculator, text processor, £129 diary, Lotus 1-2-3 compatible spreadsheet, & PC compatible New for data transfer. A vast selection of accessories available,

ATARI PORTFOLIO SOFTWARE AND PERIPHERALS...
Phone for a detailed listing of all these great Portfolio products

NEW ATARI MEGA STE RANGE - Available soon!!! MEGA 2 STE - 2Mb. RAM, 3.5" Disk Drive

The incredibly powerful Atari TT range is a true professional work station compatible with most ST software, but with fantastic speed! station companies with most 31 Survaire, but with ramastic lideal for graphic intensive applications such as CAD, studio animation and DTP.

ATARI TT With 2Mb. RAM, 3.5" Floppy Drive

ATARI TT With 4Mb. RAM, 3.5" Floppy Drive

HARD DRIVES FOR MEGA STE'S & TT's

WHY NOT ADD A HARD DRIVE TOO!!!

ADDITIONAL 52Mb. QUANTUM SCSI Hard Drive ADDITIONAL 120Mb. QUANTUM SCSI Hard Drive ADDITIONAL 240Mb. QUANTUM SCSI Hard Drive £519.99 ADDITIONAL 420Mb. QUANTUM SCSI Hard Drive 1979.99
In order to fit the Hard Drive you will need to INCLUDE for a fitting kit & fitting/installation by Atari Agents to retain the Atari Warranty! For the Mega STE add £78 fitting For the TT range add £74 fitting

GENUINE ATARI PERIPHERALS & ACCESSORIES
ATARI MEGAFILE 30 HARD Drive for STs, 30Mb. £279,99
ATARI MEGAFILE 60 HARD Drive for STs, 60Mb. £339,99 GENUINE ATARI MONITORS

ATARI SM 124/144 MONO 14"HIGH RES. MONITORS Phonatari SC 1435 STEREO COLOUR 14" MONITOR £209.99
ATARI PTC 1426...
COLOUR 14" MULTISYNC MONITOR TT's £379.99

GENUINE ATARI SOFTWARE NEW SERIOUS SOFTWARE PACKS FROM ATARI

INTRO TO: £24.99
WORD PROCESSING, Contains: Calligrapher Light
INTRO TO: £24.99
SPREADSHEET MANAGEMENT. Contains: Masterplan
*INTRO TO:
SOUND & MUSIC, Cont er Master+

17.00 TO: ## 19.90
Contains: PERSONAL FINANCE Contains: PERSONAL FINANCE Contains: Pers. Finance Manager+, Datafast |
17.00 TO: ## 19.90
17.00 TO PROGRAMMING, Contains; Clock & Calculator, Works, Saved, Archive, Superbase Personal

*Require an ST or STE with a D/S drive and 1Mb. memory PLEASE PHONE FOR DETAILS OF ANYTHING NOT LISTED WE'D BE DELIGHTED QUOTE YOU!!! MERLIN SORCERORS PACKS

in stock at Merlin

ST STARTER PACK Mouse Mat, Dust Cover, Ten Blank Disks in a £19.99
Plastic Library Case, Quickjoy Joystick...

ATARI 10 GAMES PACK
Actoriv Chace Planer 21 St. Drivin' Forms \$24.99 AT ARC IV GAINES PACK
Asterix, Chess Piger 2150, Drivin Force,
Skweek, Live & Let Die, Onslaught, Pipemania,
Rick Dangerous, Rock-n-Roll and Trivial Pursuit

ST 'TERRIFIC TEN' PACK £29.99

Saint & Greavsie Trivia, Spy v Spy III, Turbo ST, Hammerfist, The President is Missing and A Question of Sport. NOTE! the above prices are based on purchasing WITH an Alari

PHILIPS

CM8833/II COLOUR MONITOR

14" Stereo Colour Monitor with Green Screen Switch AND...
Free Dust Cover and Computer Cable With 12mths, on site maintenance

Monitor Dust Cover £5.95 Quality Bound Vinyl Univ.Monitor Stand £12.95

PHILIPS

TELEVISION MONITORS TELEVISION MONITORS

A great alternative to a dedicated monitor
that allows you to watch TV programmer of
that allows you to watch TV programmer of
the WHILLES RANGE OF TV SETS WITH ALMOST MONITOR
AND ADMINISTRATION OF TV SETS WITH ALMOST MONITOR
AND CHARACTER OF THE SETS WITH ALMOST MONITOR
THE STATE OF THE SETS WITH ALMOST MONITOR
TH



ll items are despatched by post to all UK Mainland addr unless otherwise discussed. Hardware is despatched by o SKg) as follows: NEXT WORKING DAY... add £7,30 to DAYS...add £6, or for SPECIAL SATURDAY DELIVERY.

rlin are happy to supply BFPO and export markets for which luctible. Delivery charges vary from UK rates and, as product tranties only, faulty items are to be returned to Merlin by cus



IT'S COMPLICATED

To exploit the full potential of a program like Trip-A-Tron vou really need the manual - a comprehensive quide through all the wibbly features

Registration costs only £10. Make your cheque payable to Llamasoft and then send it to: Llamasoft, 49 Mount Pleasant, Tadley, Hants RG26 6BN. For your money and honesty you get the full manual and either the fixed STE version or one of Mr Minter's most excellent games.

What's a fixed version? This Shareware release has one small bug in the file selector which has been sorted in the fixed version. Wanna get involved in the swirling experience? Then get registered.

MULTITUDE OF FILES

Trip-A-Tron uses a large number of different file types to load and save data. You can select each one of these from the menu screen on the Cover Disk

BAA: RLE stashes. EWE: macro load files. KML: program sets.

MAP: screen re-mapping files. NEO: Neochrome picture files. PAL: all of Trip-A-Tron's 200 colour palettes as well as the nine colour channels. PAT: all pattern data. PI1: Degas Elite picture files. PRE: global parameter banks and resize windows. RLE: Trip-A-Tron's compacted picture files. WAV: the eight system wave-

forms.

YAK: sequencer data.

Cybernetix

BY: PAUL ANDREWS AND RODNEY SMITH FOI DER: CYBER

RESOLUTION: LOW RESOLUTION ONLY

FILES: CYBER.TOS

GET STARTED WITH: CYBER.TOS

One of the reasons you invested in an ST was to play games. No matter what other serious thing you use it for - sequencing or word processing or whatever - every now and again you'll fancy a quick blast. Cybernetix is a blast and a half.

The action is fast and furious as your spaceship takes on wave after wave of aliens making lovely exploding sounds. It's joystick controlled and reminiscent of Defender without the little men to rescue. The aim is simple enough, just waste everything in each sector

before moving on to the next. On some levels there are meteoroids which, after you've blasted them, release a blue crystal - pick this up for bonus points. If an enemy grabber gets two of more of these and you zap him, a power-up is left behind. Pick up this little icon with your ship to increase your ship's abilities. But beware - if you take too long clearing a level, more ships appear, including the deadly assassin which zooms about at a frightening speed shooting at you. To give you a fighting chance you get smart bombs which zap everything on-screen - hit the Spacebar to let one of these off. At the top of the screen is your scanner showing the positions of all the ships on the level - the assassins appear in red here, so keep your eyes peeled for them.

You need quick reactions and an itchy trigger finger to get far up on the high score table but you're going to have a thumping good blast trying. One small bug means it won't always work properly on 4MByte STFMs, but reducing the memory of your machine with Memset from STF 36's Cover Disk can sort that out. If you don't have a copy of that issue, turn to page 58 to get hold of it.



■ "Hello Mr. Big Ship, er, sorry about shooting all your little friends - I don't know what came over me, rest assured it'll never happen again. Honest, Please stop shooting me."

Enigma ST

BY: DAVID GUEST RESOLUTION: HIGH OR MEDIUM FOI DER: ENIGMA

FILES: ENIGMAST.PRG, ENIGMAST.DOC ROTOR_1.ROT, ROTOE_2.ROT, **ROTOR 3.ROT, ROTOR_4.ROT**

READ: ENIGMAST.DOC

GET STARTED WITH: ENIGMAST.PRG

Imagine the scene, a band of hardy British agents shelter in a small cave deep behind enemy lines huddled around a small radio receiver concealed in one of their boots. The voice of the BBC announcer cuts through the static with a vital message. "The banana will be visiting the garden party after lunch." Unless you want everybody to know your business, then the best way of keeping things hush-hush is code - pre-arranged signals that are impossible to crack without inside information. Not a lot of use if you've lots of messages to transmit quickly, for that you need cyphers. Cyphers transpose one letter of the alphabet into another using a set of rules. Get some clever boffin to sit down and think hard and you can crack it. During WW2 the Germans came up with an ingenious piece of equipment. This was known as the Enigma machine and it mechanically scrambled top German secrets into gobbledy-gook using a series of rotors to transpose characters. The cypher was so complicated nobody was ever expected to crack it. On this month's Cover Disk is a complete simulation of the cyphermaking wonder. With it you can encrypt text so deeply it would take a whole team of clever-clogs ages to begin to unravel it.

Open up the ENIGMA folder and run ENIGMAST.PRG to get going. When first loaded, the program loads in the default set of rotors - you can configure your own, just to make things really difficult. Enter text from the keyboard and watch it being translated before your eyes, or convert a text file from disk. Output can also be diverted to a text file.

Right, got a secret message that you want to keep safe from prying eyes but needs to be saved to disk? Select Keyboard from the Input menu and Disk from the Output menu, then give your coded message a suitable name - SECRET.DOC, for example. Now type away and on-screen you can see the cyphered message. Press <Delete> when you're done. At the top of the screen the positions of the rotors are shown. To successfully translate a message into something intelligible, these must be set at the same start points as when the message was coded. This is done from the Initialise option in the Process menu. For some reason you can't initialise the rotors on the Space character which is the default position when the program first loads, so it's best to initialise the rotors to another character first. Armed with Enigma ST, any text file can be protected without using complicated file scrambling. Got any real juicy secrets? Well there's a rumour that YUKJSIKJOOIJHIAJH. No wonder their eyes look funny.



■ The Enigma cypher in action. This mass of seemingly random characters is, in fact, the dving words of a 13th Century guru who explains exactly what this life business is all about. Amazing stuff, eh?

Sebra

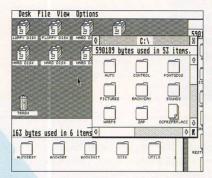
BY: PATRIK PERSSON FOLDER: SEBRA FILES: SEBRA.DOC, SEBRA.PRG READ: SEBRA,DOC GET STARTED WITH: SEE BELOW

Your ST is blessed with three resolutions - low, medium and high. High resolution boasts an impressive 640 x 400 pixel display in mono. It's popular with serious applications and utilities. Unfortunately you need a special monitor for to get high res, so you might not think it's worth the bother if you just want to run the occasional program. The solution is to use a mono emulator which simulates the high resolution display in medium resolution so you can use any colour monitor or television. Sebra is one of the better ones about - it's faster and more compatible than most. It's not going to run everything faultlessly, but it should stand you in good stead.

You need to run Sebra from an AUTO folder, so get a disk and create a

folder called AUTO from the file menu, copy SEBRA.PRG into it and turn off your machine for a minute, then back on with your new disk in the drive. A little message pops up telling you Sebra is ready for action.

You're now ready to enjoy a double-sized Desktop and all those high resolution-only programs and utilities lurking in your disk collection. Magic.



■ The high resolution Desktop displayed in medium resolution on a colour monitor - the wonders of emulation. This is Sebra's shaded mode, it's fairly clear and displays the full screen.

Sebra keyboard matters

While Sebra is working you can adjust things from the keyboard. Hold down the <Control> and <Alternate> keys together with the following:

<(>: Shaded mode, the full screen is represented in three colours. Slow but gives best overall view.

<>>: Fast mode, displays the full high resolution screen simply by missing out every other line.

</l>
 Magnified mode, displays 200 of the 400 lines of a high resolution screen. By moving the mouse you can scroll vertically to reach the other 200. If you have a blitter, turn it off first or you may experience a horrible crash.

<1>, <2> and <3>: Sets the amount of processor time set aside for emulation. <1> being the least, giving a rather jerky display but the programs run faster. <3> gives the smoothest display but the programs run slower. <2> is a compromise.

<0>: Inverts the display.

<Enter>: Changes the colours used from a choice of four fetching shades.

<Delete>: Resets your ST

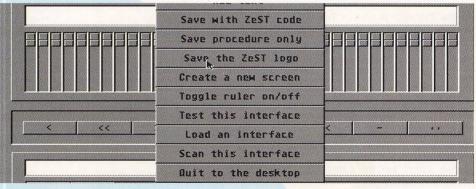
Auto ZeST

BY: DAVID BECKER
RESOLUTION: HIGH ONLY
FOLDER: AUTOZEST
FILES: ENTRY.LST, README.DOC,
AUTOZEST.PRG, DEMO.ZST
READ: README.DOC
GET STARTED WITH: AUTOZEST.PRG

If you are looking for a slick interface to add to your *GFA Basic* programs, look no further. *Auto ZeST* makes the creation of buttons, sliders and windows easy as pie. It's influenced by the dead sexy NeXT machine. It saves you from the complexities of GEM programming, enabling you to design your interface on-screen and save all the code needed to run it ready to be merged straight into your program giving you an instant professional-looking feel. *ZeST* features buttons, windows, text boxes, info boxes, line boxes, lines, sliders and platforms. Run AUTOZEST.PRG and

after the title screen you are presented with a blank screen – press and hold down the left mouse button. A dotted line shows the outline of your function. Releasing the button brings up a menu so you can choose what feature you want. Simple – in no time you can build up your screen. Pressing the right mouse but-

ton brings up the main menu. From here you can load and save your interfaces and test out the ones you've created. There is an example interface to load in and take a butcher's at – there's also a comprehensive text file explaining everything. Right then, there's no excuse for sloppy interfaces, is there?



■ AutoZeST can add its own distinctive and polished interface to any of your GFA Basic program with the minimum of fuss. The whole thing is really rather spiffing.

STOS STE Extension

BY: ASA BURROWS
RESOLUTION: ALL RESOLUTIONS
FOLDER: STOS_STE
FILES: STE_EXTN.ECF, STE_EXTN.EXF
READ: STOS_STE.DOC
GET STARTED WITH: SEE BELOW

Back in the heady days of STF 32, we brought you a new extension to the STOS

Basic language that enabled you to get at all the juicy new features of the "E" part of the STE. Unfortunately a sneaky little bug crept into the code when nobody was looking causing a funny screen offset – annoying but harmless. Skilled operators were called in and the bug has been tracked down and deported to where it can't do any harm.

The extension enables you to use the STE's extended palette of 4,096 colours, stereo DMA sound, hardware scrolling and plenty of other goodies. If you missed out on the copy of *STOS* that was proudly stuck to the front of *STF* 37, then you missed a real

treat - turn immediately to page 58 to get yourself a copy.

One of the strengths of STOS is the way in which new extensions can be added to give you new commands. All you have to do to add these STE beauties is copy the file entitled STE_EXTN.EXF to the STOS folder of your language disk and STE_EXTN.ECF to the Compiler folder if you have that, too. Use your backups, not the original disks.

Next time you load up STOS, all the new commands are yours to play with. Full details of the new commands are in the text file STOS_STE.DOC.



medal in under 10 seconds. Acorn, too, has left its competitors standing by launching its new 32-bit computer range - starting from under £500.

The new computers, from a family learning and entertainment centre to the comprehensive home office, are awesome in speed, power and ease of use. Indeed, they are in a class of their own.

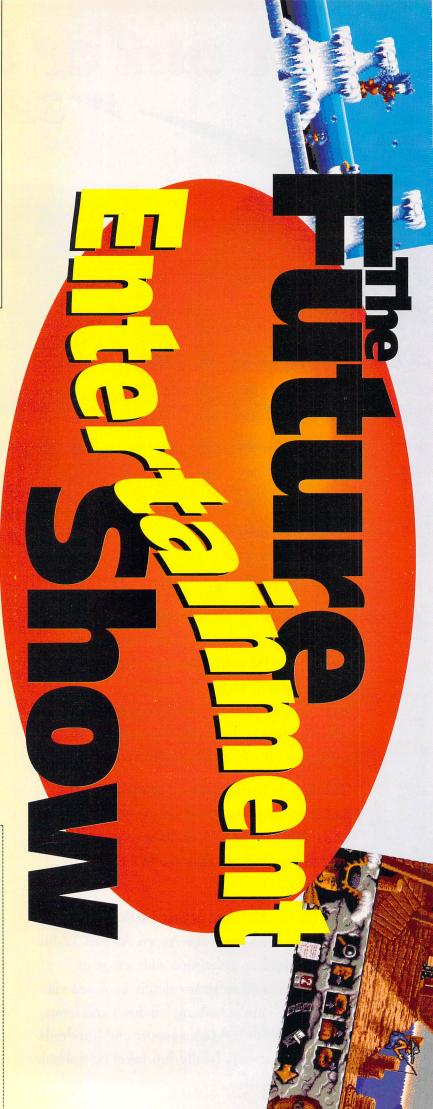
The Family Solution, at just £499 including VAT, has at its heart the Acorn A3010 32-bit RISC computer, offering a wide range of applications and software simply accessed via the system's multi-tasking windows and icons, in colour. With joystick support and hundreds of available games, family fun takes on a whole new dimension!

- 3 Button Mouse
- TV Modulator connect directly to your TV
- EasiWord word-processor
- Quest For Gold exciting athletics simulation

Post the coupon by FREEPOST or call us now on FREEFONE 0800 67 88 88 to see how you can harness the energy of Acorn's new 32-bit power generation.

Acorn 32-bit computer range the new power generation.

Send this coupon to: Acorn Computers Ltd, FREEI Middlesex TW8 8BR.	POST TK960, Brentford,
NameAddress	FS-SF-11
Postcode	Acorn



Quids in

Get smart. Getting on for 100,000 people are expected to attend the **Future Entertainment Show.**

You know what that means: Queue City. So avoid all the foot-shuffling, hanging-around-for-ages start to the Show by booking your tickets early.

And you'll even **save money!** Bit of a barg, really. Do it now, otherwise you'll

YES I would like to have my tickets early, avoid all the queues and save £1.05 on every ticket, please.

only forget and then regret it later when

you're really cold and – (Snip! - Ed)

Adults £5.95, Under 14s £3.95.

Call the credit card hotline on 051-356 5085 or fill out the coupon on the right

Imagine no more.

We've got 'em all at the Future Entertainment Show.
Miss it and have nagging doubts for the rest of your life...

What's what

When? November 5-8, 9.30am-5pm (4pm Sunday)
Where? Earls Court, heart of London
What? Sega, Nintendo, Amiga, PC, ST games
How much? £7 adults, £5 Under 14s (but see Quids In bit)
Why? Just why not?

Tickets

S /

ш	
7	5
4	2
æ	\simeq
7	_
0	
=.	
_	==
7	$\overline{}$
=	P
1	+
=	0
	_
2	0
7	=
0	5
5	E
а	D
\supset	0
0	<
10	۵
Č,	_
2	0
0	D
	_
1	₩.
_	×
0	(ii)
U	+
	S
O	1
e	0
_	7
₫.	_
0	5
~	P
Entertainment Show and save £1.05 per ticket.	would like to order advance tickets for the Future
-	<u>-</u> '
CTY.	7
	=
	0

Please send me ____ adult tickets at £5.95 each

Please send me ____ under-14 tickets at £3.95

Total Payment f_____

Method of payment _______ Visa
Please make all cheques _____ Access

Card number

FUTURE ENTERTAINMENT SHOW PO

payable to:

Name______Address______

Send this form to: FUTURE ENTERTAINMENT SHOW PO Box 2, Ellesmere Port, South Wirral, L65 3EA

Post code





RAINBOW COLLECTION 9.99





WHEELS OF FIRE COMPILATION FISTS OF FURY COMPILATION 7.99 9.99



9.99

POWER UP COMP MURDER!



UTOPIA 11.99



14.99

DNGN MASTER + CHAOS 16.99



RUGBY WORLD CUP THUNDERHAWK



MAN UTD EUROPE FLAMES OF FREEDOM 9.99



WONDERLAND

13.99



F15 STRIKE FAGI F 2 11.99



6.49

11.99 13.99





9.99















8.99











3.99

POWERDRIFT



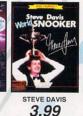














10.99

11.99



8.99



11.99

8.99

13.99

VESOME 9.99
AL 3.99
AL 3.99
IRBARIAN 2 (PSYGNOSIS) 16.99
T 2 22.99
TTLE ISLE 19.99
TTLE OF BRITAIN DIS. 19.99
TTLE OF BRITAIN DIS. 19.99
US 20RK (INFOCOM) 5.99
US AS BOTHERS 19.99
BEACH 2 (ENHANCED) 16.99
EACH 2 (ENHANCED) 18.49
DAVER LEVELS - THE

APTIVE 6.59
ARI LEWIS TRACK & FIELD 16.99
ARRIER COMMAND 7.99
EASAR 19.49
ELTIC LEGENDS 19.99
HAMPIONS (MANCHESTER TO, BOXING MANAGER, KHANN SOUASH) 12.99
HAMPIONSHIP MANAGER 16.99
HAMPIONSHIP MANAGER 16.99
HAMPIONSHIP MANAGER 19.99

AOS ENGINE
ART ATTACK (LOTUS
PRIT, GHOULS 'N' GHOSTS,
MES POND, VENUS THE
V TRAP)

ORPORATION
ORRUPTION (M/SCROLLS)
DVERT ACTION
MAZY CARS 3
RUISE FOR A CORPSE
GENERATION
AILLY SPORTS COVER GIRL
DVER

ILY SPORTS COVER GIRL
KER

JA VU

LIVERANCE

UTEROS

SCOVERY - IN THE STEPS

COLUMBUS

JO DAN

NGEON MASTER & CHAOS

19 STEALTH FIGHTER 14.99
ABLES & FIENDS-LEGEND F KYRANDIA. 19.99
ANTASY PAK (COLORADO. 05TON BOMB CLUB. 75TON BOMB CLUB. 75TO

RIKES BACK 'NA BLASTERS ..

MES POND, VENU
Y TRAP)
HUCK ROCK......HUCKIE EGG 2
DOL CROC TWINS

..11.99

..17.99 ..18.49 ..13.99

...15.99

....2.99 ...15.99 ...16.99

17 FLYING FORTRESS ..

IRBARIAN 2 (PSYGNOSIS), T2 ...
T1 E. ISLE ...
TTLE ISLE ...
TTLE OF BRITAIN D/S ...
YOND ZORK (INFOCOM) ...
UE MAX ...
UES BROTHERS ...
NANZA BROS ...
IEACH 2 (ENHANCED) ...
DAVER LEVELS - THE Y OFF

Atari ST Software Atari ST Software

D CONSTRUCTION KIT 14.99

WHEEL DRIVE (LOTUS ESPRIT

URBO, TEAM SUZUKI, TOYOTA

ELICA, COMBO RACER) 19.49

200 AN ELICA, COMBO RACER) 19.49

201 AN ELICA, COMBO RACER) 19.49

201 AN ELICA, COMBO RACER) 19.49

202 AN ELICA, COMBO RACER 19.49

203 AN ELICA, COMBO RACER 19.49

204 AN ELICA, COMBO RACER 19.49

DRACH ST 19.50, DOUBLE 16.99

DI ENGLISH (11-12) 16.99

DI MATHS (12-13) 16.99

LIR BUCKS PREMIACY

17.91

ZUNSHIP, SIENT SERVICE, 47.715 STRIKE EAGLE, 15.99

LCATRAZ 15.99

NOTHER WORLD 19.98

RIANOID 2 7.99

RIANOID 2 7.99

RIMOUR-GEDDON 9.99

10.99

3.99 FISTS OF FURY (DYNAMITE DUX, NINJA WARRIORS, SHINOBI,

HOME ACCOUNTS 2

HUMANS 15.99
AN BOTHAM'S CRICKET 19.49
AN BOTHAM'S CRICKET 19.49
AN BOTHAM'S CRICKET 19.49
INDIANA JONES 2 ADVENTURE
(FATE OF ATLANTIS) 19.99
INDIANA JONES 2 ADVENTURE
(FATE OF ATLANTIS) 19.99
INDIANA JONES ADVENTURE 8.99
INDIANA SERVICE 8.99

LEMMINGS DATA DISK - OH NO! 9.99
LIFE AND DEATH 16.99
LOMBARD RAG RALLY ... 7.99
LOTUS TURBO CHALLENGE 2 11.99
LURE OF THE TEMPTRESS ... 19.99
MAGIC POCKETS ... 16.99
MAGNETIC SCROLLS VOL.1.
(GUILL OF THIEVES, FISH, CORRUPTION) (I MEG) ... 19.99
MEGANETIC SURVEY .

	FISTS OF FURY (DYNAMITE DUX,	PARASOL STARS16.99
ä	NINJA WARRIORS, SHINOBI, DOUBLE DRAGON 2)9.99	PAWN (M/SCROLLS)7.99
9	DOUBLE DRAGON 2)9.99	PIRATES
	FLAMES OF FREEDOM (MIDWINTER 2)11.99	PIRATES
	(MIDWINTER 2)11.99	PLAN 9 FROM OUTER SPACE 19.49
9	FLOOR 13	PLAYER MANAGER8.99
9	FORMULA 1 GRAND PRIX22.99	POPULOUS & SIM CITY16.99
	FUN SCHOOL 2 (2-6)14.99	POPULOUS 2
	FUN SCHOOL 2 (6-8)14.99	POPULOUS 2 (1 MEG)19.49
	FUN SCHOOL 2 (8+)14.99	POWER UP (CHASE H.Q.
•	FUN SCHOOL 3 (2-5)16.99	TURRICAN, X-OUT, ALTERED
9	FUN SCHOOL 3 (5-7)16.99	BEAST, RAINBOW ISLANDS)9.99
9	FUN SCHOOL 3 (7+)16.99	POWERDRIFT3.99
9	FUN SCHOOL 4 (2-5)16.99	POWERMONGER D/S19.49
9	FUN SCHOOL 4 (5-7)16.99	POWERMONGER WORLD
9	FUN SCHOOL 4 (7+)16.99	WAR 1 DATA DISK11.49
9	GAUNTLET 316.99	PREMIER16.49
9	GOBLLINS16.99	PRINCE OF PERSIA9.99
	GODS16.99	PRO TENNIS TOUR 216.99
	GOLDEN AXE8.49	PROPHECY18.49
	GOLF WORLD CLASS LEADERBOARD7.99	PROTEXT VERSION 4.3 WORD
•	LEADERBOARD7.99	PROCESSOR44.99
•	GRAHAM GOOCH WORLD CLASS CRICKET17.99	PSYCHO'S SOCCER SELECTION'S
)	CLASS CRICKET17.99	(KICK OFF 2, MICROPROSE
١	GRAHAM TAYLOR'S SOCCER	SOCCER, MANCHESTER UNITED.
1	MANAGER15.99	INTERNATIONAL SOCCER)19.99
1	HARLEQUIN16.99	PUSH-OVER16.99
h		QUEST & GLORY
١	HEIMDALL (1 MEG)	(BLOODWYCH MIDWINTER







EXTERNAL 3.5" DISK DRIVE FOR ATARI ST. SONY/CITIZEN DRIVE MECHANISM. QUIET, HIGH QUALITY, SLIM. 49.99



AMIGA/ST MOUSE WITH OPERATION STEALTH 24.99



SQUIK MOUSE

FOR AMIGA/ST

CLEANING KIT FOR COMPUTERS (INCLUDES VACUUM) 19.99

STARTER PACK WITH STOS, PRINCE OF PERSIA, QUICKSHOT 131 DELUXE DIGITAL JOYSTICK, DUST COVER, MOUSE PAD, FILE-A-DISK RECORD SYSTEM DISK CLEANER, 5 BLANK DISKS) 32.99





POWER SCAN HAND SCANNER FOR ATARI ST (INCLUDES SOFTWARE)

DUST COVER FOR AMIGA OR ATARI ST (CLEAR)	4.99
DUST COVER FOR MONITOR (CLEAR)	5.99
DUST COVER FOR 80 COLUMN PRINTER (CLEAR)	5.99
RF LEAD FOR AMIGA/ST (STANDARD LEAD TO TELEVISION)	3.99
TV RF INPUT SWITCH FOR AMIGA/ST (SWITCH BETWEEN TV	
AERIAL AND COMPUTER WITHOUT DISCONNECTING)	4.99
POPULOUS/FALCON LEAD (NULL MODEM CABLE)	7.99
FOUR PLAYER JOYSTICK ADAPTOR (FOR KICK OFF 2 ETC)	7.99
ROBOSHIFT INTERFACE FOR AMIGA/ST	
(PLUGS MOUSE & JOYSTICK INTO ONE PORT)	14.99
PORT EXTENSION ADAPTOR FOR AMIGA/ST (CHANGE	400
JOYSTICKS WITHOUT NEEDING TO REACH BEHIND COMPUTER)	5.99
3.5" DSDD JVC DISK WITH	





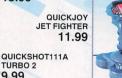




COMPETITION PRO 14.99 COMPETITION PRO









TURBO 2 9.99 QUICKSHOT128F MAVERICK 1





POWER PLAY CRUISER (SENSITIVITY CONTROL 10.99 QUICKJOY







QUICKJOY FOOT PEDAL (HIGHLY RECOMMENDED) 19.99 STARFIGHTER REMOTE WITH TWO INFRA-RED JOYPADS 29.99





WE DO NOT SELL GREY IMPORTS

Special Reserve



HARDWARE PRICES INCLUDE VAT & DELIVERY TO UK MAINLAND

BUBBLE JET PRINTER 64 NOZZLE, 80
COLUMN, SAIQ CPS 2LQ/1 DRAFT FONT, 12
MONTH WARRANTY A SMALL, PORTABLE
PRINTER, VERY QUIET IN OPERATION YET
GIVING OUTSTANDING
PRINT QUALITY.
FREE PRINTER LEAD
FREE MEMBERSHIP



PRINTER 9 PIN, 80 COLUMN, 144 CPS/25NLQ, 2NLQ/1 DRAFT FONT, 24 MTH WARRANTY (FREE PRINTER LEAD AND MEMBERSHIP). HIGH QUALITY BLACK AND WHITE PRINTER. FREE PRINTER LEAD FREE MEMBERSHIP 129.99

CITIZEN 224 PRINTER WITH COLOUR KIT 24 PIN, 80 COLUMN, 192CPS/64LQ, 3LQ/1 DRAFT FONT, 24 MTH WARRANTY, 24 PIN LETTER QUALITY PRINTER WITH EXCELLENT COLUMN COLONARIUS (2824/28 DEI)

GRAPHICS CAPABILITY (360X360 DPI). FREE SPECIAL RESERVE MEMBERSHIP AND FREE PRINTER LEAD

CITIZEN SWIFT 9184.99 PRINTER WITH COLOUR KIT 9 PIN, 80 COLUMN, 192CPS/48NLQ, 3NLQ/1 DRAFT FONT, 24 MTH WARRANTY, A 9 PIN PRINTER WITH COLOUR FACILITY AND FULL PAPER HANDLING FUNCTIONS. FREE SPECIAL RESERVE MEMBERSHIP AND FREE PRINTER LEAD

.....204.99

PRINTER 24 PIN, 80 COLUMN, 192CPS/64LQ, 5LQ/1 DRAFT FONT, 12 MTH WARRANTY, 24 PIN QUALITY AT 9 PIN PRICE. FREE SPECIAL RESERVE MEMBERSHIP AND FREE PRINTER LEAD

DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC)
PRINTER LEAD (PARALLEL) FOR AMIGA, ST OR PC | RIBBON (COLOUR) FOR CITIZEN | RIBBON FOR CITIZEN | SWIFT 9, 24 OR 224 | 17.99 | SWIFT 9 OR 120D+ 6.99 | RIBBON (COLOUR) FOR STAR | RIBBON FOR STAR LC20 | 6.99 | RIBBON FOR STAR LC200 | RIBBON FOR CITIZEN SWIFT 24 OR 224 RIBBON FOR STAR LC24-206.99
INK CARTRIDGE FOR BJ10EX ...19.99



Megadrive Games

688 ATTACK SUB AFTERBURNER 2

ARCH RIVALS .

BUDOKAN CALIFORNIA GAMES

ART ALIVE

BACK TO THE FUTURE 3
BATMAN (ORIGINAL VERSION)
BLOCK OUT
BUCK ROGERS

COLUMNSD.ROBINSON BASKETBALL DECAPATTACK

DUCK - QUACKSHOT.

EVANDER HOLLYFIELD BOXING

FANTASIA FERRARI FORMULA ONE GALAXY FORCE 2...... GHOULS N GHOSTS.....

PHILIPS CM8833 MK 2 **COLOUR STEREO**

MONITOR......207.99 FOR ATARI ST OR AMIGA. ONE YEARS ON-SITE MAINTENANCE INCLUDED. OFFICIAL UK VERSION.

FREE F19 STEALTH FIGHTER
FREE SPECIAL RESERVE MEMBERSHIP

MONITOR LEAD ATARI ST TO PHILIPS CM8833 II7.99

TV TUNER FOR PHILIPS CM8833 MKII MONITOR ONLY (TURNS THE MONITOR INTO A TV)44.

A 10 (10 C)	GOLDEN AXE	.27.99
S	GOLDEN AXE 2	.29.99
	GREEN DOG	
.29.99	GYNOUG	.29.99
.27.99	HELL FIRE	27.99
.17.49	IMMORTAL	
.34.99	ISHIDO	19.99
.29.99	IT CAME FROM THE DESERT	
.29.99	J.B. DOUGLAS BOXING	27.99
.19.99	JOE MONTANA'S (SPORTSTALK) U.S. FOOTBALL 2	
.23.99	U.S. FOOTBALL 2	.29.99
.29.99	JOHN MADDEN '92	
.29.99	KID CHAMELEON	.29.99
.29.99	KRUSTY THE CLOWN	
.37.99	LAST BATTLE	17.49
.29.99	MARBLE MADNESS	.29.99
.29.99	MARBLE MADNESS	29.99
.29.99	MARIO LEMIUX HOCKEY	29.99
.23.99	MERCS	
.29.99	MICKEY MOUSE	.29.99
.27.99	MIDNIGHT RESISTANCE	
.29.99	MIKE DITKA'S ULTIMATE FOOTBALL.	
.29.99	MOONWALKER	27.99
.27.99	NHL ICE HOCKEY	
.29.99	OLYMPIC GOLD	
.27.99	ONSLAUGHT	
.29.99	PACMANIA	
.29.99	PAPERBOY	
.29.99	PGA GOLF TOUR	
.29.99	PHANTASY STAR 3	
.29.99	PHELIOUS	
.29.99	PITFIGHTER	
.34.99	REVENGE OF SHINOBI	27.99



Nintendo Super NES

16 - BIT GAMES CONSOLE WITH CONTROLLER AND SUPER MARIO WORLD FREE SECOND CONTROLLER FREE STEREO LEAD FREE NINTENDO MARIO

GAME & WATCH FREE SPECIAL RESERVE MEMBERSHIP FREE £5.00 REPLAY VOUCHER

NES GAMES (PRICES INCLUDE MEMBERSHIP & £5 VOUCHER) ADDAMS FAMILY4

ADDAMS FAMILY42.99	PAPERBOY 237.99
F-ZERO37.99	SUPER CASTLEVANIA 442.99
FINAL FIGHT47.99	SUPER R-TYPE37.99
JOE & MAC - CAVEMAN	SUPER SOCCER37.99
NINJA47.99	SUPER TENNIS37.99
LEMMINGS47.99	UN SQUADRON47.99



GAMEBOY

WITH TETRIS, 2 PLAYER LEAD. BATTERIES. STEREO HEADPHONES, FREE SPECIAL RESERVE MEMBERSHIP AND FREE GAMEBOY HOLSTERS, BELT AND CARTRIDGE POUCH CARTRIDGE POUCH OR FREE KONIX G.B HOLSTER 69.99

(PLEASE STATE YOUR CHOICE)



ATARI LYNX 2

WITH BATMAN RETURNS GAME 4096 COLOURS, 64K RAM, 16MHz PROCESSOR, 8 MEG GAME CAPACITY, FREE MAINS ADAPTOR FREE MEMBERSHIP

IIIII

SEGA GAME GEAR

RUNS A WIDE SELECTION OF GAMES AND IS COMPATIBLE WITH MASTER SYSTEM GAMES USING A MASTER GEAR CONVERTER WITH COLUMNS GAME FREE MAINS ADAPTOR FREE MEMBERSHIP



SHADOW DANCER SIMPSONS

SPACE HARRIER 2 ... SPIDERMAN STEEL EMPIRE STREETS OF RAGE ...

THUNDERFORCE 3 TOE JAM AND EARL

STRIEER SUP HAGE STRIER SUPER HANG ON SUPER REAL BASKETBALL SUPER THUNDERBLADE SWORD OF VERMILLION

TEAM USA BASKETBALL

BATMAN RETURNS
BILL AND TED'S EXCELLENT
ADVENTURE
BLUE LIGHTNING
CHECKERED FLAG

CHIPS CHALLENGE
DIRTY LARRY - RENEGADE COP.....
DRACULA
ELECTRO COP.....
EUROPEAN TOURNAMENT SOCCER.
GATES OF TENDECON.

MALIBU BIKINI VOLLEYBALL

SHADOW OF THE BEAST SHANGHAI

TOURNAMENT CYBERBALL.

ULTIMATE CHESS CHALLENGE

MS PACMAN NFL FOOTBALL NINJA GAIDEN PAPERBOY..... PITFIGHTER RAMPAGE

SHANGHAI SLIMEWORLD ... SPACE WAR STEEL TALONS ... SUPERSKWEEK

Lynx Games

SEGA MASTER SYSTEM 2

8-BIT GAMES SYSTEM WITH A HUGE CHOICE OF GAMES AT REASONABLE PRICES. GAMES CAN BE USED ON GAME GEAR AND MEGADRIVE. WITH TWO JOYPADS AND SONIC THE HEDGEHOG



SEGA MEGADRIVE

16-BIT GAMES CONSOLE WITH CONTROLLER AND SONIC THE HEDGEHOG FREE MEMBERSHIP FREE EXTRA TURBO

129.99

..20.99

..13.99 ..20.99 ..16.99 ..20.99 ..20.99 ..20.99

..20.99 ..20.99 ..22.99 ..18.99 ..13.99 ..20.99

.16.99 .13.99

..20.99 ..20.99 ..20.99 ..20.99 ..20.99

.17.99

.20.99 .22.99 .24.99

- CO	10.22	10.11	
	The same		The State of
	0		- 104 0.0
		essoesumpenso	

.27.99

..29.99

..29.99 ..29.99 ..29.99 ..27.99 ..27.99 ..26.99 ..29.99

.39.99 .37.99 .17.49 .27.99

..23.99

.23.99 .27.99 .19.99 .23.99

.23.99

TRACK MEET

Gam		

ADDAMS FAMILY
ADVENTURE ISLAND
ASTEROIDS
BALLOON KID
BART SIMPSON'S ESCAPE FROM
CAMP DEADLY

	CAMP DEADLY
	BILL AND TED'S EXCELLENT ADVENT
	BILL AND TED'S EXCELLENT ADVENT
	BLADES OF STEEL
	BUBBLE BOBBLE
	BUBBLE BUBBLE
	BUBBLE GHOST
	BURN FIGHTED DELLIVE
	BURAI FIGHTER DELUXE BURGERTIME DELUXE
	CASTELIAN
	CASTLEVANIA
	CEASARS PALACE
	CEASARS PALACECENTIPEDE
	CHASE HO
	CHOPLIFTER 2
	DOUBLE DRAGON 2
	DR FRANKEN
	DRAGON'S LAIR - THE LEGEND
	DR FRANKEN
	DYNA BLASTERFOOTBALL INTERNATIONAL
	FOOTBALL INTERNATIONAL
	FORMULA 1 RACE (WITH 4 PLAYER ADAPTOR)
	(WITH 4 PLAYER ADAPTOR)
	GAUNTLET 2
	GHOSTBUSTERS 2
L	GOLF
ľ	GREMLINS 2
ı	HOME ALONE
	HUNT FOR RED OCTOBER
	HUNT FOR RED OCTOBER
	JORDAN VS BIRD
	KID ICARUS
	KIING EII MASTED
	KUNG FU MASTERMARBLE MADNESS
	MEGA MAN
	MICKEY MOUSE
	MISSILE COMMAND
	MOTOR CROSS MANIACS
	NAVY SEALS
	NEMESIS
	NINTENDO WORLD CUP
	OTHELLO
	PACMAN
	PAPERBOY 2
	PRINCESS BLOBETTE
	Q-BERT
	R-TYPE
	REVENGE OF THE GATOR
	ROBOCOP
	SIDE POCKET
	SKATE OR DIE
	SNEAKY SNAKES
	SOLOMON'S CLUB
	SPIDERMAN
	OLINEIMAN

0279 60020

Open to 8pm Weekdays and to 5pm Weekends

ANNUAL MEMBERSHIP UK £6.99 EEC £8.99 WORLD £10.99

We only supply members but you can order as you join.

The Special Reserve full colour club magazine NRG is sent to all members bi-monthly. NRG features full reviews of new games plus minireviews, all the gen on new products, the Special Reserve charts, Release Schedule of new games and hundreds of special offers.

PLUS - EVERY ISSUE CONTAINS



£30 worth of money-off coupons

to save even more money off our amazing prices.

We sell games and accessories, all at amazing prices, for Megadrive, Master System, Game Gear, Super NES Gameboy, NES, Lynx, Amiga, Atari ST, IBM PC, CDTV and IBM CD ROM.

Best Service, Best Prices, Biggest Selection

That's why over 100,000 people have joined Special Reserve.

SEGA GAME GEAR

WITH SONIC THE HEDGEHOG

SEGA MAINS ADAPTOR FREE SUPER MONACO GRAND PRIX GAME FREE SPECIAL RESERVE MEMBERSHIP



129.99

Game Gear Games	NINJA GAIDEN
ourife ocur ourifes	PAPERBOY23.99
AERIAL ASSAULT23.99	PENCO 17 00
AXE BATTLER24.99	PENGO
BATMAN RETURNS25.99	SENNA SUPER MONACO25.99
CHESS MASTER23.99	SHINOBI19.99
COLUMNS17.99	SLIDER19.99
CRYSTAL WARRIORS27.99	SOLITAIR POKER19.99
D.ROBINSON BASKETBALL24.99	SONIC THE HEDGEHOG24.99
DEVELISH19.99	SPACE HARRIER19.99
DONALD DUCK24.99	SPIDERMAN24.99
DRAGON CRYSTAL19.99	SUPER KICK OFF24.99
FANTASY ZONE GEAR23.99	SUPER MONACO GP19.99
G-LOC	TERMINATOR
JOE MONTANA (U.S.) FOOTBALL 19.99	WONDER BOY17.99
LEADER BOARD19.99	WONDERBOY - DRAGONS TRAP 24.99
MARBLE MADNESS24.99	WOODY POP17.99
MICKEY MOUSE19.99	YOUNG INDY

Inter-Mediates Ltd. Registered Office: 2 South Block
The Maltings, Sawbridgeworth, Herts CM21 9PG.
INEVITABLY, SOME GAMES MAY NOT YET BE RELEASED
PLEASE PHONE SALES ON 0279 600204 FOR
LATEST RELEASE DATES AND STOCK AVAILABILITY.
WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN.
THERE IS A SURCHARGE OF 50P PER GAME ON TELEPHONED ORDERS.
(PLEASE PRINT IN BLOCK CAPITALS)

THE 23

(,	,	THE 23
Name		
Address		
	Postcode	
Telephone	Machine type	
	umber (if applicable) or K, £8.99 EEC, £10.99 World	
item		
item		
item	~	
item		
ALL PRICES INCLU	DE UK POSTAGE & VAT	£
Cheque/P.O./Access/Ma	astercard/Switch/Visa Switch	Issue No

expiry date_ Signature Cheques payable to: SPECIAL RESERVE

P.O. BOX 847, HARLOW, CM21 9PH
Overseas Orders: EEC software orders - no extra charge
World software orders please add £1,00 per item. Non-software items please add 10% EEC or 25% World. Overseas orders must be paid by credit card.

GUIDES

ADDENDUM TO 39

Last month we stated that Magic Story Book is Shareware, however the version on our Disk isn't - it's a specially commissioned version.

If you couldn't decompact WORKBOOK.TOS, get a blank disk and create a folder called WORKBOOK. Use it when you want to save your efforts. If you want a working version so you get the examples, send your disk to TIB below or register your copy with the authors Jayne and Richard including a manual - see the **README.DOC** for details.

Play it again, Sam Last month's massive freebie was Steinberg's Pro 12 sequencer. With it should have come this song to test out what MIDI mode your instrument uses and suss out what channels it could play on. Unfortunately the office gremlin escaped and wiped the file from the disk. Apologies all round. Here is that file again.

COVER DISK PROBLEMS?

My Disk is duff!

ST FORMAT duplicate thousands of disks every month and inevitably a few go a bit wonky. If you can't load any programs or open a window at all, you may be unlucky enough to have a defective disk. Don't worry - we guarantee a free replacement. Send the disk in a sturdy envelope along with a brief note highlighting the problem and a self-addressed envelope (we pay the return postage) to:

ST FORMAT November Disk returns TIB plc, 36-50 Aledaide Street **Bradford, Yorkshire BD5 0EA**

One of the programs doesn't work

If only part of your disk won't work, then try ringing the Cover Disk Hotline at TIB before you send the disk back. Call Sam Hiah on 2 0274 736990

I can't work a program out

Everything loads OK, but there still a problem with one of the programs. You've read the Cover Disk pages and any on-disk documentation and still can't figure it out. Give us a ring on ☎ 0225 442244 and we'll do our best to help.

well for your software – games, utilities, demos – anything good, original and short. If

written anything worthy of STF's Cover Disk, send it with this form and full documen-

to: Chris Lloyd, ST FORMAT Cover Disk Editor, 30 Monmouth St, Bath, Avon BA1 2BW. ease be patient: we get heaps of submissions, and we try to give them all a fair testin	
se be patient. We get heaps of submissions, and we try to give them an a rain t	esting:
none	

Total size in K

rate sheet, explain concisely what the program does and what's great about it.

to: ■ Include on-disk and paper documentation ■ Write your name and address on the disk us-free disk
Keep a copy of your program, because contributions are non-returnable vads of cash. We pay for programs we use, but don't expect to become a millionaire overnight gn the following declaration: This program is submitted for publication in ST FORMAT. It is own work and I hereby agree to indemnify Future Publishing against any legal action should

Cover Disk Back-up

BY: BRIAN TILLEY RESOLUTION: ALL RESOLUTIONS FOLDER: BACK UP FILES: BACK_UP.TOS **GET STARTED WITH: BACK_UP.TOS**

Factor X can really muck you up, making a mockery of your diligence. There you are being very careful with your Cover Disk, making sure nothing untoward can happen to it and along comes Factor X - the unknown, the unexpected and the unpreventable - and throws a spanner in the works by, somehow or other, managing to mess up the

Still - no worries, eh? And that's because you've done the logical and sensible thing and backed up your disk using the excellent Back-Up program from the corners of the very same disk. Before you do anything, you just have to write-

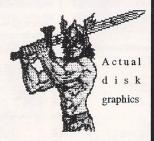
protect your Cover Disk. And all that means is moving the little black tab so you can see through the hole. Now nothing can be deleted or written to the disk - whatever you think of to do to it!

Now get a new disk ready and run Back-Up. From the menu press <1> and swap disks when you're prompted. In a twinkling of an eye you have a fresh new copy of your Cover Disk.

The source disk is the disk you are making the copy of - that's the Cover Disk. The destination disk is the intended back up disk. If you have two drives, then drive A is used as the source and drive B as the destination.

Back-Up can also be used to back up other disks - press <2> to see if it's possible. You can't get past the copy-protection on most commercial games disks and anyway copying them is illegal. You can copy almost all other disks, but check in the documentation first to see if it is expressly permitted. Right, now you're prepared to laugh in the face of Factor X.

DELTRONICS Fantasy Graphics



FOR TALESPIN ADVENTURE CREATION PROGRAMS

OVER 5 MEGABYTES OF GRAPHICS (MONS-TERS, BACKGROUNDS, OBJECTS, WEAPONS & ARMOUR) CONDENSED INTO 600K PLUS 200K of DIGITIZED SOUND. INCLUDES SCREEN-SAVER FOR USE WITH OTHER NON-TALESPIN PROGRAMS (SUCH AS STOS).

Only £6.99 (inc.P&P)

Payments to DELTRONICS, 72 LEIGHAM VALE, STREATHAM, LONDON, S.W.16, 2JG. Telephone: 081-769-9568.



TALESPIN

One of the most enduring types of ST games is the graphic adventure. If you've always wanted to create your own world,

here's your chance - get stuck in to *Talespin*, the adventure creator. Clive Parker uncovers the first clues in the mystery...

BUT I DON'T *LIKE*ADVENTURE GAMES

The main use for *Talespin* is for creating adventure games. However, not everyone gets a a great thrill out of game creation. Fortunately, there are other uses to which you can put Talespin. You can use it in the same way as a *Hypercard* stack on a Mac, with sounds and pictures linked together. You could use the program to design a guide to using the ST with graphics and sound; selecting part of the drawing – perhaps a particular chip – could bring up an

enlarged picture of the item selected. Guides for software using screen grabs could be designed or or you could create sales demonstrations.

Because of the way the program works, you could design a guidebook for any building, showing the best routes to and from various locations. This could be useful in places such as schools or office buildings where large numbers of people need to find their way around.

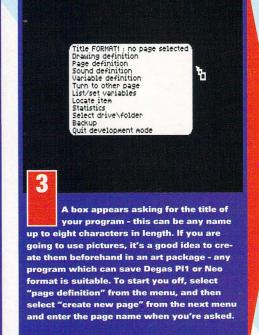
veryone loves an adventure story (so the blurb goes), but some of the problems involved can be mind-numbingly frustrating in their complexity. Imagine how satisfying it would be to create your own graphic adventure and gloat over someone being stumped by your eccentric clues and problems.

Talespin is a program that enables you to create your own graphic adventures from scratch, importing graphics and sound samples from other packages to enhance and add extra atmosphere to the story you design. A graphic adventure can take place anywhere and at any time – past, present, future or just in your imagination, the setting is limited only by the fantasy worlds of the programmer. With Talespin, you are the programmer!

START CREATING ADVENTURE GAMES...







DEVELOPING STARTS HERE



This is the development screen – from here you can develop all aspects of your adventure. For example, if you click on the relevant option under cursor mode, you can transfer drawings between pages, alter the colour palette, redefine the conditions and alter the options within the game.

It's easy!

Talespin simplifies the process of creating your adventure, the various parts of the program – text, pictures and sound – are linked together to form a page. These pages are then linked together to form an interactive story which is controlled entirely by the mouse. Specific events in the story are controlled by variables and conditions that you set during

the game creation. Pictures can be created by *Talespins'* own art package, or *Degas* and *Neochrome* files can be imported directly. Digitized sound samples created with *Replay 4* can also be used by the program.

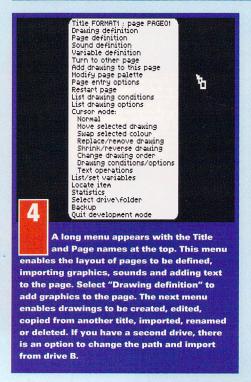
While the finished result is unlikely to be up to the standard of commercial offerings like Dungeon Master or Ultima 6, it's fun to actually play a game you have devised yourself.

So go on, get the disk in the drive and create a classic.

Features

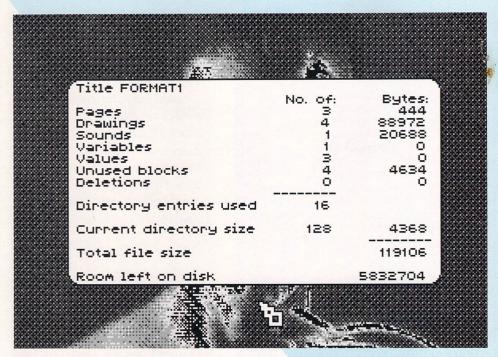
While designing a game, the program can display the current status of the title you are working on – such as how much free disk space you have left. This is important because you don't want to use too many pictures and

REMEMBER: YOU NEED A BEGINNING...









■ This is the statistics display. You can see the status of your title, the number of pages designed, the number of drawings used, the sounds allocated and the variables and values designated in your game. Also shown is the amount of disk space used for each item and the disk space available.

fill up the disk – a 720K disk can hold about 20 *Degas* or *Neochrome* screens. Pictures are compressed by the program to save space, but it is a handy function.

All links between pages and the relationship between them can be shown, along with details of drawings, sounds and variables. Any part of the game can be altered at any time without affecting the other parts. Drawings and sounds can be copied from other games for use in a new one and games can be chained together to form multi-disk games. The progress on your game can be checked by using the demo mode, enabling you to run the game from within the editor.

Talespin can be installed and run on a hard drive by copying the files from the Cover Disk.

VARIABLES

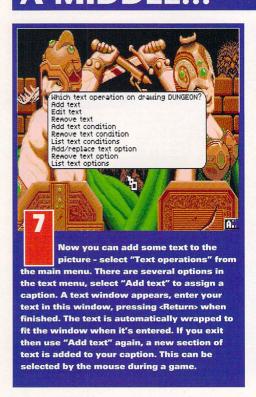
The variables are used to control the actions of the program and decide which options take place. If you set a variable called Food, then you can set up the game so that if Food equals 0, then the game is over. The Food value can be increased by clicking on various items of fare that you scatter around your adventure, and decreased by performing certain actions. You must plan carefully how your variables affect each page.

Another example is killing your character. If you set up the text so that your hero has a choice of two text options, for example: "Shall I shoot the baddie?" or "Shall I run away?" you can define the page conditions so that when "shoot" is selected, the page is redrawn without the baddie. This assumes, of course, that your aim is perfect!

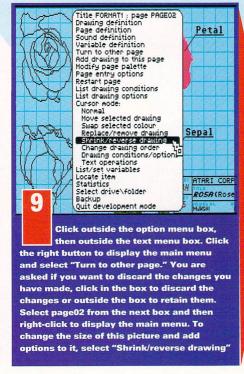
Other variables determine what text appears on a page. If you have collected a certain item on a previous page, then a certain piece of text is displayed. If you haven't collected that item then a different message is displayed. Before you get too involved doing your own thing, load up one of the demo games provided and switch to development mode to study how variables have been used.

■ To get a copy of the *Talespin* manual so you can get even more out of this excellent program, turn to page 68.

A MIDDIF.







THE LIBRARY FILES

The demos supplied with the program contain many pictures and sounds to use in your own title

ALPHABET.TAL

This contains an alphabet of plain letters, an alphabet of ornate letters and a set of numerals to be used to create titles for your game. By using the Reverse/Shrink operation, the letters can be reduced to the size required. Letters can be copied and modified in the art program section.

THE WOLF.TAL

All the elements of The Wolf game are contained in this file, including three sound samples. All the drawings have been created using the default palette so there is no need to alter colours when you copy them to your title.

The following sound samples are in The Wolf:

Laugh 20,688 bytes in length

Cry 6.966 bytes in length Hello 4,866 bytes in length

Remember, sounds take up a lot of disk space.

START.TAL

The main title screen is contained in this file along with several others

The picture files are:

Boy Girl

Boy hugging girl Click icon

Question icon Mouse icon

Ref icon **Wolf Nasty**

THE GRAIL.TAL

This is the demo adventure supplied on the Cover Disk, all the drawings and sounds can be copied and used.

The following sound samples are in The Grail:

Beast 1 16,562 bytes in length Mutant 8.950 bytes in length Mutant 28,164 bytes in length

How to get the files

To grab the files from the

demos, load Talespin and the file START.TAL is loaded automatically, right-click for the control menu, then select "development mode." Rightclick again and select "choose and load title" and select the game you are working on, or start a new title if this is your first game.

To grab a sound select "Sound definition" from the main menu and then click on "Copy sound from another title." Choose The Grail and you are asked which sound you wish to grab. Select your sound. After a few seconds you go back to the sound definition menu. From here you can rename, play or delete the sound. The sound is saved as part of your game file when you back up or quit the program. The same technique is used to grab pictures via the drawing definition menu. Select the title you wish to grab from and then select the picture you wish to grab. Once loaded, you can manipulate pictures in the same way as Degas or Neochrome files you have imported.

TEXT CONDITIONS

used to decide what text appears on a demonstrate how to example from The Grail

Text

If ours is not held. Hint to go

around again

Neutral comment

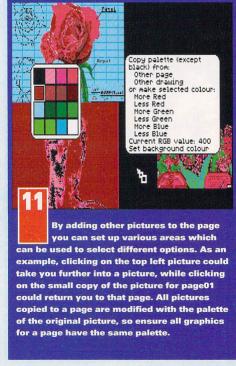
If cripple is cured Billot may be

unsuitable as a companion

Use names for variables rather than x=2 or y=0 - you may find it is easier to debug a program if conditions are laid out like "set WOLF to DEAD" and not set by a number. Always ensure that the name of a variable is relevant to the action it performs to avoid confusion.

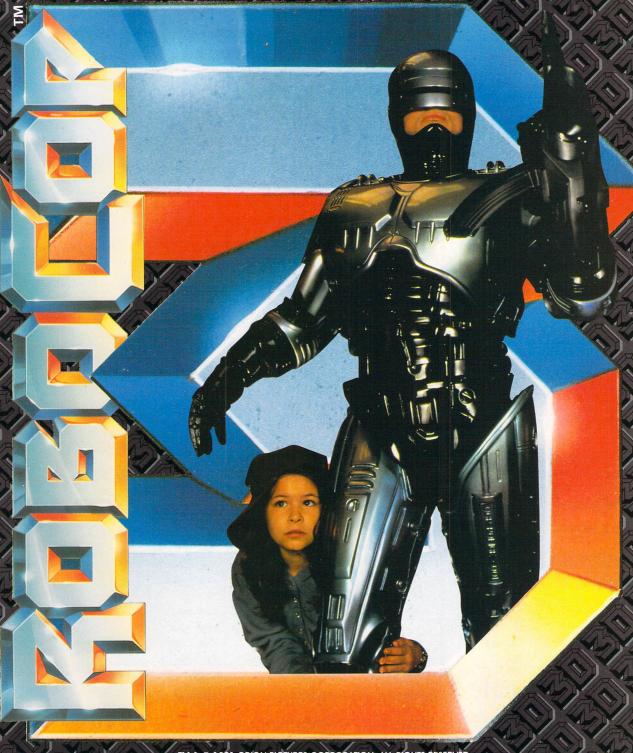
...AND AN END







YOU ARE TAKING PART IN A MOVIE'S



TM & © 1991 ORION PICTURES CORPORATION. ALL RIGHTS RESERVED







"Everybody has been waiting for Robocop 3 and it has been well worthwhile. Graphically excellent, exactly what everyone wants." IBM PC . ATARI ST . CBM AMIGA



"The 3d twist works amazingly well...
makes Robocop 3 the best film
licence yet"
ACE

ST ACTION 92% OCEAN SOFTWARE LIMITED - 2 CASTLE STREET - CASTLEFIELD - MANCHESTER - M3 4LZ - TELEPHONE: 061 832 6633 - FAX: 061 834 0650

GASTEINE

PhiHong S Seagate Quantum

Steinberg C-LAB GST : LIGHTHOUSE

GOLD

AWARD

WINNER

IN ST

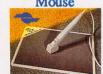
Unit 2 Millmead Business Centre Millmead Road London N17 9OU Tel: 081 365 1151 Fax: 081 885 1953

Optical Mouse

St Format 81% Cu Amiga 79% Superb 300dpi Optical Mouse

with effortless micro switch buttons, Fast smooth and reliable. Includes Optical Mouse Pad and Holder £26.00

Optical Pen Mouse



A stylish Pen mouse with quality construction and smooth fast movement. Micro switch buttons, ideal for DTPartwork,etc. Include **Optical Pad**

£35.95

Trackballs



FORMAT 92% Stylish three button trackballs, with

third button supporting auto fire and click and hold With duel colour

Crystal Ball £29.95

£34.95

Mega Mouse

GOLD **AWARD** WINNER **IN AMIGA FORMAT** 90%

A 290dpi high resolution Opto-Mechanical Mouse, Top quality construction ensures rapid and smooth movement, with micro switch buttons,

Monse only £10.95

Mouse with hard mat and mouse holder

Power

£2500 Rlitz Turbo PC 720P External drive£50.00 PC 720B with Blitz 51/4" Disk Drive Power scanner £95.00

The ulitimate Cartridge£25.00 **PhiHong**

Replacement Power Supply for ST, STF and STE £29.95

Official Atari Internal Disk Drive £45.00

At these price and not at echange prices

Marpet

XTRAM Deluxe Simm Upgrade for ST STF and Mega ST

1/2 MB £ 39.00 £75.00 2 Mb 4 Mb £109.00

Vortex

D386 Emulator runs at 16 MHZ. True multitasking in PC mode on ST

386 SX-16 £279.00 387 Co-Pro £115.00 Fast RAM Cache £30.00

GoldenImage Mouse with Mat. £13.95 The Brush Mouse with D-Paint GoldenImage Hand Scanner

GoldenImage External 3.5' Drive

GoldenImage Optical £29.95 mouse

Gasteiner STE and Mega STE Upgrade 1/2 Mb £12.00 2 Mb £40.00 £80.00 4 Mb

TOS 2.06 STFM £49.95 £49.95

Monitors

SM 124 £99.00 SM 144 £145.00 SM 146 POA

Philips 8833II £195.00 Atari SCI1435 £209.00

Multisync Monitor for ST, STE, Mega STE and Falcon

Multisync Switch £29.95 Box

Peripherals

Monitor Switch Box Colour/ Multisync Switch Box£29.95 Printer Cable £6.00 Modem Cable £6.00 Serial Cable £6.00 Philips/Atari STE Cable £10.00 10 Disks £7.00 Cordless Infrared

Mouse

Auto Mouse/



St Format 78% **Automatic Switcher** between two input devices with click of a button . E.g. mouse/mouse, mouse/ joystick, joystick /joystick £12.95

Real Time Clock



St Format 80% This clock is equipped with a thru port, as to connect other peripherals.

£14.95

256 Greyscale Scanners

Total solution for scanning A4 images

Features: True greyscales, 100-400 dpi, 105mm head, **OCR** option

Top quality hardware with the latest version of software from Migraph. Allows real time scanning, provides powerful editing/painting features. Compatible (imports/exports) IFF,IMG,PCX,TIFF and MACPAINT formats.Compatible with all Atari's

Touch UP and Merge It Software

Touch UP, Merge It and Special OCR software.

Minmum system requirement 2Mb RAM, and a Hard Disk

£119.95 £199.00



£45.00

Full OCR Version Software Available £165.00

Word Processing Software			
1St Word +	£55.00		
Calligrapher Pro	£79.00		
Calligrapher Gold	£109.00		
That's Write V1.4	£19.00		
DTP Software			
Pagestream V2.2	£149.00		
Timeworks Publishing 2	£80.00		
Calamus V1.9	£129.00		
Calamu SL	£339.00		
OCR Software	£165.00		
Touch Up	£49.00		
Easy Draw	£34.00		
Cyber Studio	£25.00		
Cycler Control	£25.00		
Cyber Paint	£25.00		
Human Design Disk	£10.00		
Puture Design disk	£10.00		
Architechtural Design Disk	£10.00		
3D Font 1	£10.00		
CAD 3D	£10.00		
CAD 3D Developers Disk	£10.00		
Neo Desk 3	£28.00		
Thats PunFace	£18.00		
Signs + Banners	£15.00		
Calender + Stationary	£15,00		
Greating Cards	£15.00		
Music Coftenant			

Music Software

C-Lab Nototor	£279.00
C-Lab Creator	£179.00
Cubeat	£150.00
Cubase	£279.00
Cubase Light	£150.00

Please add £3.50 postage and packing to all orders under £100.00 and Orders over £100.00 add £5.00 postage and packing. COURIER CHARGE £10.00. All prices include VAT. Gasteiner accepts payments by Visa, Access, Cheque or postal order.



Millmead Business Centre Millmead Road London N17 9QU Tel: 081 365 1151

COMPUTERS

520 STE 1/2Mb	£199.00
520 STE 1Mb	£230.00
520 STE 2Mb	£265.00
520 STE 4Mb	£305.00
1040 STE 1Mb	£299.00

MEGA STE

0Mb Without Hard Drive	£ 379.00
1Mb Without Hard Drive	£ 399.00
2Mb Without Hard Drive	£ 429.00
4Mb Without Hard Drive	£ 465.00
OMb With 48Mb Seagate H/D	£ 579.00
1Mb With 48Mb Seagate H/D	£ 599.00
2Mb With 48Mb Seagate H/D	£ 629.00
4Mb With 48Mb Seagate H/D	£ 665.00
0Mb With 105Mb Quantum H/D	£ 679.00
1Mb With 105Mb Quantum H/D	£ 899.00
2Mb With 105Mb Quantum H/D	£ 929.00
4Mb With 105Mb Quantum H/D	£ 965.00
1Mb With 210Mb Quantum H/D	£ 999.00
2Mb With 210Mb Quantum H/D	£1029.00
4Mb With 210Mb Quantum H/D	£1065.00

STBOOK

1Mb 40Mb Hard Drive	£1275.00
1Mb 80Mb Hard Drive	£1475.00
limited quantity available	

FALCON

1Mb Without Hard Drive	£ 499.00
2Mb Without Hard Drive	£ 529.00
4Mb Without Hard Drive	£ 579.00
8Mb Without Hard Drive	£ 779.00
16Mb Without Hard Drive	£ 979.00
1Mb With 64Mb Hard Drive	£ 899.00
2Mb With 64Mb Hard Drive	£ 929.00
4Mb With 64Mb Hard Drive	£ 979.00
8Mb With 64Mb Hard Drive	£1179.00
16Mb With 64Mb Hard Drive	£1379.00

GASTEINER MEGA DRIVE

For ST, STE, MEGA ST, MEGA STE and FALCON

All mega drives now comes with:-

- * ICD host adaptor
- * High quality metal casing
- * Backup software
- * Power cable with plug
- * Comprehensive manual
- * 12 months back to base guarantee.

*DMA in and out (with thru' port for an extra drive/laser printer) Feature :- Fully Autobooting, Autoparking, Fast Access SCSI drive.

, , , , , , , , , , , , , , , , , , , ,	P
20 Mb 24ms (Seagate)	£199.00
50 Mb 24Ms (Seagate)	£259.00
52 Mb 11Ms (Quantum)	£309.00
87 Mb 14Ms (Quantum)	£399.00
105 Mb 11Ms (Quantum)	£429.00
125 Mb 14Ms (Quantum)	£479.00
210 Mb 11Ms (Quantum)	£479.00
All Quantums have minimum 6	4K Cache
Gasteiner Floptical 20Mb Drive	£399.00
Gasteiner Floptical 20Mb Disks	£ 24.00



ICD Controller With Clock For The Above Drives, Please Add £15.00 Extra.

Bare Drives

Note

20 Mb	Seagate	£ 99.00
50 Mb	Seagate	£179.00
52 Mb	Quantum	£199.00
105Mb	Quantum	£279.00
210Mb	Quantum	£349.00
20 Mb	Floptical disks	£ 24.00

Mega STE Hard Drives **50Mb** £199.00 105Mb £300.00 210Mb £389.00 Prices include official Atari

Mega STE Kit, Atari Host-Adpt and Software

ICD Products

Ad Speed ST	£1	40.00
Ad Speed STC	£1	60.00
AdSCSI Micro Host Adpt	£	55.00
AdSCSI Plus (with clock)	£	69.95
AdSCSI ST	£	59.95
Metal Case for H/D	£	35.00
Power Supply	£	35.00
SCSI Cable	£	5.00
DMA Cable	£	5.00

ICD - THE LINK

Connects an Atari ST computer to an exeternal SCSI hard drive, floptical drive, CD Rom



HOGAN VS LEMMINGS 2 IN RATINGS WAR

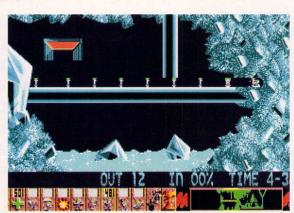
BYROB MEAD

Il the major software houses are lining up their big guns this winter in a bid to secure the Christmas number one games slot. Lemmings 2, WWF2, Motorhead and Street Fighter 2 are just some of the contenders for the top position.

The bookies' favourite has to be Lemmings 2, despite strong competition from Ocean's WWF 2. Maggie Goodwin, from Psygnosis, dismissed the challenger by saying "WWF2's only strength is its licence, Lemmings 2 is original, funny and appeals to everyone. It's all about saving things, rather than blowing them up." However, Ocean's Ken Lockley retorted: "WWF 2 is going to be huge this Christmas. Lemmings 2 hasn't really got anything new to

offer." The eagerly-anticipated sequel to *Lemmings* is to be unveiled at the Future Entertainment Show, which runs from Thursday 5 to Sunday 8 November – see our show preview on page 80.

The original game was given a massive 94% in STF 24 and the sequel goes one better. This time around there are 12 tribes of lemmings - including beach bum and Egyptian - who have been scattered across a land on the verge of self-destruction. For the lemmings to escape. you must bring together the 12 constituent parts of a magic talisman. To do this you have to lead each tribe through eight different levels - making 96 levels in all using some of the talents they have at their disposal. Where the original lemmings had eight skills, their descendants have 50 - these are often associated with



■ Lemmings
2 is even
funnier,
faster and
more furious
than the
original
(shown here)
which was
awarded a
massive 94%
in STF 24.

a specific tribe, although some are common to all.

Get out of tight corners

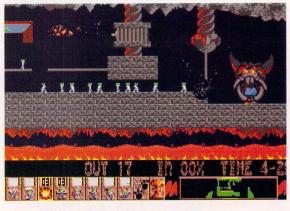
For example, circus lemmings can be launched from cannons, while beach bum lemmings can surf their way out of trouble. Common skills include the ability to inflate balloons and float from platform to platform. Blocker lemmings now play music and can be used to make other tribe members dance to keep them out of mischief. Unlike the original game, the chaps in Lems 2 do not die - they are either stranded, disappear or float off into the ether. The game looks to be packed with playability, humour and great animation.

Dave Jones, the game's programmer, reckons that *Lemmings 2* can be completed to bronze talisman level in a week. To gain the gold talisman could

take a skilled games player up to three months. Look out for it just before Christmas.

The opposition

WWF 2, then, has a fight on its hands, despite Ken Lockley's fighting talk. The sequel to the extremely successful WWF features old faves Hulk Hogan and the Ultimate Warrior who go on the rampage across Europe, doing battle against a variety of brutal opponents. There are four separate venues in WWF 2 and each wrestler now has 62 individual moves. New features include a two-player option which enables you to have two-player tag teams. The game culminates with a final competition between you and the Legion of Doom tagteam, the winners being declared European Rampage Tag-Team champions. WWF 2 should be on the shelves in November.



The original lemmings only wanted to take over the world. Their offspring are going to conquer the uni-

STREET FIGHTER 2

FROM: US GOLD RELEASED: DECEMBER

The imminent release of Street Fighter 2 from US Gold is just the antidote to all that Christmas jollity and Sound of Music re-runs and is sure to give WWF 2 a run for its money. Based on the arcade version, the ST game features a variety of opponents for you to com-

pete with including E-Honda – a Sumo wrestler, Guile – a vain soldier-type, Blanko – a green and gruesome baddie from Latin America, an India rubber man and Zangief, who's Russia's answer to Hulk Hogan. After you've played this you'll just have to try out your newfound karate skills on your mates at the New Year's party. Yuletide punch indeed.

LETHAL WEAPON

FROM: OCEAN PRICE: £29.99

If Santa Claus fails to deliver your presents on Christmas Eve, it could be because he's still at home playing *Lethal Weapon*.

Weapon.
Billed as Ocean's biggest film licence ever, Lethal Weapon is a four mission shoot-'em-up. You can play

either the Mel Gibson or the Danny Glover characters as they get stuck into their task of taking on drug smugglers, terrorists, the dreaded Organisation and, just for a bit of light refreshment, rescue a few depressed hostages under siege. You then have to confont a corrrupt police officer and bring him to trial. First impressions look promising.

COMPUTER A DAY GIVEAWAY Füture

Tune in to Radio One between Monday November 2 and Friday November 6 and you could be lucky enough to win yourself a new computer. DJ Steve Wright will host the competition which is to take place during his afternoon radio programme as part of a tie-up with the Future Entertainment Show, Britain's biggest computer leisure event. Each day that week a different computer or console format will be awarded as a prize in the contest, as well as some of the latest games software.

For people who wish to travel to the Future Entertainment Show by train, British Rail are offering special rate tickets from all 942 Network South-East stations. Visitors purchasing the all-in-one tickets will save £1.05 off

the normal admission

price to the show which is £7 for adults, £5 for under-14s.

The Future Entertainment Show open at Earl's Court on Thursday November 5 and runs until Sunday November 8. Over 70 exhibitors - including Ocean, Electronic Arts and Gremlin Graphics are taking part with over 50,000 visitors expected over the four days. Philips is the latest big name to be added to the list of companies taking part. They will be demonstrating their new interactive home entertainment system -CDi - which combines audio, text, graphics and moving images on a standard compact disc. See page 80 for our show preview.

DOCK AND BE DAMNED

Without a doubt, the most eagerly-awaited sequel since – well, the last one, Frontier – Elite 2 is expected sometime this autumn



■ Elite 2 - a legend in its own warptime - you can live a life before breakfast. It's the future. Man.

from Konami. As if you didn't already know, you're the captain of a small space-craft, exploring the galaxy and encountering pirates, traders and, you hope, a few of those strange new worlds. The game features mercenary missions, 3D combat sequences and 20-mile long space-ships.

The galaxy has been simulated to resemble astronomical data, with current theories on planet formation dictating the layout. You can begin the game within five separate scenarios – beginning on Lave, with the good old Cobra Mk3 from the original *Elite*, on Earth with a stolen ship,

DIRECT TO DISK RECORDING

D2D Systems Ltd of Cambridge are developing a program for the Falcon to make separate direct-to-hard drive recording systems a thing of the past. Falcon D2D is nearing completion and will sell in a four-track version with features such as chorus, reverb, flange and echo for just £299.

Until now a large financial outlay was required to record studio quality audio directly to hard drive on the ST. Expensive add-on systems costing anything up to £2,000 were required, such as Sound Tools. In addition to the recording hardware, a minimum of a 150MByte hard drive was required along with a Mega ST if you wanted to actually use it. With the advent of the Falcon 030 with its sophisticated internal sound processing hardware and its internal hard drive, the same results can now be achieved by software alone.

D2D can sample at rate of 50khz - that's better than CD quality - and uses 10MBytes of hard drive space for each minute of sound recorded. Samples and segments can be linked together

and played by a kind of mini sequencer called the *Cue Sheet*, as many samples as you wish can be played like this. Memory size is not a factor on replaying samples because they are played direct from the hard drive, not stored in RAM, using the hard drive as virtual RAM.

The Falcons' hardware can handle up to eight tracks at once, but only two can be output at the moment. An eight-track version of the program is under development which will require some additional hardware, and there is also the possibilty of a cheaper two-track version of the program being released at a later date for home music enthusiasts.

Final work is being completed on the program to tidy up the graphics and interface, the program should be available in a October. D2D are experienced DSP developers, having been working on this type of hardware and software over several years for other platforms. You can contact D2D Systems on © 0223 420525 for more information about D2D and the Falcon.

on a pirate base as a pirate or on a battle-cruiser as a gunner. You can also choose between adventure or arcade style of play. The docking sequence which, in the original was a pain in the aft-view, has been tidied up and made generally more bearable, a great relief to every *Elite* player. Expect *Frontier – Elite 2* in November.



■ The JFK space-port. This is a truth-free zone... It's pathetic really, innit? Trying to be controversial.

DAEMONSGATE 1 - DONOVAN'S KEY

FROM: GREMLIN PRICE: £34.99 RELEASED: DECEMBER

Another newie from Gremlin is *Daemonsgate 1 – Donovan's Key*. This is an epic role-playing game set in the land of Hestor. You are in charge of a band of eight mercenaries sent to locate an elderly Elsopean, the only person who can save your world from being over run by the evil Daemonic hordes. The game presents you with

detailed maps of towns, cities, fortresses and dungeons as well as extensive maps of Hestor itself. Each of the heavily-populated cities is 10,000 screens in size and is divided into five different levels – basement, ground, first, second and third floors. All the usual RPG stuff is in here from Hedge Wizardry, puzzle-solving, armed combat and the interrogation of characters who can provide you with info. Gremlin's proud boast is that this program is the largest and most in-depth game of its genre.



■ "Ere, have you been polishing that bloody vase again? That genie always makes such a mess... cat's hair and frog legs all over the place. I dunno..."

八ATARI



ATARI HARDWA	RE
520ST-E 0.5Mb Start Pack	£249.99
520ST-E 1Mb Start/Family Curriculum	£289.99
1040ST-E 1Mb Family Curriculum	£334.99
1040ST-E 1Mb Pro24 Music Pack	£334.99
Mega ST-E 2Mb Limited Offer	£419.99
Mega ST-E 48Mb HD Upgrade	£260.00
ST-E Upgraded to 1Mb	Add £30.00
ST-E Upgraded to 2Mb	Add £60.00
ST-E Upgraded to 4Mb	Add £120.00
SM146 14" Mono Monitor	CALL
SC1435 14" Colour Monitor	£209.99
ST Book (Aug 92)	£1159.99
TT030option	ns from £929.99
TT 52Mb HD Upgrade	£260.00
PTC1426 14" TT Multisync	£364.99

Forget-Me-Clock II **Cumana Disk Drive Xtra-RAM Deluxe**



- Internal SIMM RAM upgrade for Atari ST-F/ST-FM and Mega ST
- Easy Installation No soldering on most ST's
- Free RAM test. RAM disk & printer spooler software
- Detailed instruction manual
- 10 day money back offer! • Unpopulated.... .5Mb populated £49.99 • 2Mb populated. £89.99 · 4Mb populated. £139.99



- Clock cartridge with full pass through port
- Sets system & keyboard clocks every time you turn on or reset
- Two year guarantee including
- 10 day money back offer
- Only£17.99



- Cumana CSA354 3.5" Drive
- High Speed Access
- Internal PSU
- On/Off Switch
- Capacity 720K Formatted
- 12 Months Warranty
- Robust Metal Casing
- \$69.99 • Only

Alfa Data Scanner Alfa Data Trackball That's A Mouse



- 256 gřayscale hand scanner
- 105mm wide scanning head
- 100/200/300/400 DPI switch
- Rotary Contrast Control
- LED scan speed indicator
- 1 Text & 3 Photo modes
- Metric/Imperial scan scale · Touch-Up software included
- Merge-It software included
- OCR software optional
- £149.99

- Designed for easy one hand
- operation. Reliable Microswitched buttons.
- Supports autofire and
- incorporates click & lock button. • Rapid & smooth point-to-point
- movement. 2 year warranty
- Crystal option with 2 colour shining crystal ball £29.99
- Crystal option £34.99



- Operates in a small desktop area - 70% less than Atari mouse eauivalent.
- Offers 290 doi resolution & genuine micro-switched buttons.
- 12 month warranty
- · Only £14.99

SOFTWARE

Word Processors	
1st Word Plus	CEO OF
Calligrapher Professional	600 05
Calligrapher Professional Gold	£130 05
Calligrapher Professional Calligrapher Professional Gold K-Word 2	£29 95
Protext v4.3	£49 95
Protext v4.3 Protext v5.5 Protext V4.3	699 95
Protext V4.3	£49 95
That's Write	£89 95
Wordflair	659 95
Word Perfect	£169.95
Word Writer	£37.99
Write On	£44.95
DESKTOP PUBLISHING	
CompoScript	£224.95
Pagestream v2.2	£164.95
Pagestream V2.2 Pagestream Font Setseac	£44.95
Timeworks Publisher 2	£91.95
ASSEMBLERS/COMPILERS/LANGU	ACEC
Devpac 2	£42.95
FTL Modula 2 FTL Modula 2 Developer	£48.95
FTL Modula 2 Developer	£69.95
GFA Basic Compiler	£23.95
GFA Basic Interpreter	£39.95
Hisoft Basic 2	£52.95
Hisoft C Interpreter	£41.95
Hisoft Forth	£28.95
HighSpeed Pascal	£71 05
Lattice C v5	£111.95
Lattice C v5	£34.95
Prospero C	£79.95
Prospero Fortran	£79.95
Prospero Fortran Prospero Pascal	£79.95
Prospero Dev Toolkit	£54.95
UTILITIES	
C-Font	£9.95
Harlekin 2	\$41.95
Knife ST	£24.95
K-Graph 3	\$37.95
K-Resource2	\$29.95
Neodesk 3	\$29.95
Turbo ST	\$24.95
VVERCS	£24.95
Tempus 2	520.95
SPREADSHEETS	
3D-Calc	£22 05
DC Cala	£27.05
DG CalcK-Spread	621.05
K-Spread 2	£44 05
K-Spread 3	£67.05
K-Spread 4	
K-Spread 4T	
K opieda 41	.D112.70
Audio/Music	
Band in a Box	£54.95
C-Lah Creator	£170 05
C-Lab Notator	£269.95
C-Lab Notator Alpha	£179.95
Dr T's Copyist App. Dr T's Copyist DTP. Dr T's Omega.	£94.95
Dr T's Copvist DTP	£234.95
Dr T's Omega	£284.95
Dr T's Tiger Cub	£94.95
Dr T's X-OR	C200 05
DI IS A-OR	
Concerto	£29.95
Concerto	£209.95 £29.95

3D/ANIMATION/CAD/GRAPH	IICS
Cyber Control	
Cyber Paint	£34.95 £36.95
Cyber Paint 2	£42.95
Cyber Studio	642.75
Cyber Texture	£42.75
Cyber Studio Cyber Texture Deluxe Paint	642 95
Degas Elife. Easy Draw 2 . Easy Draw 2 Supercharged Hyperpaint 2 MasterCAD	£10 05
Fasy Draw 2	£37.95
Easy Draw 2 Supercharged	£59.95
Hyperpaint 2	£29.95
MasterCAD	£22.95
Spectrum 512	£27.95
ATARI APPLICATIONS	X
AIARI AFFLICATIONS	
Word Processing	£21.95
Database Management Spreadsheet	£21.95
Spreadsheet	£21.95
Home Productivity	£17.95
Personal Finance	£17.95
Basic Programming	£17.95
Home Productivity Personal Finance Basic Programming Programming Utilities	£21.95
Sound & IVIUSIC	£17.95
DATABASES	
DATABASES Adimens Plus DG Base Data Manager Prof K-Data Prodata Accounts	20 403
DC Para	£34.05
Data Manager Prof	634.75
V-Data	£37.05
Prodata	£67.95
A	
ACCOUNTS	
Cashboot Combo	£54 95
Cashbook Controller	£41.95
Home Accounts	£21.95
Cashboot Combo	£37.95
Personal Fin Man Plus	£29.95
System S	£41.95
Communications	
FaSTcomm 2	
FaSicomm 2	£39.95
K-Comm 2	£37.95
IVIINI Office Comms	£18.95
EDUCATIONAL	
Better maths 12-16 yrs	£19 95
Better Spelling Over 8	€19.95
Fun School 2 Under 6	€14 95
Fun School 2 6-8	£14.95
Fun School 2 Over 8	£14.95
Fun School 3 (or 4) Under 5	£17.95
Fun School 3 (or 4) 5-7	£17.95
Fun School 3 (or 4) Over 7	
	£17.95
Magic maths 4-8 yrs	£17.95 £19.95
Magic maths 4-8 yrs Maths Mania 8-12 yrs	£17.95 £19.95 £19.95
Magic maths 4-8 yrs Maths Mania 8-12 yrs M Beacon Teaches Typing	£17.95 £19.95 £19.95 £22.95
Magic maths 4-8 yrs	£17.95 £19.95 £19.95 £22.95 £19.95
Magic maths 4-8 yrs	£17.95 £19.95 £19.95 £22.95 £19.95
Better maths 12-16 yrs Better Spelling Over 8. Fun School 2 Under 6. Fun School 2 Cover 8. Fun School 3 (or 4) Under 5. Fun School 3 (or 4) 5-7. Fun School 3 (or 4) 5-9. Magic maths 4-8 yrs Maths Mania 8-12 yrs. M Beacon Teaches Typing. Micro French GCSE. Micro Maths GCSE.	£17.95 £19.95 £19.95 £22.95 £19.95 £19.95
Magic maths 4-8 yrs Maths Mania 8-12 yrs. M Beacon Teaches Typing Micro French GCSE Micro Maths GCSE. Primary Maths 3-12 yrs. Spell Book 4-6	£17.95 £19.95 £19.95 £22.95 £19.95 £19.95 £19.95 £14.95
Spell Book 4-6	£14.95
Spell Book 4-6. Spell Book 4-6 Data Spell Book Over 7. Spell Book Over 7 Data. Spell Book Data Creator. The Three Bears. Things to do with Numbers. Things to do with Words. The French Mistress.	£14.95 £11.95 £14.95 £11.95 £7.95 £19.95 £14.95 £14.95
Spell Book 4-6 Spell Book 4-6 Data Spell Book Over 7 Spell Book Over 7 Data Spell Book Data Creator The Three Bears Things to do with Numbers Things to do with Words The French Mistress The German Master	£14.95 £11.95 £14.95 £11.95 £17.95 £19.95 £14.95 £14.95 £14.95
Spell Book 4-6. Spell Book Over 7. Spell Book Over 7 Data Spell Book Over 7 Data Spell Book Dota Creator. The Three Bears. Things to do with Numbers. The French Mistress. The German Master. The Idilan Tutor.	£14.95 £11.95 £14.95 £11.95 £7.95 £14.95 £14.95 £14.95 £14.95
Spell Book 4-6 Spell Book 4-6 Data Spell Book Over 7 Spell Book Over 7 Data Spell Book Data Creator The Three Bears Things to do with Numbers Things to do with Words The French Mistress The German Master	£14.95 £11.95 £14.95 £11.95 £7.95 £14.95 £14.95 £14.95 £14.95

HARDWARE/PERIPHERA

Protar Hard Drives TOS 2.06

ProGate II 20 £229.99 ProGate II 40 £289.99 ProGate II 80 £429.99 ProGate II 50DC.... £374 99 ProGate II 105DC..... £499.99 ProGate II 120DC. £599.99 ProGate II 240DC. £934.99 ProGate II 440DC. £1414.99 ProGate II 500 DC £1599.99

The official ATARI UK TOS 2.06 is supplied on a board allowing you to keep your existing ROMS giving compatibility with existing and future software. The board is also designed to be used as an ST-E adaptor for either AT-Speed or ATonce. Please state STE or STFM when ordering.

£69.99 • Only

Please make cheques/postal orders payable to SOFTMACHINE. All items subject to availability.
All prices and manufacturers specifications subject to change without notice.
All prices include VAT and UK delivery. E&OE All trademarks acknowledged



SOFTMACHINE

VISA

£214.99 £254.99 £29.99 £22.99 £69.99 £64.99 £89.99 £19.99

£6.99

£11.99

£14.99

£4.99

...£19.99£7.99

£5.99

£24.99

544.99

.£7.99

Dept STF11, 20 Bridge House, Bridge Street, Sunderland, SR1 1TE.
Enquiries Tel: (091) 510 2777 Fax: (091) 564 1960
Goods are not offered on a trial basis. Goods are offered subject to our conditions of sale.

COOL WORLD

FROM: OCEAN PRICE: £29.99

If you've always wanted to find the rather delectable Kim Basinger in her stockings at Christmas, try Cool World, a 12-level platformer based on the movie of the same name.

You play Harris who has to clear up the mess left after Holli Wood – whose appearance provides the (tenous) Basinger connection. *Cool World's* other creatures build bridges into the real world and cause real objects to become mixed up with cartoon ones.

DON'T MENTION THE WAR

Well, actually, you may as well – what with Virgin soon to be lobbing more "Lest We Forget" material your way in the form of *Reach For The Skies* – Rowan Software's strategy/flight-sim that's based around the events of the Battle of Britain.

This battle was, incidentally, the repulsion of intensive German bombing of Britain by a brave bunch of chaps called the RAF. It occurred 50 years ago in September – hence the timing of the game's release, not that that's

likely to mean much to potential Reach for the Skies players. Via elements of either strategic planning and in-flight combat action, the game attempts to recreate a series of events which altered the course of history. So, if you're sick of hearing your grandad go on about the war and you haven't a clue what that "Never, in the field of human conflict..." speech is all about – Reach For The Skies can give you the opportunity to experience it all and then bore your grandad to death for a change.

II The RAF or the Luftwaffe? It's your choice - but don't expect to be welcome at the Old Boys Veteran Club if you choose that filthy piece of scrap on the right.



TILTING AND LYRICAL

Remember when you went round to your mate's house – you know, the one with the A***a – and he showed you a game called *Pinball Dreams* – an incredible, gorgeouslooking pinball simulation which played and felt just like the real thing. "Is there an ST version?" "No. Ha!" Let's face it, you were bloody jealous, weren't you? Covet no more – *Pinball Dreams* has been converted onto the ST by 21st Century Entertainment developers, Spidersoft.

Things follow the arcade pinball trends as closely as possible, with four themed tables featuring their own graphics, music, sound effects and signature tunes. Up to eight players can participate and, to enhance the competition feel even further, each table features its own high scores that you can save.

There are bags of bonuses, ultra-smooth scrolling and 16-colour graphics – in fact, about the only thing you can't do is boot the table in disgust and cry: "Oh, it's just far too random! There's no skill involved!"



■ Ignition - one of the themed Pinball Dreams' tables. It's actually a variation on Space Invaders - with the bumpers being the aliens and the ball being the laser fire. Er, sorry - there's a bit of confusion somewhere here. Actually, it's a straightforward pinball simulation which happens to look fabulous. Phew.



■ One of the digitised pictures taken from the War Museum which greets you in Reach For The Skies. "OK, chaps, you know the drill - let's aet up there and kick some German ass". "But ... er... I've got a verruca, sir."

INDIANA JONES

FROM: US GOLD RELEASED: NOVEMBER

A 1MByte-only version of *Indiana* Jones and the Fate of Atlantis action game is to be released on the ST, so you can actually play the adventurous archaeologist rather than just veg out in front of the TV with a plate of chips and ketchup and watch him.

In Indiana Jones you control Indy and his sidekick Sophia as they battle against Nazis in the underwater world of Atlantis. There are five 3D stages – Atlantis, Casino, Islands, Naval Base and Submarine, with many sub-levels in which you have to collect a variety of weapons and tools, play roulette, solve puzzles and prevent the Nazis from discovering a secret weapon which could bring World War 2 to an early end.

The game features an isometric perspective which enables you to view Indy and Sophia's exploits from virtually any angle.

SHADOWORLDS

FROM: KRISALIS PRICE: £25.99 RELEASED: NOVEMBER

Shadoworlds is Shadowlands in space with an Aliens-type scenario. While the rest of the Federation settles down to peaceful serenity, you secretly build a weapons facility in a faroff planet. Then something goes terribly wrong and you have to send four astronauts to sort out the problem. They are greeted by berserk droids and some very nasty aliens. Your job is to explore the weapons facility and neighbouring planets to search and destroy these beings before they spread to other planets in the Federation. Well, that's the plot – check out its playability around December.

MORE TURBO NUTTERS

With the emergence of Crazy Cars 3, reviewed in STF 39 and earning a rating of 85%, driving games have a lot to live up to. Gremlin's Lotus – The Ultimate Challenge may well equal Titus' achievement of – shock – a good sequel to a sequel. Its predecessors, Lotus Esprit Turbo Challenge and Lotus Turbo Challenge 2 were both well-received, with the sequel doing precisely what a sequel should – using everything that was good about the

original as a structure for an enhanced version. The Ultimate Challenge seems to be a deluxe version of both games and introduces plenty of welcome tweaks and enhancements of its own.

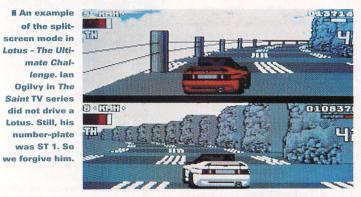
The game features championship and arcade gameplay, five new scenarios, 64 in-built courses spread over 13 levels and a unique track designer. This system is known as RECS, or Racing Environment Construction System and it enables you

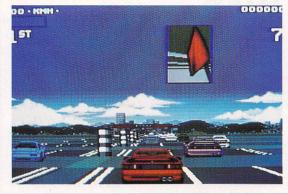
to completely construct the course of your dreams. You can control the frequency and difficulty of curves, whether there are any hills to zoom over, obstacles or no obstacles and even the arrangement of the scenery.

Gremlin have tried to blend everything that makes driving games exciting – realism, speed, variety – into one game and, if this lives up to the hype, then it's going be the first game in history to do so. Only kidding.



■ Would you like a car like this? See, they don't sell these down at Phil's Used Motors Emporium. This is class. Once driven, forever stuck to the seat. Can we say that?





7 "Ladies and gents... the cars are on the starting grid, the red flag is about to be replaced by the green light. The engines are revving, the commentary box is nowhere to be seen and I'm fired."

MOTORHEAD

FROM VIRGIN RELEASED: NOVEMBER

Those lemmings had better watch out because stormtroopers of rock, Motorhead, are hot on their tails with their first venture into beat-'em-up territory in a crucial tie-up with Virgin Games.

Motorhead could be your big chance to live the life of a rock 'n' roll star as you guide

FROM: GREMLIN

Lemmy around six different levels in search of his fellow band members who, for some bizarre reason, have been mysteriously kidnapped.

During your quest you have to drink lots of beer, trash lots of hotel rooms and slap people around the head with wet fish. Still, this hard life does have its compensations — you can always Grab-A-Groupie or go on a Hippy Bop, where you have to drop bits of Stonehenge on all those New Age travellers.

The six levels - Hip Hop Land, Nashville Land, Karaoke Land, Scrapyard, Gothic Land and Rave Land - all feature different nasties who you have to beat off. For example, in Rave Land you are attacked by eight Zebedees, while in Karaoke Land you have Sumo wrestlers to deal with. At the end of each

level a single band member is released. There's a lot of headbutting and gobbing and drinking. Sounds like a night out down your local, doesn't it?

Unfortunately the game won't be blasting out Ace of Spades on your ST's sound-chip – although a limited edition will include a free copy of the band's new album, March or Die. Bet you can't wait for our head banging review, eh?

NIGEL MANSELL'S WORLD CHAMPIONSHIP

PRICE: £29.99
DATE: NOVEMBER

00.39.08 2/5 12/12
00.20.26

00.20.26

■ You can make the driver in front really nervous by sitting on his bumper. Sooner or later he cracks and stops off at a Happy Eater for a cup of coffee and a jam doughnut.

If Nigel Mansell decides not to take up the Indy Car racing option, now that he's been so unceremoniously dumped by Williams, he can always play his own racing sim, Nigel Mansell's World Championship. Buy this and you have the opportunity to win more world championships than Nigel ever did. As usual you get to race around 16 of the world's racing circuits, with the possible added bonus of Nigey himself whispering tactics into your helmet as you bomb around the track.

The circuits are pegged at various difficulty levels and you can adjust your Formula One car's settings at the start of each race. The points you're awarded at the end of each circuit tot up to give you your world championship score at the end of the season.



■ Guaranteed to thrash any Ford Sierra down the M1, Nigel's motor is infinitely customisable and features the envy-arousing beaded seat cover as standard.



BATTLEMANIA



War is hell. It's also extremely lucrative. War software appeals to militarists and armchair pacifists alike. Andy Lowe, **Clive Parker and Chris Lloyd down** the morphine and delve into the vicious world of human conflict

War Games

In 1984 - strictly off the record - Ronald Reagan made a light-hearted jibe at the USSR's expense: "My fellow Americans," he said, "I am pleased to tell you I have just signed some legislation that will outlaw Russia forever. We begin bombing in five minutes." No one got the joke and the remark didn't exactly do wonders for US-Soviet relations. Luckily, everyone kissed and made up, so the nukes stayed in their silos. The stupidity of allowing such ill-advised quips to slip out illustrates beautifully the old adage that military intelligence is a contradiction in terms.

If you'd rather leave hypocrisy or public posturing to the Schwarzkopfs and Husseins of this world, then opt for some non-violent, pixel-based carnage on your ST instead. Here you can freely indulge in virtually every variety of war from strategic planning and commanding to high-tech flying and obliterating. It's easy to make peace - you just turn the other cheek, see the other person's point of view, run away and hide or surrender. However, if you want to command an arsenal of lethal weaponry, declare all-out war, inhale the sweet balm of victory and, er, taste the sour milk of defeat, then your ST can be the ultimate battleground. Welcome to the definitive guide to making war, not love, without leaving the discomfort of your ricketty chair.

bomb was dropped on

Japan - suddenly, people

been raised beyond any-

pened yet and, if it did, it

would undoubtedly signal

the end of everything - no more STF, no more Red

Dwarf, no more sniggering

at early-evening Saturday

TV. Nothing. So just enjoy

World War 3 hasn't hap-

realised the stakes had

one's imagination.

GREAT WAR

The great wars are those in which every country gets involved. Even Switzerland. Well, almost. World War 1 was a terrible conflict, characterised by the use of trench warfare. Millions of soldiers were killed as they charged over no-man's-land in a pathetic bid to storm the enemy's trenches. World War 2 was a bitter battle against Hitler and the evils of Fascism, ending when an atomic

the fantasy, the power of war. Here you can peruse the cream of the Hith great war games, on th including a guide Hun through a possible the o Berli World War 3 scenario when sun b **Knights of the Sky** alwa neve histo

SOFTWARE HOUSE: frogs **MICROPROSE** Kais PRICE: £30.99 antag **ORIGINAL STF RATING:** achti 91% IN STF 34

send

victo

Mun

A simulation of the antics of Yank all th the World War 1 flying aces, all with names like Ginger decla



and Mrs Podgkinson still, vehemently, even after being found guilty and hung, denies sending pictures of Princess The King is said to be most dis-chuffed and is quoted to The King is said to be most dis-counted and is quoted to have said (allegedly) "Bally good shot Fortesque!" as he bagged

THE UNTHINKABLE

The Final Conflict

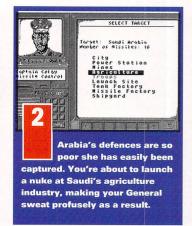
SOFTWARE HOUSE: IMPRESSIONS

PRICE: £24.99

ORIGINAL STF RATING: 75% IN STF 17

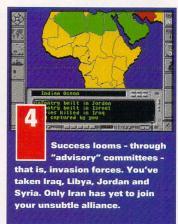
Ask your mates what their idea of a good time is and they're not likely to include

OK, you've selected the Middle-East scenario and this is the state of play before the missiles begin to fly. You're in charge of Saudi Arabia, Algeria and other relevant allies.



"attempting to guide a nation through global nuclear confrontation". With The Final Conflict, this is precisely the deal, so a possible nuclear scenario has been enacted for you to peruse and cry "gosh," "gee" and "I hope this never happens in real life" at







• The chase place view enhances the doglights so much you may well hear yourself hissing "Take that, filthy Hun." If this happens, switch off your ST, take a long, hard look in the mirror and you'de upon how darned meaningless it is.

and, er, Biggles – or was that World War 2? Anyway, you get plenty of opportunities to shout "Chocks away!" and gawp at the inspired and charming intro sequence, filmed in scratchy wobbly-vision.

Options include dogfight encounters – where you can fight it out with a German flying ace, World War 1 – where you battle to become "Ace of Aces" and the head to head option. In this option, if you have a Hayes-compatible modem, you can play against another modem-owning war fantasist.

Knights Of The Sky wonderfully recreates the period atmosphere. The World War 1 scenario is excellent -you're part of an ongoing task with constantly updated newspaper gossip and information, to test all the abilities you picked up during the vital training flights. Slick and witty all the way.

Silent Service 2

SOFTWARE HOUSE: MICROPROSE PRICE: £30.99

ORIGINAL STF RATING: 88% IN STF 30

Silent Service 2 is a heftily realistic simulation of World War 2 American submarine manoeuvres. It follows the subs as they sail deep into enemy territory along the Japanese coastline. As captain of your chosen sub, you alone are responsible for the obliteration of the entire Japanese navy – not exactly something to idly fritter away the time between meals. You have to charge and ram destroyers, stalk enemy ships and casually float into unchartered territories, picking off everything in your path. A game of headache-inducing

complexity and technicality, Silent Ser-

vice 2 offers fresh relief from all those



I "Ah yes, Recues, I see him - cruising to the north-east at six o' clock... Just flue more minutes, he's almost in torpedo range." "Sir, I hate to interrupt but... your shoclace is undone. "Not now, Recues."

sky-conquering flight-sims. It gives you the opportunity to excel in the oft-neglected field of naval heroism. When those ships come into range, it's up with the periscope and, er, down with the suspension of disbelief when you discover your tea has gone cold.



I Black, sleek and night-invisible - hang on, this caption's been used before... This is a picture of a submarine firing at a torpedo. Cripes, these captions are difficult to turife sometimes and, contrary to popular opticion, we are human here at STF.

MODERN WAR

Saddam Hi



ANKING JUDGI
Carruthers-Smythe caught red with the modelly, curvacious.

Anking Judgi
the kinky, sort Mrs. Carruther.

As technology has advanced, so have the workings of war. During the Gulf War, the US used a smart missile which not only targeted a particular building, but was capable of entering through a chosen window. Scary, huh? But without technology you couldn't play games on your ST or read this and, er, we'd all

be out of a job. Even more scary. So, cast your eyes over two of the world's greatest war-games - the technology they contain is so progressive we're not even sure if it's been invented yet...

Thunderhawk AH-73M

SOFTWARE HOUSE: CORE DESIGN PRICE: £30.99 ORIGINAL STF RATING: 91% IN STF 31

There's nothing on the TV, so you're faced with a familiar dilemma: do you (a) experience the thrill of flying classified missions in a Thunderhawk attack helicopter – with twin turboshafts and liquid inertia vibration elimination glass-fibre rotors – or (b)



skulk away to the bathroom and pluck your nasal hairs?

Thunderhawk should convince you that charging around in a chopper is infinitely more desirable, and a darn sight less painful, than attacking your nose with a pair of tweezers.

The feel of this game is incredible – the missions and preflight briefings are superbly designed, while the high-tech appeal is astronomical. The flight-sim/arcade action balance is spot on and if you don't own this game, you're seriously missing out on a major player in the world of ST war-gaming.

SPACE WAR

The Strategic Defence Initiative - Star Wars - was first announced by President Reagan in 1983. It was the first hint of a major project to use space as an arena in war. Countless sci-fi writers have also envisaged

the void as the ultimate place for high-tech battle. Soon Space Invaders was unleashed on an unsuspecting world and progress in space-war simulation was not far away...

Star Wars

11011

SOFTWARE HOUSE: DOMARK PRICE: £24.99 ORIGINAL STF RATING: NONE

In the early '80s, Star Wars appeared in the arcades as one of those sit-in compartment thingies. The action was based around superfast vector graphics and, at the time, was pretty damned exciting. The ST game is a faithful, if rather grizzled, conversion retaining most of the speed and all the action of the original.

You take on the role of Luke Skywalker – the innocent blue-eyed interstellar freedom fighter – and fly an X-Wing Fighter on increasingly difficult missions. Your ultimate goal is to enter the exhaust port of the hated Death Star and blow the



■ You fly over the Death Star's surface and shoot lots of yellow things with white bits on the top. Makes you nostalgic for the old days, doesn't it?

thing out of space. It features some simply drawn graphics which, in a gratifying, stylised sort of way, propel the action along convincingly. It's a well-designed, frenzied blast-'em-up which becomes staggeringly difficult on some of the later missions and, as someone once said: "Old does not necessarily have to mean boring." Try telling that to Malcolm Muggeridge.



■ Shoot those TIE fighters, Luke. Anyone know what TIE stands for? Well, before you write in - it's short for Twin Ion Engine, trivia fans.

9 Doll / The Daily Planet



"May the format be with you." Our darth,tomorrow.



■ "My missiles are better than yours." The pilot regrets this taunt via the warhead of an AIM-10B Cobra infra-red air-to-air missile.

F-19 Stealth Fighter

SOFTWARE HOUSE: MICROPROSE PRICE: £30.99 ORIGINAL STF RATING: 96% IN STF 12

The novel-like manual is a little scary but, with perseverance, this is revolutionary stuff. In hind-sight, *Thunderhawk* probably has the edge gameplay-wise, but for sheer atmosphere and depth F-19 is unbeatable – an astonishing

two years after its initial release. It's much more than a flight sim and, for your cash, you get plenty of useful goodies – including maps, keyboard overlays and a handy technical supplement. The chance to fantasise about being in control of a radar-invisible, space-age example of technology is irresistible. This is an astounding example of how it should be done – although the original rating seems a tad generous in the light of *Thunderhawk*.



■ You get a real buzz when you blast enemy SU-27s from the sky with AIM-9s. Who said anything about sad individuals with superiority complexes?

WHAT CAN A SATELLITE REALLY DO?

Spy satellite technology is advancing faster than most people think

Several years ago it was possible to read the number plate of a car from an orbiting satellite. Now it is possible to read the headlines of a newspaper and even identify individual people from a satellite.

During the Gulf War, the combination of satellite, air and ground-based surveillance technology enabled the Allied forces to distinguish real enemy tanks from mock-ups by using the infra-red heat signature given off by the target. Coupled with sophisticated night vision devices and laser guided weapons, surveillance technology was able to give the Allies the advantage on the battlefield.

It's also possible to eavesdrop on mobile phone networks by satellite, as well as by terrestrial high frequency scanners. Sensitive radio-listening birds are able to pick up the relatively weak signals given off by mobile phones from orbits that are over 150 miles high. So you'd better be careful what you chat about on that late night phone call.

■ The planet you're on is about to be

destroyed by a supernova and you

need to leave as

quickly as possible. However, there are

masses of red tape

to cut through. Fuel

expenses, futuristic

job's-worth at the

food tablet costs, the

planet Potead spaceway service station...

the hassles are end-

Epic

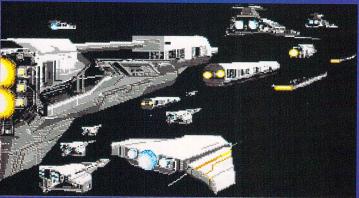
SOFTWARE HOUSE: OCEAN
PRICE: £29.99
ORIGINAL STF RATING: 91% IN STF 37

Space war is never going to be the same again. *Epic* has been labelled as both an over-rated anti-climax and an insanely brilliant, visionary piece of software.

A race deserts its dying planet and passes through the exclusion zone of the aggressive Rexxon empire igniting a war of immense proportions. Wonderful. The manual is written in a meticulous sci-fi style and is packed with impressive, believable detail. The game's intro sequence is astounding a cinematic series of images, underscored with the brilliantly sampled and heart-stoppingly melodramatic *Mars*,

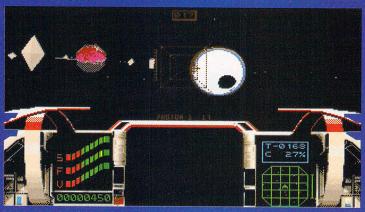


■ The bit that causes all the trouble. The violation of Rexxon's neutral zone is a major faux pas which manages to annoy enough people to start a war which involves 60 million of them. Bad move, perhaps?



The God Of War from Holst's The Planets Suite. Superb. But, er, what about the game? Epic is, undeniably, something of an anti-climax. Design, atmosphere and gameplay are faultless, but it's just too easy. Sadly, this has dire consequences for a game's lasting

appeal. Perhaps the inclusion of difficulty levels would have been an idea? Digital Image Design have done wonderful things with the ST version and, despite the niggles, *Epic* still heartily deserves its *STF Gold* rating. But what do you think? Letters please.



■ Mission One. A spot of mine-blasting gets you used to operating the *Epic* star fighter before you start the real business of showing those infernal Rexxons who *really* rules outer space.

CLOUD BUSTING

There isn't a lot of ST-related software on the market which enables you listen to the enemy, but here are a few related PD programs

ST Club - Disk COM.33

MOAA: a weather satellite decoder including C source code for the software, and and circuit diagrams to construct your own system.

HAMHELP: a program that gets satellite positions.

STUMPF: a satellite position and velocity calculator.

Goodman's International -Disk GD942 DISTURES FROM SBACE

this is the full version of the program, complete with instruction manual supplied on disk as an ASCII file. The main program decodes and displays pictures from about a dozen satellites using

WEFAX format and you can use it with the Electronics Decoder from Maplin's. This is a Shareware program, so register.

PFS ORBIT: a program that prints or displays a list of satellite passes up to 25 degrees from the observer. Any satellite can be tracked with it.

ST Club - Disk COM.35

This disk consists of morse code trainers and utilities to

generate morse code.

Goodman's International Disk GD966

SMART TRACK: a satellite tracker with data files for the operating schedules of various satellites. This mono program comes with a mono emulator as well as data entry and manual tracking modes.

ST Club - Disk INF.26
THE WORLD DIGITIZED: this
disk contains co-ordinates

Enigmatically yours

War isn't all charging about with Tommy guns and ranting on about the foreign johnnies. Anyone with a radio can tune into anyone else's radio signals, so, unless you want the enemy to hear all about your secret invasion plans, you need to encode your messages before you transmit them. Pretty soon you'll find a race has started as code-makers from one side try to outwit the code-breakers from the other. Code-making and breaking is every bit as important as the shooting bit and if the enemy's code-breakers are cleverer than yours, nothing you broadcast is safe.

During World War 2 the Germans built their Enigma machine – devilish in design and ingenious in operation – and were terribly pleased with it because they believed the code was unbreakable. It used three rotors and a series of lightbulbs connected to a keyboard. Characters were typed in and passed through the rotors being transposed into other characters as they went. Each rotor carried 26 contacts, one for each letter of the alphabet. In went an A, for

example, and it was changed into another character by the first rotor then the second and third, before being reflected back through the rotors changing as it went. The final result was displayed by the lightbulbs.

The whole process was self-inverting – if you set the rotors in the same position when you typed in a coded message, out came the original. All very clever, but what made it really smart was that the rotors moved after each input. The first rotor moved by one position until it had moved 26 times, then it moved the second rotor by one place.

Another rotation of the first rotor moved the second rotor again. Once that had moved 26 times, the third was moved by one place and so on. This meant that each letter went through 17,576 different permutations of code before arriving back at the original position – fiendish indeed.

The British assembled the cleverest code-breakers they could find to defeat this monster and eventually succeeded in cracking the Enigma code. However, the Germans didn't believe it and carried on using their machine – as a result, many top Nazi secrets were over-heard and

ASSORTED WAR

Plenty of games in the carnage genre don't conveniently slot into a

The Duke of Wellington will



"Britain is a nation of ST owners" Our Boney, yesterday.

particular category and generally overflow into other pigeon holes, making a dirty great mess everywhere.
Others are too darned weird to present in filtered and lucid language. This is their bit



A measurger brings never of the various benefities within secur in the lends you hope to take over. He tentrify units the humorous animal or nutrity tribleto.

Powermonger

SOFTWARE HOUSE: ELECTRONIC ARTS PRICE: £29.99
ORIGINAL STF RATING: 93% IN STF 19

God-games like Supremacy and Populous have always been good for the occasional day or two at the keyboard. Powermonger – in which a lunatic



I You know how it is - you're trying to get out there and show 'em how this hattling and est ing your meat is done - and, would you believe

al Bothens

eat victories

because the

erious fight

for 100,000 points on the Earth's surface and includes the latitude and longitude of borders and coast-lines.

This disk consists of data files only, there is no program supplied to make use of the information.

Goodman's International - Disk GD1582 Another satellite orbital

Another satellite orbital prediction program that runs in medium or high resolution.

decoded by the Allies.

The evolution of the computer also got a boost with the construction of Colossus – the world's first modern computer – to help in the decoding of Enigma. Colossus was so big you could walk inside it and a small army of technicians was employed to program it. Your ST can do the same job without any problems.

On the Cover Disk is a complete Enigma simulator. In fact, it goes one better than the original, enabling you to use 38 characters rather than the original 26. With it you can encode text files so per-

Goodman's International Disk GD31 and Disk

These contain tracking programs and satellite information. GD31 features the *Orbit* program (mono) while GD458 has the popular *NORAD* real-time multiple earth tracking satellite program (colour and mono).

Contact

Goodman's International © 0782 335650 ST Club © 0602 41024

manently that nobody could understand them, unless they also had the program and knew the correct rotor starting positions. It may be old, but the coding is almost as difficult to break now as it was then.

The spy in the sky – your ST?

Imagine the scenario – you turn on your ST, load a program from the hard drive and – wham! – live surveillance pictures are beamed directly to your machine from an orbiting spy satellite. This idea

MENTIONS IN DISPATCHES...

Some of those other war games which didn't quite deserve such a thorough going-over

ARMADA, AUSTERLITZ and WATERLOO from PSS, as well as almost all the other Impressions games.

ARMOUR-GEDDEN from Psygnosis.

BATTLE COMMAND and F29 RETALIATOR from Ocean.

DAMOCLES and MERCE-NARY 3 by Novagen.

FULL METAL PLANET from Infogrammes.

isn't as fanciful as it seems – you can now buy a satellite receiver package which interfaces directly with any home computer system. The Mapsat Weather Satellite Receiving System is a complex project from Maplin's (© 0702 554161) enabling you to receive weather info from the American TIROS-N and Russian Cosmos/-

M1 TANK PLATOON and UNIVERSAL MILITARY SIM-ULATOR from MicroProse.

MIDWINTER and MIDWINTER 2 from Rainbird/Micro-Prose

PACIFIC ISLANDS and TEAM YANKEE by Empire.

STARGLIDER 2 by Rainbird.

STEEL EMPIRE from Millennium.

SUPREMACY by Melbourne House.

THEIR FINEST HOUR: THE BATTLE OF BRITAIN from Lucasfilm/US Gold.

We could go on and on. But we won't...

Meteor satellites. Mapsat is supplied with instructions for all connections to your RS232 port and includes detailed BASIC listings. Mapsat costs a lot at £500 but it proves what can be done with your ST and the right equipment. Of course, this is not a spy satellite receiver system but the principles in use are the same.

megalomaniac dictator stomps around, conquering everything in his path – is one of the finest examples of the genre. You can even link up your ST with your pals' via a modem or data link, which brings an exciting new dimension to the game. But with 195 territories to conquer, the business of taking over the entire region is far from casual and, as you face better equipped armies and scarcer resources, it takes a little more than bloodthirsty massacring to become the ultimate warlord.

Risk

SOFTWARE HOUSE: LEISURE GENIUS PRICE: £24.99
ORIGINAL STF RATING 68% IN STF 9

As the success of the *Risk* board-game showed, not everyone thinks war is about spraying everyone with automatic weapon fire and lobbing incendiary bombs into hospitals. There's also the business of – *whispered quietly* – strategy to worry about. Let's face it,

you may have an elite fighting force under your control, but, if you order them to charge into a heavily defended area without adequate cover, then they're going to rapidly become an exelite fighting force. Risk deals with the battle-of-wits aspect of war which conjures up images of portly generals standing over miniaturised representations of battle areas, as they push models of troops and tanks around with those stick thingies. A decent enough emulation of a classic board game intended for the more theoretically-minded as opposed to the Ramboesque.

Battle Chess

SOFTWARE HOUSE: ELECTRONIC ARTS PRICE: £24.99 ORIGINAL STF RATING: NONE

Chess is the oldest strategy war game ever, but it sends many people into reveries of boredom at its very mention. It's also an astoundingly popular club activity played at community centres all over the world. If you don't know how to play, here's a quick resume of the rules... Oh, forget it - we'd be here all day - suffice to say that if it's a more, er, metaphorical perspective on the art of battle strategy you're after, you can't do any better than Battle Chess. It's a wicked, hard-drive installable game and the animated slaughters are gleefully violent. This is how to experience war with your slippers on.



The bishop - normally a serene, peaceful individual who abhors violence and, or, moves diagonally - lays into the knight and viciously slays him in a ferecious orgy of brutefity. Weird, both?

Protext is Unbeatable Value!

Protext 5.5

"If you need a professional word processor Protext is perfect" AMIGA COMPUTING

Amiga Format and ST Format Gold Awards

1Mb required (Amiga or ST). Free demo disk available. Upgrade from any earlier version on same computer just £40.

previously £152.75 now just £80

previously £99.88

now just £40

Prodata

"... reliable, easy to use and excellent value" AMIGA COMPUTING

Database manager. 1Mb required (Amiga or ST).

Exfile

The magazine for Protext users. Packed with information to help you make the most of Protext including mail merge and macros, printing solutions and tutorials.

6 Issues for £15

Announcing Lapcat ...

a new easy-to-use transfer solution for sending files between different types of computer.

Lapcat was designed for the NC100, Amstrad's new Notepad Computer. To make file transfer easy something new was needed; the difficulties in sending files via the serial port are well known - the problems of different connectors, different types of leads, baud rates and the software at the other end. Lapcat is a combined software/hardware package that transfers files quickly via the parallel port.

The Lapcat software is built into the Amstrad NC100. The standard package consists of the Lapcat lead plus software on disk for the computer of your choice. This will enable you to transfer files between an NC100 and your chosen computer. Lapcat is not just for NC100 owners because you can buy software to transfer between any two of the supported computers. No technical knowledge is needed.

Lapcat prices:

(Please state clearly the type of computer you are using - PC, Atari, Amiga).

With software for one computer $\mathbf{f40}$

Software for extra computers £10 EACH







FEEDBACK

Don't just
whinge, do
something
about it!
Write to
The Editor,
Feedback,
ST FORMAT,
30 Monmouth
Street,
Bath, Avon
BA1 2BW



Advertising standards

I noticed in STF 38 an advert for one of your numerous sister magazines, PC FOR-MAT. The interesting part of the advert was not the main content, but the small print at

the bottom claiming that a 25MHz clocked 80386SX based PC is faster than the new Falcon.

They also imply, both in the advert and in the magazine, that the IBM PC and its compatibles have provided a constantly upgradeable and stable platform.

Obviously a 25MHz processor, to the uninitiated, will appear faster than a 16MHz processor, but in the quoted case, this is blatantly untrue. The 68030 is a full 32-bit processor with an onboard instruction cache. The 80386SX is a 32-bit processor

internally, but with only a 16-bit data bus externally. Thus it takes the 386SX two instruction cycles to access 32 bits of memory, where the 68030 takes just one. Add to this the fact that most 32bit fetches are for the instructions themselves and it becomes clear that clock speed does not equal processor speed. Far from it, since most CISC processors such as the two above take, on average, several clock cycles to execute a particular instruction and this average cycles-per-instruction ratio varies widely between different processors.

Having said that, there is the general claim that the PC listed is faster than the Falcon. The Falcon will be a state-of-theart machine and you need a very fast PC to equal its processing power. Processor speed is measured in MIPS (for measuring the execution speed) and in Whetstones (for measuring the mathematics speed) and not in MHz, as used by the people at *PC FORMAT* and several other PC magazines, though measurement by MHz is useful for comparing different PC compatibles.

To build a PC equal to the Falcon you would need at least an 80386DX based PC, clocked at 33MHz - the high clock speed being needed to compensate for the speed loss because of DOS and the BIOS. You would also need a fast VGA video card (since the cards fitted as standard by most suppliers are inadequate for playing graphically intensive games), say one of the ORCHID range, a multi-channel sound card and as much memory as you can afford. The cost of such a setup would

LETTER FROM ABROAD

Where's Aggression's name?
When you review games, you always mention the publisher of the game, not the games store in which it is sold. Why is it not so with demos? As the authors of Overdose we were quite disappointed when our name was not mentioned in the review in STF 38, but instead of that there was the name of a PD library that sells our demo in the UK.

When making a demo our purpose is not to give an opportunity to make easy money for a PD library, but to face new challenges, to get more experience and to gain fame and honour among other ST users.

Do not try to claim that PD libraries do not make money - if the situation was so bad, there would not be any such libraries. Paying £3 per disk, which you mention as a general cost, is far

too much. When PD libraries can buy thousands of disks directly from the manufacturer or importer, they surely will not pay more than 30p for each disk you must have very expensive stamps over there!

It doesn't really matter to us if we get no money for our work (although it took three months of hard work to get that demo ready), but when somebody else tries to get rich quick when we have done the hard job, it just makes us angry. We think that this is a violation against copyright law, just like piracy is.

The whole idea of PD is to give it away at no cost. So, all you ST users, do not buy PD from a PD library but copy it from your friends!

Xenit and Lancelot of Aggression of Armada Kerava, Finland stf: You don't have to let PD libraries distribute your demos, all you have to do is state in the demo itself that you expressly forbid it. I must say though, I can't see the point.

If what you want is "fame and honour" then surely you'll get that by reaching a wide audience, the kind of audience which PD libraries reach.

If you rely on friends copying programs then you're immediately cutting off a large proportion of your audience because there are lots of people out there who don't know any other ST owners. These people rely on PD libraries for demos and Shareware programs. Perhaps you should set up your own PD library – that way you could ensure users of STs were getting your programs cheaply and you'd be rewarded for your hard work.

FORM NOVEMBE

FALCON RISING FROM THE ASHES?

It's here at long last and what's it like? Well, it's fast, versatile, powerful and available now. What isn't it? Selling! The reasons are quite simple: 1. It costs too much. 2. Everybody is waiting for the Falcon to come out.

Atari can fix the first problem - just reduce the price. Yes, I know it cuts into their profit margins, but compared with the average PC clone the Mega STE is over priced and under powered.

The second problem is much harder to solve. Atari just can't deliver the Falcon on time. They know that. We know that, yet we all keep our money in our pockets, waiting for this mythical £550 68030 machine that has been promised to us for so long.

I repeat, Atari can't deliver on time! Based on previous performance, the Falcon is not going to appear in this country in any quantity until this time next year! Just look at the effort it took Atari to release the Mega STE and TT. How many botched releases, how many hardware problems, how many supply problems, how much messing around until you could actually buy one? Does anybody think the launch of the Falcon is going to be any easier?

Why does this matter? Well, it matters because it is killing sales of current machines. Who in their right mind would buy an STE or a Mega STE when all the signs indicate that this worldbeating Falcon will be here early next year? How many Christmas purchases will be put on hold waiting for this

wonder machine to arrive? All the time there will be a steady attrition of potential buyers migrating to PCs, Amigas and Macs. Only die-hard ST owners who need a new machine now and can't wait any longer are going to buy. What is the solution?

Atari must either launch the Falcon now (which they can't do) or dampen down speculation with a good Mega STE price cutting and promotion campaign, otherwise this limbo we're in will do Atari immense harm. I'm not a doom and gloom merchant really, but sometimes the obvious has to be said. Despite owning what is likely to become the forgotten machine - the Mega STE, didn't you guess? - I wouldn't be disappointed if the Falcon hit the high street tomorrow. At least Atari would make some money. Promising a pipe dream has the opposite effect, and, if Atari goes down, then where are we? **Roland Given, Essex**

stf: Atari have launched Falcon, Roland. It had its British unveiling at the European Computer Trade Show in September. As to when it will appear in bulk in the shops, Atari have said all along that it will not happen until early 1993, they haven't changed their tune suddenly or anything.

Your points about the ST are a little premature. Alright, so the Falcon's a brilliant machine, but it's an utterly different concept to the ST. The price of the ST will drop, there's little doubt

about that, but it won't damage sales because different people will buy the Falcon to those who will buy the new cheaper ST. Besides, it's not as if the 850,000 people who already own Atari's most successful product are going to simply throw it away. Any ST owner is assured of continued use from their micro because there's already so much software in existence and there's more on the way.

ighty big RAM

I've been reading with great interest reports of the Falcon. However, I noticed that the machine will be able to support a massive 14MBytes of RAM! What on earth would you need all that for? OK, so it will be possible to buy the machine with either 1, 4 or 14 MBytes installed so smaller users will be catered for, but it bothers me that some programmers may start to create rambling epics which will not fit into the smaller memories. A case in point is the current PC software scene where most games are installed on to hard disk because they take up so much space where, in fact, if the code was more tightly written, the same game could fit on a couple of floppy disks. Does this mean that eventually everyone will require a 14MByte setup and that all the other machines will simply become obsolete? Michael Hull, Lancs

stf: Of course not, Michael. Atari have included the option of 14MBytes mem-

be in the region of £1,500, for which you could have a Falcon plus lots of extras.

But, I was forgetting, the Falcon also contains a DSP 56001. This chip is not just for handling sound and pictures, as you seem to suggest in your preview, but is also a lightning fast processor which easily outperforms even a 32MHz 80486 because it can perform operations in parallel and with phenomenal efficiency. So maybe those PC owners who want the sheer processing power of a Falcon had better wait for the 80586 50MHz to come out...

Second, you know the one about the PC having being around, unchanged, for ten years or more, while other computers (ST, Amiga, Mac et al) would have required you to keep upgrading them to be able to run all the latest software?

Well, the first PC launched was the IBM PC, based on the

8088 processor. It was about half the speed of a Sinclair ZX Spectrum (launched shortly afterwards and still around with the hardware totally compatible with the first version and still supported by the major software houses) and had two 180K 5.25 inch floppies, and a CGA monitor for £2,300. This became the PC XT when the processor was changed for the 8086, similar to the 8088, but with 16-bit registers. Upgrading meant changing the motherboard at a cost of several hundred pounds.

Then, in the late 1980s, came the 80286, a 16-32 processor, like the 68000, so the original PC lasted about six years. In comparison to the then top of the 68K family, the MC68020, the 80286 was only about half as fast in terms of its absolute MIPS rating. Upgrading, again, meant changing the motherboard, though often a new version of DOS had to be bought. Soon came the 80386 and 80386SX, the full 386 being a full 32-bit processor plus memory management unit. The SX version was essentially the 80286 plus the memory manager. The standard STFM possesses about the same processing power as a 16MHz 80386SX based PC compatible (note that when I refer to the processor power, I mean that of the entire computer plus operating system, not just the CPU). Again, because of the different data buses, a new motherboard had to be bought for the upgrade.

Fortunately, a few companies have now produced boards in which the 386 can be replaced directly by a 486 (which is an 80386 plus maths coprocessor on one chip with some streamlining to enhance its speed) enabling a cheap and simple upgrade. However, the 80586 looks set to have extra pins and extra data buses to handle the CDi functions, meaning that a new motherboard will again be necessary. The point of all this history is that, while the 80486 based PC can run everything the first 8088 based one could, the reverse is definitely not true. The old hardware is no use if you want to run stateof-the-art software because you have to keep upgrading the machine - the same as with every other computer ever - and now the latest PCs use a new bus system which requires a completely new set of cards!

The cost of upgrading to the latest PC, had I bought an 80286 based one in 1986, would far exceed the cost of the new Falcon. The cost of the latest state-of-the-art STE (£300) is less than the cost of the original 520 ST when it was launched (£750). whereas the latest state-of-the-art PC is at least twice the price of the original IBM PC.

It is also worth noting that in the offending copy of PC FOR-MAT issue 11, page 109 they say ory expansion for those people who require it. Recording studios, video labs and the like will have 14MByte machines because they'll be doing lots of extremely memory intensive stuff, like interpreting raw video images.

The average home Falcon user will be quite happy with the standard 1MByte of memory and any games which appear will be designed for that sort of space. The point is that the vast majority of PC owners have large hard drives and lots of memory and therefore the programmers take advantage of it. The Falcon setup will be completely different and they'll be sure to bear that in mind.

More PC prograstinatio

I own both an STFM (bought nearly four years ago) and an IBM PC clone and am very happy with both, but my complaint is that some magazines, including ST FORMAT, give the readers the wrong impression.

To ST owners, the Falcon may look amazing, fantastic and be everything you could ever want from a computer, but, to be quite honest, apart from a new bit here and there, it's nothing new at all. You claimed: "Falcon is capable of displaying any of these PC games screen grabs at higher resolutions and in more colours," yet the graphics resolutions are not all that impressive. Consider the graphics capabilities of 1,280 x 1,024 - 256 colours, 640 x 480 - 16 million colours on-screen graphics of which the PC is

capable. Consider playing *Monkey Island* and *Loom* at the same time in different windows on the screen, with both games using 256 colours.

The Falcon looks to be on a par with a 25MHz 386SX (32-bit processor, 16-bit bus, four MIPS) with a 512K SVGA graphics card, a possible hard disk and connection to a CD Rom. This new Atari will kill the Amiga (600HD included) stone dead, but as for killing the PC, Atari will have to have a rethink. The PC is already onto 50MHz, 486DX machines (32-bit processor, 32bit bus built-in maths processor, 22 MIPS), 16 million colours on-screen, CD Rom today and not promised for tomorrow. You might say that the PC is a business machine and nothing more, yet multimedia is progressing faster on the PC and Mac than any other computer. These machines may well seem to cost the earth, but think of it this way - in another four years what will your ST or Amiga be doing? It may be worthless.

All I'm trying to say is stop giving PC owners a hard time, the modern PC is still capable of giving the Falcon a run for its money before it's even released, and the 586 should kill it.

Anthony Barker, County Durham

stf: Dear me, what a load of rot. I don't quite know where to begin. Right, firstly you say that a PC is capable of displaying 16 million colours. Yeah, right, if you fancy installing a £700 graphics card it is. Your average

386 is capable of displaying a very average 4,096 colours in its supposedly wonderful "Super" VGA mode. Falcon can do 262,000 colours as standard. The Falcon is not on a par with the 386SX, it's light years ahead of it. How many PCs have a digitial signal processing chip built in? The simple fact is that Falcon has between 30 and 35 MIPS of processing power on its PCB and you can only touch that kind of power on a PC after you've spent another few thousand quid being ripped off with sounds and graphics cards. Even then, Falcon is better because it has been designed to cope with massive sound and video inputs whereas a PC is simply a glorified Lotus 1-2-3 terminal. If Falcon was simply running off its 32-bit 68030 CPU without calling on the DSP or Multiplexer, it would still be more powerful than a PC.

The Falcon is a real multimedia machine. It hasn't been hastily pointed in that direction with badly fitting hardware. I recently saw a graphics card for the Macintosh which cost \$5,000 and enabled you to input video data and cut and edit it into films within the Mac environment. You can do all that on a standard Falcon, so put your wallet away. Lord only knows how much it would cost you to create a PC setup which could rival Falcon's, but you wouldn't get much change out of £2,500. Nope, the modern PC can't touch the Falcon and the 586 won't even dent it. Dream on.

"Most games publishers stopped developing for the ST last year..." in answer to a letter complaining about the way PC technology becomes out of date so fast - witness Bullfrog only developing for the 386 and above, a machine which has only been around in any quantity since 1990 and is out of the price range of most home users. Finally, in another letter answer, they claim that Windows is friendlier than both GEM (debatable) and Mac Windows (most certainly it is not!) When was the last time your ST or Mac GUI crashed, trashing your last few hours work? My father's 33MHz 386DX does it for him regularly because of Windows' unreliability, while I use my ST for hours on end, only losing memory content when I finally switch it off, and I have every issue of ST/AMIGA FOR-MAT and STF to prove it!

To conclude, the originators of the *PC FORMAT* ad made sev-

eral claims based on almost total ignorance of the true meaning of system speed. This results in a misleading advert, which is surely bordering on advertising standards infringement, and my main point in writing to STF was to suggest careful vetting of any adverts carried by you to ensure what they say is not misleading. So the PC is definitely not all that some parties are trying to make it, so don't be deceived by the PCF ad's small print. Note also that the PC listed will, with extra RAM, barely run Bullfrog's future 386 releases, and it still needs a soundcard. So, don't buy a PC, wait for the Falcon and listen to ST FORMAT.

Matthew Bednall, Electronics Engineer, Macclesfield, Cheshire

stf. All very true, Matthew. We didn't particularly enjoy what the PC FORMAT team were saying about the ST and Falcon, but it's

good to be backed up by someone who quite obviously knows what they're talking about.

Having said all that, who really cares about PCs? The owners of that particular dinosaur of the computing world seem to spend as much time as Amiga owners trying to score points off the ST, perhaps to justify the wasted money they've spent on computer equipment.

Prodigy

Call yourself Llamatronix? Or Yakkers? Or... well, maybe not! We'd like to throw down the gauntlet of our daughter Jenny's Llamatron score – 789,696 – saved to disk. Any other seven year olds in the same league? Steve and Denise Milward,

stf: Well, he may not be a seven year old but Andy Lowe, STF's erstwhile staff writer, has managed to score 2,000,328 on that very game. We at STF reckon he was using a special joystick or a cheat or something. Either that or he's just rather good at it.We just stick to Pacman.

Lame Brains 2

A recent letter in your feedback column caught my attention and the reply you gave annoyed me because you simply don't know what you're talking about. I am, of course, referring to the Lame Brains letter from Adam Nolan, and I thought I should put the record straight. First, Lamers is not a term associated with everybody but coders - it is a phrase used to describe those who steal code from others, usually by hacking, and then try to take credit for it without giving the author any mention. This is something that does annoy coders, and people who do this are seen as the scum of the earth, hence the term lamers. Second, those few coders who could

YOUR LETTERS

really be called Anoraks are those who code and have nothing better in their lives than the computer. Sadly, there are a few like this, but if you've ever tried to actually code a few green balls whizzing around on a starfield background, then you'll know it's an enjoyable mental task. And no, coders do not talk about bytes and registers all the time, they're normal people who happen to like trying to push themselves and their machines to the limits. How do I know this? Well, I'm a demo coder as well and no, I don't just code, I have other hobbies and I have a social life the same as everyone else. In future, please engage your brains before opening your mouth!

Nexus of the Wild Boys

stf: Well, Nexus (?) I'm sorry that you feel so upset about my definition. However, I am talking from experience. Way back in the dark ages of computers, before the ST even emerged, I got into coding in fact I used to program games and dare I say it, demos. I can program in C, Pascal, assembly code or BASIC, but these days I find the prospect of programming anything other than the trip-meter on my car to be an extremely odious task.

I'm fully aware of the time it takes to get some green balls whizzing around on a starfield background, what I can't understand is why anyone would want to. You say that it's a pleasurable mental task which is fair enough, but why don't programmers attempt to create something either interesting or useful rather than the cruddy little demos which have been doing the rounds for the last decade? I'd also like to throw your closing comment back at all those juvenile demo coders out there who think swearing is a terribly clever or hard thing to do.

Maxwell's Cadaver

Could you please tell me exactly what has happened to Mirrorsoft – have they been taken over by another company, for example?

I have Mirrorsoft's Cadaver and I desperately need to know how to get past the guardian dragon. I am already addicted to the game and, although I have managed to complete 96% of Level One, I still haven't succeeded in thwarting the dragon. Can anyone help me?

Christopher Keers, Surrey

TEN BIGGEST COMPUTER DEALER LIES

- 1. This new machine is fully compatible with your old software.
 - I use this model of printer myself.
- , It's worth paying the extra for an Amiga. . The educational software is so good,
- your child won't want to play games.

 Lipersonally have not found any problems with the Atari PSU.
- 6. We are expecting them in next month.
- 7. I will ring you tomorrow without fail.
- 8. This particular modem will keep your phone bill down.
- No, sir, it's no trouble getting a machine out for you to try.
- 10. Yes, this software is very user-friendly.

 L McGowan, Hull

stf: Mirrorsoft has gone the way of the rest of Maxwell's ill-gotten empire, it has been dissolved. Can anyone help Christopher with his problem with Cadaver?



Anglo-saxon dominance

I wonder if you or any of STF's readers have picked up on something very strange set in the wonderful world of computer games. Take Monkey Island

"set deep in the Caribbean," so it says on the box. So how come there's not even a hint of a single black person? Or Populous 2 lots of little white guys running around again and no blacks. The list is endless: Cruise for a Corpse, Shadowlands, Powermonger, Double Dragon. Now I can understand, say, Populous -Peter Molyneux is white, so are all the rest of the Bullfrog team and they're just being a bit thoughtless - but it's Lucasfilm I find unforgivable. The only blacks were savages (great stereotyping). In an interview printed in STF one of the programmers compared the game to the film industry of around 1911. So does this mean that racial attitudes are stuck there too? Come on, black and Asian people play computer games - don't do this any more. No wonder Michael Jackson lightened the pigment in his skin (allegedly). Kids are very vulnerable to this sort of thing, you know. Oh yes! I almost forgot - there was Daley Thompson's Decathlon, available on the Spectrum, but in that he was coloured red.

Séan Smith, Edinburgh

stf: Sorry to correct you Sean old chap, but the Sword Master in Monkey Island is black. She's also one of the one main characters and a woman at that. How much more positive discrimination do you want? You do have a point though, there really isn't

the kind of variety of people in computer games which exists in this country. The British Isles are a particularly cosmopolitan collection of rocky outcrops and it would be good to see a little bit of that reflected within ST games.

Time-space continuum

Being very interested in desktop publishing, I was intrigued by the cover picture of STF 38, not because it features a picture of an attractive young lady - at my age I'm past all that. No, to me the amazing thing about it is that the aforementioned lady is reading the finished STF. How can you photograph something before it exists? A clue is the bottom right corner of the cover - a barcode and the Future Publishing logo. Had the photographer nipped into the future, taken the picture, then returned to his natural time/space co-ordinates and then photographed the magazine he took earlier at a later date? PS: Could you tell me who won the 1993 Grand National?

Paul Chambers, Notts

stf: OK, we can let the cat out of the bag. If you look carefully at that cover you can find a very large clue, namely the advert on the back cover of the magazine which Helena (the model) is holding. If you look at the back cover of the actual issue you can see that it's different to the real thing.

Nope, Steve Fardy, our wonderful Art Editor, prepared most of the cover and then scanned it onto our Macintosh system. He then shrank it in size and positioned it carefully over the issue which Helena was holding, namely STF 37. So there you go, we're not time travellers but we can exclusively reveal that Miss Saigon won the 1993 Grand National. The odds were 7-1.

Pot black mark

I am writing to complain about the game Jimmy White's Whirlwind Snooker. After forking out £20, I got home and challenged Tom - that is, the one which says "easy" - just to be slaughtered 46-4. By the way my four was his foul. I have played it several more times since then and have never beaten him yet. Some of the shots he played were impossible, even for a professional like Jimmy White! My shots were even worse - on a normal snooker table the balls would have gone directly into the pocket, but for some strange reason they bounce away and leave Tom set up with a ball he pockets with considerable ease.

I adore playing snooker and pool and I'm quite good on a table, but this game is a fix, a mockery to snooker and will be leaving my collection quicker than I bought it. And another thing – if I ever find out who Tom is, I'll kick the hell out of him!

Stephen B, Cumbria

stf: Andy Lowe, our games guru, agrees with you, Stephen. He feels Tom plays the kind of shots Alex Higgins could be proud of. Andy did beat Tom, but admits it took him a great deal of time. Probably the best way of getting long-term use from the game is by playing against a friend, but that's not much good if you prefer playing ST games on your own. We asked Archer Maclean, the programmer, if he thought the game was unnecessarily hard in single player mode. He said, "I like to make games sufficiently difficult to be a challenge. Most people, myself included, can beat Tom pretty consistently and it's the next player, Dick, who usually presents the problems. Tom rarely achieves a break of over 15 which is sufficient to give a vaguely experienced player the edge over him."

If you've have something to say, write to: The Editor, Feedback, ST FORMAT, 30 Monmouth Street, Bath, Avon BA1 3BW.

CALL US NOW ON (0386) 765500 ● EVESTREMETEDS



TRACKSUIT MANAGER 90' (RRP: £20.42) (RRP: £25.<u>53)</u> 'SUBBUTEO' With every (RRP: £24.99) THE BALL GAME STE Pack TREASURE TRAP

* TOP QUALITY JOYSTICK TOTAL RRP OF EXTRAS: OVER £170.00 ! Excellent STE starter package from Atari including the 520 STE with 1Mb Drive, 512K RAM, Digital Stereo sound,

* 'SKIDOO

* 'LEONARDO

- PLUS -'Sim City' • 'Escape from the Planet of Robot Monsters' • 'Final Fight' • 'Nine Lives • 'NeoChrome' • 'FirST BASIC' • 'Atari ST Tour

1040 STE including educational & productivity software

ducational Software modules, split into three age categories

from Early School to GCSE revision. Productivity Software

eaturing Wordprocessor, Database and Spreadsheet (RRP over

£100) • Plus! Hyper Paint, Music Maker and FirST BASIC

inc.VAT and ONLY £269.99 WITH 1MB RAM FITTED ONLY £299.99 WITH 2MB RAM FITTED ONLY £349.99 WITH 4MB RAM FITTED

(RRP: £7.99

(RRP: £9.99)

299.99 inc.VAT and

ONLY £349.99 WITH 2MB RAM FITTED ONLY £399.99 WITH 4MB RAM FITTED

PRINTERS

520 STE

'DISCOVERY

EXTRA' PACK

1040 STE 'FAMILY

CURRICULUM

PACK'

Prices include VAT, delivery and cable

EVESHAM MICROS STAR PRINTERS INCLUDE 12 MONTHS ON-SITE WARRANTY

Star LC 20 Successor to the LC 10, 4 fonts, 180/44cps	£ 129.99
Star LC 200 9-pin colour, 4 fonts, 180/45cps	£ 193.88
Star LC 24-20 24-pin, successor to the LC24-10	£ 204.45
Star LC 24-200C 7 colour 24-pin, 5 fonts, 200/67cps	£ 269.08
Automatic Sheet Feeder for LC 10" printers (pls.state model)	£ 64.95
Star FR15 COLOUR powerful 9-pin colour, 31k buffer	£ 249.99
Star XB24-200 COLOUR 24-pin, 80 col. power printer	£ 369.00
Citizen 224 Colour 24-pin colour with 3 LQ fonts, 192/64cps,	0.010.00

Citizen 224 Colour 24-pin colour with 3 LQ fonts, 192/64cps.	
2-Year manufacturer's warranty, optional sheet feeder	£ 249.99
Olivetti JP-150 Inkjet good quality - exceptional value	£ 249.99
Olivetti JP-350S Inkjet excellent high speed 300dpi printer	
including Epson Emulation Cartridge	£ 349.99
Canon BJ-10EX award-winning inkjet. Epson compatible	
Hewlett-Packard Deskjet 500	£ 359.00
Hewlett-Packard Deskjet 500C COLOUR	£ 559.00
Panasonic KXP2123 Profesional 24-pin Colour Quietprinter	£ 399.00

With its dedicated monitor input, this model combines the advantages of a high quality medium resolution colour monitor with the convenience of remote control Teletext TV - at an excellent low price! Features dark glass screen for improved contrast, plus full range 3-way speaker sound output.

269.00 Including VAT, delivery & cable

monitors without the need for unplugging. Great value

Philips CM8833 Mk.II Monitor (Genuine UK version, stereo sound) - including cable, 1 year on-site maintenance and 'Lotus Esprit Turbo 2' game£ 199 Atari SM144 14" Monochrome Hi-Res. Monitor

ST SOFTWARE

NeoDesk 3	£ 29.9
First Word Plus	£ 57.9
Data Manager Professional	£ 29.9
Cyber Paint 2.0	£ 37.5
Cyber Studio (CAD 2.0)	
Degas Elite	£ 22.5
Deluxe Paint	
Digita Home Accounts 2	£ 49.9
Personal Finance Manager Pro	£ 32.9
Timeworks DTP Version 2	
Replay 8	£ 63.9
HiSoft Devpac 2.23	£ 44.9
Lattice C 5.06.02	£ 115.0
Power BASIC	
Atari Fastcom 2	£ 34.0
Atari Archive	
Mayie Bessen Teaches Tuning	COOF

Unit 9 St. Richards Rd Evesham Worcs WR11 6XJ

T 0386 - 765180

fax : 0386 - 765354 Open Mon - Sat, 9.00 - 5.30

SPECIAL !!! e are offering a complete rdprocessing and Desktop olishing package complete n graphics import facilities.

Available with any hardware purchase over £75.00.

FIRST WORD PLUS + TIMEWORKS DTP 2

ONTA £49.95

SOLDERLESS MEMORY **UPGRADES FOR ST's**

GIVE YOUR ST THE BENEFITS OF SIMMS RAM **EXPANSION WITH OUR SIMPLE-FITTING UPGRADE!** Fits Atari STF, STFM and MEGA series computers

- Uses SIMMS RAM Modules for Effortless Upgradeability
- Full kit with detailed instructions- no specialist knowlage needed
- Probably the neatest ST RAM Upgrade available!

Upgrade unit unpopulated	£	44.95
With 512K RAM Installed, gives 1Mb RAM total	£	74.95
With 2Mb RAM Installed, gives 2/2.5Mb total	£1	19.95
With 4Mb RAM Installed, gives 4Mb total	£1	99.95

N.B. Due to the large variance in design of the Atari ST, there is a small minority of boards in existence which may require a little soldering.

520ST PLUG-IN 1MB SOLDERLESS RAM UPGRADE

Allows easy upgrade to a total 1Mb RAM • Simple, fast and effective RAM upgrade path • Suits almost any 520ST model (not suitable for STE machines) • Requires no soldering or technical know-how



Only

N.B. Due to the large variance in design of the Atari ST, there is a smal minority of boards in existence which may require a little soldering.

OTHER RAM UPGRADES

520/1040 STE 2Mb upgrade (2x1Mb SIMMS	3) £ 60.0
520/1040 STE 4Mb upgrade (4x1Mb SIMMS	S)£ 120.0
520STFM 1Mb RAM Upgrade kit, requires so	
520STFM 1Mb RAM Upgrade, fitted by ourse	
Mega ST2 4Mb RAM Upgrade, fitted by ours	elves£ 149.0
520STFM 1Mb Internal Drive upgrade kit, wit	

instructions. Requires very slight case modification

PROFESSIONAL ST REPAIRS

Our fully equipped service department is ready to handle almost any Atari ST repair Please contact us on 0386-446441

REFERENCE HARD DRIVE

COMBINING EXCELLENT PERFORMANCE WITH QUALITY AND HIGH CAPACITY, OUR HARD DRIVES OFFER EXCEPTIONAL VALUE FOR MONEY!

FAST ACCESS NEC SCSI MECHANISMS FOR OPTIMUM PERFORMANCE • HIGH QUALITY METAL CASING . ALITOPARKING

• DEDICATED POWER SUPPLY • COOLING FAN

• ICD INTERFACE & SOFTWARE • DMA THROUGHPORT

40MB VERSION 100MB VERSION ONLY £299.00 **ONLY £449.00**

Very quiet • Slimline design Cooling Vents • Sleek, high quality metal casing Full 1Mb Unformatted Capacity • Quality Sony Citizen Drive Mechanism

Convenient On / Off switch on rear of drive • Long reach connection cable for location either side of computer

INCLUDES ITS OWN **EXTERNAL PLUG-IN PSU**

EVER!

LOWEST PRICE

5.25" External Drive 40/80 Track Switchable.

Evesham Micros

CALL US NOW

ON (0386) 765500 •

Evesham Micros

CALL US NOW ON (0386) 765500

0

Evesham Micros

VISA

400DPI HANDY SCANNER

QUALITY SCANNING - AT THE RIGHT PRICE!

Representing outstanding value for money, this package combines top quality scanning hardware with the distinctively

powerful DAATASCAN PROFESSIONAL software.

At a genuine 400dpi scanning resolution, this new scanner produces truly superb quality scans. Has a full 105mm scanning width, variable brightness control and 100 200 / 300 / 400dpi resolution. Daatascan Professional scanning and editing software allows real-time scanning in either line art or in grey scales. Provides powerful editing features and

excellent compatibility with most DTP and Paint Packages eg. Deluxe Paint, Touch-Up

ONLY £99.99

TRUEMOUSE



WE GUARANTEE that this is the smoothest, most responsive and accurate replacement mouse you can buy for your Atari ST. Excellent performance, with a 300dpi resolution. Amazing low price!

£14.99 SATISFACTION GUARANTEED

GOLDEN IMAGE OPTICAL MOUSE NEW LOWER PRICE!

TRACKBALI

High performance trackball which operates from the mouse or joystick port. Super-smooth, accurate and versatile, allowing total one-handed control. To quality construction and opto-mechanical design delivering high speed and accuracy every time No driver software needed

ONLY £29.95

ZY-FI Amplified Stereo Speaker System £ 39.95
VIDI-12 ST incorporating VIDI-Chrome £ 99.95
VIDI Complete Colour Solution £ 160.00
VIDI-RGB automatic colour separator add-on for colour input £ 64.95
AT-Speed / STFM Hardware PC emulator (16MHz 80286) with
DR-DOS 5.0 and maths co-processor socket.
Supports VGA/EGA (with SM124) and EMS £ 229.95
AT-Speed / STE as above, Atari STE Compatible version £ 269.00
Atari I VNX-2 inc 'Ratman Returns' and Power Supply £ 99.99

..£19.95 ..£22.95 ..£24.99 Atari Lynx Pouch Accessory Joystick / Mouse ports accessibility adapter For STF/STFM/STE machines Dust Covers - available for any ST £ 4.95 for any MEGA £ 9.95

ALL PRICES INCLUDE VAT @ 17.5% AND DELIVERY

MAIL ORDER DEPARTMENT

Unit 9 St Richards Road, Evesham, Worcs WR11 6XJ



Call us now on © 0386-765500 Mon-Fri., 9.00 - 7.00; Sat, 9.00 - 5.30 Fax: 0386-765354 Technical support (open Mon-Fri, 10.00 - 5.00): 0386-40303

Send an Order with Cheque, Postal Order or ACCESS/VISA card details. Please allow 5 banking days for Cheque clearance.

Government, Education and PLC orders welcome All products covered by 12 Months Warranty All goods subject to availability.

RETAIL SHOWROOMS

5 Glisson Road Cambridge CB1 2HA **T** 0223 - 323898 fax : 0223 - 322883 en Mon - Sat, 9.30 - 6.00 Corporate Specialist

322 Witan Gate Milton Keynes MK9 **3** 0908 - 230898 fax : 0908 - 230865 an Mon - Sat, 9.30 - 6.00 251-255 Moseley Rd Highgate Birmingham B12 0EA TO 021 - 446 5050

SAMPLE IT!

en years ago, the only samplers around seemed to belong to rich pop stars or open university presenter types doing documentaries on the South Bank Show about how amazing it all was. Nowadays you'd be hard pressed to find a studio without one, and even normal people can afford them – with the right software and hardware you can turn your ST into an eight bit sampler.

Of course, having a sampler doesn't automatically guarantee you good sounds. Unlike buying a synth, where you get a set of preset sounds that are there when you turn it on, with a sampler you have to find the sounds yourself. Once you've plundered your record collection and recorded the sound of breaking milk bottles, where do you turn? Well, a few companies have taken note of this lack of source material and a new market has appeared in the form of sample CDs. These are audio CDs just like any others in your collection. What they provide is a library of sounds and

music collected on one CD, ready for you to sample immediately. All you have to do is connect the audio output of your CD player to your sampler, set the recording level and get sampling.

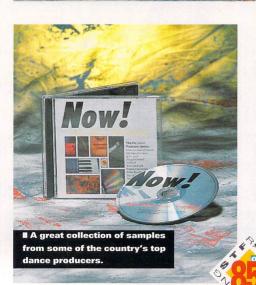
With these CDs, the job of finding good sounds and instruments and grouping them together into an easily accessible format has been done for you, and this in itself saves you an enormous amount of time. Also a lot of these sounds can't be found outside of the libraries of the people who made them, giving you the opportunity of getting hold of sounds you'd never find elsewhere. "That's all very well," you may say, "but if anyone can get hold of these CDs, originality goes out of the window." Well, in this instance that's not the case. Making music is a matter of using the tools at your disposal, and with more samples your tool box gets bigger. Take a look at what's on offer, and, if you're searching for things to sample, there's sure to be something here for you.

Run out of things to sample? Tim Tucker takes a look at what's available if you're looking to build your own library of sounds



(helicopters for dance music?) you come to track 80 – 60 orchestral stabs. You might not expect much from these, but they are rather good and definitely useful. Track 81 is more silly sound effects, though there are a couple of good laser sounds. Two unidentified but OK-ish drum machines follow and then 22 solid bass sounds played at three different pitches for multi-sampling. Finally there are 12 string sounds at five pitches – pretty average.

The breakbeats and drum sounds alone make this CD worthwhile – there's unmissable stuff here you won't find elsewhere. All BPMs are listed, and there's a handy feature if you have an Akai S1000 – the first 305 breakbeats have been data-streamed at the end of the CD, so you can bulk dump them in groups of five to your sampler using IO leads, a big time saver. All in all this is a CD worth considering.



Hitsound Producer Series PRICE: £49 EACH

CONTACT: 073088 383 FAX: 073088 390

AMG are now up to Volume 11 of their Hit-Sound Producer series of sample CDs. "Now That's What I Call Sampling" comes free with any CD purchase and gives an introduction to what's available on all the others. Each volume is filled with original samples from the libraries of successful producers, remixers and musicians including Pascal Gabriel, Coldcut and Norman Cook.

As you might imagine, most of these CDs are aimed at the dance market, which is, after all, where sampling has found its biggest niche. There is a good selection of break beats from serious hardcore, to laid-back swing beats. There are about eight loops to each track on the CD, so you can

quickly find the one you're looking for. The documentation very helpfully gives you the tempo of each in BPM (beats per minute) to make setting up your sequencer for the loop a lot quicker.

Hits are provided from drum machines, percussion and even oil tanks! There are also some instrumental sounds that are particularly suited to dance music – bass, brass, strings and great analog synth sounds – with each sound played at three to five different pitches for multi-sampling.

Other samples include vocal lines, instrumental loops such as sax and brass riffs, and wacky effects. Once again the documentation is excellent, giving details of pitch, key and tempo where necessary. The sound quality is never short of brilliant, and the layout and organisation makes the whole process of sampling a lot easier. Good stuff.

THE CHEAPER OPTIONS

All these superb quality CDs are all very well, but what if you simply can't afford them? Well, the other option is cassette tapes, which, although not capable of the same sound quality as CDs, are a great deal cheaper.

Rig Time Productions
PRICE: CASSETTES £6.50
R-DAT £15 EACH
ST DISK (AVALON, SOUND
DESIGNER OR GENWAVE
FORMAT) £3 EACH
CONTACT: 0782 £10611
Big Time Productions have
11 tapes of instrumental
sounds, each covering a
theme. All cassettes are 60

Soundwaves
PRICE: CASSETTES £7.50
AKAI \$950 DISKS £17.50
CONTACT: 0785 222754
FAX: 0785 56396
Soundwaves provide their samples on high quality

on chrome cassette with Dolby B. Collections include Dance Bass, Keyboards and Percussion, Drum Machines (all the great ones – TRBOR, TR909, CR78 and so on), Guitar, Orchestral, Brass and others just as useful. Each sound is played at various pitches, and with every tape you get an indexed inlay and a speciate list for poling case.

chrome cassette. All samples are taken from DAT (Digital Audio Tape) and is given at different pitches for multisampling. The documentation for these cassettes is properties to you have to

sette counter numbers. The quality of the sounds is good — the noise reduction reduces his without too much loss of tone, and you could certainly get some use out of these sounds.

The samples are also available for the ST on Avalon, Genwave and Sound Designer formats. These programs enable you to edit

go through and catalogue them yourself, but the sound quality is good and you get a bunch of very useful sounds for a reasonable price. Collections include Analog 1 and 2, M1, Alesis HR16 samples from 16-bit samplers like the Akai 51000 or Roland 5750 by sending them-over MIDI, so if you buy them on an ST disk you don't even have to go to the trouble of sampling the sounds, just load them and get

and Brass and Strings.
You can also
get hold of
these sounds
on disk for
the Akai S950
sampler.

■ Can you work out the significance of the broken sugar bowl? No? Nor us - it's a good disc, though.

THE MUSIC SUITE

THE MUSIC SUITE

THE MUSIC SUITE

WALES

THE MUSIC SUITE

THE MUSIC SUITE

WALES

THE MUSIC SUITE

THE MUSIC SUITE

WALES

THE MUSIC SUITE

THE MUSIC SUITE

WALES

THE MUSIC SUITE

TH

The Music Suite - Ethnic Percussion PRICE: £39.95 CONTACT: 0239 711032 FAX: 0239 711343

Whether you're looking to add to your dance groove or to create new age world

music, there's a place for percussion.

The Music Suite's Sound Collection

Volume 1 – Ethnic Percussion gives

you just that. It consists of percussive instruments from

the familiar to the

unpronounceable which

the familiar to the unpronounceable which are struck, hit, shaken, rattled and generally coerced into sounding. he CD gives several ver-

Tarth track on the CD gives several verions of an instrument, each of which is played in a variety of ways (hand, stick, beater, brush) with a five second gap between each sound to make getting the right one into your sampler easy. The collection is comprehensive, including congas, bongos, tablas, log drum, rattle, wood block and many more. There's even a didgeridoo, which, although not strictly percussive, is suitably ethnic for this collection.

All the sounds are the genuine thing, being the work of one Dave Starkie (any relation to Ringo?) and the sound quality is spot on. Don't buy this expecting to be blown away with instant music – there are no break beats or loops on this one, just the percussion sounds themselves. At the end of the day its usefulness depends on whether you need percussion sounds or not, but if you do, or if your existing percussion is limited, look no further than this CD.



X-Static Goldmine PRICE: £79 CONTACT: 0442 870681 FAX: 0442 877266

One look at the girl on the cover and you know you're in for some rave material. This is confirmed as soon as you put the CD on and you hear the

first track, "Tekno/House." This is a double CD with 3,023 dance samples – the first CD is dedicated to drums and percussion. Tracks one to 32 contain breakbeats from vinyl, drum machines and live percussion. There are 16 per track, grouped according to styles or drum machine and most give you the tempo in BPM. Tracks 33 to 93 are filled with single drum hits, between 16 and 24 per track. The hits come from all the great dance drum machines – including Roland TR 808, TR 909, CR78e. After sampling this lot you'll have every drum sound

you're likely to ever need.

Disc two opens with eight tracks of house and rap vocals – 16 to a track, varying from the great to the silly. Tracks nine to 16 gives you every kind of acid and techno bass and a few bass loops for inspiration. The rest of this disc is full of ravey synth noises, strings, pianos and basses, vocal snatches, and sound effects. There are some great Vocoder Loops – synthy percussion rhythms – and wonderful ambient swirls for new age house tracks. The sound effects are less useful – unless you enjoy lawnmowers on the dancefloor – but there are some good earthy effects for mellow intros.

If you're a hardcore rave and techno enthusiast and looking for a sample library, this is it! It's an encyclopedia of dance music, and, as well as giving you a nervous twitch, it should keep your sampler warm for months. Highly recommended.



Zero-G PRICE: £49.95 EACH CONTACT: 0442 870681 FAX: 0442 877266

Zero-G have been doing this for a while now, so they should know what they're doing. Their CDs fall into different categories - here's a brief look at an example of each

ST FORMAT

, and the sound effects a (though there do seem w Star Trek sounds rather than just rings, brass stars – yu ime it, it's here and

ng. Buy it - you on't be disappointed.

preci but not

The Funky Element
Here's a CD aimed at the funk, hiphop and rap market. The disc starts with 160 funky drum loops (dubbed "vinyl-style" in the documentation, and they do sound like they've been taken from vinyl, although it appears they've been programmed).

There follows a plethora of horn stabs, all with that authentic soul feel, but you'd probably only use a tiny fraction of these. There's a good selection of guitar riffs and chords, mostly on A minor, G minor and E minor (good keys for funk), with and without wah-wah. Next comes the single drum hits (150 snares alone!), miscellaneous effects of varying quality and to finish some strings, Hammond B3 and Fender Rhodes samples. If you're into hiphop and funk it's all here, but



SAMPLE TYPES

REAKBEAT: This is one or two bars of drums or percussion. You take a sample of this and then trigger the sample to play at the beginning of each bar (or every two bars with a two bar sample) from your sequencer, creating a "loop."

You have to ensure that your sequencer is playing at the same tempo as the breakbeat or they go out of sync with each other.

LOOP: A short piece of music, like a bassline or sax melody, that is sampled and repeated, as with a break-

HIT: A single sound, usually percussive, which is sampled and then sequenced - just like you would with a drum machine.

INSTRUMENT: One note from a musical instrument like a bass or guitar which is sampled and assigned to the keyboard.

Playing notes up and down the keyboard changes the pitch of the sample, enabling you to play melodies and chords with your new sound.

MULTI-SAMPLING: When you sample a note from an instrument, say the note C2, you can only transpose it so

far up the keyboard before the sound quality starts degrading. To prevent this, you take another sample, at say G2, and so on up the keyboard. This is called multisampling.

VOCAL: A snatch of vocal melody, or a line from a song, with no instruments behind it. This is sampled and then played over your own music.

You've got some great ideas in your business plan, so why does your bank manager still turn down your request for a **loan? Sloppy** presentation of important documents says a lot about how you view yourself and your business. **Paul Hughes** takes a look at typefaces and the important part they play in any DTP project, taking care not to drop the baby in the font

FRENZY

ast month we discussed the design of a simple business card. As with any text-related project, the first thing you're going to need is a library of fonts. Most DTP software comes complete with a small selection of fonts, which is perfectly adequate for many tasks. At some point though you're probably going to want to expand your library. The style of fonts you buy depends on the type of material you wish to produce.

Display fonts

If you intend to concentrate your efforts on newsletters, leaflets, posters and the like, then a range of the "fancy" fonts like Brush Strokes, Dominican, Murray Hall, Plaza, Presenter to name a few, are indispensable.

Some of the Helvetica Bold Condensed fonts are also ideal for this type of work. Send for the Quillfonts catalogue from Virtual Image Publishing (1 Hillcrest Court, Shoot-Up-Hill, London NW2 3PG) for a low-cost range of some of these types, although check to see if your software is supported.

Another useful contact, primarily for Calamus users, is the Atari Business Centre (\$\pi\$ 0602 810009) who, apart from stocking the

all the different versions of *Calamus*, have an extremely good selection of fonts with heavily discounted bulk orders.

Bread and butter fonts

If you are intending to produce business stationery – that is, business cards, letterheads, invoices, order forms, and so on, then your font buying is going to be much more selective. It is more important to create font families – that is, typefaces that are peculiar to one font but come in various weights (thicknesses), italics and condensed (or compressed). To give you some idea of the situation, there are 34 different versions of Helvetica in the Halco (\$\pi\$ 0734 441525) font catalogue (DMC Classic Types). This may seem like over-kill, but having such a large choice can be very useful.

A good example is where a client has brought you an existing copy of his, let's say for argument's sake, invoice. There is a mass of information on the sheet but his address has just changed and this needs to be re-typeset. You have two choices. You could either typeset the address with exactly the same typeface (providing you have it in the same

WHERE YOU CAN FIND THOSE FONTS

There are quite a few commercial font suppliers around and a recent addition to the ST scene is Advanced Graphics Ltd (© 0942 498174). AGL have converted over 400 Adobe licensed fonts trademarked as Face Typographic from the Apple Mac and PC platforms for use with PageStream, Calamus and Calligrapher. Realising the importance of competitive price structuring, they have kept prices down to £5.95 and below for a single face. Compare this to the £45 charged for real Adobe fonts and you realise how much you

can save. However, this begs the next question; what about quality?

Well, the quality is certainly up to standard, as you'd expect with a product linked to the Adobe name. Particular attention has been paid to the kerning aspects of the fonts and the laser quality looks good.

As the fonts are, in effect, clones of the original Adobe types, you can see that the naming has had to be altered. For example, Copperplate becomes Cooper. Others cloned fonts include Tyrol, Modernist and Bengali.

All these changes of name shouldn't cause any problems because fonts are usually bought from a visual representation in their catalogue. AGL also run a subscription scheme which offers you a bi-monthly publication complete with a free disk containing a new font not available in the current library.

As well as dealing in fonts, AGL also want to enter the professional clip-art market and are currently producing illustrations which are subsequently scanned (at 300 dpi) before they are cleaned up.

DTP

weight), or you could ask your client to get the original typesetter to do the job, which doesn't make you look too professional! This is a case where you need to buy an extra typeface to get the job done. Even though you may not make any profit if the typeface has cost you £30, at least you have gained another useful addition to your font library.

Whichever DTP software you own, one of the most important things is the quality of the fonts you use. One of the biggest headaches for many people is the cost involved in putting together a decent-sized font library. You can pick up free fonts from the Public Domain, but these are generally bit-

mapped and are not suitable for serious work. At the other end of the scale you can pay £30 per single font from a commercial supplier, you get top-quality images for your money. When you multiply that cost by 50, 75 or 100 fonts you can see that desktop publishing, on a professional basis, can be rather expensive.

NEXT MONTH

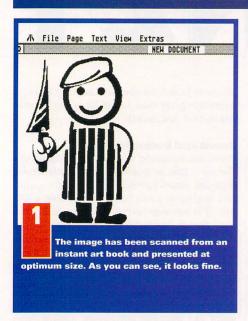
Is is really possible to make a living from DTP? How to set up your own business and make money.

CLIP-ART

For a few pounds you can have thousands of clip-art images at your fingertips. Just contact any one of the Public Domain libraries on page 125 for information on what's available. However, many PD clip-art disks are of variable quality and some of the images have been so over-used as to turn them into visual clichés.

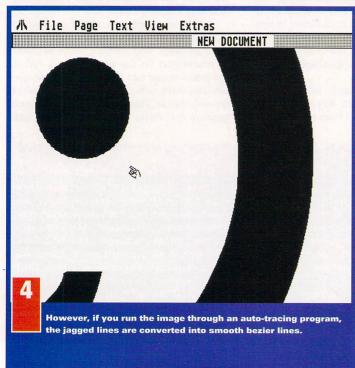
Some of the commercial clip-art around is very good but it tends to

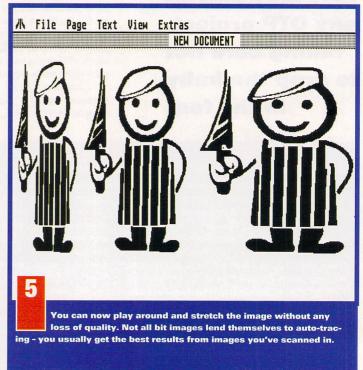
WHAT YOU CAN DO WITH CLIP-ART









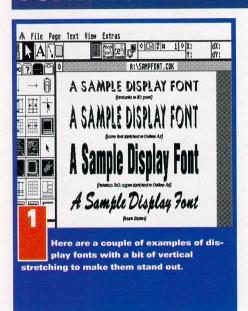


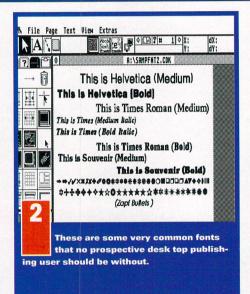
be on the expensive side. Many of these images have been professionally drawn using lines and bezier curves in art programs such as Didot Professional or Outline Art. This has the added advantage of enabling you to scale these images to any size without loss of quality. Gasteiner Technologies (\$\pi\$ 081 365 1151) can supply you with Migraph's professional Scan Art and Draw Art disks at £34 each. Kuma also

have an extensive clip-art library. Disks cost between £15 and £80 each. Kuma's 75 page catalogue costs £5, but you get three free disks with it. A demo disk is also available for £3. Phone Kuma on ϖ 0734 844335.

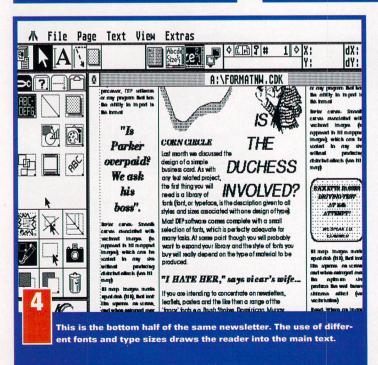
Bit-images are normally very well drawn and scanned at 300 dpi. If you own a scanner you could buy a clip-art book. This is a book of camera-ready artwork that is full of expertly drawn images just waiting for your scanner. One excellent set of four books is the Instant Art series: Books 1/2, Symbols and Borders (Ingram Publishing Ltd © 0270 73604). In fact, the images – which are all British illustrations and copyright free – are so well drawn that once scanned-in there is normally no need to even edit the images, let alone consider putting them through an automatic tracing program.

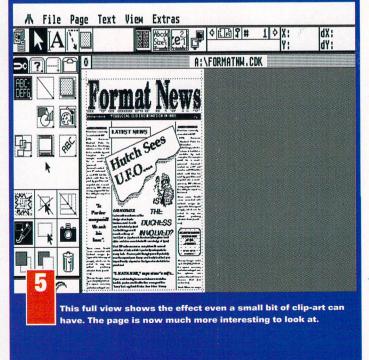
FONTATSTIC











BUST THAT DTP JARGON!

Ancest American Standard Code for Information Interchange – a form of text that most computers can read. An example would be a word-processed document created on a PC and saved as an ASCII text file. This could then be read by your ST and imported into a word processor, DTP software or any program that has the ability to import in this format.

BEZUR CURVES: Smooth curves associated with vectored images (as opposed to bit-mapped images), which can be scaled to any size without producing distorted effects.

EIT MAP: Images made up of dots (bits), that look like squares on-screen, and when enlarged over the optimum size produce the well known staircase effect (see vectorisation).

extends over the edge of a page. Quite often used in letterheads where the main text has been underlined and the line runs over each side of the page.

BEOMIDE: Photographic paper used by an imagesetter to produce high resolution images.

given to graphic images that can be imported directly into your software. Available from a range of sources, the Public Domain being a useful starting point, clip-art can be used to enhance many types of publications, for example newsletters, leaflets, posters, invitation cards and the like.

CRC (CAMERA-READY

whether it has been produced by dot-matrix/ink-jet/laser/imagesetter, that is ready to be printed.

DOT-MATRIX PRINTER: An inexpensive impact method of transferring ink on to paper by minute pins ham-

mering through a ribbon. The more pins the printer has, the better the quality.

INCH: The resolution of an image is measured by dpi, so the more dpi, the finer the output. A typical laser printer produces 300 dpi wheareas an imagesetter can muster up to 2,540dpi.

encapsulation: Paper or card that has been inserted into a clear plastic wallet which is then fed through a machine and heat-sealed. Often used on menus, maps and business-cards but should not be confused with lamination.

When you take work to be printed by your local print shop they need to produce a "plate." Before they can do this a negative (film) is required. This can either be produced from an image-setter at your bureau (see STF 39 – if you don't have a copy, turn to page 58) or the print shop can do this by taking a camera shot of your work.

FONT (OR TYPEFACE): The description given to all the styles and sizes associated with one design of type.

CREY-SCALES: Tones, or tints, measured from white through to black. Normally expressed as a percentage, 100% being black.

GUTTER: The space between columns of text is the gutter width.

ICON: A small graphical symbol used by many programs to describe a file or function.

IMAGESETTEN A very expensive professional typesetting machine producing high res images, only bureaux can usually afford these.

invier printer: A non impact method of printing where the ink spurts through tiny jets on to the paper with good results.

KERNING: Altering the spacing between text characters.

LAWINATION. Often confused with encapsulation but differs in that only a single sheet of clear plastic is heat-sealed onto the paper or card. Apart from protecting your work from possible damage, lamination creates an instant glossy effect.

LANDSCAPE. Page layout option where the width is greater than the depth (see also Portrait).

LASER PRINTER. One of the reasons for the DTP "explosion." A laser produces upwards of 300 dpi.

LEADING (pronounced "ledding"): The space between different lines of text.

OCR (OPTICAL CHARACTER RECOCNITION): Software to convert text that has been scanned into an ASCII file which can then be imported into your DTP software. Can save hours of re-typing.

PAGINATION: This is simply a word for page numbering.

The pica is used for the linear measurement of a typeface. There are six picas to the inch.

PIXEL (ABBREVIATED FROM PICTURE ELEMENT): The smallest point you can get on an ST's screen. As with dpi, the more pixels your screen is capable of displaying, the higher the resolution of the image.

PLATE: A light-sensitive aluminium sheet (or other material) which has been produced from a negative (film). This sheet is then affixed to the printing press to print your work.

POINT: The size of a type-face – there are 72 points to the inch.

PORTRAIT Page layout where the depth is greater than the width.

description language that produces high quality image-setting. Normally found in the Apple Mac and PC worlds but making progress in ST environments.

SCANNER: An extremely useful tool that captures an image and converts it into information that can be used by your ST. Scanners can be either hand-held or flat-bed (a bit like a small photocopier), mono or colour. With prices of around £150 for a hand-held version with editing software, they should be considered an essential part of your DTP armoury.

THERMOGRAPHY: As the paper or card comes off the printing press a powder is applied to produce a shiny, three dimensional effect. Usually quite expensive to produce.

MARKS): Lines to show the print shop where you wish your work to be trimmed.

TYPEFACE (FONT): The variations in weight, style and size of one kind of type.

VECTORISATION: This is a method of tracing bitimages and converting them into bezier curves and lines, which enables the image to be enlarged to any size without producing the dreaded staircase effect. Auto-vectoring, or auto-tracing programs as they are more commonly known, are now included with some software. Alternatively, you could opt for a standalone program such as the excellent Avant-Vektor (phone 832212 for latest price).

lated from an old Glaswegian salutation, "why are you not wearing your hairpiece?" it is now used in ST terms to mean What You See Is What You Get!









Now, come on, put that thing away, boot up your ST and peruse the next 11 pages of unspeakably wonderful assistance. From technical difficulties to game hassles - it's all here. Now, contain your excitement, for

goodness' sake

WIN SOME

Whenever this pretty little

rosette crops up - someone, somewhere is going to sleep happier tonight, because they've won

some cash - and you can, too. Just

send in your name and address -

oh, and include a mega-hot tip

for Gamebusters or ST Answers

while you're at it. Go on. Now!

Lots of games interrogated and probed with a big pointy stick

ANDY LOWE

If it's games you're after - Andy loads 'em, plays 'em, swears at 'em, cheats 'em then leaves 'em. He's 22, lives in a two-up, two-down shoot-'em-up in Cardiff and would like to point out that he was not Ed Ricketts in a previous life.

Cheated this month:

Fire and Ice, tips: page 54 Formula One

Grand Prix, hints: page 51

Lure of the Temptress, final part: page 50

Push-Over, 75 level codes: page 56

Sensible Soccer: hints and tips

Plus! Parasol Stars, Psyborg, Titus the Fox – and more!

ANSWE

Trouble with your techies? Consult our omniscient mad professors



BILLY ALLEN

Allen by name, er, STOS by nature. An ST freak with attitude - "Dazzle them with the truth" is his motto. No one has a clue quite why.



CLIVE PARKER

"DSP56001" and "Write cache" may be mystifying technical terms to us, but Clive eats 'em for breakfast and still has room for a boot sector sandwich.



TONY WAGSTAFF

of Nested hardware DO loops, Tony craves recognition and respect as STF's programming guru.

WINNER

ST games... The final frontier... These are the voyages of Andy Lowe. His continuing monthly mission is to explore strange new tips and complete solutions, to titter at yet another Out-Run cheat, to – sort of – quietly and reverently go where Ed Ricketts has gone before. And no! he's not coming back

JAMES POND 2 -OPERATION ROBOCOD

Tom Palmer of Cambridge sent in this devious acronymical little ruse...

In the first door and on the first level, collect the cake, the hammer, the globe, the apple and the tap – in that order. You are now invincible for ten minutes. Collect the lips, the ice-cream, the violin, the globe, then the snow-man to attain infinite lives.

LURE OF THE TEMPTRESS Virgin

Part two of A T Brown's downright nimble solution. The
story so far – Alan has cruelly
revoked Sophie's affection,
while Grace, becoming increasingly more suspicious of
Jonathon's uncharacteristic
bravado, has taken to eavesdropping at his door when he
entertains visitors. The game
continues...

Section Three - The Caves Entrance cave

Pull left skull, push left skull, pull right skull. The door opens. Exit west.

Green cave

Wait for Goewin to enter the cave. Pull right skull, push right skull, pull left skull. Tell Goewin to go to the entrance cave and pull left skull. The door opens. Exit west.

Blue cave

Pull right skull, pull left skull. Wait for Goewin to enter the cave, then tell him to go to the green cave and pull right skull. Wait for the door to open, then exit west.

Grey cave

Save your game position. Exit north.

Beast cave

Kill the beast. Don't bother with advance, retreat or defensive moves. Strike his head and body. If you time it right, he doesn't touch you. If you get knocked down, strike low blows so he backs off. You need to give him several whacks, but it isn't too hard.

Dragon cave

When the dragon awakens use the potion on him. Talk to him. Use option one twice and he gives you the Eye of Gethryn. Exit east.

Beast cave

Exit east.

Grey cave

Exit east.

Blue cave

Pull left skull and exit east.

Green cave

Talk to Goewin, use option one, pull left skull and exit east.

Entrance cave

Wait for Goewin to enter the cave, pull left skull and exit south.

Section Four - Back in Turnvale

Wait for Goewin. Go to the Market Place and wait for a Skorl to turn up and enter the shop. Look through the shop window. Listen to the conversation. Wait for the Skorl to leave, then enter the shop. Talk to Ewan. There is now a short graphic sequence.

Section Five - In the castle Wine cellar

Look at the topmost cask in the stack at the bottom of the screen. Wait for a boy to enter and talk to him. Exit east.

Kitchen

Look at the carcass. Get the fat. Get the tongs from the wall. Exit west.

Wine cellar

Save your game position. Wait for Minnow to

FORMULA ONE GRAND PRIX MicroProse

The only Formula One simulator worth bothering with. Allegedly. Nigel Mansell has retired – so get practising. You never know... I mean, who does?

Anyway, these tips, from the aggressively named Steve Blood of Bicester, Oxon,



■ A few facts about Formula One racing cars...

1. They're fast. 2. They can be dangerous. 3.

They look good. 4. Er, James Hunt used to drive one - didn't he?

should give you a leg-up through the first three levels of the game.

- 1. Before you enter the Grand Prix season, select driving aids F4 and any others apart from F3 which just happens to be the self-correcting spin.
- 2. Set the race duration to more than ten laps.
- 3. Start the race and smack into a wall just for the hell of it.
- 4. When stationary, select a power turn and turn against the flow of the traffic.
- 5. Now follow the driving line A-D and keep to it. This causes all the other vehicles to smash into you, putting them out of the race.
- 6. Repeat the above until you are the only one on the track. Now you can steam around the circuit going for the elusive lap record unhindered by back markers or any other vehicles.

And now, an even dirtier cheat for the same game from Christopher Legowski of Glasgow, Scotland... On the last lap, go into the pits and slam on the brakes. Now accelerate your time and you should be in first place! Great, that.



■ Whizzing around Silverstone in a very impressive piece of machinery indeed. Maximum 700 horse-power and 1,000 Gs of G-Force. Spot the technical error.

come back and talk to him. Tell him you've come for Selena. Tell him to tell the Skorl there's someone in the cellar. Tell him he's a scoundrel with the intelligence of a piece of lavatory paper (joke). Wait until Minnow has left, then use the tongs on the bung in the barrel. Toddle behind the stack of casks on the right. Wait. The Skorl comes in, wanders around, then falls down to drink the wine. If the wine runs out or you get caught, you have to reload your saved game. Exit east.

Kitchen

Exit east.

Passage

Exit through the right-hand door.

Dining hall

Exit east. Exit east.

Gate room

Look at the lever. Use the fat on the lever, then pull it. Look at the winch. Wait for Minnow to arrive and talk to him. Tell Minnow to pull the lever. Wait for him to pull it, then you should operate the winch. If you time it right, the chains should wind through the roof.

Dining hall

Exit west. Exit west.

Passage

Take the left-hand exit up the stairs.

Balcony

Exit east. Save your game position. Exit north.

Drawbridge

Kill the beast and exit west to Selena's room.

You have now completed the game. Watch the ending and get some food down you!

SPECIAL! A 15 PIECE 3D JIGSAW

Hopelessly lost in Lure of The Temptress? Here's a quick quide to the layout of Turnvale





























HCS 1

Memory

MEMORY UPGRADES

HCS STE and MEGA STE UPGRADES

HCS STE memory upgrade kits come complete with full instructions designed for the novice. The complete job should take no longer than 15 minutes. 2 and 4 megabyte kits come with free utilities disk and multitasking software.

Upgrade from 520 to 1040	£13.99
To 2 Megabytes	£44.99
To 4 Megabytes	

STF (M) and Mega ST upgrade kits

Xtraram Deluxe plug in upgrading system fits inside the computer. It can upgrade your computer in stages to 1Mb, 2.5Mb* and 4Mb. The kit comes with comprehensive instructions designed for novices. The kit uses SIMMS, so is easily upgradeable.

MARPET XTRARAM **DEJUCE** QUALITY SIMM UPGRADING SYSTEM (formerly frontier)

Upgrade from 520 to 1	1040£44.99
To 2.5 Megabytes	£79.99
To 4 Megabytes	£119.99

Solder in Kit

The solder in kit will upgrade the 520ST to 1Mb. Electronics experience is required as much soldering is needed. Check your RAM chip configuration before ordering: 4 or 16 chips, SMD or DIL packages. 16 chip DIL version comes C/W sockets

Solder	in	kit	(all	versions)	£25.00
--------	----	-----	------	-----------	--------

REPLACEMENTS

The HCS power supply and disk drive upgrades come complete with fitting instructions and plug straight into the ST without soldering. The Power supply produces less heat than the original so is more reliable.

Replacement	power supply	£39.95
Double sided	disk drive kit	£47.00

ACCELERATORS

The AD speed made by ICD fits in place of your microprocessor. It uses a 68000 chip running at a switch able 16Mhz with cache or standard 8Mhz to give virtually 100% compatibility. The 68030 SST for the Mega ST gives phenomenal speed with a 68030 running at 50Mhz! The SST has space for 8Mb on board RAM, TOS2 included.

AD Speed ST	£145.00
AD Speed STE	£165.00
68030 SST - 50	£550.00
Fitting for above	£35.00



INTERFACES

The "AdSCSI" ICD host adapter gives SCSI output from the STs DMA port, complete with software and full documentation, DMA cable and hard drive formatting software. Multirez allows the ST to display all 3 ST resolutions on the multisync monitor. The forget me clock sets your STs time and date, with cartridge-through port.

Keyboard interface allows the use of external PC compatible keyboards on the ST.

AD SCSI	£69.99
AD SCSI Plus (with clock)	£79.99
Keyboard Interface	
Multirez	
Forget Me Clock	

MONITORS

14" super high resolution 0.28mm dot pitch monitor is compatible with the TT, PC, Falcon and Multirez. The new HCS MM140 Monochrome monitor has tilt/swivel base and 14" tube. Fully compatible with all monochrome ST software.

Multisync colour	monitor£280.00
MM140 14" FST	Monochrome£115.00

PC EMULATORS

The Vortex 386 emulator runs at 16Mhz and allows true multi-tasking in PC mode on the ST. Space on board is provided for a 387 CO Processor and 512K of FASTRAM. Norton factor 15!

VORTE	X 386 SX-16	£330.00
387 C	O-PROCESSOR	£117.00
FASTR/	AM CACHE	£30.00

Upgrade Specialists

Marpet No 1 distributor, Exclusive Best Data UK distributor, Exclusive Joppa Software UK distributor, Gadgets UK distributor.

SPECTRE GCR MAC EMULATOR

Spectre GCR cartridge gives 20% more speed and 30% bigger screen area on the standard ST. Compatible with the TT.

SPECTRE GCR (Inc. 128K Roms)£300.00

PROTAR HARD DRIVES

Progate II	40	£288.00
	40DC	
	50DC	
	100DC	



HOW TO ORDER

TELEPHONE ORDERS WELCOME Enquiries/mail order and credit card orders please call 081-777 0751

Please phone with enquiries between

Mon to Fri 10.30am to 6.00pm. Sat 10.30am to 2.00pm.

Enquiries cannot be taken by post.

For mail order please send description of goods and cheque/PO to:



HCS Dept 8, 35 Hartland Way, Shirley, Croydon CRO 8RJ

Prices include VAT and P & P Goods normally dispatched within 2 working days.

TRADE ENQUIRIES WELCOME

YEAR GUARANTEE ON MEMORY



MODEMS

HCS Smart Modem 9600 has full FAX capability for send and receive. Auto-answer, pulse or tone dial, automatically determines incoming calls as fax or modem, industry standard command set with support for V22bis, V22, V21. Fully Hayes compatible. All types c/w PC software. ST fax software option supports most ST graphics formats including Print Drives for Pagestream and Calamus for immediate composition and send. Modem 2400 has all above features but without fax. Smart One 14400 comes with MNP level 1-5 and fax capability. Using V42 bis gives a maximum effective thruput of 58000bps!!! All types come complete with cables.

Smart One ™ Fax with ST FAX software..£139.99 Smart One ™ Fax with only PC software £119.99 Straight Fax software.....£45.00 Smart One ™ 2400£59.99 Smart One ™ 14,400 FAX MNP V32, V32 bis V42, V42 bis etc£249.99

HCS ENGINEERING

SAME DAY FITTING AND REPAIRS TO **COMPUTERS AND MONITORS** REPAIRS FROM £29.99

- ★ We offer a discount fitting service when your upgrade is purchased from us!
- ★ Most repairs have same day turnaround on a booking system
- * Repair charge includes labour and smaller items of repair
- ★ Ask for a TOS 1.4 upgrade at the same time as your repair for only £25.00
- ★ All repairs carry 90 day warranty
 ★ Courier collection/delivery £5.00 each way

REPAIRS ORDERING

HCS ENGINEERING **144 Tanner Street** London SE1

Repairs and service telephone number NOT MAIL ORDER: 071-252 3553

Fax: 071-252 1551

GAMEBUSTERS

MERCENARY 3

Novagen

A couple of quite fabulously useful tips from Philip Hough of Newport, Shropshire...

1. To get through locked doors that you don't have the key to, you can use explosives to blow up the lock. Set the explosives to power setting three, leave them armed by the door and run! Once they have blown, the lock should be destroyed, enabling you to enter.

2. When destroying Bil's (who?) space fleet, land on the ground and go forward on thrust power six – then stop. Don't push up or down while doing this. You altimeter should still read zero but you should now be able to rotate your ship in any direction,

meaning that you can shoot down any ships without their missiles being able to hit you because you're on the ground! Makes sense...

NEW ZEALAND STORY Ocean

Hugh White of London has sent some details on how to find the gate on Level 2.1 of the game... Jump on one of the ducks and fly to the bird cage at the end of 2.1 – but don't touch it. Just above, there is a small passage. Walk along and drop off at the end. In the wall in front of you there are bricks missing – enabling you to go through. At the top, there is a chamber stand. Fire at the centre of the chamber and the gate opens.



■ New Zealand Story - in which you play a fluffy kiwi by the name of Tiki. It's so cute and sickly and... well, actually it makes you want to puke, quite frankly.

FIRE AND ICE Renegade

Fire and Ice is a sod of a game – great to play, but not at all easy. So, all credit to David Connolly from somewhere in Ireland who was the only person who bothered sending decent tips in.



■ Yep, things can be pretty "shocking" for a careless coyote in *Fire and Ice*. This caption has been brought to you by the Acme Cliche Company, Minnesota USA. Doesn't explain why he has blue hair, though.

World One - Antartica

LEVEL TWO – Jump up from where you begin until you reach the highest platform, where your pup is waiting. Now fire a snow bomb, and an ice block with a question mark should appear. Jump on it and jump up once. An extra life now appears. Also on this level, at the top of the steep slope, fire another snow bomb to make four ice blocks appear. Keep jumping on the tallest of the four and you skip a level.

LEVEL FOUR – Saunter on down to the cave at the bottom right-hand corner and fire a snow bomb. An ice block appear which, if you keep jumping on it, warps you to a secret level.

World Two - Setoland

LEVEL ONE – Drop down into the large cave and do what you have to do. Then jump back out – using the magic stairs at the top right-hand corner of the cave.

Go back to the thunder cloud and extra platforms magically appear, enabling you to

get your pup and plenty of juicy bonuses in the process.

LEVEL TWO – To get past the crocs, you must wait for the croc ahead of you to open his mouth and, when he closes it again, the timing is safe enough for you to continue. Wait on the third croc for the same thing to happen, then continue jumping across.

LEVEL THREE – At the top left-hand corner by the two archers, fire a snow bomb and two ice blocks appear. Jump onto the highest one and, surprise surprise, an extra life comes floating down.

LEVEL FOUR - Fire a snow bomb as soon as



■ Underwater - and being shadowed by a mutant diver with only one foot. Who the hell comes up with these ideas - the Monty Python team?

you appear. Three ice blocks appear behind you. Jump up until you reach one of the unfriendly guys with a spear and shield, patrolling the ramparts. Fire a snow bomb and another ice block appears. Keep jumping on top of this one and you find yourself in a room with a chest and two spiders. Kill the spiders and walk over to the chest. It opens and you receive a really rather gorgeous 7,000 points.

World Three - Underwater

LEVEL TWO – Go to the platform with the three stars on either side of the stream of bubbles, jump into the stream and you warp straight to the next level.

LEVEL THREE – Go through the stream of bubbles and walk off the left edge of the platform and enter the dark tunnel. You are taken into a cave – open the keyhole and you are transported to the fourth level.

LEVEL FIVE – There's a cheat for an extra life at the top right-hand corner – just keep jumping on the small platform as before.

World Four - Amazon

The best way to kill the giant wooden bird is to collect seven snow bombs and as many sonic barks as possible. Never stand in front of the bird because he spits fire and when his head and tail fall off, make sure you're a fair distance away, because lots of pygmies with blowpipes jump out. Dear me, now this is just getting silly, isn't it?

World Five - Temple

LEVEL ONE – When you've passed the huge spikes – as you do – just walk into the pit that immediately follows and you meet the end-of-level guardian. When – and if – you defeat him, jump onto the moving block and you meet two pups. There is a shaft at the top left-hand corner – jump onto the first block on the wall of the shaft and the two pups should go ahead of you into the next level, giving you two lives. Cor.



■ In the jungle, about to be severely prodded by a passionate pygmy with a blowpipe. Ah, dontcha just love alliteration?

SENSIBLE SOCCER Renegade

Ah – Sensible Soccer ... a "wicked footy sim" – as we say. Tom Dart has sent a blinder of a banana kick our way in the form of an entire guide to the European championships and he's won himself £25 in the process. Anyway, here are a few of Tom's distinctly un-Graham Tayloresque general tactics, a full rundown of the European teams and how to beat 'em...

GROUP A

1. Sweden

An excellent team who are hard to beat and have a deadly strike force, especially from long range. Watch out for Andersson – No 11. Limpar's long-range shots are also deadly.

Use formation - 442.

Star players – No 6 – Jonas Thern, No 8 – Anders Limpar, No 10 – Tomas Brolin.

2. France

The French midfield is average, but the attacks from Papin and Cantona are deadly. An inch of space and either of them can finish the job – long range or short. The sweeper, Blanc, is also tough, but if you manage to contain Papin and Cantona, France are perfectly beatable.

Use formation - 532.

Star players – No 5 – Laurent Blanc, No 2 – Manuel Amaros, No 9 – Jean-Pierre Papin.

3. Denmark

The weakest team are still capable of a few surprises, so let's see less of the complacency, please. Laudrup and Poulsen often score long-range shots on the counterattack. Their defence, however, is weak – exploit it. Overall, Denmark's best weapon seems to be their predictability.

Use formation - 433.

Star players – No 1 – Peter Schmichel, No 11 – Brian Laudrup, No 9 – Flemming Poulsen.

4. England

If you play as England, the ideal partner for Lineker seems to be Shearer, who is pacy and has a great shot. Walker should be at sweeper because he is easily the best defender and has the greatest chance of stopping the striker who has penetrated your defence. Walker is quick and a strong kicker. In contrast, Lineker is rather slow, but makes



■ Scoring goals, having perms, crying - all part of the crazy, zany drama of professional footie.



■ "Come on you blues!" "'Ere John, get off me shoulders - I can't see a ruddy thing..."

up for it with his superb ball-control and deadly finishing. He is also difficult to shake off the ball.

Use formation - 532.

Star players – No 5 – Des Walker, No 7 – David Platt, No 10 – Gary Lineker.

GROUP B

1. Scotland

A good forward line, and a brilliant defender



■ England should now be four times as dangerous as they were when they were a goal down. Hang on though... England - dangerous?

in Gough. Scotland are hard to beat and may cause upsets. Don't take it for granted that you're going to have an easy game. McClair and McLuist are excellent – watch them.

Use formation - 442.

Star players – No 5 – Richard Gough, No 8 – Paul McStay, No 9 – Ally McCoist.

2. CIS

A tough team, with good, all-round players. Your defence needs to be in top form. The CIS midfield is their strong point and once you are through, their defence can be very thin. Watch out for long-range shots.

Use formation - 352.

Star players – No 3 – Vasily Kulkov, No 6 – Igor Shalimov, No 10 – Igor Kolyvanov.

3. Germany

Always a tough team to beat with a superb forward line. All the players are extremely quick and tricky. Possibly the best team.

Use formation - 532.

Star players – No 8 – Thomas Doll, No 9 – Rudi Voller, No 11 – Karl-Heinz Riedle.

4. Holland

An excellent team. Very fast, quick passers. Deadly, with a mean defence to boot. Watch out for Bergkamp. However, get through the awesome midfield and their defence is wafer-thin.

Use formation – 442. Star players – No 7 – Frank

Star players – No 7 – Frank Rijkaard, No 9 – Marro Van Basten, No 10 – Ruud Gullit.



General tips

- 1. The best way to score is to dribble dead centre to the edge of the box, hold down <Fire>, release it and then direct the stick to the top left or top right.
- 2. Be careful not to miskick into your own net when taking goal-kicks. It's happened a few times to us here at *STF* and it's a tiny bit embarrassing.
- 3. If you want to waste time surely not! just pass the ball around your players but, as Tom says, be careful. Of what? Stubbing your toe? Homicidal streakers on the pitch? Elaborate, please!
- 4. The best chance you have of scoring is straight from the opposition's kick-off, when their guard is down. Tackle them straight away and then dribble up with your starplayer and score as shown above.
- 5. If you have just scored, be on your guard yourself as the opposition usually make a bit more of an effort for a while.
- 6. Be careful on an icy pitch your keeper has difficulties.
- 7. The differences between star and ordinary players stars are much harder to tackle and are better at tackling you. The quality of the shot seems to depend on how good the player is at shooting in real life.

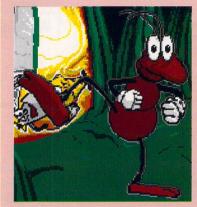
Finally, whatever happens don't worry about it – you can't do any worse than England did in the championships.



 And she's scored. Again. Diego Madonna, pop starlet and international centre-forward.

PUSH-OVER Ocean

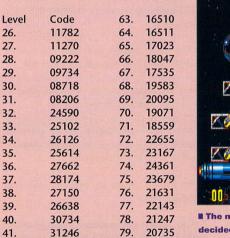
The rest of those level codes lie spreadeagled before your hungry eyes. Or something. Remember, the person responsible for this brain-addling numeric assault is one Stuart Riddock of Lanarkshire, Scotland



■ GI Ant - latest star of Ocean's new puzzle-'em-up, push-'em-down, knock-'em-over... Whatever. Cute, isn't he?



■ The Aztecs and the Incas died out when invading Spaniards force-fed them cheesy snacks, causing them to explode spectacularly.



80.

81.

82

28927

29439

30463

20051

09215

10239

09727

100. 44543

97

99

45.	30238	83.	29931
46.	29214	84.	31999
47.	28702	85.	32511
48.	20510	86.	31487
49.	21022	87.	30975
50.	22046	88.	26879
51.	21534	89.	27647
52.	23582	90.	28671
53.	24094	91.	28159
54.	23070	92.	26111
55.	22558	93.	26623
56.	18494	94.	25599
57.	19007	95.	25087
58	20030	96	08703

32270

31758

29710

20228

19518

17470

17982

16958

42

43.

44.

59.

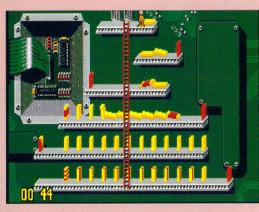
60.

61.

62.



■ The manufacturers of the curly vellow snack have decided to build a vacuum-sealed factory in outer space. It's the only way to avoid the smell.



■ GI Ant obviously knows a thing or two about knocking blocks off. He was a high-school bully in the termite mound before he became a squaddie.

PARASOL STARS

Ocean

An excellent cheat this, courtesy of Arran Beadle of Essex. Start the game as normal and, while playing, type in A WORD. Now press the following keys for different effects:

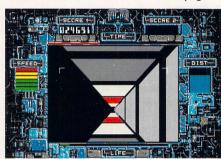
	in the state of th
ZorT	Kills all the bad guys, go on to next screen.
G	Stuns all the bad guys.
C	
	Increases credits by one.
L	Increases lives by one.
X	Go to hidden level.
D	Lose all your lives.
M	Miracle – collect three stars.
В	Turn screen into bonus screen.
E1 _ E10	Salact world

Select round.

PSYBORG

Loriciel

Here are all the level codes thanks to David Wagner and Kevin Pratt of Lanarkshire, Scotland, who, incidentially, supplied the codes for Titus the Fox, at the bottom of the page.



I Flying down a, sort of, psychedelic windtunnel in Psybora. Gosh, it reminds you of that old ZX81 game, 3D Maze, doesn't it? OK, so probably not.

ANACREON - 1. 1010 2. 1510 3. 1704 4. 7504 KRYPTON - 1. 5027 2. 5269 3. 7235 4. 4794 5.0413

KALGAN - 1. 9411 2. 6855 3. 9591 4. 4269 5. 4640

ZORGON - 1. 4412 2. 2436 3. 8883 4. 5564 5. 1902 6. 0722 7. 3610

TERMINUS - 1. 7672 2. 6765 3. 0218 4. 9330 5. 3704 6. 4970

SOL - 1. 2349 2. 3482 3. 2013 4. 7292 5. 2022 6, 4425

TITUS THE FOX

Titus

codes for this game:

Here are	the level
Level 1	2625
Level 2	8455
Level 3	2974
Level 4	4916
Level 5	1933
Level 6	0738
Level 7	2237
Level 8	5648
Level 9	6390
Level 10.	8612
Level 11	4187
Level 12	1350
Level 13	9813

Level 14 5052

Level 15 2045



RUBYSOFT (Dept ST) 96 Lillie Road, London, SW6 7SR, England Tel: 071-381 8998 or: 071-610 1703

Fax: 071-610 1703 *Shop prices will differ from those advertised

LILLIE ROAD LILLIE ROA AMMERSMITH

BUBY CHARTBUS

	ST	AMIGA		ST
A-Train	N/A	£25.99	Dojo Dan	.N/A
A320 Airbus	.£26.50	£26.50	Double Dragon 3 (Rosetta)	£16.99.
Abandoned Places	£19.99	N/A	Dragons Lair 2 Time Warp Dune Dungeon Master + Chaos *	.N/A
Advantage Tennis	£17.99	£17.99	Dune	.N/A
Addams Family	£17.99	£17.99	Dungeon Master + Chaos *	£17.99.
Air Bucks	£20.99	£20.99		
Air Support (Psygnosis) *	£17.99	£17.99	Dynamite Debugger *	£17.99.
Another Morld	017.00	C17.00	Dynamite Debugger *Elf	£16.99
Apidya Apocalypse Aquaventurer	N/A	£17.99	Elvira Mistroon of the Dork 2	£17.99.
Anocalynea	617.00	£17.99	Epic	C10.00
Aquaventurer	£17.90	617 99	European Football Champs	£17.00
Arsenal *	£17 99	£17 99	Eve of the Reholder	M/A
Aquaventurer Arsenal *	N/A	£25.99	Eye of the Beholder 2 Eye of the Storm * Exile F15 Strike Eagle 2 1Mb	N/A
Assassin	TBA	TBA	Eve of the Storm *	£19.99
Bards Tale Trilogy	.N/A	£24.99	Exile	£17.99.
Beast 3 *	.N/A	.£19.99	F15 Strike Eagle 2 1Mb	£22.99
Bane of the Cosmic Forge	N/A	.£27.99	F19 Stealth Fighter	£19.99
Bat 2	£24.99	.£24.99	Falcon 3 *	£23.99
Battle Isle	£20.99	.£20.99	Fascination	£19.99
Battle Isle Data Disk	N/A	£14.99	Fire and Ice	£17.99
Batte Use State Use Use Use Use Use Use Use Use Use Us	£22.99	£22.99	Fireforce	£17.99
Black Crypts	.N/A	£17.99	Floor 13	£20.99
Bunkhuels *	.£17.99	£17.99	Football Boss	£17.99
California Games 2	.N/A		Football Manager 3. G Lock Gauntlet 3 Global Effect	£17.99
			Gruptlet 2	£20.99
Campaign *	£17 00	C17 00	Global Effect	C24 00
Cartoon Collection (Comp) Castle of Dr Brian *	£18 00	618 00	Goblins	£17.00
Castle of Dr Brian *	N/A	£24 99	Graham Taylors	.L17.33
Centurion Celtic Legends Championship Manager 1Mb Civilisation	.N/A	£16.99	Graham Taylors Football Challenge Guy Spy Hagar The Horrible	£17 99
Celtic Legends	£19.99	.£19.99	Guy Spy	£20.99.
Championship Manager 1Mb	£17.99	.£17.99	Hagar The Horrible	.N/A
Civilisation	£25.99	£25.99		
			Harpoon 1.2.1 Harpoon Battle Set 3 Harpoon Battle Set 4	£17.99
Covert Action	£24.99	£24.99	Harpoon 1.2.1	.N/A
Crazy Cars 111	£17.99	£17.99	Harpoon Battle Set 3	.N/A
Crime City	£19.99	£19.99	Harpoon Battle Set 4	.N/A
Cruise for the Corpse	£19.99	£19.99	Harpoon Editor	.N/A
Covert Action	.£13.99		Harpoon Editor	£29.99
Deuterous	N/A		Heart of China	.N/A
Dick Tracy Adventure			Heroquest/Return of the	.£23.99
Double Double Bill (comp)	N/A	£14 99	Witch Lord	£10 00
Count on (comp)			**************************************	.215.55

ST	£19.99 £17.99 £20.99 £19.99
Holyles Book of Lames N/A Jan Bothams Cricket 1999. Indiana Jones Fate of Allamits 177.99. Indiana Jones Fate of Allamits 177.99. Ishar Legend of the Fortress 179.99. Ishar Legend of the Fortress 179.99. Jim Power 179. John Maddon's American Footy N/A. John Maddon's American Footy N/A. John Maddon's American Footy N/A. Jick Off 2 1 Mast Lane N/A. Kick Off 2 1 Final Whistle N/A. Kick Off 2 1 Final Whistle N/A. Kick Off 3 1 N/A. Kings Quest V. N/A. Killings Quest V. N/A. Killings Quest V. N/A. Killings Cloud N/A. Kinghts of the Sky 1Mb. 223.99. Kriightmare 179. Legend 220.99. Legend 220.99. Legend 177.99. Legend 177.99. Legend 177.99. Lemmings Data Disk. 13.99.	£19.99 £17.99 £20.99 £19.99
Holyles Book of Lames N/A Jan Bothams Cricket 1999. Indiana Jones Fate of Allamits 177.99. Indiana Jones Fate of Allamits 177.99. Ishar Legend of the Fortress 179.99. Ishar Legend of the Fortress 179.99. Jim Power 179. John Maddon's American Footy N/A. John Maddon's American Footy N/A. John Maddon's American Footy N/A. Jick Off 2 1 Mast Lane N/A. Kick Off 2 1 Final Whistle N/A. Kick Off 2 1 Final Whistle N/A. Kick Off 3 1 N/A. Kings Quest V. N/A. Killings Quest V. N/A. Killings Quest V. N/A. Killings Cloud N/A. Kinghts of the Sky 1Mb. 223.99. Kriightmare 179. Legend 220.99. Legend 220.99. Legend 177.99. Legend 177.99. Legend 177.99. Lemmings Data Disk. 13.99.	£19.99 £17.99 £20.99 £19.99
International Sports Challenge. £20.99. Ishar Legend of the Fortress. £19.99. Jaguar XJ220. £17.99. Jim Power* £17.99. Jim my White's Snooker £19.99. John Barnes' Football. £17.99. John Maddon's American Footy. N/A. Jones in the Fast Lane* N/A. Kick Off £1 Mb. Kick Off £1 Tinal Whistle. N/A. Kick Off £1 Final Whistle. N/A. Kings Quest V. N/A. Kilnigs Quest V. N/A. Kilnigs Quest V. N/A. Kilnight Oft the Sky 1Mb. £23.99. Knightmare £17.99. Legend. £20.99. Legend. £20.99. Lesture Suit Larry V. N/A. Lemmings Lemmings £17.99.	£20.99 £19.99
International Sports Challenge. £20.99. Ishar Legend of the Fortress. £19.99. Jaguar XJ220. £17.99. Jim Power* £17.99. Jim my White's Snooker £19.99. John Barnes' Football. £17.99. John Maddon's American Footy. N/A. Jones in the Fast Lane* N/A. Kick Off £1 Mb. Kick Off £1 Tinal Whistle. N/A. Kick Off £1 Final Whistle. N/A. Kings Quest V. N/A. Kilnigs Quest V. N/A. Kilnigs Quest V. N/A. Kilnight Oft the Sky 1Mb. £23.99. Knightmare £17.99. Legend. £20.99. Legend. £20.99. Lesture Suit Larry V. N/A. Lemmings Lemmings £17.99.	£20.99 £19.99
Ishar Legend of the Fortress. £19.99. Jaguar XJ220. £17.99. Jim Power * £17.99. Jim Power * £17.99. Jim White's Snooker £19.99. John Maddon's American Footy IN/A. Jones in the Fast Lane * IN/A. Kick Off £1 Mb IN/A. Kick Off £2 Final Whistle. IN/A. Legend £20.99. Legend £20.99. Legend £20.99. Legend £17.99.	£19.99
Jim Power *	£17.99
Jim Power *	
John Barnes' Football £17.99	£17 99
John Barnes' Football £17.99	£16.99
Nick Off 3	
Nick Off 3	£17.99
Nick Off 3	£24.99
Nick Off 3	£13.99
N/A	£9.99
N/A	IBA
Riightmare	£20.95
Riightmare	C22 00
Legend	£19 90
Legend	£17 90
Lemmings£17.99 Lemmings Data Disk£13.99	£20.99
Lemmings£17.99 Lemmings Data Disk£13.99	£24.99
Lemmings Data Disk£13.99	£17.99
	£13.99
More Stand Alone £17.99 Links (Hard drive only) N/A	£17.99
Links (Hard drive only)N/A	£25.99
Links Firestone DatadiskN/A	£13.95
Links Bountiful Datadisk N/A Liverpool * £17.99. Lotus Turbo Challenge 2 £17.99.	£13.95
Lotus Turbo Challenge 2 917 99	£17.95
Lotus The Ultimate Challenge £17 99	£17 90
Lotus The Ultimate Challenge £17.99 Lure of the Temptress£20.99	£20.99
M1 Tank Platoon£20.99 Magic Pockets£16.99	£20.99
Magic Pockets£16.99	£16.99
Mauniti Island £18.99	£12 50
MegaFortressN/AN/A	£20.99
MegaFortress N/A Mega Sports £17.99 Mega Traveller 2 £20.99	£17.99
Mega 1 raveller 2£20.99	£20.99
Mercenary 3	£19.99
Microprose Form 1 Grand Prix (the Best!!)£24.99	004.00
Microprose Golf£24.99	£24.95
Mig 29 Super Fulcrum \$23.99	

Might and Magic 111	ST	AMIGA
Might and Magic 111	N/A	£22.99
Midwinter 2 1Mb	F22 99	£22 99
Moonbase *	£22.99	£22.99
Moonbase * Moonstone	£20.99	£20.99
Monkey Island 1Mb	£16.99	£16.99
Monkey Island 2 1Mb	N/A	£24.99
Monkey Island 1Mb Monkey Island 2 1Mb Myth History in the Making	£17.99	£17.99
Nigel Mansells World		
Championship	TBA	TBA
Nova 9" Paladin 2	N/A	£24.99
Paladin 2	£19.99	£19.99
Panerhov 2		
(Special Amiga Price)	£25.99	£10.99
Parasol Stars (Rainbow Isl 2).£17.99	£17.99
PGA Tour Golf + Data Disk	N/A	£19.99
PGA Tour Data Disk	N/A	£12.99
Pinball Dreams	£17.99	£17.99
Perfect General Plan 9 From Outer Space	N/A	£20.99
Plan 9 From Outer Space	£22.99	£22.99
Pools of Darkness	£21.99	£21.99
Populous 2 1Mb	£19.99	£19.99
Powermonger	£19.99	£19.99
Predator 2	£16.99	£16.99
Premiere 1Mb	N/A	£20.99
Project X 1Mb	N/A	£17 99
Prophecy	N/A	£19.99
Psychos Soccer Sel Comp	£20.99	£20.99
PushoverRailroad Tycoon	£17.99	£17.99
Railroad Tycoon	£23.99	£23.99
Red Baron	N/A	£22.99
Red Zone	£17.99	£17.99
Realms	£19.99	£19.99
Rise of the Dragon	N/A	£24.99
Risky Woods	£17.99	£17.99
Road and Track *	£19.99	£19.99
Hobocod (James Pond 2)	£17.99	£17.99
Robocop 3	£17.50	£17.50
Sabre Team	£17.99	£17.99
Samurai	£20.95	£20.95
Sensible Soccer	£17.99	£17.99
Secret of the Silver Blade	£21.99	£21.99
Shadowlands	£19.99	£19.99
Shuttle Sim	£20.99	£20.99
Silent Service 2 1Mb	£23.99	£23.99

Silly Putty	VA 17.99 BA 17.99 VA 22.99	£22.50 £17.99 .TBA £17.99 £22.99
Sim Ant	VA 17.99 BA 17.99 VA 22.99	£22.50 £17.99 .TBA £17.99 £22.99
Simpsons	E17.99 BA E17.99 V/A E22.99	£17.99 .TBA £17.99 £22.99
Summer Challenge T Space Crusade S Space Quest IV S Special Forces S Spirit of Excalibur S	BA 17.99 V/A 222.99 19.99	.TBA .£17.99 .£22.99
Space Crusade	17.99 V/A 222.99 19.99	£17.99 £22.99 £22.99
Special Forces	22.99	£22.99
Special Forces	22.99	£22.99
Spirit of Excalibur	19.99	£22.99 £19.99
		£19.99
	17 99	
Sports Best (comp)		£17.99
Striker Super Tetris	217.99	£17.99
Super Tetris£	20.99	£20.99
Supremacy	20.99	£20.99
Team Yankee 2 (Pacific Islands) .	19.99	£19.99
Terminator 2	217.99	£17.99
The Games (Espana) 92	20.99	£20.99
The Humans	BA	.TBA
The Manager *	19.99	.£19.99
Their Finest Hour	.20.50	£20.50
Titus The Fox£	17.99	.£17.99
Tilt £ Trivial Pursuits £	14.99	£14.99
Trivial Pursuits£	15.99	.£15.99
Ugh!	V/A	.£17.99
Utopia Twin Pack	19.99	.£19.99
Ultima 6.	20 99	£20 99
Vikings Field of Congest M	1/4	C19 00
Vengeance of Excalibur	VA	£19.99
Wing Commander	VA	£24.99
Wiz Kid	17.99	£17.99
Vengeance of Excalibur	V/A	£19.99
WWF	17.50	£17.50
WWF	17.99	£17.99

* Please note titles asterisked may not be released at press date but will be despatched within 24 hours of release subject to availability. PLEASE TELEPHONE FOR ANY TITLES NOT SHOWN AS WE CANNOT SHOW ALL TITLES AVAILABLE. ALL TITLES CAN BE PUT ON BACK ORDER. REMEMBER WE NEVER DEBIT CARDS FOR GOODS NOT DESPATCHED.

HARDWARE

Quickshot Python 1	£9.00
Cruiser (black)	29.99
Navigator	
Speedking Autofire	£9.50
Pro 5000 Extra	£13.50
Zip Stick Superpro	£12.50
Delta 3A Analogue	£16.50
Quickjoy Jet Fighter	£11.99
Quickjoy Megastar	£20.99
Quickjoy Topstar	
1Mb Ungrade Amiga 600	£49.98
	£39.99
512K Upgrade Amiga with clock	
*512K Upgrade for most 520 ST's	£49 9
* (Plug in solderless not suitable for S	TF NR
due to variation design a small mino	
boards may need a little solder	1
bounds may need a nule solder	

	ST	Al	MIGA	ķ
1943	£6.99.		€6.99)
Advanced Destroyer Sim	£8.99.	224	£8.99	,
Afterburner	£6.99.		£6.99	,
Arkanoid Revenge of Doe	£6.99.	200	£6.99	,
Barbarian 2	£6.99.		€6.99	,
Batman Caped Crusader	£6.99.	1000	£6.99)
Batman the Movie	£6.99.		£6.99	ï
Battle Chess 1	£9.99		£9.99	j
Bionic Commandos	£6.99		£6.99)
Bubble Bobble	£6.99		£6.99	١
Demon Blue	£6.99		£6.99	١
Dragon Ninja	£6.99		£6.99)
F16 Combat Pilot	£8.99		£8.99	١
Falcon		£	13.99	ĺ
Falcon Counter Strike	£8.99		£8.99	į

			1200000	
	S	T	AMI	GA
Falcon Fire Fight	£8.	99.	£8	99
First Division Manager	£6.	99.	£6	99
Forgotten Worlds	£6.	99.	£6	99
Gauntlet 2				
Head Over Heels	£6.	99.	£6	99
Heroes of the Lance	£6.	99.	£6	99
Horror Zombies from the Park	£6.	99.	£6	99
IK+	£6.	99.	£6	99
Indiana Jones Last Crusade				
(Arcade)	£6.	99.	£6.	99
James Pond	£6.	99.	£6.	99
Kick Off 2 Europe	£6.	99.	£6.	99
Kick Off Extra Time	£6.	99.	£6.	99
Last Ninja 2	£6.	99.	£6.	99
			£6.	

CLASSICS

	ST	AMIGA
Lombard RAC Rally	£6.99	£6.99
Nightbreed	£6.99	£6.99
Pac-Mania	£8.99	£8.99
Pang	£6.99	£6.99
Populous	£9.99	£9.99
Pro Tennis Tour	£6.99	£6.99
R-Type		
Rainbow Islands	£6.99	£6.99
Rambo 3		
Silkworm	£8.99	£8.99
Supercars 2	£8.99	£8.99
Team Suzuki		
Turbo Outrun	£6.99.	£6.99
Ultimate Golf	£8.99	£8.99
Wizball	£6.99	£6.99
World Class Leaderboard		

SERIOUS/EDUCATIONAL

RUBY

3D Const Kit	ST	AMIGA
(Ltd qty at this price)	£17.99	£17.99
3D Const Kit 2 *	£39.99	£39.99
ADI English 11-12yrs	£17.99	£17.99
ADI English 12-13 yrs	£17.99	£17.99
ADI Maths 11-12 yrs	£17.99	£17.99
ADI Maths 12-13 yrs	£17.99	£17.99
Easy AMOS	N/A	£24.99
AMÓS Creator	N/A	£34.99
AMOS Compiler	N/A	£20.99
AMOS 3D	N/A	£24.99
Bars and Pipes Pro	N/A	£240.00
Deluxe Paint 4 1Mb recommended	N/A	£59.99
Deluxe Print 2	N/A	£37.99
Deluxe Video 3	N/A	£54.99
Digicalc	N/A	£29.99
Disney Animation Studio	N/A	£79.99
GB Route Plus	N/A	£54.99
Home Accounts 2	£44.99	£44.99
Mini Office	N/A	£49.99
STOS 600 Sprites	£13.99	N/A
STOS Compiler Thomas Fun with Words	£17.99	N/A
Fun School 3 & 4 (under 5)	£15.99	£15.99
Fun School 3 & 4 (drider 5)	£17.99 £17.99	£17.99 £17.99
Fun School 3 & 4 (7-11)	£17.99	£17.99
The French Mistress	£15.99	£15.99
The German Master	£15.99	£15.99
The Spanish Tutor	£15.99	£15.99
The Italian Tutor	£15.99	£15.99
Answer Back Junior Quiz (6-11)	£14.99	£14.99
Answer Back Sen Quiz (12-adult)	£14.99	£14.99
Maths Adventure	N/A	£18.99
Penpal	N/A	£53 99

FIVE INTELLIGENT GAMES

Chess, Backgammon, Bridge, Draughts and Go

ALL FIVE GAMES ONLY £17.99

FIRST SAMURAI/MEGA-LO-MANIA PACK

TWO VERY NEW GAMES ONLY £19.99

AIRSEA SUPREMACY

Silent Service, F15 Strike Eagle, Carrier Command, P47 and Gunship ★ Amiga Version
★ Wings instead of F15 Strike Eagle FANTASTIC COMP ONLY £20.99

THE DIZZY COLLECTION

Fast Food, Kwix Snax, Fantasy World Dizzy, Treasure Island Dizzy, Magicland Dizzy FIVE GOOD GAMES ONLY £16.99

DIZZY'S EXCELLENT ADVENTURES

Dizzy Prince of the Yokefolk, Spellbound Dizzy, Bubble Dizzy, Pank Dizzy, Quick Snax ONLY £16.99

NINJA COLLECTION

Double Dragon, Shadow Warrior and Dragon Ninja
ONLY £18.99

TOP LEAGUE

Speed Ball 2, Rick Dangerous 2, TV Sports Football, Midwinter and Falcon

OUR VERY BEST SELLER FOR ONLY £20.99

RAINBOW COLLECTION

Bubble Bobble, Rainbow Island and New Zealand Story, Great comp for the younger ones

THREE FANTASTIC GAMES ONLY £13.99

SOCCER MANIA

Football Manager 2, Gazza's Soccer, Microprose Soccer and Football Manager 2 World Cup Edition
FOUR GAMES ONLY £13.99

AIR COMBAT ACES

Fighter Bomber, Gunship and THREE GREAT SIMS ONLY £20.99

SUPER SEGA

Super Monaco GP, Golden Axe, Crackdown and Eswat ALL FOUR GAMES ONLY £19.99

FOOTBALL CRAZY CHALLENGE Kick Off 2, Player Manager and Final Whistle You'd have to be crazy not to buy this!! ONLY £17.99

STRATEGY MASTERS

Deuterous, Populous, Hunter, Spirit of Excalibur and Chess Player 2150

ALL FIVE GAMES FOR ONLY £20.99

FANTASTIC WORLDS

Realms, Pirates, Wonderland, Populous 1 and Megalomania GREAT COMP FOR ONLY £20.99

BOARD GENIUS

Monopoly Deluxe*, Scrabble Deluxe, Cluedo and Risk

★ST Version has no Monopoly, only £18.99

QUEST AND GLORY

Cadaver, Midwinter, *Bat and
* ST version: Iron Lord inste FOUR GAMES ONLY £20.99. ST/AMIGA

£15.50 ONLY, VERY SPECIAL PRICE

QUEST FOR ADVENTURE

alth, Indiana Jones The Adventure and Mean Streets

THREE GAMES ONLY £24.99

MONSTERPACK VOL 2 Shadow of the Beast 2, Killing Game Show and Awesome
ONLY £17.99 AMIGA ONLY

ALL THREE GAMES ONLY £20.99 AMIGA ONLY **VOLUME 1 (THE BITMAP BROS)** ALL THREE GAMES ONLY £17.99

AD+D COLLECTORS EDITION

Kindwords v3 All Factfiles for Answer Back available @ £9.99

PC AND SEGA **GAMES ALSO SUPPLIED** Please phone

Credit cards debited only on day of despatch. Tel: 071-381 8998/071-610 1703 Fax: 071-610 1703

Please charge my Access/Visa No:		Valid from:	Expiry date	:
Please supply me with the following for com-	puter	Date		
Titles	Price	Name	10am-5pm Monday to	EXPOR
		Address	Saturday. After hours + Sundays Ansaphone order	Please m RUBYSO despatch charge fo
			hotline: 071-610 1703	charge fo p&p per i add £2.50 item, all o
		Postcode	*This number is a fax/tel switch system. Listen to the	without no
		Tel	announcement	companie goods fro cheque cl

VISA E

RT ORDERS WELCOME

make chaques & P.O.'s payable to DFT. Credit card orders cashed only on Order of the control o

0 J

3

ZOVEM

W

Still in stock: 20 (31 programs on Disk, plug-ins guide), 21 (animation), 22 (desktop publishing, word processing, recover lost data, Devpac 1), 23 (15 programs - 3D construction kits, 3D, comms), 24 (Llamatron, ST video, digitisers roundup), 25 (memory upgrades, classic games, emulator roundup), 26 (protect your ST from viruses, UVK on the DIsk, ST on TV)



ctober 1992 Disk: Magic Story Book, Captain Dynamo, multi format slideshow; Pack Ice: Pro 12 sequencer:

Inside: Sequencer roundup; make some noise feature; hard drive roundup, DTP masterclass. We ask Are Games Too Hard?



ISSUE 38

Two Disks: Spectrum 512 Spec Code Sensible Soccer demo. Mapper 2 Inside: Get closer to your ST with Summer School, Falcon and Mega STEs investigated STOS tutorial getting professional with MIDI music



ISSUE 37

Two Disks: STOS Basic language and Animaster sprite designer, International Sports Challenge demo, 3D Picture modelling package

Inside: How to create great games, monitor roundup, Calamus SL reviewed and rated



ISSUE 36

Two Disks: K-Spread 2 spreadsheet package; Fire and Ice demo. Super Boot 7.4, The Financier money manager, and more Inside: 50 ways to soup up your ST; what happened to the games heroes of vesterday? HP inkiet printer review



ISSUE 35

June 1992 Two Disks: GFA Basic v3.5. GFA Assembler. GFA Raytrace complete: Pacific Islands demo, complete database and astrology programs, and much

Inside: upgrades stepby-step; ST astrology; program fractals



ISSUE 34

Two Disks: GFA Draft Plus 3 complete 2D vector drawing package; Campaign demo; Intro Designer; six more full programs

Inside: 21 pages of art guides; ST Book portable tested; weird games; 120 tips; Buyer's Guide



ISSUE 33

Two Disks: Write On package: Leander preview: two raytracing programs; complete Penguin game; fractals and more! Inside: Over 20 pages

of all sorts of tips; complete quide to raytracing; get the best from Sequencer One



ISSUE 32

March 1992 Disk: Knightmare

demo; Kozmic pattern generator - exclusive; STOS extension and more!

Inside: Find out how you can make money with your ST: reviews of STOS 3D and Timeworks 2; over 40 ST tins!



ISSUE 31 Disk: Stere ou need to to get started with the ST; roundups

of top software, games and add-ons: inside your STE, assembly language programming





ISSUE 29

December 1991 Disk: Autoplay intro sequence creator; Daylight Robbery and

Stereo Replay demos Inside: Making your own intros; score-writing packages; STrelated book roundup; Band in a Box and other packages reviewed and rated



al proyou need to wabout fractals on your ST; 25 "serious" packages reviewed; floppy drive roundup;

How many reasons do you need to subscribe?

- You guarantee your copy each and every month
- You get it delivered direct to your front door
- You get the first crack at all those special STF offers
- You get software packages and accessories - as a gift!
- You can save money on the price of the issues
- You get your copy of STF before it's in the shops

Complete the coupon on the right and return it to us straight away. Can't wait? Then phone our credit card hotline for fast and friendly service: 🏗 0458 74011 ORDERING BACK ISSUES Please use the coupon below. Prices per issue include Cover Disk, packing and postage. Note that issues 33, 34, 35, 36, 37, 38, 39 are a little more because you get two disks! Per copy, except nos noted: UK £4.00, Europe £5.45, Elsewhere £7.50. Add £1 each for issues 33, 34, 35, 36, 37, 38, 39

All of these superb gifts can be yours when you subscribe!

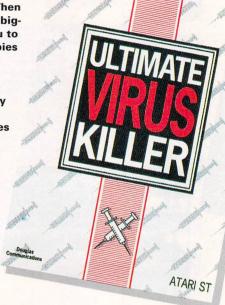
As you'll know, if you've got this far, ST FORMAT is an excellent read, packed full of no-nonsense reviews, in-depth features, news that's eons ahead of the rest, tutorials and well, the list is endless...
And that's why you should subscribe.



When you subscribe to ST FORMAT you get this fantastic selection of software and STF accessories. First up there's the Ultimate Virus Killer v5.4 – it's the best virus killer around being capable of recognising over 60 viruses and of repairing over

450 virus-damaged game disks - and it's worth £9.99. Then there's a spanking new bigger sized binder for you to keep your precious copies of STF in, it's red, it's sturdy and it's got ST FORMAT written down its spine. Finally there's the best free gift of all - two issues of ST FORMAT absolutely free. At face value they're worth £7.90, but with the second Cover

Disk containing a software package, they're worth far more than that.



SUBSCRIPTIONS

Name Address	
Addicoo_	
Postcode	Telephone
12 ISSUES	UK £39.95 EUROPE £67.80 REST OF WORLD £96.85
To ensure yo	ou receive your magazine and Disk quickly and in perfect condition, all overseas subscriptions are sent Air Mail
Method of paym	ent – please tick appropriate box
Access	☐ Visa ☐ Cheque ☐ PO
Credit card No	
Expiry date	
PI	ease tick here if you do not wish to receive direct mail from other companies
Please	make all cheques payable in pounds sterling to:
	Future Publishing Limited. SEND THIS FORM TO: ST FORMAT,
ED	EEPOST, Somerton, Somerset, TA11 7BR.

No stamp required if posted in UK, Channel Islands or the Isle of Man

- 4		All controls	4000000	IS			_
- 7			A THE SECOND			and the same of	
THE RESERVE OF THE PERSON NAMED IN	and the second		200				

Name _	TO SEC.												
Addres	s												
Postco	de					Те	leph	one					
Please	send	me th	e bacl	k issue	s I h	ave c	ircle	d					
Issue	20	2	21	22	23	}	24		25		26	27	7
		29	32	3	3 .	34		35		36	3	37	38
	UK £	4.00*, E	UROPE £	5.45*, Els	sewher	e £7.50	* per	сору					
	*(No	33, 34,	35, 37, 38	3: add £1	extra p	er copy	1)						
		Meth	od of	payme	nt – į	pleas	e tic	k ap	pro	pria	te bo	(
Acc	ess		U Vi	sa			heq	ue			PO		
Credit	card I	Vo											
Ехр	iry da	te											
			se tic direc	t mail	from	oth	er co	omp	anie	s			

FREEPOST, Somerton, Somerset, TA11 7BR.

No stamp required if posted in UK, Channel Islands or the Isle of Man

Future Publishing Limited.

SEND THIS FORM TO: ST FORMAT,

PLEASE NOTE! THIS COUPON IS VALID UNTIL 30 NOVEMBER 1992

ST/MAG/08

Just how long have you had your - er, problem? Have you had to suffer quietly, hoping no one would notice or that it would go away of its own accord? Worries be gone! Write to ST Answers, ST FORMAT, 30 Monmouth Street, Bath, Avon BA1 2BW stating the nature of your difficulty. Confidentiality denied

THE ICONS



COMMS



For keeping your ST in touch with the world, you need to watch out for this attractive icon.

DISKS



These vital bits of equipment don't always work as well as they might. Floppy probs here.

GAMES



A special extra to Gamebusters this issue for serious game-players who

GRAPHICS



HARD DRIVES



Indispensible, these are, once you've got used to them. So what do you if they cease to exist? Panic!

PRINTERS



it to when you spent so much time on it?

PROGRAMMING



There's something for everyone here this month - STOS, GFA Basic and bly, it's all here



ST PROBLEMS



Bits and pieces, odds and ends, all the hardware that didn't fit elsewhere are here.

A quick query (or ten)



I am going to start college in September and I want a PC emulator for my ST. Could you please answer a few questions.

- 1. Is there an emulator that is compatible with a 486 or at least 386 at 25MHz?
- 2. Can I plug in a PC hard drive to my ST?
- 3. Can I use Windows on an emulator?
- 4. How do you access the emulator from the
- 5. Can I use PC programs without prob-
- 6. Can PC games run from the emulator?
- 7. Does the emulator need soldering?
- 8. What graphics modes are available? Can I use a Super VGA monitor?
- **9.** Is the PC's sound output by the ST?
- 10. What is the fastest 386 emulator on the market and how much does it cost? Nathan Peacock, Bucks

stf: To start at the beginning, then...

1. There is no 486 emulator available. The

Vortex 386SX running at 16MHz and is the fastest you can get. The Vortex is available from HCS for £330 in both STE and Mega STE versions. HCS can be contacted on ☎ 081 777 0751.

- 2. PC drives cannot be connected directly to the ST.
- 3. Windows can be used on a 386 emulator, although 4MBytes of memory and a hard drive are recommended.
- 4. The emulator is switched on by software
- 5. PC programs generally run without problems on an emulator.
- 6. Some games will run, but EGA and VGA colour games are not supported.
- 7. It depends on your machine if soldering is required. Generally older STF and STFM machines need emulators soldered in and STEs and Mega STEs can have emulators plugged in.
- 8. The Vortex supports mono, Hercules, CGA and mono VGA graphics modes. Only the ST colour or mono monitors can be used

Billy Allen tackles your STOS queries

Musical ST formats

I'm writing a demo in STOS, but I don't think much of the STOS generated music. Can I play chip music if it's stored in the Quartet format?

Richard Nichols, Bedworth

stf: Quartet music is created purely from sound samples. As you rightly point out, STOS chip music is pretty crap on the whole. Unfortunately almost every ST musician uses their own music format, so, to play back music by different people, you need to create different routines. Mad Max music is by far the most common, however, so here's a routine to play it back from within STOS:

- 10 reserve as work 10,30000
- 20 bload "mad_max.mus", 10
- 30 dreg(0)=1 : call start(10) : □ rem> Initialise music #1 <
- 40 loke \$4D2, start(10)+8 : rem> → Play on interrupt <

- 60 loke \$4D2,0 : rem> -Disable interrupt <

Irregular movements

When writing a game in STOS, I cannot get my sprite to move for the same length of time as I hold down my joystick. Can you

Daniel Moss, Kendal

stf: Well, that's what comes of using STOS sprites. We assume you are using the MOVE command to move the sprite. Try defining an X and Y variable and controlling them yourself rather than using MOVE. Try this routine:

- 10 X=0 : Y=0
- 20 repeat
- 30 if jleft and X>0 then dec X
- 40 if jright and X<288 then inc X
- 50 if jup and Y>0 then dec Y
- 60 if jdown and Y<168 then inc Y
- 70 sprite 1, X, Y, 1 : wait vbl
- 80 until fire

If you are designing a game then it is best to avoid using STOS sprites

- PC monitors cannot be connected.
- 9. The PC's beeps and burbles are fully supported by the ST.
- 10. At the moment the Vortex is the only option available when it comes to 386 emulators.

Very hardcard



I have a 40MByte Western Digital hardcard from my old (dead) PC-XT. Is there any way that it can be connected to my ST?

Athanasios Kitselis, Sheffield

stf: A hardcard is a hard drive mounted on a PC expansion card designed specifically for use in a PC compatible machine. Because of this it is impossible to connect it to the ST.

Data-basics



I am having problems with Database Master One. I cannot print out a single index card from a file but I have to print the entire

thing. Is there a program that can just print one card at a time? Can I transfer my files to the other program to save re-typing all the information?

K R Martin, Hants

stf: If your program can save the database as an ASCII file then it can be imported into practically all other database programs. Try Supercard 2 from BWare Software which we featured on Cover Disk 35 - it is a Shareware program with all the features you would expect to see on a full price database. It has an extensive filter feature which enables specific files to be searched for and displayed, and has a single card print option. The program is well worth the £15 registration fee and is supplied with a good 76 page manual. You can contact BWare on a 0455 613377



■ This is it, Supercard 2. If you haven't got it then nip back to page 58 and order a back issue of ST FORMAT 35 - you'll find it on the Cover Disk, guys!

2 into 1?



I have a 520 STFM and a Mega STE which I use with the Philips CM8833 monitor. The monitor has a SCART connector and an 8-

pin TTL RGB input and the manual says that the TTL 8-pin input takes priority - that is, it turns off the SCART linear RGB input if there is an 8-pin TTL RGB input. Can I plug both machines into the monitor at the same time? I don't want both machines running at the same time, I just want to avoid constant plugging and unplugging of the leads. Fatty, Consett, Co Durham

stf: The RGB output from the ST is linear RGB and is not directly compatible with a TTL RGB input, so you should not connect either of your machines to the 8-pin port. However, if you must have both machines connected at once then you can get a 2 to 1 SCART adaptor from Maplins Electronics, part number ZB29G, for £9.95. It is not recommended that you connect two outputs to one input in this way because you could damage the monitor if both machines are switched on - it could happen accidentally! Maplins can be contacted on a 0702 554161.

8 or 9 chips?



I have been offered some cheap 1MByte SIMMs from a PC. The problem is that they have 9 chips, not 8. Are 9 chip SIMMs

compatible with the STE? Frank Melady, Dublin, Eire

stf: 9 chip SIMMs are compatible with STEs you can install them without any worries.

Hardened killer



I have several Public Domain virus killer programs which seem to work very well. Is there any advantage to buying the Ultimate

Virus Killer? I am reluctant to spend £10 on a

because they are slow, flickery and difficult to handle. Next month there is a section on creating your own sprite routines, so if you can wait for a month all your spritey blues will be washed away.

Go public

Could you please recommend a cheap STOS book? My price bracket is around £5. James Birse, Poole

stf: The only STOS book around is The Game Maker's Manual which is available from Sigma Press (# 0625 531035 £12.95), but even that might be a bit expensive. Your best bet is to get some disks containing STOS source code from a PD library - contact Goodman's International on = 0782 335650 - they have a large library of STOS routines and source code. There are also PD disk magazines which you could try - HP Source contains some excellent STOS articles.

Protection racket

How can I check if the current disk in the drive is write-protected? Also, how can you check if there is a disk in the drive? Sam Trent, Paisley

stf: Other versions of BASIC can access the ST's BIOS directly from within a routine but STOS cannot do this. The only way to check the disk from within STOS is to try saving something to the disk, then, if you get a disk error, treat the disk as write-protected. Use the same method to test for a disk, but try to load rather than to save something. This routine should do the job:

10 on error goto 30 20 open out #1,"DUMMY" : □ close #1 : goto 50 30 print "Disk is write-protected!" 40 resume 40 50 ...

STOS tipettes

And finally some little tips to aid you in your programming efforts.

A quick way to get the palette from a sprite bank:

10 H=hunt(start(1) to start(1) \(\)

+length(1),"PALT")+4 20 loke \$45A,H : wait vbl

If you want to change frequency while you are in a program, try

10 wait vbl : poke \$FFF820A,254

for 50 Hz, or

10 wait vb1 : poke \$FFF820A,252

for 60Hz.

A quick way to round a number to the near-

10 X=X and \$FFF0

If you want to scroll the screen by eight pixels up or down you could try "cheap" hardware scrolling.

10 repeat

20 physic=physic-1280 : wait vbl :ø rem> add 1280 to scroll up <

30 if physic<32000ø

then physic=default physic

40 until inkey\$=" "

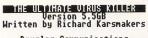
50 default

ANSWERS ST

program that does the same job as my PD programs. I have a hard drive - does UVK kill viruses on hard drives as well as floppies?

David Griffiths, Wirral

stf: The Ultimate Virus Killer can restore and repair hundreds of games in addition to its virus killing abilities. It can work with hard drives and checks every file on the drive for link viruses - these are virus programs which attach themselves to other programs or data files to escape detection. Boot sector viruses do not normally affect hard drives because they do not boot in the same way as a floppy disk, they usually boot from either an AUTO folder program or a .SYS file in the root directory of drive C. Link viruses are very rare on the ST but it is good to know you have the means to detect and destroy them. UVK is well worth £9.99 and is updated on a regular basis. It can be obtained from Douglas Communications on **2 061 456 9587 or from our special offers** on page 128.



Douglas Communications P.O. Box 119 Stockport Cheshire SK2 6HW England

Search'n'Destroy Viruses Repair Disks UWK 5.5 Information System Status Quit to Desktop TUE 08.09.1992 15:28:26

■ The king of the virus killers is UVK hetter known as the Ultimate Virus Killer. Get it - you need it.

4,096 colours



Can I get a 4,096 colour board for the STFM? lan Turner, Bedford

stf: TC Developments used to supply the ST4096C board for £79.95 but they are no longer available. You may be able to get one second hand by placing an ad in a computer magazine which specialises in classified ads. Alternatively, why not upgrade to an STE which has a palette of 4,096 colours and better sound capabilities - you can get a new 1MByte machine for as little as £250 if you shop around.

Which machine?



I am interested in buying an ST for word processing and for strategy games. Could you advise me which of the many variations

of the ST I should buy, (I will be getting a Falcon 030 when it is available), but I want to get a machine to use immediately. Could you also recommend an easy-to-use word processor program and a good strategy game to get me started? C Finch, Bristol

stf: Because you are going to get a Falcon, the 1040 STE is your best choice. Atari have just dropped the price of the ST range and are introducing a 1040 STE pack which includes the First Word Plus word processor. First Word Plus is getting a bit long in the tooth these days, but it is an excellent introduction to GEM-based word processing. Contact First Choice Computer Centre (0532 3194444) for their latest STE prices. For an excellent strategy game, Populous 2 (£29.95 from Electronic Arts @ 0753 549442) is highly recommended, and requires 1MByte of memory to run.

No spaces



I am using First Word Plus to create document files so that my dad can take the disk to work and print them out via his PC

and laser printer. When I view the file on the Desktop there are no spaces between the words and my dad's PC cannot load it into the word processor he uses. How can I save my files so that he can print them?

Calum Smail, Bucks

stf: It looks like there are two problems here. First, you must make sure that you are using PC formatted disks because the PC cannot read normal ST formatted disks. Get your dad to format some disks on his PC at work and bring them home for you, then save your files to these disks.

When using First Word Plus (and First Word) you can save your files in ASCII format by turning off the WP mode function. To do this, go to the file menu while working on your file, you can see that the option WP Mode has a tick next to it. Click on WP Mode to make the tick disappear. When you

SSEM

Assembly language queries answered by **Tony Wagstaff**

Local branch

What does the .s suffix actually do in the command bra.s when branching with a byte offset, and does the 68000 always jump to supervisor mode when an interrupt is called? J A Oslo, Norway

stf: Since bra.s is used to branch to an address that is within -128 to +127 bytes of the branch instruction, only two bytes are needed for the command in machine code. Larger jumps need four bytes, so, quite simply, bra.s creates a smaller program. Yes, interrupts do run in supervisor mode.

Return control tip

Thanks to James Ingram from Edinburgh for pointing out that the control characters can be printed without using the VDI, as suggested in STF 37 in answer to Don Felton's query. Just use #5 as the device number when calling Bconout:

move.w	#10,-(a7)
move.w	#5,-(a7)
move.w	#3,-(a7)
trap	#13
244~ 1	#6 57

Execution time

How long does each machine code instruction take to execute?

Mark Anthony, Notts

stf: With over 90 commands, coupled with the various addressing modes, that adds up to rather more information than we can print here. Various textbooks covering the 68000 processor can provide you with the information you need. Try The 68000: Principles and Programming by Leo J Scanlon (ISBN 0-672-21853-4).

Write boot

I am writing a simple disk formatter that formats to 80, 81, or 82 tracks. However, I do not know how to write a boot sector for these extended formats. Please could you advise me? D Drysdale, Glasgow

stf: Create a boot sector in a memory buffer using the XBIOS #18 Protobt call. The number of sides can be found at an offset of 26 bytes from the start of the buffer, the number of sectors per track at 24 bytes, and the total sectors on the disk at 19 bytes.

Adjust these as appropriate, remember that the total sectors is stored in lowbyte/high-byte order so it needs to be accessed like this:

> lea buffer, a0 move.b 20(a0),d0 1s1 #8,d0 19(a0),d1 move.b add.w d1, d0

Finally use XBIOS #9, Flopwr, to write the buffer to the boot sector.

Game language

Could you tell me which language commercial games are written in because this would help me decide which language to learn. Trev Coope, South Yorkshire

stf: Most games are written in assembly language, but don't let that put you off other languages; you can write good quality programs in BASIC and STOS, and the skills you learn can be put to good use if you move to assembly later.

Line-A

Could you explain the "arrays" used in the Line A routines, for example where the Ptsin actually points to? What precautions should be taken when using these routines?

J A, Oslo, Norway

GFA BASIC

Tony Wagstaff answers your queries about GFA Basic

2 into 3.5 will go

Is there any way of converting GFA Basic 2 .BAS files for use in version 3.5?

James Elstone, West Sussex

stf: Run GFA Basic v2 and load the file. Now use the Save, A option to save it as a .LST file. You can now use the Merge command to load it into v3.5.

Alert buttons

I can use the GFA Basic ALERT

command, but do not know how to obtain more than one button option.

R Fone, Somerset

stf: You can have up to three buttons, simply place a | between the strings for each button, thus:

ALERT 1, "Message", 1, ...
"One | Two | Three", b%

b% contains the number of the button pressed.

Manual over-ride

Please can you tell me where can I get hold of the manual for

GFA Basic? I don't have one and it's making programming difficult. C M Douglas, Roxburghshire

stf: The ST Club (☎ 0602 410241) have a tutorial for GFA Basic. Ask for disks GFA.07 and GFA.08 – they cost £1.45 each.

Structures, and how to use them

Michael Bishop from Queensland, Australia is using the GFA Basic EXEC command to run programs compiled from Modula-2 and C.

However, he wants to access data structures within the pro-

grams after returning to the GFA program.

stf: GFA does not support structures which enable you to "mix" variables, although they told Michael that they may introduce them in the future. You might have more success if you link the Modula-2, or C program, compiled in DRI format, into a PROCEDURE when compiling the GFA shell, then use pointers to access the variables from the different languages. This may make the listing too complicated one of the advantages of using structures.

save your file it is saved in ASCII format and can be loaded into any word processor.

PI or PC?



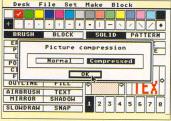
Every time I try to load pictures I have drawn using *Degas* into *Canvas* it won't let me! It gives me a message telling me that low reso-

lution Degas pictures have a PI1 file extender. It doesn't! I use Degas Elite and it saves low

resolution pictures with a PC1 file extension. What can I do?

Arthur O'Connor, Co Cork

stf: Actually, Canvas is correct. Degas low resolution uncompressed files are saved as PI1 files. However, Degas Elite automatically squishes picture files and saves these compressed files with a PC1 file extension. To get around this problem, go to the file menu in Degas Elite and select the Compression option. An alert box opens with the



it! If you
use this
option in
Degas
Elite you
can
save
low res
piccies

4

■ This is

in either PI1 or PC1 format - simply select Normal or Compressed. Easy.

stf: We can't list all the Line A variables here, but disk 1465 (PRO-16) available from 16/32 Systems (35 Northcote Road, Strood, Kent ME2 2DH \$\pi\$ 0634 710788) has information on Line A. To start you off, after the Line A Initialisation:

dc.w \$a000

Intin can be found at 8(a0), and Ptsin at 12(a0). These should then point to your own variables containing the relevant data. So:

dc.w \$a000
move.l #colour,8(a0)
move.l #coords,12(a0)
dc.w \$a001 Line A ...
PutPixel routine
data

colour dc.w 1 coords dc.w 160,100

puts a tiny dot in the middle of your screen.

The problem with the Line A is that Atari have announced that they are not going to be supporting it in future, so if you want your program to work on future machines, don't use it.

Port and mouse

How can I read the mouse coordinates and button state using assembly language, and how do I input and output data via a null-modem through the RS232 port?

Andrew Sage, Devon

stf: The simplest way of accessing the mouse is by way of the Line A. After the initial Line A call:

dc.w \$a000

The word address at -\$25A(a0) contains the x position, -\$258(a0) the y position, and -\$254(a0) the button status, bit nought the left button and bit one the right button. Other ways that are more complex include writing to the Intelligent Keyboard, or IKBD, and using the VDI.

Again there are various ways of handling the RS232 port. The Cauxin call waits for and reads a character into do:

move.w #3,-(a7) trap #1 addq.1 #2,a7

and the Cauxout sends a character

Processor

Please can you tell me what the co-processor on the Mega STE and TT does, and whether it can be installed in an ST?

Stephen Murgan, London

stf: If you mean the maths processor, which we assume you do, quite simply it does all those nasty difficult little sums that can take up so much processor time, thus speeding up the operation of your ST.

Take the bus

How can I send and retrieve data using the VME bus? I want to know because I am making a ultrasound sensor.

David Williams, Wirral

stf: The VMEbus interface is located at memory addresses FE000000 to FEFEFFFF for A24/D16 cards, and FEFF0000 to FEFFFFFF for A16/D16 cards.

More details are contained in the Atari Developer's Kit, available direct from Atari on ≈ 0753

GAMES

Andy Lowe answers your questions...

Beadle's about!

Please could you tell me if there are any cheats for Fire and Ice and The Addams Family? Also is Streetfighter 2 going to be converted onto the ST. If so, when?

Arran Beadle, Essex

stf: Fire and Ice has no cheat mode – Andrew Bray-brook, who programmed it, never puts cheat modes into his games, so don't bother looking. The trainer mode should help you out, however – a bit. As for The Addams

Family, here's a pleasant little snippet courtesy of Jonathon Hatt of Kent. From the continue or quit screen, go left to the continue door and walk past it. There you find four extra lives. This can be done at the end of every game. Pretty darned useful, huh? Oh, and US Gold are in the latter stages of converting Streetfighter 2. It should be here next month.

Half the population

Is there a 0.5MByte version of Populous 2 for the ST? Andrew Axton, Gloucestershire

Epic attack

In Epic, when I attack the mothership with the cobalt weapon, am I supposed to clear the area or get caught in the blastwave. I die if I stick around, but if I go away from the area, the explosion occurs, the screen goes white, but the ship remains intact.

Also, what happened to Dave Whittaker's music? I don't

seem to have any.
Chris Pritchett, Gwynedd

stf: Right, well, there's an ion vent in a tunnel at the top of the mothership which looks rather like a yellow square. Hit this with any weapon and the defence shield is disabled. Then, from a safe distance, blast the mothership with the cobalt weapon and run... If you have a 512K ST, then you have to do without the music. It takes up so much memory that it's only available if you have 1 MByte. Ah well...

choices normal and compressed. Click on normal and then click on OK. When you save a file now it is given a PI1 file extension. Alternatively, there is an option in Canvas to load Degas compressed files – this loads Degas PC1 files.

High density data tip



We have had a tip from a reader in Co Durham who signs himself Fatty with regard to the high density disk drive upgrade tips

we featured over several issues. Fatty points out that the Western Digital Floppy Disk Controller WD1772 marked 00-02 does not work at the 16MHz clock rate – it has to be replaced with a 1772 02-02 chip.

Overscanning



In STF 35 you mentioned the Autoswitch Overscan board for the STFM and Mega ST which can increase the screen resolu-

tion and get rid of the borders.

I have an STE – is there a version of this board that works with my machine?

M Baker, London SE18

Please can you tell me where it is possible to get the Autoswitch Overscan board for my STFM?

Ian Turner, Bedford



stf: There is no version of the Overscan board available for the STE. The STFM/Mega ST version is obtainable from the Atari Workshop on © 0753 832212 for £49.50.

Mac-tastic



Is there an ST program that can manipulate fonts as *Type Styler* does on the Mac? I use a Mac Quadra 700 at work. How close

does Spectre GCR come to emulating the Quadra – could I use the same software?

Mark Lewis, Berks



■ This is not a Mac Quadra emulator no matter what the salesman tells you, but you can still run Mac-tastic programs on your ST with it.

stf: There is no direct equivalent to Type Styler on the ST, although Fontkit Plus is an excellent font manipulation package with a whole suite of programs designed to enable fonts to be created or edited without fuss. Fontkit Plus costs £19.95 from the ST Club – call them on \$\pi\$ 0602 410241 for details of the latest version of the program.

Spectre GCR performs an excellent emulation of the Macintosh 512 and the Mac Plus, both monochrome 68000 based machines. The Quadra range of Macs all use 68030 and 68040 technology and cannot be emulated by the Spectre cartridge. Any Mac software that is labelled for use on the

Mac Plus or above can be used with Spectre. Programs such as Microsoft Word, Greatworks and QuarkXpress all work on an ST using GCR. A minimum of 2MBytes of RAM is recommended when running Spectre GCR – Mac programs are RAM hungry at the extreme! See the review of Spectre GCR in ST FORMAT 39 for more info.

Student grant



I am a graphics student with £250 to £300 to spend on a computer. Which system should I get and what programs? I wish to

create logos, set type in circles and at angles, and manipulate text and shapes.

David Evans, Sheffield

stf: To do all this is going to cost you well over £300! Just for the basic setup you need a 2MByte STE (£299, First Choice), high resolution SM144 monitor (£130, First Choice) and a good DTP program, say Calamus 1.09N (£130, Halco). For serious DTP and design work you need a hard drive (Gasteiner 52MByte, £269) to cope with the large number of files and the volume of data you create. The cost of this system is favourable when compared with other machines such as PCs and Macs. Halco can be contacted on © 0734 441525, Gasteiner on © 081 365 1151 and First Choice on © 0532 637988.

Acchead update



David Griffiths from Wallasy in the Wirral has come up with the cause of the problem he had with the ACCHEAD.S code not

running, as detailed in ST Answers in issue 38. He followed our suggestion to try and use the compiled code without any Accessories or memory resident programs installed and found that the code does work. It turns out that the code was clashing with GDOS 1.1 and works fine without it installed.

Analogic Computers (U.K) Ltd

Unit 6, Ashway Centre, Elm Crescent. Kingston-Upon-Thames, Surrey KT2 6HH Mon-Fri 9am to 7pm Sat 9am to 5.30pm

TEL: 081-546-9575

FAX/TEL: 081-541-4671

THE OFFICIAL ATARI REPAI

• COMPUTERS • PRINTERS • MONITORS REPAIRS WITHOUT DIAGNOSTIC

520/1040 ST/STM/STF/STFM/STE..... Including next day delivery by Courier service.

- Fixed charges
 Very Fast turnaround
- All repairs carry a full 90 Day Guarantee

Printers and MonitorsPlease ring for quotation

Door to Door Courier Service

GUARANTEED

PRICE

We pick up computers for repairs and memory upgrades for Next Day delivery by Courier service for only £5.00 + VAT

MARPET DEVELOPMENTS OFFICIAL XTRA-RAM Deluxe INSTALLERS

EMULATORS and	ACCELERATORS
520 ST/STM/STF/STFM/Mega ST to 4 Meg£119.95	*520 STE to 4 Meg£94.95
520 ST/STM/STF/STFM/Mega ST to 2.5 Meg£79.95	
520 STF/STFM to 1 Meg*£59.95	*520 STE to 1 Mea

PC Speed	£89.95	Vortex 386 SX-16	£349.95
AT Speed 8	£134.95	AD Speed ST	*£144.95
AT Speed C16	£199.95	AD Speed STE	£169.95

STE, MEGA STE, FALCON 030 COMPUTERS

520 STE Start Pack	512k	1Meg	2Meg	4Me
520 STE Discovery Xtra Pack II 1040 STE Family Curriculum Pack II Mega STE		D () . A ·	
Falcon 030		1.		

PROTAR HARD DRIVES (New Protar Series 2)

Profile 40	£289.00
Profile 40 DC	£309.00
Profile 50 DC	£369.00
Profile 80	£429.00
Profile 100 DC	
Profile R44	£579.00

All Protar Hard Drives with Disk Cache have 2 year replacement warranty.

New Protar series 2 accept a second internal drive

• support up to 7 extra SCSI devices • Autobooting

• DMA Throughport • Device Number Switching

• Disk Management Software

MONITORS

Atari SM146 High Resolution Monochrome Monitor	POA
Atari SC1435 Colour Monitor	
Philips CM8833 Mk II	POA
Philips 14" TV /Monitor (*Designer Model) + Remote Control+ Scart Cable.	£255.00
Philips 15" TV/Monitor + Remote Control + Scart Cable (Model 3332)	£239.00
Philips 15" TV/Monitor as above with Teletext (Model 2331)	£269.00

ACCESSORIES and INTERFACES

DISK DRIVES				
Dust Cover£4.95	Torgot ind Glock			
Squik Mouse£14.95	Forget Me Clock	C16 0		
Twin Joystick/Mouse Port Extension Lead£5.95	AD SCSI with clock	£79.9		
Philips CM8833 Dust cover£6.95	AD SCSI	£69.9		
STE/STFM Lead to Philips CM8833 £14.95	10 Blank Disks	£5.9		
STE/STFM Scart Lead£14.95	Mouse Mat	£4.9		

POWER SUPPLIES

PRINTERS				
NEW STFM/STE Power Supplies with ONE YEAR GUARANTEE£44.95		£59.		
STFM/STE Power Supplies (Service Exchange)£34.95		£44.		
	High Density 3.3 lifternal Drive	£04.		

£139.95
£199.95
£204.95
£254.95
£279.95
£129.95

Citizen 124D	£179.95
Citizen Swift 9	£189.95
Citizen Swift 24E (Colour)	£289.95
and the second state of th	

Please ring for Canon, Panasonic and HP range



All prices include VAT and NEXT DAY DELIVERY subject to availability Fixed charge for repair does not include Disk Drive replacement & Keyboard All prices subject to change without notice We reserve the right to refuse any ST Repair



£59.95 includes

3 S 0 _ U > O D 2 0 S 0

O

D

U

V

0

W

A

S

A

W

A

T

W

2 4

E

OR

ERA. 0

W

0 0

Take our sound advice

The perfect magazine about music technology would have...

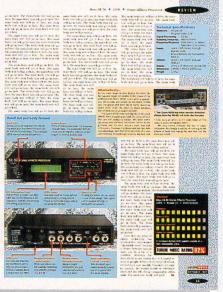
- Authoritative reviews of the latest hardware and software, written by musicians who have used the equipment under the same real-world conditions you'd be facing.
- 2 Expert technical advice and help on any problem to do with creating, recording and performing.
- Informative interviews with performers and sound crew, and profiles of prominent music personalities, giving you the professionals' tips on improving your music.
- Adverts packed with bargains, useful services, new releases and second-hand buys.
- News pages packed with previews, launches, opinions, updates, events and personalities.
- **Easy-to-follow tutorials that show you how to get the most from your equipment and don't just rehash the manual.**
- Comprehensive buyers' guides to all the existing hardware and software, regularly updated.
- Covermounts that are genuinely useful and superb value for money.
- The resources and commitment to quality of Future Publishing behind it.
- An experienced team of journalists and designers, determined to produce a top-quality magazine with no jargon, no technical waffle and no uninteresting pages.
- On Thursday 15 October *Future Music* will make all these things a reality, and much more besides. Don't miss it!



Future Publishing - Your guarantee of value

S WELL AS THE FINE MAGAZINE YOU'RE reading right now, Future Publishing produces more than 20 market-leading magazines, every single one of them with the same commitment to quality. As well as computer magazines like Amiga Format, ST Format and PC Format, Future publish game console magazines like Sega Power and Total! and special interest magazines like Classic CD, Mountain Biking UK, Needlecraft and Photo Plus. Every one of our magazines is a market leader because we put you first and always strive to satisfy your needs. Future Publishing is your guarantee of value.





Reserve your copy of Future Music Give this form to your newsagent Please reserve me a copy of Future Music every month, beginning with the November issue, out on Thursday 15 October.
Name
Address
Postcode
Phone
To the newsagent: Future Music is published by Future Publishing and is available from your local wholesaler (fully SOR).

	-
Special Introductory Subscription Offer	12 ISSUES UK £19.95
As a special offer to founder subscribers, you can get 12 issues of Future Music	Method of payment – please tick appropriate box
for just £19.95 – saving nearly £4 off the news-stand price. This also means you won't pay any extra for higher-priced issues with covermounts. To take advantage	Access Visa Cheque PO
of this exclusive offer, just return this form before Saturday 31 October.	Credit card No
Name	
Address	Expiry date Please tick here if you do not wish to receive direct mail from other companies
	Please make all cheques payable to: Future Publishing Limited.
Postcode	Send this form to:
Telephone	Future Music, Future Publishing, FREEPOST, Somerton, Somerset TA11 7BR.
Signature	This coupon is valid until 31 October 1992. Your subscription will start from the next available issue. FM/AD/1092

Sample the world of music!

GET IN THE KNOW WITH TALESPIN

Microdeal Ltd

If you've enjoyed playing with the Talespin adventure creator on the Cover Disk then the chances are you're going to want to invest in the brilliant manual. For the miserly sum of £9.95 you can get this 144 page epic. It covers all those in-depth features of the program we didn't have room

to discuss on our Cover Disk pages. It's an absolutely essential companion to the program.

PRICE: £9.95

BRING YOUR ADVENTURES TO LIFE

Microdeal Ltd

How do you fancy adding some real spice to your adventure games by including some samples within the game? Buy Microdeal's Master Sound 2 cartridge and you can do just that, sample real sounds then and include them within your adventures. Talk about added realism! In this special ST FORMAT offer you can get Master Sound 2 for the seriously low price of £14.95.

PRICE: £14.95



SPECIAL!

Buy both the Talespin manual and the Master Sound 2 sampler together for just £22.50.

HOW TO ORDER

■ Just fill in the coupon opposite, and send it to Microdeal Ltd. Box 68, St Austell, Cornwall **PL25 4YB**

■ If you wish to order by credit card or have any queries, ring the telesales department on

68020

MICRODEAL mail order

Name **Address Postcode** Telephone **Price** Description **TOTAL ORDER** Method of payment - please tick appropriate box

Access	Visa	American Express
—		

■ Diners Card ■ Cheque PO

> Credit card no **Expiry date**

> > Please tick here if you do not wish to receive

direct mail from other companies

Please make all cheques payable in pounds sterling to: **Microdeal Ltd**

> **SEND THIS FORM TO: Microdeal Ltd,** Box 68, St Austell, Cornwall PL25 4YB.

EIKOSI

DOT MATRIX

LASER

THERMAL

Silica Systems are pleased to recommend Seikosha printers to you at LOW PROMOTIONAL PRICES. The Seikosha range is built to the highest standards, by a company that is used to manufacturing high quality precision products. In fact, you may be wearing one of these products on your wrist, as Seikosha are part of the massive Seiko/Epson group (with a turnover of £6 billion and 18,000 staff!).

When you buy a Seikosha dot matrix printer from Silica, we will give you a Silica PRINTER STARTER KIT (worth £25+VAT = £29.38) FREE OF CHARGE, to make sure you get off to a flying start with your new printer. For further information on the Seikosha range, complete and return the coupon below. Or, if you can't wait to get your hands on a new Seikosha printer, telephone our mail order hotline, 081-309 1111 to place your order now.

Silica now offer a full one year on-site warranty with every Seikosha printer, (except the SLP Plus), included in the pricel In the unlikely event of a problem with your Seikosha printer, an engineer will visit your home or business within 8 working hours of your call (on-site warranty effective for UK mainland locations only).

FREE! FROM SILICA

- **DELIVERY** Next day anywhere in the UK mainland.
- HELPLINE Technical helpline during office hours.
- STARTER KIT With every Seikosha dot matrix printer.



192 CPS 80 COLUMN Seikosha SP-1900 Plus - 9 pin - 80 col

- 192cps Draft, 48cps NLQ 1K Printer Buffer + 2 Fonts
- Parallel Interface
- Graphics Resolutions: 144x72dpi Epson and IBM Emulation
- Auto Sheet Feeder Option FREE Silica Printer Starter Kit

PRINTER RRP... £155.00 £25.00 YEAR ON-SITE

£60.00 TOTAL VALUE: £240.00 SAVING: £131 00

SILICA PRICE: £109.00

+VAT = £128.08 Ref: PRI 8195

9-PIN PRINTER

HTIW WOR SEIKOSHA SP-2400

300 CPS 80 COLUMN

- Seikosha SP-2400 9 pin 80 col 300cps SD, 240cps D, 60cps NLQ 21K Printer Buffer + 5 Fonts
- Parallel and Serial Interfaces

Parallel and Senal Interfaces
Graphics Resolutions: 240x144dpi
Epson and IBM Emulation
Optional Auto Sheet Feeder Unit
FREE Silica Printer Starter Kit
PRINTER RRP. £199.00
1 YEAR ON-SITE £60.00

TOTAL VALUE: £284.00 SAVING: £139.00 SILICA PRICE: £145.00

+VAT = £170.38 Ref: PRI 8204

24-PIN PRINTER



240 CPS 80 COLUMN

- Seikosha SL-92 Plus 24 pin 80 col
 240cps Draft, 80cps LQ
 44K Printer Buffer + 9 Fonts
 Parallel Interface

- Graphics Resolutions: 360x360dpi
- Graphics nesolution
 Epson Emulation
 FREE Silica Printer Starter Kit
 C28

PRINTER RRP..... STARTER KIT..... 1 YEAR ON-SITE

£280.00 £25.00 £60.00 TOTAL VALUE: £365.00 SAVING: £170.00

SILICA PRICE: £195.00

+VAT = £229.13 Ref: PRI 8292

NOTEBOOK PRINTER

LASER PRINTER



- 144 CPS 80 COLUMN

144 CPS
For IBM PC compatibles only
Seikosha LT-20DX - 24 pin - 80 col
180cps SD, 144cps Draft, 60cps LQ
1K Printer Buffer + 9 Fonts
Parallel Interface
Graphics Resolution: 360x180dpi
Epson and IBM Emulation
Built-in 50 Sheet Auto Feeder
FREE Silica Printer Starter Kit
PRINTER RP £299.00
STARTER KIT
174 E25.00
TOTAL VALUE: £384.00
SAVING: £125.00

SILICA PRICE: £259.00

- 8 Pages per minute
- HP LaserJet III™ Compatible
- · PostScript Emulation Option
- Edge Smoothing by EET Technology 8 Scalable +14 Bitmap Fonts, 2 HP-compatible Font
- Cartridge Slots 1Mb RAM expandable to 5Mb
- exible Media Handling up to 550 Sheets in paper cassette
- Compact Design Quiet Operation <47dBA
- £1349 var

LABEL PRINTER

The NEW Seikosha Smart Label Printer Plus range now includes a PC version with Windows' driver, as well as PC DOS only and Apple Macintosh models. All are able to mix fonts on the same label and have many other new features. They will provide letter quality address labels, file labels and bar code labels on demand. The Smart Label Printer sits on the desk, working in the background, while your normal desktop printer gets on with the documents. Using memory resident or DA software, the Smart Label Printer Plus is able to produce a label from the screen text of most popular software packages. The Smart Label Printer Plus is supplied complete with a power cord, a serial cable for connecting to the printer Plus is supplied complete with a power cord, a serial cable for connecting to the produce of the power cord of labels, and continuers, and the printer Plus is supplied complete with a power cord, a serial cable for connecting to the produce of the printer Plus is supplied complete with a power cord, a serial cable for connecting to the produce of the printer Plus is supplied complete with a power cord, a serial cable for connecting to the printer Plus is supplied complete with a power cord, a serial cable for connecting to the printer Plus is supplied complete with a power cord. The printer Plus is supplied to the printer

NEW! 'PLUS' MODELS WINDOWS DRIVER VERSION



STARTER KIT



Every Seikosha dot matrix printer from Silica comes with the Silica Printer Starter Kit, worth £29.38 (£25-vxr) completely FREE OF CHARGE. It includes all you need to get up and running with your new printer.

- 3% Disk with Amiga & ST Printer Drivers
 1.8 Metre Parallel Printer Cable
 200 Sheets of Quality Continuous Paper
 100 Continuous Tractor Feed Address Labels
 5 Continuous Envelopes on Tractor Feed

Printer owners may order the Silica Kit (ref: KIT 5000) for only £24.38 - £5 off RRP! WORTH £29.38

SILICA **SYSTEMS** OFFER

- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.
- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.
 TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.
 PRICE MATCH: We normally match competitors on a "Same product Same price" basis.
 ESTABLISHED 14 YEARS: Proven track record in professional computer sales.
 £12 MILLION TURNOVER (with 60 staff): Solid, reliable and profitable.
 BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.
 SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.
 THE FULL STOCK RANGE: All of your requirements from one supplier.
 FREE CATALOGUES: Will be mailed to you with offers + software and peripheral details.
 PAYMENT: Major credit cards, cash, cheque or monthly terms.

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".





MAIL ORDER:	1-4 The Mews	s, Hatherley Rd, Sidcup, Kent,	DA14 4DX	Tel: 081-309 1111
Order Lines Open:	Mon-Sat 9.00am-6.00pm	No Late Night Opening		Fax No: 081-308 0608
LONDON SHOP:	52 T	ottenham Court Road, London		Tel: 071-580 4000
Opening Hours:	Mon-Sat 9.30am-6.00pm	No Late Night Opening		Fax No: 071-323 4737
LONDON SHOP:	Selfridges (1	st Floor), Oxford Street, London	, W1A 1AB	Tel: 071-629 1234
Opening Hours:	Mon-Fri 9.30am-7.00pm (Sat close 6.30	pm) Late Night: Thursday -		Extension: 3914
SIDCUP SHOP:	1-4 The Mews	, Hatherley Rd, Sidcup, Kent,	DA14 4DX	Tel: 081-302 8811

To: Silica Systems, STFOR-1192-84, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND	A EDEE	RPOCHIL	DE ON	SEIVOS	THA
FEENSE SEND	A INLL	DROCHIC	WE OU	JEINOS	LIA

Mr/Mrs/Miss/Ms: Initials: Surname:	
Company Name (if applicable):	
Address:	
	Postcode:
Tel (Home):	Tel (Work):
Which computer(s), if any, do you own?	

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Visit our Showrooms.

See before you buy.

of Hampshire Established 7 years

Atari Workstation /Expansion System

Monitor stand with shelf for drives etc. Strong metal construction made from 14SWG steel epoxy coated ST colour.

Special price £27.50

New Citizen

Swift 240

24pin Colour*

Advanced 24pin printer, lots of new features. Please phone for a data sheet *optional colour. Price with cable & paper

240 Mono 240C Colour

High quality products. Full technical support.

£259 £279

Citizen 224 24pin Colour*

Enhanced 24pin printer, *optional colour with easy to use control panel 2 year warranty. Price with cable & paper

Mono Colour £199 £209

Swift 24E

Enhanced 24pin. Colour printer with cable & paper Mono

Colour

£229 £239

Citizen 120D+

with cable & paper

£109

All Citizen printers have 2 year warranty

Citizen Swift 9

with cable & paper

Mono £169 Colour £179

Panasonic KXP1123

Probably the best 24pin mono printer available. With cable & paper

£179

Panasonic/Epson

KXP1170 9pin KXP1124i 24pin KXP2180 9pin Colour 189 KXP2123 24pin Colour... 269 Epson LX400 9pin 135 Epson LQ570 24pin Prices include VAT cable & paper

Happy Mouse

for Atari ST & Amiga £14.90

Naksha Mouse

for Atari ST & Amiga £21.50 with house & mat

Squik Mouse for Atari ST & Amiga £13.90

Special Offer

1/2M Simm £12.90

0.5M Simm ram upgrade	12.90
2M Simm ram upgrade	49.00
4M Simm ram upgrade	94.00
0.5M Xtra ram Deluxe	44.00
2M Xtra ram Deluxe	79.00
4M Xtra ram Deluxe	119.00

New Price

Deskjet Colour

300dpi colour inkjet printer. Colour laser quality at 1/10 of the cost. 3 year warranty. Price with cable & paper

£499

Deskjet 500

HP 300dpi Inkjet printer. Laser quality at dot matrix price.

3 year warranty. With cable & paper

£335

Printer Drivers

Citizen Swift Colour 5.00 Various others available please phone for details

Printer Dust Covers

most types in stock from £4.70 inc VAT

Canon BJ-10ex

360dpi Inkjet printer with cable & paper £205

Star SJ-48

360dpi Inkjet printer with cable & paper

New Price

£205

Star LC200 with cable & paper £179

LC20 Mono 9pin	125
LC200 Colour 9pin	179
LC2420 Mono 24pin	189
LC24200 Mono 24pin	209
LC24200 Colour 24pin	259
Prices include VAT cable & p.	aper

True Mouse

for Atari ST & Amiga £15.90

Naksha Scanner

200 to 400dpi. 105mm width with express-IT software

New Price

£99

Hard Disks

Protar Progate

Series II Hard Disks

20DC 20M Hard Disk £215 40DC 40Mb Hard Disk £315 50DC 50Mb Hard Disk £345 105DC 105M Hard Disk £475

Printer Packs

All printers are supplied with a printer pack consisting of printer paper and a connection cable. If required a printer stand is £5.00 extra (with a printer)

Free of charge

Atari STE's

FAMILY CURRICULM PACK

	STORY OF STREET
1040STE 1M ram	£279
1040STE 2M ram	£319
1040STE 4M ram	£379

TenStar Games pack Only with an ST f19

Atari SM124 Hi Res. 12" Mono monitor & cable

£119

Philips CM8833 MK2

UK. 240V Colour Mon

£189 with cable

Commodore 1084SD

Refurbished monitor. CM8833 mk2 clone. 1 year warranty with cable

£159 While stocks last

Special Offers

Hyper Paint	9.90
FirST Basic - HISoft	9.95
Atari Basic Source book & Tut.	4.00
TimeWorks Pub. 2	69.00
NeoDesk 3	28.70
Organiser - Trangle	9.90
Protext V4.3	49.00
Borodino game	4.00
All items subject to availability	/

Power pack software 20 ST games f29

Accessories

Joystick/Mouse twin extens	sion 4.70
4 Player adaptor lead	
Atari ST Printer cable	6.99
Atari ST to ST serial lead	10.95
Atari ST Dust Cover	4.70
Mouse Mat (thick soft type) 4.9!
Mouse House	2.9!

Floppy Drives

Exclusive Scoop

Cumana CAS354

1M external floppy. High quality build. The most reliable drive you can buy. STF rating 90% 84 tracks

£69 While stocks last

Zydec 1M

1M external drive for ST's £52.90

Internal 1M Drive £47.00

Atari STE's

with START PACK software

from £219

520STE 512k ram	£219
520STE 1M ram	£229
520STE 2M ram	£269
520STE 4M ram	£315

Above ST's are supplied with START PACK Software: 1stWord, NEOchrome, Ani ST, + 4 GAMES: Missle Command, Crystal Castles, Battlezone & Super Breakout.

Add £10 to above for DISCOVERY XTRA Software:

1ST Basic, NEOchrome, ST Tour, + 4 GAMES: Sim City, 9 Lives, Final Fight, Robot Monsters

DISKETTES SONY branded

(lifetime warranty) (100% certified error free)

10x	3.5	DS/DD	135tpi	7.50
50x	3.5'	' DS/DD	135tpi	32.30
			135tpi	
				141.00
1kx	3.5'	' DS/DD	135tpi	540.50

DISKETTES SONY / DYSAN bulk

(lifetime warranty)

(100% certified error free) (100% certified error free)

10x 3.5" DS/DD 135tpi 5.95

50x 3.5" DS/DD 135tpi 39.60

250x3.5" DS/DD 135tpi 94.88

1kx 3.5" DS/DD 135tpi 94.88

1kx 3.5" DS/DD 135tpi 95.68

1kx 3.5" DS/DD 135tpi 353.68

1kx 3.5" Disk box with lock ... 5.49

100 x 3.5" Disk box with lock ... 7.50

Carriage on 50+ disks £3.53

Phone for our 60 page catalogue
EDUCATIONAL AND GOVERNMENT ORDERS WELCOME
All products have a 30 day money back & 12 month warranty.
Prices are subject to variation without prior notification. Established 7 years. 3 minutes from M27 Junction 11.
Free parking. Open 9 to 5.30 Monday to Friday & 9 to 5 Saturday Postage 94p or £3.53 Securicor £6.46 (£5.50 + VAT)



Larger items delivered by Securicon



ST/Format Dent 40-42 West Street **Portchester Hants** PO16 9UW Tel: 0705 325354

Best for service

Best for service

Mega meg (a-), very big, 100% Sega Mega Drive, comin' at ya on Thursday 17 September (that's soon). Magazine designed for all serious Sega gamesplayers. aka: the mag with the most, *The* guide to Mega Drive and beyond... Slogan: Got a SNES? That's you stuffed then. Philosophy: to be the best. From the makers of *ST Format* comes the ultimate guide to 16-bit Sega gamesplaying: essential news, in-depth reviews, gamesplaying guides and dirty cheats. Be part of it.



ARCHER MACLEAN

POOLING AROUND

Archer Maclean is, by record rather than age, what you might call a "veteran" of the games industry. In the wake of the phenomenally successful Jimmy White's Whirlwind Snooker, he's about to cross the Atlantic and return to the baize for a pool sim. Andy Lowe shared cheese baps, beer and civilised conversation with him

chievements like Drop Zone and Jimmy White's Whirlwind Snooker have firmly established Archer Maclean's credentials as a programmer who sets himself ridiculous goals and then, to everyone's astonishment, achieves them. Drop Zone, which first appeared on the Atari XL machines in the early 1980s, was one of those "they said it couldn't be done" affairs. But Archer went ahead and did it anyway. Then he had a dream about flying around a snooker table and Snooker was born - an absurdly realistic simulation, cramming all the hushed smoke and sleaze of the Crucible into your ST - with David Vine, fortunately, nowhere to be seen.

And now, Pool. Soon, you will no longer have to slouch down to your

local, chalk up your name, ask someone for some ten pence pieces and argue about the latest rules. In Archer Maclean's Pool you can play three different sets of pool - Eight Ball UK Pool, Eight Ball US Pool and Nine Ball the one with numbered balls. You now also have the choice of four game modes - Trickshot, Practise,

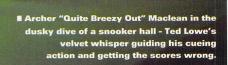
Game and the new

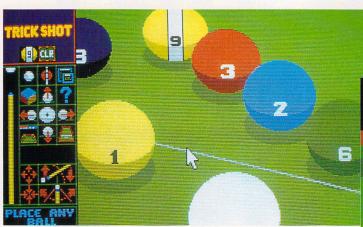
Match mode, with the result based on the best of three, five, seven or nine games. There's also a Tournament Mode – with the option for up to eight players to join in, and, instead of the measly four ST opponents in Snooker, Archer has included 20 different pool players with personalities - Boring Bob takes ages over his shots - and unspecified skill levels which you only determine by playing them.

stf: There aren't really any famous pool players. Did you try to get an endorsement?

Archer: We've had a lot of problems with this. Originally, I came up with a few ideas -Paul Newman's Pool - which would be just too expensive. The only way to get him to do it would be to make an offer to a charity he

supports and even he's not a strong enough worldwide household name. Then we thought about Jimmy White Plays Pool, Two but, ahem, that doesn't really work... In America





■ Archer Maclean's Pool. Setting up in Trick Shot mode. Here's the plan - upon being struck, the particles of the cue-ball accelerate to such a degree that they become catapulted into a parallel dimension and, in a different time zone each time, pot every one of the balls. What d'ya mean, "ambitious"?



Yep, the balls still pull silly faces when you nip off to make the tea - more proof that the idea came in a dream - where else could it have come from?

it's going to be called Pool Sharp, while in Europe it's going to be American Pool. But as for here, they eventually decided to just call it Archer Maclean's Pool – which may sound as though I've got an ego problem but it wasn't my idea – honestly!

stf: Isn't there a danger of public suspicion over product endorsements – over how closely the person is truthfully involved with the project?

Archer: Jimmy White was closely involved. He and I did a lot of PR together – which may sound daft, because he's a snooker player and I'm a computer games writer, but a couple of times this year, we've had magazines wanting a picture of me and him and all the various awards that the game has won – so it was a strange but effective combination. I also did plenty of radio and magazine interviews myself – probably the strangest one was a quarter-page interview in the Financial Times.

stf: You had rather an eventful appearance on Channel 4's *Gamesmaster* last year...

Archer: Jimmy and I were supposed to get there for six in the morning and do three rehearsals prior to doing the proper filming live – and this was my first TV appearance! The point was – I was going to talk about the

game for three or four minutes and then we were going to play off the computer against Jimmy White on the table and, for various reasons, he couldn't turn up on time – which nobody knew about until an hour before going on air. The view was that he'd been on TV before and so it didn't matter because all he would have to do would be to appear and just pot a few balls – no need for very much rehearsal

But around 15 minutes before filming, we realised that he really wasn't going to turn up at all and so I had to play against a member of the audience. Jimmy made up for it by giving us a few days of free publicity which was fair enough, because he does charge a lot per day.

stf: With the experience of *Jimmy White's Snooker*, how did you approach *Archer Maclean's Pool?*

Archer: It has a very similar user interface and there's obviously no point in redesigning the graphics, but the guts of the game are different. The major reason behind it is that a lot of people were saying that they thought the game and the control system were fine, but that they didn't like Snooker and wanted to play Pool instead.

stf: Who are or who were your programming influences?

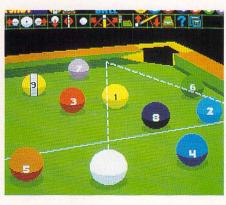
Archer: Eugene Jarvis - who wrote all the original Defender, Robotron, Joust arcade games. He was just way ahead of his time. I have a collection of the original Williams arcade games at home and a lot of my effects like explosions and other touches come out of playing and being inspired by those games. David Braben - for his amazing mathematical ability. Elite 2 is just going to knock everyone sideways. There's also a guy called Chris Crawford, who was an original Atari in-house developer around ten years ago and who was involved with the original design work for the Atari 800. He was doing some pretty amazing stuff at the time and I met him in 1984 and said "I'm going to write something like Defender." He said "No chance!" but, of course, Drop Zone was basically as good as Defender.

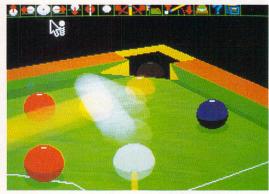
stf: Why snooker and pool? Why not do more shoot-'em-ups?

Archer: I'd love to do a Super Drop Zone. I now have the rights to the original Drop Zone and so... who knows?

At this point, I challenged Archer to a game of pool – real pool on a real table. After an embarrassing period of time with the balls refusing to enter any pockets, one or two began to trickle down. The outcome? He lost. Just. But, he explained, it wasn't his fault – he just had a dodgy cue.

I Now, the plan for this one is a little more realistic. Saunter into the pool hall with a t-shirt reading "The Surreal Hustler." Place all the balls in highly random and ridiculously irrelevant positions on the table, bet someone a million pounds that you can't pot every one in a single stroke. Finally, without taking the shot, sit on the floor beside the table and repeatedly recite page 53 of Moby Dick.





■ The game also contains an amazing slowmotion action replay mode, where you can watch each shot and scrutinise the finer points of the angles, working out where you went wrong. Actually, it doesn't, but it's a good idea. don't you think?

GOT A CAMERA? THEN GET A COPY OF

TESTS

Just how much enlarger do you get for under £500? We name the best bargain buy for colour work

Is it worth splashing out on a course? Two readers share their experiences of some paid-for training

TIPS

Capture the rich colours of Autumn. Make the most of the magic of the mellow season with handy *Photo Workshop* hints

TECHNIQUES

Benefit from the many years of photo experience amassed by Joan Wakelin – this double-FRPS shares her secrets of success.



All this for £1.95

Out on the 23rd of September

Photo Plus: another fine Future Publishing magazine.

2 FREE GIFTS

Gift One:

A book exclusive to Photo Plus that contains the answers to the 101 trickiest Photo problems

Gift Two:

A set of 5 prize-winning full colour postcards

GET THE WIDER PICTURES
Everything you need to
know to get great
panoramas – the subjects,
the equipment and the
special techniques

WIN!

More prizes than you can shake a stick at!

UP FOR GRABS 250 rolls of film 3 State-of-the-art cameras
PLUS A RIDE IN A VINTAGE CAR ON THE LONDON TO BRIGHTON RALLY

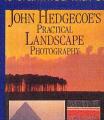
Subscribe - save money AND receive a FREE GIFT

Visa/Access Card No

WORTH £14.99

John Hedgecoe's Practical Landscape Photography

This volume offers over 200 pages of practical advice and is crammed with 350 photos.



9	uhe	crinti	on nr	ico ic	only	C21 A	0 Save	00 00
OI.	uus		IUII DI		UHHW	2.21.4	u Jave	LZ.UU

YES I wish to subscribe to PhotoPlus at the special price of £21.40. Issue 9 is illustrated here; please start my subscription with Photo Plus Issue Number...... (please complete)

Credit Card

Cheque (please make payable to Future Publishing Ltd)

Cheque (please make payable to Future Publishing Ltd)

Name Signature Address

Post Code Tel No

Expires Expires

Please return this card with your cheque to: PhotoPlus Subscriptions, FREEPOST, Somerton, TA11 6TB PP/92/ABC

Cambridge Business Software.

SOFTWARE HARDWARE

TRAINING

Moat House Business Centre • Melbourn Science Park • Melbourn • Royston • Herts SG8 6EJ

ACCOUNTS

Home Accounts 2	£44.90
Small Business Accounts Cash	
Small Business Accounts Extra	£99.00
Cashbook Combo Pack	£59.95
System 3 (Inv/Stock)	£39.95

DATABASES

NEW ComBase	PHON
Data Manager Professional	
Super Base Professional (v3.02)	
Digita DGBase	
Prodata	

DESKTOP PUBLISHING

Control of the Contro	
Calamus v1.09n	£139.00
Calamus SL	£585.00
Pagestream v2.2	
Timeworks DTP v2	
EZ Text	£22.00

SPREADSHEETS

LDW Power v2	£99.0
K-Spread 3	
K-Spread 4	
Digicalc	
Logistix v1.2	

COMPUTER AIDED DESIGN

Technobox Drafter v2	NOW £175.00
NEW Platon (PC Board Design) .	
Megapaint II v4	
Megapaint II Professional v4	£199.00
GFA Draft Plus v3.13	
CAD 3D v2 (Cyber Studio)	£39.95
Cyber Control	£32.95
Cyber Paint v2	£39.95
Fasy Draw 2	£39 95
Supercharged Easy Draw 2	£59.95
Supercharged Easy Draw 2 Hyperdraw	£29.95
Degas Elite	£19.95
COMPUTEDO AND	DOLLITEDE

COMPUTERS AND PRINTERS

Alari 520STE Slart	£249.00
HAlari 1Mb STE	£259.00
Atari 2Mb STE	£289.00
Atari 4Mb STE	£365.00
Mega STEs	From £399.00
STACEY 4Mb/40HD	£795.00
Ricoh I P1200 Laser Printer	£795.00
Mega STEs STACEY 4Mb/40HD Ricoh LP1200 Laser Printer Philips CM8833 Mkll Monitor	£229.00

COMPO

COIVII C	A STREET, STRE		
Composcript	£225.00		
C-Font			
AT Speed C-16MHz			
AT Speed 8 MHz			

WE DESPATCH ANYWHERE WORLDWIDE WEEKLY

IMMEDIATE DESPATCH (subject to availability) ORDERS WELCOME FROM EDUCATION, GOVT. & BFPO All prices include VAT & delivery . NO surcharges on European orders Make cheques payable to Cambridge Business Software 24-HOUR ORDER LINE 0763 263127



MUSIC

WORD DOOR	CECCODE
Quartet	£39.95
Stereo Replay	£75.00
Concerto	£34.95
NEW Replay 16	299.95
C-LAB Unitor II	
C-LAB Notator Alpha v1.1	
C-LAB Creator v3.1	
C-LAB Notator v3.1	

> WOND I NOT	LUUCIU
Calligrapher Professional Calligrapher Gold	NOW £89.95
Calligrapher Gold	NOW £119.00
GST First Word Plus v3	£57.95
- Imeworks Wordwriter	£39.95
Protext v5.5 That's Write Wordperfect v4.1	£109.00
That's Write	£85.00
Wordperfect v4.1	£179.95
0	
Protor	
E Cond Hard Drives Cost	Less from CRS!

orutar

Good Hard Drives Cost Less from CBS!

Progate II 40 Mb		W	£295.00	
Progate II 50 Mb	DC	W	£375.00	
Progate II 80 Mb		OW	£429.00	
Progate II R44	No	W	£575.00	
Progate II 100 M	h DC M	WO	£495 00	

FXTRAS

LATINA	A SECTION AND ASSESSMENT
NVDI	239.95
SLM804 Toner Cartridge	£37.95
SLM605 Toner Cartridge	£32.95
SLM 804 Drum	
SLM605 Drum	
Neodesk v3	
Harlekin 2	£49.95

LANGUAGES & COMPILERS

MIGHT ANTIHIGHIS O AS """"	103.0
Mark Williams C Source Debug	£42.0
Prospero C	
Prospero Fortran	£79.9
Prospero Pascal	
Prospero Toolkit	£55.9
Hisoft Lattice C v5	£109.0
Hisoff High Speed Pascal v1.51	£/9.9
Hisoft C. Interpreter	£49.9
Hisoft Devpac v2.25	£37.9
Hisoft C. Interpreter Hisoft Devpac v2.25 Hisoft Devpac v3	PHON
Hisoft Devpac TT	£119.0
Hisoft Basic 2	£65.0
Hisoft Basic 2 Hisoft Nevada Cobol (With CP/M)	£45.0
FTL Modula 2	£59.9
FTL Modula 2 Developer	£75.0
□ GFA Basic Interpreter v3	£45.0
GFA Basic Compiler v3	£24.9
➤ MPE Forth 83 (GEM)	£44.0
7	

MEGA STES IN STOCK

TELEX 817932 CAMTEC-G

24-HOUR ORDER LINE 0763 263127

LOWEST

100

CRAZY CHRISTMAS OFFERS FROM BCS

ATARI DUSTCOVER €3.00

* OFFER 1 *

Philips CM8833 Mk II + on-site maintenance +Lotus Turbo Challenge II + lead + tailored dust cover £195

DISKS DISKS DISKS

100% certified error free

100 3.5" DS/DD£52.99 200 3.5" DS/DD£69.99 400 3.5" DS/DD£69.99 500 3.5" DS/DD£138.99 500 3.5" DS/DD£138.99

1000 + Call for spot prices

3.5" DS/DD£22.99 3.5" DS/DD£37.99

★ OFFER 2 ★

Atari 1MB STE Art Pack + Family Curriculum Software +10 3.5" DS/DD disks + disk box + mouse mat + Microswitch joystick + tailored dust cover 6295

New 100 capacity 3.5" lockable

boxes & disks

No quibble lifetime guarantee 3.5" DS/DD + 100 cap lockable box...£25.99

100 3.5" DS/DD + 100 cap lockable box...£40.99 150 3.5" DS/DD + 100 cap lockable box...£56.99 200 3.5" DS/DD + 2 100 cap lockable boxes ..£74.99 400 3.5" DS/DD + 4100 cap lockable boxes .£147.99

500 3.5" DS/DD + 5 100 cap lockable boxes .£177.99

All prices include VAT & free

delivery & free labels

Please call for latest prices

★ OFFER 3 ★

Atari 1040STE Family Curriculum Pack + 10 3.5" DS/DD disks + disk box + mouse mat + Microswitch joystick + tailored dust cover €295

DISKS + STACKABLE BANX BOXES

50	3.5"	DS/DD	+ 80 Cap Banx Box£31.99
100	3.5"	DS/DD	+ 80 Cap Banx Box£46.99
150	3.5"	DS/DD	+ 2 x 80 Cap Banx Box£70.99
200	3.5"	DS/DD	+ 2 x 80 Cap Banx Box£87.99
300	3.5"	DS/DD	+ 4 x 80 Cap Banx Box£139.99
400	3.5"	DS/DD	+ 5 x 80 Cap Banx Box£182.99
500	3.5"	DS/DD	+ 6 x 80 Cap Banx Box£216.99

Prices include VAT/Lahels/Delivery

5.25"	DS/DD	Disks	 .21p	each
5.25"	DS/HD	Disks	 .39p	each

* OFFER 4 *

Atari 1040STE Music Master + 10 3.5" DS/DD disks + disk box + mouse mat + Microswitch joystick + tailored dust cover

£295 (Limited stock)

3.5" DS/DD Disks 60p each

100 3.5" DS/HD ..£61.00 INC. P&P

Second	60 Cap 3.5" Stackable Box£10.00 80 Cap 3.5" Banx Box£9.95
	80 Cap 3.5" Banx Box£9.95
	150 Cap 3.5" Posso Box£15.50

3.5"	10 Cap boxes£1.00 each
3.5"	40 Cap boxes£4.10 each
3.5"	100 Cap boxes£4.50 each
5.25"	50 Cap boxes£5.10 each
5.25"	100 Cap boxes£5.90 each

Prices include VAT & free delivery & free labels Please call for latest prices

Atari dust cover	£3.00
Star LC-200 cover	
Star LC-24 200 cover	
Philips CM8833 MkI/II cover	
Citizen Swift 9 cover	
Citizen Swift 24 cover	£3.50

DUST COVERS

ACCESSORIES

710000	
1000 Labels£8.00	Jetfighter Joystick£12.50
Atari Cumana Drive£72.00	Printer Lead£8.00
1000 Tractor Labels£10.00	Topstar Joystick£21.00
Atari Naksha Mouse£22.50	Zipstick£11.00
Mouse Mat£2.50	Cheetah 125+£7.50
Quickshot Python 1£9.50	Competition
31/2" Cleaning Kit£2.75	Pro Joystick£15.00

NEW FROM ATARI

ğ	Falcon£449
	Falcon 4Mb RAM 65Mb HD£799
77	LIMITED STOCK AVAILABLE
з	

LOW DRICES ON DRINTERS

FOM PRICES ON PRI	MIEKS
Citizen 120D+ 9 pin mono	£129
NEW Star LC100 colour	
NEW Star LC 24/100 Mono + Softw	vare£189
Citizen Swift 9 pin colour	£189
Star LC - 200 9 pin colour	£199
NEW Citizen 200 Mono	£209
Citizen 24 pin 224 colour	£224
Citizen Swift 24E colour	£249
NEW Citizen 240 Mono	£249
Star LC - 24 200 colour	£259
NEW Citizen 240 Colour	£270
All printers include lead and t	tailored

dust cover.

ORDER MOTI INF

	ADER H	OILIN	
0273 50	6269 /	0831	279084

All prices include VAT. Add £4 delivery unless stated. Add £10 next day. Cheques will be held for clearance.

Call or send cheques / postal orders to:

BCS Ltd., 349 Ditchling Road, Brighton,

East Sussex BN1 6JJ All offers subject to availability. E&OE



Due to shortages of 3½" DSDD disks, prices may change without notice



JUST ADD £2.00 TO YOUR TOTAL ORDER FOR A GUARANTEED **NEXT DAY DELIVERY TO YOUR DOOR**

(*ORDERS MUST BE PLACED BEFORE 3.30pm excluding Weekends)



Mail Order Con on Earth COMPUTER MATES (UK) LTD. (STF 11) PINEWOOD STUDIÓS, IVER HEATH BUCKS, SLO ONH TEL: 0753 553535 (3 Lines) FAX: 0753 553530

ALL PRICES INCLUDE



MITSUBISHI BRANDED DISKS

5.25 (360K) 5.25 (1.6 MEG) 3.5 1 MEG 3.5 2MEG (1.44) 7.00 7.00 12.00

LOOK GREAT DEALS ON MITSUBISHI 3.5°

5 BOXES ME2DD (50 DISKS) **ONLY 26.00** 10 BOXES ME2DD (100 DISKS) ONLY 50.00 (50 DISKS) 5 BOXES ME2HD **ONLY 45.00** 10 BOXES MF2HD (100 DISKS) **ONLY 88.00**

+ 20% OFF ALL STORAGE BOXES WITH ABOVE DEALS

BRANDED DISKS "PROMOTION WHERE IT COUNTS IN YOUR POCKET'

NEW JUST APPOINTED DEALER



GOLD MASTER BRANDED 2 FOR 1 LIFE TIME WARRANTY

4975	1 MEG MF2DD	1 MEG MF2DD RAINBOW	2 MEG MF2HD	2 MEG MF2HD RAINBOW
1 BOX	6.50	7.50	13.00	14.00
2-5 BOXES	6.00	7.00	12.50	13.50
6-10 BOXES	5.50	6.75	12.00	13.00
Rainbow Co	olours — V	Vhite, Red, Gr	reen, Oran	ge Yellow

3.5" MITSUBISHI BULK MEDIA LIFE TIME WARRANTY

	DSDD	DSHD
50 DISKS	£21.00	£32.50
100 DISKS	£40.00	£63.50
200 DISKS	£75.00	£125.50
500 DISKS	£175.00	£295.50
1000 DISKS	£329.00	£580.50
Includes Labels N	IOTF: The above	disks are

based on > 55% clipping level, cheaper disks are available. Please Call.

5.25" BULK DISKS Packed in 25's with Envelopes, **Labels, Lifetime Warranty**

48tpi 96tpi 25 Disks £8.50 £875 £1200 50 Disks £16.00 £16.25 £23.00 100 Disks £28.00 £27.25 £36.00 1000+ PLEASE CALL

QUICKSHOT JOYSTICKS

MULTI-SYSTEM			IBM PC/XT/AT		
QS11A	TURBO2	£9.00	QS123	WARRIOR5	£11.00
QS149	INTRUDER1	£25.00	QS120	GAMES CARD	£10.50
QS128F	MAVERICK1	£14.00	QS146	INTRUDER5	£25.00
QS155	AVIATOR1	£27.50	QS151	AVIATOR5	£28.00
QS131	APACHE1	£7.00	SEGA N	IEGA DRIVE	
QS130F	PYTHON1	£9.50	QS135	PYTHON3	£9.50
QS127	STARFIGHTE	R	QS150	INTRUDER3	£25.00
	PAIR REMOT	E	QS140	CHIMERA3	£9.00
	CONTROL	£36.50	★ UP1	O £3.00 OFF AE	BOVE *
NINTENDO JOYSTICKS WITH ANOTHER			OTHER		
QS130N	PYTHON2	£9.50	★ PURC	CHASE ABOVE	£15.00 ★

COMPUTER MATES BRANDED DISKS

2 FOR 1 LIFE WARRANTY

3.5" **DISKS**

	DSDD	DSHD
50 Disks	£23.00	£35.00
100 Disk	£45.00	£69.00
200 Disks	£85.00	£137.00
500 Disks	£200.00	£325.00

COLOURED DSDD DSHD £27.00 £38.00 £50.00 £75.00

£90.00 £143.00 £210.00 £331.00

MICE/TRACKERBALLS

PC/XT/MOUSE	£20.00
PS2 MOUSE	£21.00
AMIGA/COMMODORE	£19.00
ATARI MOUSE	£19.00
ATARI MOUSEATARI/AMIGA TRACKBALL	£22.00
PC/XT/AT TRACKBALL	£22.00
MOUSE MAT	£2.50
MOUSE POCKET	£2.50
MOUSE STAGE	£10.00
MOUSE MAT HARD	
PAPER TRIMMER	£5.00

STODACE DOVES

Á	STORAGE BUXES				
	3.5" DISK	5.25"	STACKABLE	BOXES	
	CAPACITY	CAPACITY	DISK NAME	CAPACITY	
	140£11.50	140£9.00	3.5" BANX	80£12.99	
	120£ 9.50	120 £8.50	DUAL BANX5	130/180 .£14.99	
	100£ 7.90	100£7.50	3.5" BIMBY	200£18.99	
	80£ 7.50	50 £6.50	5.25" BIMBY5	200£18.99	
	50 £6.50	"BIMBY BOXES	CAN ALSO HOL	D	
	40£6.00	3", 2.8", VIDEO	TAPES, CARTRII	DGES"	
	ALL	ABOVE BOXES	LOCKABE + 2 KI	EYS	
	£2.00 OFF BOXE	ES WHEN ORDER	ING 100 BULK D	ISKS OR MORE	
	3.5" OR 5.25"				
	10 CAP . £1.50	5 CAP £1.15	1 CAP £0.50		

CARDBOARD DISK MAILERS£150/1000 OR £25/100

SPECIAL OFFERS THIS MONTH

LOOK SAVE YOUR EYES

12" or 14" COLOUR OR MONO FILTER SCREEN SAVE YOUR EYESONLY £13.99 12" or 14" TILT & TURN WITH HANDY KNOB MONITOR STAND£15.95 A4 DESK TOP COPY HOLDER£8.00

PRINTER STANDS 5 DIFFERENT TYPES

PRINTER STAND (Feet) 80 OR 132 COLUMN . £8.00 IBM PRINTER LEADS£5.00JOYSTICKS ALL MACHINES P/C

LABELS 5.25" or 3.5" (5.25 with W/P)£1.00 1000..... Single or Multicolour Available

	PAPER TRIMMER
ALCO AL	COMPUTER DESK £90.00

PX XI, AT+MONITOR
12" or 14" MONITOR
80 or 132 PRINTER
LAZER PRINTER
84 OR 102 KEYBOARD
TOWER CPU

PLEASE CALL PX XT, AT+MONITOR 9600 26.00

DUST COVERS

MINI HEA MON ALL 3" C **DATA SWITCH BOXES**

4 WAY

CENTRONICS OR SERIAL

2 WAY.....

I VACUUM CLEANER	£7.00
AD CLEANER 3.5" OR 5.25"	
NITOR CLEANING SOLUTION	
THE ABOVE AND MORE	£11.00
LEANING KIT	£3.00

COPY HOLDERS

A4 DESK TOP Angle Poise	£15.99
A4 ANGLE POISE G-Clamp	£15.99
A4 DESK TOP	
PAPER CLIP Monitor Side	£9.00
PAPER CLIP Monitor Top	£5.00

KEYBOARD DRAWER + MONITOR, & CPU STAND£26.99

80 COLUMN MAGNIFYING RULER ... £3.00

PRINTER MULTI-FORM FEEDER £16.00

DATA SWITCH LEADS..... £8.00 each **LOOK VIDEO TAPES E180**

LIFE TIME WARRANTY 3 HOURS — 10 FOR £20, 50 FOR £90

£20.00

FOR COLLECTIONS VISIT OUR NEW SHOP AT 675 HOLLOWAY RD., LONDON N19 OPEN 7 DAYS 12-9 PM RETAIL PACKED BLUE BOXED DISKS

SORRY! SORRY! SORRY!

WE DO NOT PRICE MATCH BUT WE DO GIVE QUANTITY DISCOUNT, WITH SERVICE, QUALITY AND BACKING FROM THE LARGEST DISK MANUFACTURERS IN THE WORLD. IN ADDITION OVER 200 LINES OF PERIPHERALS IN STOCK. ASK FOR OUR **COLOUR CATALOGUE & PRICE LIST WITH** YOUR ORDER OR SEND 24p S.A.E.

L SAM OR PAT NOW

DC300A	£17.05	DC6320	£24.00
DC300XL	£17.50	DC6525	£28.00
DC300XLP	£15.50	DC1000 10MB	£16.50
DC300EXL	£18.70	DC1000 20MB	£16.50
DC600A	£15.50	DC2000	£13.50
DC6150	£17.50	DC2080	£16.50
DC6250	£24.00	DC2120	£16.50

QTY DISCOUNTS: PLEASE CALL

ALL BLUE BOX DISKS ARE COMPLETELY PACKAGED IN BLUE PRINTED CARDBOARD BOXES WITH LABELS

100% GUARANTEED FOR LIFE.			
3.5" 720K-880K	3.5" 1.44 MEG	5.25" DISKS	
MF-2DD 10'S 1 MEG	MF-2HD 10'S 2 MEG	M-2D 48TPI 360K	
1 BOX£5.00	1 BOX £8.50	1 BOX (10) £4.00	
MF-2DD 30'S 1 MEG	MF-2HD 30'S 2 MEG	M-2DD 96TPI 720K	
1 BOX (30) 14.00	1 BOX (30) £21.50	1 BOX (10) £4.75	
BAMBI-2DD 1 MEG	BAMBI-2HD 2 MEG	M-2HD 1.6 MEG H/D	
25 DISKS IN 25	25 DISKS IN 25	1 BOX (10) £5.00	
CAPACITY STORAGE	CAPACITY STORAGE	10% DISCOUNT	
BOX	BOX	GIVEN ON 10 BOXES	
1 BOX14.00	1 BOX £21.00	OR MORE	

ALL ORDERS ARE NORMALLY DELIVERED TO YOU WITHIN 48 HOURS

Afe you Britain's lest games beat games beat games beat games beat games alayer

BEAT THE
REST AND WIN
THOUSANDS OF
THOUSANDS

(There's £10,000 in it for you if you are...)

Yes, £10,000! That's the prize for the winner of the National Computer Games Championships, and entry is absolutely free. All you have to do is turn up to one of the Virgin Games Centres where heats are being held and show us what you're made of!

To start with you have a choice of playing on the Mega Drive, Super NES or Amiga, but if you get through the first stage then you'll have to really show off your skills by playing several games on different machines.

If you get top marks in the special gamers' challenge you could make it to the finals at the Future Entertainment Show in November and face a play-off on the video wall with the TV cameras watching! And the winner will walk off with £10,000 in cash.

If you think you're up to the challenge, look up your nearest entry point below, and see if you are as good as you think you are...

THE PRIZES!

The winners of each heat will go forward to a regional final the same week. The winner of each regional final will get an **Amiga**, a **Mega Drive** and a **Super NES**, plus copies of the games which will be used in the finals so they can get ready in style. In the grand final itself, the runner up will get £4,000 while the winner will go home an incredible £10,000 richer!

HOW TO ENTER

Just turn up, ready to give of your best, at one of these heats being held all over the country: 12th, 13th, 14th, 15th October

Glasgow Union Street Megastore Falkirk Games Centre East Kilbride Games Centre

19th, 20th, 21st, 22nd October

Stockport Game Centre
Manchester Megastore



26th, 27th, 28th, 29th October

Bromley Game Centre
Croydon Game Centre
Guildford Game Centre
Ilford Game Centre
Kingston Game Centre
London Game Centre,
100 Oxford Street
Birmingham Megastore
Bristol Game Centre
Cardiff Megastore
Newcastle Megastore
Gateshead Game Centre

There you'll have to try out a special timed challenge on Zool, Robocop 3 or Aquatics. Regional finals will be held on the Friday of each week in a local Megastore, and the winners of the regional finals will go to the grand final in Earls Court on November 7th and 8th.

THE NATIONAL COMPUTER GAMES CHAMPIONSHIPS



sponsored by Amiga Format and Virgin Retail in association with Bad Influence!

Virgin





OK, here's the deal.

The Future Entertainment Show is the biggest computer games event ever seen in the UK. We've got all the leading names showing off big time – Sega, Commodore, Nintendo, Philips, Gremlin, Ocean, Acclaim, Electronic Arts, Psygnosis, Domark, Microprose and scores of others. Oh, and there's a video wall the size of a house and competitions and huge arcades and serious bargains and TV

film crews and – but, hey, let's not worry about *detail*.

All you have to do is be there.

Then we'll blow your mind.

Helluva deal...

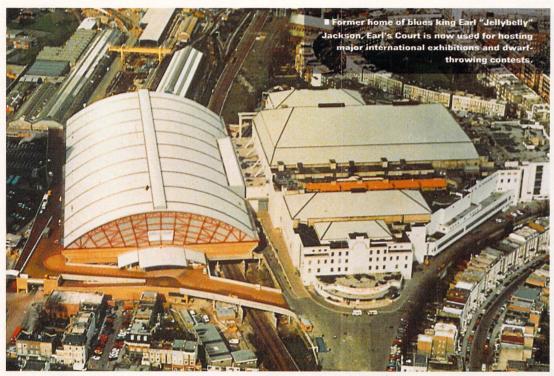


Earls Court November 5-8 1992

Phone **051-356 5085** to guarantee your ticket (£5.95 for adults & £3.95 for under 14s in advance, or £7 & £5 on the day

It's easier to travel by train. If you live in the Network SouthEast area, travel by train and avoid traffic jams and parking problems, jump huge queue and save on admission (Adults £5.95, Under 14's £3.95), when you buy the all in One Day Travelcard/Admission ticket. From any staffed Network SouthEast

ST FORMAT GOES PUBLIC



Chaos will reign on the streets of London this autumn as the city braces itself for Britain's biggest computer leisure show

as your ST gone on the fritz? Is your waggling arm in plaster? Have you just beaten *Llamatron* and need to tell someone about it? Well, now's your chance – the brains behind *ST FORMAT*, Britain's biggest-selling ST mag, will lend a listening ear at the Future Entertainment Show, starting Thursday 5 November 1992. So if you've got something you want to get off your chest, or if you just can't find the off-switch on your ST, meet us at the Future Publishing stand. Other highlights include the finals of

the National Computer Games Championships, masses of cheap games for sale, giant video walls you can gawp at, arcades full of the hottest shoot-'em-ups and virtual reality games. Then you can go and choose from the latest ST gear to add to your Christmas list – and, if you're lucky, there's even a chance to get your lovely mug on TV.

The Future Entertainment Show is taking place between Thursday 5 and Sunday 8 November 1992 at London's prestigious Earl's Court. Over

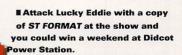
60 hardware and software companies are going to be exhibiting their products including Ocean, Electronic Arts, Domark, Gremlin Graphics, Microprose and Virgin Retail.

With more than 100,000 visitors expected to attend over the four days, the exhibition will be Britain's biggest computer show in at least five years.

How to get your ticket

Doors are open each day from 9.30am-5pm (4pm Sunday). Tickets are on sale now, priced at £7 for adults and £5 for the under 14s. By booking early you can save £1.05 on every ticket – simply call the credit card hotline on \$\mathbb{x}\$ +051 356 5085 or send payment to the Future Entertainment Show, PO Box 2, Ellesmere Port, South Wirral L65 3EA. Cheques/PO should be made payable to the Future Entertainment Show. See you there! **stf**

■ Quarter finalists in the National Computer Games Championships battle it out for the £20,000 prize money in the virtual reality boxing sim.







COMPUTER SUPPLIES

Suppliers of Discount Software since

Educational, Local Authority and government orders welcome. Overseas orders please call or write for quotations. All goods subject to availability, prices subject to change without notice. E & O E.

Prices include VAT and delivery by post. Courier delivery from £3, please ask for details. Please allow 5 days for cheque clearance

TO ORDER: Please call the telephone number listed below to place credit card orders (Access/Visa) or send cheques/POs made out to MJC Supplies to:

> **MJC SUPPLIES (SF)** Unit 2 The Arches, Icknield Way, Letchworth, Herts, SG6 1UJ. Tel: (0462) 481166 (6 lines)

HISOFT PRODUCTS

HISOFT BASIC VERSION 2

Hisoft Basic 2 comes complete with a Compiler and a Debugger. The package is a complete development system which is ideal for both professional and casual programmers.

RRP £79.95 OUR PRICE £54.95

HIGHSPEED PASCAL

HighSpeed Pascal is designed to be compatible with the hugely successful Turbo Pascal on the PC. It features a fast single pass compiler, compilation speed of more than 20,000 lines per minute. Compile to memory or disk and an integrated multi window editor.

RRP £99.95 OUR PRICE £69.95

NEW-HISOFT DEVPAC 3

Hisoft Devoac 3 is the latest version of the popular ssembler & debugger package for the ST. Packed full of features it is the ideal programming environ-ment for beginners and professional programmers alike. It contains an editor, assembler and a debug-

PLEASE CALL

HISOFT C INTERPRETER

Hisoft C lets you develop, debug and test programs quickly and easily in a simple environment. Hisoft C features over 460 library functions, fast and powerful Gem based editor and built-in help for quick and easy reference.

RRP £59.95 OUR PRICE £39.95

HISOFT LATTICE C V5.5

Lattice C V5.5 is a versatile and powerful development system for the popular C programming language, adhering extremely closely to the ANSI standard. It contains the most complete set of C libraries to be found on the Atari 68000 computers, Gem based installation program, multi window editor, project manager and lots more. (Requires 1 Meg)

RRP £149 95 OUR PRICE £99 95

SOUND SAMPLERS

STEREO MASTER

Stereo Master is a low cost, high quality sound sampler for the ST. Its features include: Sample rates from 3.0 to 27.9 Ktz, mix sample with full or half volume, hif stereo playback option using the Playback cartridge, full STE stereo support.

RRP £39.95 OUR PRICE £29.95

REPLAY 8

Replay 8 features powerful sampling and playback commands such as Sample, Pre-Sample, Auto Record Trigger and more, as well as the usual editing commands Replay 8 also contains some Special cts software and a 2 voice programmable Drum

RRP £59.95 OUR PRICE £44.95

REPLAY 16

The first 16 bit sound sampler for the Atari ST. Contains an Editor, Midiplay Sequencer and Drumbeat 16 Samples at rates up to 46 Khz.

RRP £129.95 OUR PRICE £95.00

STEREO REPLAY

This system can record in high quality stereo from its twin phono input sockets, taking sounds from any suitable Stereo equipment such as a Portable Cassette or CD player. Editor features include Mark, Hide, Cut, Loop, Paste, Insert, Delete, Fill, Clear, Overlay, Reverse, Fade and many

RRP £89.95 OUR PRICE £64.95

REPLAY **PROFESSIONAL**

Replay professional is probably the most complete Sound System for the Atari ST. It comes complete with Editing software as well as the Drumbeat Professional 4 chan-nel Drum Machine and Midiplay which turns your ST into a powerful sound sampling synthesizer. It can sample at rates between 5 and 48 Khz

RRP £99.95 OUR PRICE £79.95

NAKSHA MECHANICAL MOUSE

Our most popular mouse. Includes Operation Stealth, Mat and Holder £21.95

SQUIK **MECHANICAL MOUSE**

A great value replacement mouse

MJC PRICE £12.95

EDUCATIONAL SOFTWARE

LEARN TO READ WITH PROF.

Prisma Sonware's complete read	ing
course for 4 to 9 year olds.	
1. Prof Plays a New Game	£19.95
2. Prof Looks at Words	
3. Prof Makes Sentences	£19.95
4. Prof Hunts for Words	
ALSO AVAILABLE FROM PRISMA	
Pepe's Garden (3 to 7)	£19.95

FUN SCHOOL

The all time best selling educational software from Database Educational. A number of programs per package covering a range of subjects.

FUN SCHOOL 2

8 PROGRAMS PER PA	CKAGE
For 2 to 6 years	£12.95
For 6 to 8 years	£12.95
For the over 8's	£12.95
EIIN SCHOOL	2

C DDCCDAMO DED DACKAGE

O PRUGRAINS PER PAUN	AUE
For 2 to 5 years	£15.95
For 5 to 7 years	£15.95
For the over 7's	

FUN SCHOOL 4

The latest in this excellent	series
For 2 to 5 years	£16.95
For 5 to 7 years	£16.95
For the over 7's	£16.95

KOSMOS EDUCATIONAL SOFTWARE

Answerback Junior Quiz (6-11)	£14.95
Factfile Arithmetic (6-11)	£7.95
Factfile Spelling (6-11)	£7.95
Factfiles are data for Answei	
anh.	

KOSMOS LANGUAGE TUTORS

I he ideal aid to learning vocabulary	
French Mistress	£14.95
German Master	£14.95
Spanish Tutor	£14.95
Italian Tutor	£14.95

LEARN TO READ WITH ADI

ADI is a friendly alien which appears on this latest range of educational software from Europress (the manufacturers of Fun School). Each package is designed to fol-low the National Curriculum for a particular school year.

ENGLISH 11/12 OUR PRICE £17.95

Features pronouns, verbs, adverbs, spelling, synonyms, prefixes/suffixes.

ENGLISH 12/13 OUR PRICE £17.95

Using dictionaries and reference books construct adverbs, punctuate sentences.

MATHS 11/12 OUR PRICE £17.95

Covers geometry, algebra, statistics, symme try, quadrilaterals and number operations.

MATHS 12/13 OUR PRICE £17.95

Covers fractions, transformations, proportions, mental calculations.

LCL SOFTWARE

Each package is designed as a complete course, including a 100 page plus paperback book, with 24 programs.

Primary Mat	hs Course	(3 to 11)	£19.95
Micro Maths	(12/adult t	O GCSE	£19.95
)£19.95
MICIO I ICIICI	1 (12/auuit	to GOSL)L13.3

NEW MULTI-PACKS FROM B.WARE

We are now able to offer a number of edu-cational & database programs by B. Ware in various Multi-Packs at very reasonable prices

PLEASE CALL FOR DETAILS

SOFT STUFF

Magic Storybook	.£23.95
Let's Spell at Home	£14.95
Let's Spell at the Shops	£14.95
Hooray for Henrietta	
Henrietta's Book of Spells	

GRAPHICS &

	Timeworks DTP 2 & First Word Plus.	£99.95
	Easy Draw 2	£36.95
	Supercharged Easy Draw 2	£59.95
	Deluxe Paint ST	
	Canvas	£10.95
	Spectrum 512	£22.95
	Cyber Studio (1Mb reg'd)	£39.95
	Cyber Paint	£39.95
ı		

PROGRAMMING

HiSoft Basic 2 - New release	.£54.95
Tempus 2 - Programmers Editor	
Hisoft C Interpreter	
Lattice C version 5	
Nevada Cobol (CPM inc. emulator)	
Hisoft High Speed Pascal V1.5	
Hisoft WERCS Plus (inc GDOS)	.£33.95

STOS THE CREATOR

STOS - The Creator	£19.95
STOS - Compiler	£13.95
STOS - 3-D NOW AVAILABLE	£22.95
STOS - CREATOR AND COMPILER.	£29.95
The Game Makers Manual (book)	£11.95

DATABASES/FINANCIAL

L		
	Prodata version 1.2	£64.95
	Data Manager Professional	
١	Super Card 2, by B. Ware	£24.95
	Mini Office Spreadsheet	
	Personal Finance Manager Plus	
	Home Accounts 2	

WORDPROCESSING

Protext 4.3 special offer just	+ 00.05
Word Flair (1Mb)	£57 QF
Word Writer	£36.95
First Word Plus (V3.1)	£39.95

MISCELLANEOUS

Concerto	£29.95
Quartet V1.5 4 voice music synth	.£36.95
Mini Office Communications	.£15.95
Harlekin 2	£39.95
Hisoft Knife ST	.£19.95
Hisoft Diamond Back II	.£31.95
Flexidump (for 9 pin mono)	.£17.95
Flexidump Plus (all dot matrix)	.£31.95
Forget-Me-Clock 2	.£17.95

NEW - ROBOSHIFT

Auto Sensing joystick mouse switch box

MJC PRICE £13.95

ZYDEC 3.5" SECOND DISK DRIVE

Quality external, double sided disk drive, including PSU and cable £52.95

SPECIAL OFFER

TIMEWORKS DESKTOP PUBLISHER 1

With Zydec Second disk drive us First Word Plus (no mail mer SPECIAL OFFER PRICE £99.95

VIDI-ST

Vidi-ST + Vidi-Chrome	£84.95
Rombo RGB Splitter	
Vidi-ST Complete Colour Solution.	

COURIER DELIVERY SERVICE

Available on all orders, Prices start from £3.00 - Please ask for details

PREMIER MAIL ORDER

Please send cheque/PO/Access/Visa No. and expiry date to:

Dept STF4, Trybridge Ltd., 8 Buckwins Sq., Burnt Mills, Basildon, Essex SS13 1BJ

Please state make and model of computer when ordering. P&P inc. on UK orders over £5.00. Less than £5.00 and Europe add £1.00 per item. Elsewhere please add £2.00 per item for Airmail. Telephone orders: Mon-Fri

9am-7pm. Saturday 10am-4pm. Tel orders: 0268 590766 Fax orders: 0268 590076.

lifles marked * are not yet available and will be sent on day of release.			
2 Hot 2 Handle	Football Crazy	Man Utd Europe	Silly Putty * Sim City + Po
Addams Family16.99	Formula One Grand Prix22.99	Mega Traveller 1 (1 Meg)19.99	Sim Earth *

2 Hot 2 Handle		Football Crazy10.99	Man Uta Europe10.99	SIIIY PUTTY "10.99
4 Wheel Drive		Football Director 216.99	Megasports *	Sim City + Populous19.99
Addams Family		Formula One Grand Prix22.99	Mega Traveller 1 (1 Meg)19.99	Sim Earth *19.99
Airbus	22.99	Fun School 4 (all ages)16.99	Mega Traveller 2 (1 Meg)19.99	Simpsons16.99
Alien 3 *		Games 92-Espana *16.99	Mega Twins	Sleepwalker *16.99
Another World		Gauntlet 3	Microprose Golf22.99	Space 1889 (1 Meg)19.99
Assault on Alcatraz *	16.99	G Loc *16.99	Midwinter 222.99	Special Forces22.99
B17 Flying Fortress *	22.99	Ghouls and Ghosts6.99	Moonstone *19.99	Strikefleet
Birds of Prey *		Gobliiins *	Nigel Mansell World Champ * 16.99	Striker *16.99
Blue Max		Godfather Action19.99	Ninja Collection13.99	Super Sega19.99
Blues Brothers	16.99	Gods	Outrun Europa	Supremacy19.99
Bonanza Bros		Graham Gooch *19.99	Pang *	Suspicious Cargo19.99
California Games *	16.99	Guý Spy *	Paperboy 2 *16.99	Switchblade 216.99
Campaign *		Harlequin16.99	Plan 9 From Outer Space*19.99	Team Yankee19.99
Capcom Collection	19.99	Heimdall (1 Meg)19.99	Player Manager12.99	Team Yankee 219.99
Carl Lewis Challenge *	16.99	Heroquest	Populous	Teenage Mutant Turtles 216.99
Castles *	19.99	Hook16.99	Populous 2 (1/2 Meg)19.99	Terminator *18.99
Chaos Engine *		Indy Jones Atlantis-Action *19.99	Populous 2 (1Meg)19.99	Terminator 216.99
Chuck Rock 2 *	16.99	Int. Sports Challenge19.99	Powerdrome8.99	Their Finest Hour19.99
Commando War *	16.99	Ishar *19.99	Powermonger19.99	The Manager *19.99
Cool Croc Twins *	16.99	Jaguar XJ220 (1 Meg) *16.99	Powermonger Data Disk 19.99	Thunderhawk19.99
Crazy Cars 3 *		Jimmy White's Snooker19.99	Prince of Persia6.99	Titus The Fox *16.99
Cruise For A Corpse		John Barnes (1 meg)16.99	Railroad Tycoon (1 Meg)22.99	TNT 219.99
Curse of Enchanta (1 Meg) *		Knightmare19.99	Rainbow Collection13.99	Troddlers *16.99
Deluxe Paint	39.99	Knights of the Sky (1 meg)22.99	Ramparts *16.99	Turbo Challenge8.99
Demonsgate *		K.O 2 - Final Whistle8.99	R.B.I. 2 Baseball19.99	Turbo Challenge 2
Dizzy Collection		K.O 2 - Giants of Europe *	Reach for the Skies *19.99	Turbo Challenge 3 *16.99
Double Dragon 3		K.O 2 - Return to Europe	Red Baron *22.99	Turrican 29.99
Dune *	19.99	K.O 2 - Super League *9.99	Robin Hood16.99	Ultima 619.99
Elf		K.O 2 - Winning Tactics5.99	Robocod	UMS 2 (1 Meg)19.99
Euro Football Champ *		Last Ninja 2	Robocop 216.99	Utopia + Data Disk19.99
Eye of the Storm *	19.99	Legend	Robocop 316.99	Winning Team19.99
F15 Strike Eagle 2	22.99	Lemmings	Rodland16.99	Wizzball
F16 Combat Pilot	8.99	Lemmings Construction Kit *16.99	Rotator *	Wolfchild16.99
Final Fight		Lemminas Data Disk13.99	R-Type 216.99	Wonderland (1 Meg)19.99
Fire and Ice *		Lethal Weapon 3 *	Secret of Monkey Island (1 Meg)16.99	World Class Rugby
First Samurai + Mega Lo Mania	19.99	Lethal Weapon 3 *	Secret of Monkey Island (1 Meg)16.99 Sensible Soccer *	World Wrestling Fed16.99
Flag *	19.99	M1 Tank Platoon	Shadow Lands	Xenomorph 2 *16.99
Flight of the Intruder		Magic Pockets16.99	Shuttle *	Zool Station *

PREMIUM BULK 3.5" DS/DD DISKS

2510.995020.50

100 **36.99** 250 **84.99**

250 *84.99* 500 *164.99*

ALL DISKS ARE FULLY GUARANTEED AND ARE COMPLETE WITH LABELS

3.5" SUPERIOR LOCKABLE DISK BOXES

100 Capacity 4.49 120 Capacity 6.49

3.5" Premium disks with our boxes /

100 Cap. box + 50 3.5" DS/DD 24.49 120 Cap. box + 100 3.5" DS/DD 42.99 90 Cap. Bank box + 50 3.5" DS/DD 29.49

3.5" BANK BOX - 90 CAPACITY

A SUPERB PRODUCT WHICH IS BOTH LOCKABLE AND STACKABLE

ONE 9.95 TWO 18.95 THREE 26.95



SNAP COMPUTER SUPPLIES LTD

HOTLINE

457111

RIBBONS - POST FREE

Full Mark Brand	2 off	4 off
	PRICE	EACH
Citizen 120D/124D Swift 24	2.75	2.55
Citizen Swift 24 Colour (original)	15.0	00
Panasonic KXP 1080/1123/1124	3.25	3.05
Star LC10/LC20	2.60	2.40
Star LC10-4 Colour	5.90	5.70
Star LC24-10	2.95	2.75
Star LC24-10 Colour (original)	12.	50
Star LC200	3.00	2.80
Star LC200 Colour (original)	11.	50
StarLC24-200	2.95	2.75
Star LC24-200 Colour (original)) 12.	50
Ribbon re-ink	12.	95

ACCESSORIES - POST FREE

Mouse Mat	2.99
Mouse Holder	2.99
2 Piece Universal Printer Stand	6.99
3.5 Disk Clean Kit	2.99
Roll 1000 3.5 Disk Labels	8.99
Printer Cable (1.5 metre)	3.99
Atari ST dust cover	3.50
Phillips monitor cover	3.99
Star LC10, Star LC20 covers	
Star LC24-10, Star LC24-200 covers	3.99

All products are subject to availability - All prices include VAT. Please add £3.50 p+p for disks and boxes. E&OE.

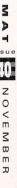




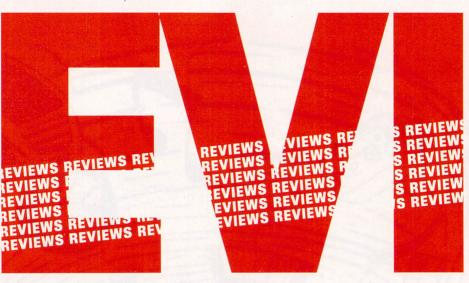
16 99



ST FORMAT ON SALE
THURSDAY 12 NOVEMBER 1992







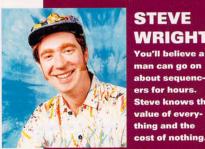


ON THE SERIOUS SIDE



CLIVE PARKER

Once ostracised by Ealing Council for insulting tuna in public, Clive is now calmer having joined his local meditation centre.



STEVE WRIGHT

man can go on about sequencers for hours. Steve knows the value of everything and the cost of nothing.



TIM TUCKER

Tim's been lost recently. He thought he left himself by the station on Tuesday, but there's still no sign of



PETER CRUSH

Peter Crush's photograph has been omitted because he's just so damned handsome it makes you sick.

SOFTWARE

Feeling Partner

A sequencer for you if you're a beginner at making music with your ST.

Page 86

Genedit

This patch editor enables you to create, edit and save sounds.

Page 88

Multiprint

Enables you to print multiple copies of DTP documents swiftly, cheaply and without ever having the trouble of trying to find a working photocopier again.

Page 92

Silhouette

Converts bitmap and raster images into outline format images.

Page 95

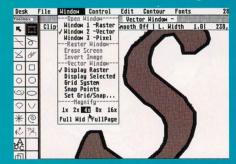
Touch-Up v1.8

Find out if you should you upgrade your copy of the scanning and drawing package Touch-Up.

Page 92

User's Guide to 1st Word

Get the most out of this simple but fetching word processor.



HARDWARE

Best 2400 Smart One Modem

Get into the world of comms with this modem.

Page 99



Naksha hand scanner

A scanner and software for stunning graphic manipulation.

Page 97

Protector +2 alarm

Keep your ST setup safe from burglars.

Page 99

T Boards 64 and 68

Upgrade your ST or STE to TOS 2.06 and get a NeoDesk-style Desktop and be TOS bug-free.

Page 97

J

3

D

40

NOVEM

ST FORMA

GOLD



ON THE OTHER SIDE



ANDY LOWE

Gets through joysticks like we get through biros. Andy's ambition is "not to get a mortgage and live inside a video-game instead, like on Tron.." At this rate, he may get his wish yet.



ROB MEAD

Rob recently had a religious vision of profound significance. He proclaimed himself to be the "messiah of styrofoam" and that followers should eat nothing but jam. He's alright now, though.



HUTCH

Recently gave up **Ornithology and** Origami for the ancient art of magazine Editing. Andy explained, "I was fed up with hobbies beginning with 'O'. I thought it was time for an "E," instead."



JON PILLAR

Jon's favourite TV programme is "This Morning", he's 24, single and he's Jon Pillar - budget reviewer extraordinaire! Jon says he's "never looked back". Upon what, we're not sure.

GORE BLIMEY

Accolade's Elvira 2 wins our award for Game of the

Month, er. this month. **Splattered** with gore and brimming over with sex-



ual innuendo, it's a graphic and very violent game which inspired plenty of sick-bag passing in the STF office. Turn to the full review on page 102.

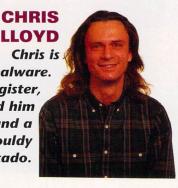
UNBOX, SPIN, PLAY

Basketball (Lynx)	127
Batman Returns (Lynx)	127
Captain Dynamo	118
Carl Lewis	108
Casino (Lynx)	127
Castles	110
Crystal Mines 2 (Lynx)	126
Elvira 2	102
Falcon 1.2	118
G-Loc	115
Hockey (Lynx)	126
International 3D Tennis	119
Kwik Snax	118
Narco Police	119
Ork	112
Plan 9	105
Rampart (Lynx)	126
Shadow of the	
Beast (Lynx)	127
The Games	106
Toki (Lynx)	126

■ We review all ST games released, but only if they are finished - that is, those you could actually buy in the shops, never ncomplete or demo versions

PUBLIC DOMAIN

LLOYD Chris is Surrealware. To register, send him £5 and a mouldy avocado.



WHAT'S

"A good session of pointing and thrusting, that's what you need m'lad," said Uncle Janice with a slightly glazed look. Luckily Billy had a copy of Grav 2. Turn to page 121 for further details.



■ This is not really just about grey blocks, no, there are spaceships in it, too.

ER

EEELING PARTNER

Want to get into MIDI music but don't know where to start? There's a program from France that could be just what you're looking for. Tim Tucker checks it out

MACHINE: 1MBYTE STs AND STEs, RESOLUTION: MEDIUM AND HIGH

PRICE: £149

FROM: MUSIC PRO IMPORT (UK)

CONTACT: 081 789 8641

■ eeling Partner is not some French marital aid, but a MIDI sequencing program for your ST. However, with so much quality music software available, does this program have anything new to offer?

Most sequencer programs require some musical knowledge and more than a passing familiarity with MIDI. For the beginner they're about as easy to get into as Michelle Pfeiffer's catsuit. Feeling Partner is aimed at the first time user - you can manipulate pre-defined tracks in real-time and it enables you to add your own musical pieces when you're ready.

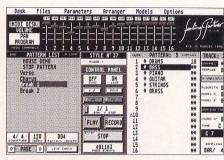
To use Feeling Partner you need a MIDI keyboard, preferably multi-timbral. The program uses six pre-defined instruments for its

pre-set tracks - drums, bass, guitar, piano, strings and brass. If you've got the Roland MT32, SC-55, GS or Korg M1 you're ready to go as the package comes bundled with configuration files for these synths. If not, you've a bit of setting up to do, but the manual explains it clearly and you're soon ready to make some

Let's go, partner

Feeling Partner is a pattern-based sequencer. A pattern is a block of music consisting of 16 tracks with a length of between one and 999 bars. For each pattern you stipulate a time signature, length (in bars) and tempo. You can also record up to 99 different patterns, enough for even the lengthiest remix.

With the pre-set tracks you can assign one of 74 styles to your music, ranging from jazz to house. Then you can add variations and fills by using algorithms and models - see panel below - before using the built-in harmony device to



■ If you want to adapt your music you don't have to move from the attractive main screen almost everything can be done from here.

stipulate chord changes in real-time. If you allocate your track driver to an empty track and then play chords into it from your keyboard. the pre-defined tracks change chord with you and there's no snotty guitarist to tell you it doesn't work. The program recognises major, minor, 7th, diminished, sustained 4 and even flat 5 chords if you want to get a bit jazzy.

Feeling Partner tells you which chords you're playing as you play them or - if you've never played chords on a keyboard before - it enables you to define a chord type. So to get a D minor 7th, you just specify the chord type and then press the note D on your keyboard.

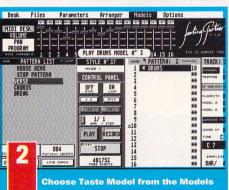
Doing your own thing

As flexible as the pre-set tracks are, eventually you're going to want to start creating your own music. To record on any of the 16 tracks, the mute or the solo tracks, simply click on the appropriate track number with the mouse. Tracks can be copied, merged and deleted.

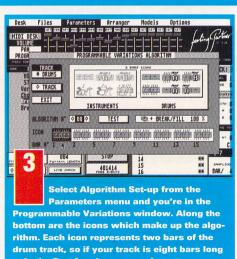
If you want to make fine adjustments to the music you've recorded, you can edit it with the track editor. The track comes up as a list of MIDI events - called event list editing - and, although it has the advantage of complete accuracy, it's not the easiest way to see what you've got. Unfortunately, Feeling Partner lacks a graphic editor which is far easier for a beginner to use. One of the niftiest features is the

LGORITHM





menu and the program plays the various models in its library. A model is a one bar break or fill for adding to the basic groove. You can choose two models - A and B - in the Algorithm window on the right of the screen.



JARGON BUSTERS

ALGORITHM: a series of instructions or commands which helps you to achieve an end result

CHANNEL: MIDI sends information out on 16 channels. Each musical part has its own MIDI channel

You can set one synth up with a bass sound and program it to receive on MIDI channel two, and another synth a piano sound and set that to receive on MIDI channel three.

MIDI: MIDI stands for Musical Instrument Digital Interface. It enables synthesizers and computers to communicate with each other by connecting them together with MIDI leads.

MIDI mixing board at the top of the main screen. You move the faders with the mouse to control volume, pan and program change on any channel. You can even record the movements to a track for automated mixing.

When you've recorded all the patterns you want, you're ready to chain them together into some sort of song. The Pattern List doubles

MULTI-TIMBRAL: multi-timbral synths can play more than one type of sound at a time. You might, for instance, have drums, bass and piano all coming from the same instru-

PANORAMIC: Panoramic determines where the sounds come from in a stereo system left, right or somewhere in between. Make sure you don't confuse it with Panorama which is a current affairs programme on

PROGRAM CHANGE: this is a type of MIDI message which changes the sound on your synthesizer.

The program change number determines which sound it changes to.

as the Arrange Song Window - here you can specify in which order you want the patterns to play and the number of times you want each pattern to loop.

Good feelings

With so many excellent low-cost sequencers available for your ST, Feeling Partner seems

REAL-TIME: real-time is not the opposite of pretend time. It's the ability to make alterations to your music while it's playing and so hear the results immediately.

One of Feeling Partner's great strengths is that it enables you to do almost everything you need to your music in real-time from the same screen. This can save you a lot of time and frustration while you're

TRACKS: Tracks are not to be confused with MIDI channels - you can record a bass part on track one of the sequencer and send it to your synth on MIDI channel two, or you can put more than one MIDI channel's worth of information onto one sequencer track - this frees up space on other tracks.

expensive but it's the only one to offer such a range of features in a single package. The amount of musical and MIDI knowledge you need to get started is minimal and, with the chord analysis feature, you can learn what you actually need to know as you make music.

Heavenly Music, the program's manufacturers, are producing extra disks containing 74 styles and models per disk. There are five disks available at a cost of £25 each, with more on the way.

Feeling Partner has a lot in common with C-Lab's Notator - which is one of the leading music industry sequencers - so if you're thinking of going further down the MIDI path, Feeling Partner can give you a good basis to work from. The friendliness and flexibility of the package justifies the cost and, if you want to start making MIDI music on your ST, Feeling Partner could well be your best bet. stf

BY TIM TUCKER

= (0-(0))\\/\

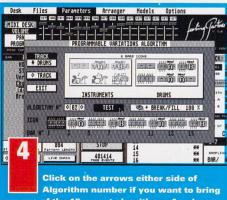
QUENCER ONE PLUS:

Features good graphic editing and has twice as many tracks as Feeling Partner. However, it doesn't have a dedicated arranging mode and is not as quick to get around. It costs £129.95 2515.

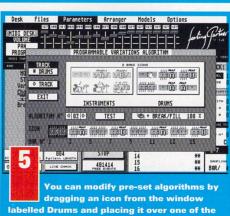
This has a score-writing facility and built-in synthesizer editor. However, it is perhaps a little too complex if you're a newcomer to MIDI sequencing. It costs £39.95 and is available from Microdeal on ☎ 0726 68020

BAND IN A BOX PROFESSIONAL:

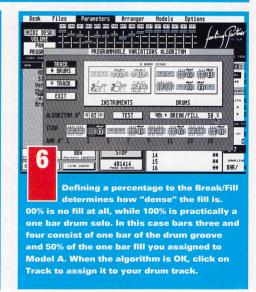
Excellent auto-accompaniment software but it doesn't have as many sequencing features as Feeling Partner. It costs £69 and is available from Zone Distribution on ≈ 071 738 5444.



up one of the 15 preset algorithms. An algorithm consists of different combinations of icons representing the basic groove, models A and B - chosen earlier - or bars of complete silence. Click on Test to hear how the algorithm sounds



existing icons in the algorithm.



GENIEDIO Why buy a

separate patch editor for each instrument in your setup when one piece of software enables your ST to create, edit and save sounds for all of them? **Steve Wright** checks out Genedit 2 - a program which aims to do all of those things

MACHINE: ALL STs

1MBYTE RECOMMENDED

PRICE: £199.75

FROM: ATLANTIC AUDIO
CONTACT: 071 272 8944 EXT 248

bbreviate the words "generic editor" and you get the name of *Genedit* – a patch editor which can work with any MIDI equipment that is able to send and receive System Exclusive MIDI data. The package includes a boxed ring-bound manual with two disks. The program uses "key disk" copy protection – you can make backups, but you must place the original program disk in drive A for verification before you can run the program.

When you've loaded *Genedit 2*, you have to configure the program for your particular MIDI setup. You do this by loading the necessary configuration and template files – these are the files which enable *Genedit 2* to talk to your gear. Because there are so many configurations and templates, they are excluded from the main package but you can get them separately

for £23.50 per set. There are over 16 sets and each one provides the files you need for communicating with instruments by one manufacturer – apart from one set called Miscellaneous. The example disk contains a small selection of configuration and template files for the eager.

Let's look through the left window

The main screen carries two windows, imaginatively named the Left Window and the Right Window. In the centre of the screen near the top there's a small group of three icons: a disk, a MIDI lead and a clipboard. These are used for moving patches around. To take a simple example - if you want to get sounds out of your synth and save them to disk, all you need to do is to drag the MIDI lead icon to the disk icon. The program then asks you which instrument you want to get sounds from and that does the job. Moving saved sounds from disk into your instrument is the reverse procedure drag the disk icon to the MIDI lead icon. To listen to a patch, you can just drag the patch name from its window to the MIDI lead icon, or

■ Genedit 2's main screen. The Left Window contains some patches for the Ensoniq SQ-80, the first 11 of which are exactly as they were when loaded. The rest of the patches in this window have been automatically created using the Randomize feature. The Right Window is almost the same, but this time the first 11 patches have been automatically Distorted - indicated by the "%" character at the end of each patch name.

THE PROBLEMS WITH SYNTHS

Most synthesizers enable you to create and edit your own sounds. By adjusting the knobs and sliders while peering at a tiny LCD screen, you can, with practise, create useable sounds that weren't on the machine when you bought it. The sounds can usually be stored in the instrument's memory and sometimes saved onto plug-in RAM cards for future use. Editing sounds using the synth itself has its obvious drawbacks - the limited size of the LCD means that it can only show a very small amount of information at one go, making the process very fiddly. Worse still, many synths have parameters which are unable to be accessed at all except via MIDI.

This is where your ST comes into its own. With appropriate software, your ST can always improve on this because every sound parameter on a synth can be controlled by means of MIDI System Exclusive (or Sysex – pronounced "sissex") information. Instead of the LCD screen with two or three lines of alphanumeric characters, you can enjoy the full benefits of mouse and monitor – as well as the benefits of cheap disks for

storing sounds instead expensive RAM cards.

The rules governing which Sysex codes correspond to which synth functions are left up to the individual instrument manufacturers. Unfortunately, this means that there is no way of using a single set of rules that work with every piece of MIDI gear - you used to have to buy a separate patch editor for each instrument - the more instruments you had, the more bits of software you had to buy, and the more difficult it became to have them all loaded at once into your sequencer. These days

a single piece of software can do the job of many. A universal (or generic) patch editor is designed so that it can be told the Sysex codes for any instrument, and can be configured for any particular MIDI setup. This is done via a single shell program which can control several "sub-programs." In Genedit 2 these sub-programs are of two types - Configurations and Templates. Each Configuration talks the language of one particular MIDI device while the corresponding Template program provides you with a suitable user interface.

THOSE TECHNICAL TERMS

Unfortunately it's impossible to avoid jargon with some software, and to make it worse, there's no agreement between software developers about which jargon to use. Universal/generic patch/voice editor/librarians are a case in point! Here's a quick rundown of Genedit jargon

CONFIGURATION: A Configuration is a translator – it contains instructions that tell *Genedit* how to communicate with a specific instrument. Each Configuration File supplied on disk contains Configurations for instruments by one manufacturer. You can, however, select and mix Configurations to create a custom Configuration File to suit your own setup. You can then tell *Genedit* to load your custom Configuration File automatically every time you run the program. Once you've done this, you can forget about it – until you buy some more gear.

CNX: Genedit 2 can already talk to most popular MIDI instruments, but what if you've got some really weird old thing? CNX is the answer – it's a builtin programming language that enables you to create your own Configurations. Useful, but not for the faint-hearted.

DEVICE LIST: See Studio Setup.

TEMPLATE: A Template defines the layout of the editing screen. It provides the entire layout of buttons, knobs, sliders and envelope displays corresponding to the editable parameters of the instrument. Generally, there's a separate Template for each instrument, though a Template may contain more than one editing screen for the same instrument. It is possible to edit Templates or create new ones.

STUDIO SETUP: A Studio Setup is the information that you give to Genedit 2 to tell it about your MIDI setup. It consists of global MIDI options plus a Device List. The Device list tells the program exactly where to find particular instruments, so that if you're using a MIDI patchbay - a kind of MIDI telephone exchange -Genedit can automatically dial the right number to connect your ST directly to any particular MIDI device (in both directions). This means no more tiresome plugging and un-plugging of MIDI leads, leaving you with more time to concentrate on your music.. The Device list appears on the main screen between the two windows.

you can just point at the patch and click with the right button while holding down the left one. You can, of course, move sounds into memory for editing. You can treat the two windows as independent sections of memory, and you can drag any of the other icons to any window. Patches may be moved from one window to the other, either one at a time or in larger groups - great for creating your own libraries of sounds. You can sort patches alphabetically, although there's no way of permanently classifying them by type except by grouping them together and saving them as separate files. Sounds for different instruments may be saved together by grouping them into "multi-block files" - this is useful when you want all the sounds used by all the instruments on one particular song to be stored together.

Randomly distorted averages

Automated editing is one of *Genedit 2's* most exciting features. There are three types – Dis-

torting, Randomizing and Averaging. Distorting creates a random variation on a patch or group of patches by making slight changes to all the parameters of the patch. Randomizing is more drastic – it totally randomizes all the parameters. Averaging is clever – it takes two or more patches and creates a new patch that's somewhere in between. You can control this to an extent. By modifying a Template, it is possible to "immunize" selected parameters from the ravages of automated editing.

There is a recognisable style through all the templates – they all use a combination of the same graphic, mouse-operated controls – knobs, sliders, graphic envelope displays and buttons. Some Templates use more than one screen – the maximum is eight.

Is it any good, then?

Genedit 2 is going to attract the attention of the professionals – it has more features than previ-

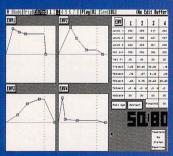
ous versions and is available at a lower price. On the plus side, *Genedit 2* is intuitive to use – the simplicity and ease with which you can move banks and patches around the system is impressive to say the least.

Generic editing is almost by nature a complex task, but, in the case of this package, the job is made easy by good program design. True, there are one or two features that would be desirable – the ability to sort sounds by type could have been handy, and perhaps some kind of search facility for large banks.

Unfortunately, there is a problem with running *Genedit* under Steinberg's *Switcher* though this is soon to be fixed, but there aren't any difficulties with C-Lab's *Softlink*. Still, these factors aren't important to everyone – but the ease-of-use is. **stf**

BY STEVE WRIGHT

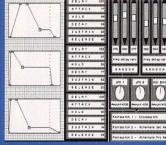
ROUND THE TEMPLATES



■ The Ensoniq SQ-80 Template. The controls that you see here are the same ones that you'd find on any Template, but here they are arranged to specifically correspond to the SQ-80's editable parameters.



■ A Template can take more than one screen. This is page one from the Emu Proteus 2 Template, showing Primary and Secondary Instruments.



■ Page two from the same Template has the Proteus 2 envelopes. Click and drag the small boxes in the diagrams to change the sound shapes, or change the numbers in the boxes on the right.



■ Page three - the Proteus 2 MIDI controller assignments.



CHEETAH JoySticks from the CharacteriStick range



TERMINATOR"2 JUDGMENT DAY

TM & © 1992 CAROLCO All Rights Reserved. Unauthorised Duplication is Strictly Prohibited.

the most innovative

joystick company in the world



Versions compatible with

- Nintendo NES (£14.99)
- Sega Master System (£12.99)
- Sega Mega Drive (£14.99)
 Sinclair Spectrum +2/+3 computers
- Commodore computers and video game systems (£12.99)
- Atari computers and video game systems (£12.99)
- Amstrad computers (£12.99)
 Older computers may require
- interfaces and/or adaptors not included.

CHEETAH INTERNATIONAL LTD Cheetah House, Bedwas Business Park, Bedwas, Gwent NPI 8DU Tel: 0222-867777 Fax: 0222-865575

Features include

TM & © 1992 DC Comics Inc. All Rights Reserved.

- Officially licensed products
- Highly sensitive light touch fire buttons
- Full 8 directional control
- On-table or in-hand operation
 Heavy duty base with strong stabilising
- suction cups
- +2/+3 selector connector
- I2 month warrantyPrices include VAT, postage and packaging
- Dealer enquiries welcome
- Cheetah products available from









Tandy High Street stores and all good computer shops, or direct from Cheetah

ALWAYS A GOOD IDEA

Silica presents some great offers on the award winning range of high quality matrix printers from Citizen. Each Citizen printer is built in the UK to exacting standards, ensuring superb reliability and output. Our confidence in Citizen's quality is such that we are pleased to include a 2 year guarantee with every printer. Plus, if you buy a Citizen dot matrix printer from us, we will give you the Silica Printer Starter Kit (worth £29.38), FREE OF CHARGE!

FREE DELIVERY

Worth £29.38 - With every Citizen dot matrix impact printer from Silica.

2 YEAR WARRANTY Silica offer a 2 year warranty (including the dot matrix printer head) with every Citizen printer.

WINDOWS 3.0

Free Windows 3.0 driver. Included with the Silica Starter Kit.

FREE COLOUR KIT With every Prodot 9, Swift 9 and 224

FREE HELPLINE

Technical support helpline open during office hours

MADE IN THE UK Citizen printers are manufactured to high standards

INK JET AND NOTEBOOK

LOW PRICE 9 PIN PRINTER



144 CPS

80 COLUMN

Citizen 120D+ - 9 pin - 80 column 144cps Draft, 30cps NLQ 4K Printer Buffer + 2 Fonts Parallel or Serial Interface

- Graphics Resolution: 240 x 240dpi Epson and IBM Emulation
- Pull tractor & bottom feed FREE Silica Printer Starter Kit

+VAT= £135.13 ref: PRI 2120

SILICA STARTER KIT.£25 TOTAL VALUE: £224 SAVING: £109

SILICA PRICE: £115

The Citizen 120D printer comes supplied with a parallel interface as standard. If you require a serial interface instead, please state ref: PRI 2125 when placing your order with Silica.

9 PIN **PRINTERS**



300 CPS 80 COLUMN

- Citizen Prodot 9 9 pin 80 colu
 300cps Draft, 60cps NLQ
 8K Printer Buffer + 3 Fonts
 Parallel Interface
 Graphics Resolution: 240 x 240dpi
 Epson and IBM Emulation
 EPSEE Columbia Graphics - Idea
 Epson and IBM Emulation
 FREE Colour Kit
 FREE Silica Printer Starter Kit

SILICA PRICE: £179



192 CPS 80 COLUMN Citizen Swift 9-9 pin-80 column 192cps Draft, 48cps NLO 8K Printer Buffer + 3 Fonts Parallel Interface Graphics Resolution: 240 x 240dpi Epson and IBM Emulation FREE Colour Kit FREE Silica Printer Starter Kit

SAVING: £113 SILICA PRICE: £189



192 CPS 136 COLUMN

- Citizen Swift 9x 9 pin 136 192cps Draft, 48cps NLQ 8K Printer Buffer + 3 Fonts Parallel Interface

- Graphics Resolution: 240 x 240dpi
- Epson and IBM Emulation
 Colour Option Available
 FREE Silica Printer Starter Kit

SILICA PRICE: £249



PRINTER



300 CPS

24 PIN PRINTER

SWIFT

240_M MONO PRINTER (COLOUR OPTION AVAILABLE)

SWIFT 240C COLOUR PRINTER

SWIFT 240 MONO

80 COLUMN CILEAN SWIT 240/24/0C - 24 pin - 80 column

Citizan Swit 240/24/0C - 24 pin - 80 column

30 cps SD (15cpi), 240 cps Draft, 80 cps LO

30 cps SD (15cpi), 240 cps Draft, 80 cps LO

30 cps SD (15cpi), 240 cps Draft, 80 cps LO

30 cps SD (15cpi), 240 cps Draft, 80 cps LO

30 cps SD (15cpi), 240 cps LO

30 cps SD (15cpi), 240 cps LO

30 cps SD (15cpi), 240 cps LO

4 cps SD (15cpi), 240 cps LO

4 cps SD (15cpi), 240 cps LO

4 cps LO

4 cps LO

5 cps LO

5 cps LO

5 cps LO

6 cp RRP...... £329 STARTER KIT _ £25

STARTER KIT _ £25 TOTAL VALUE: £354 SILICA PRICE: £239

SWIFT 240C COLOUR

SILICA PRICE: £259

PRINTERS 24 PIN



192 CPS 80 COLUMN Oltizen 224 - 24 pin - 80 column 192cps Draft, 64cps LO 8K Printer Buffer + 4 Fonts Parallel Interface Graphics Resolution: 360 x 360dpi Epson and IBM Emulation FREE Colour Kit FREE Silica Printer Starter Kit

TOTAL VALUE: £332 SILICA PRICE: £199





192 CPS 136 COLUMN

- Citizen Swift 24x 24 pin 136 column
 192cps Draft, 64cps NLO
 8K Printer Buffer + 4 Fonts
 Parallel Interface
 Graphics Resolution: 360 x 360dpi
 Epson, IBM and NEC P6 Emulation
 Colour Option Available
 FREE Silica Printer Starter Kit

RRP £489
SILICA STARTER KIT £25
TOTAL VALUE: £514 SAVING: £165 SILICA PRICE: £349





INKJET

- 80 COLUMN 360 CPS
- Citizen Projet inkjet 80 column
 360cps Draft, 120cps NLQ
 50 Nozzle Head Whisper Quiet 47dB(A)
 8K Printer Buffer + 3 Fonts
 Optional HP Compatible Font cards
- Parallel Interface Graphics Resolution: 300x300dni
- HP Deskjet plus emulation

TOTAL VALUE: £496 SAVING: £137 SILICA PRICE: £359





NOTEBOOK PRINTER

64 CPS

- 80 COLUMN
- Citizen PN48 Notebook Printer Non-impact Printing on Plain Paper 53cps LQ 4K Buffer + 2 Fonts Rear and Bottom Paper Loading
- Parallel Interface
- Graphics Resolution: 360 x 360dpi
 Epson, IBM, NEC P6 & Citizen Emulatio
 Powered From Mains, Battery or Car Adapto TOTAL VALUE: £325

SAVING: £106 SILICA PRICE: £219

Which computer(s), if any, do you own?.....



32344 STARTER KIT WORTH £29.38 This starter kit will help you to get ou up and running with your not vitizen dot matrix printer from illica Systems.

- a Systems.

 £ Disk Amiga & ST Drivers

 £ Disk Driver for Windows:
 Metre Parallel Printer Cable
 10 Sheets of Continuous Pa 10 Continuous Address Lab-Continuous Envelope

AMIGA PRINT MANAGER

PRINT MANAGER
WORTH 214.10

The Amiga Print Manager dramatically
enhances printed output. Provide
rivers for all Citizen printers an
replaces Amiga's normal printe
preference system - printing is quicker
colours more vibrant, graphics less
fuzzy, Essy to use with instructions.
Features includes.

LTZ, LESP, to USE with instructions, statures include: Improved Image. Smoothing Gamma/Colour Correction Image Scaling. Colour Separation. Reduces/Illiminates Banding he Amiga Print Manager is asylabre eo n request from Slica. Systems this beautiful print of the rmay be purchased (ref. SC 4572 or £13.10 (RRP £14.10).



ACCESSORIES SHEET FEEDERS

SERIAL INTERFACES 32K MEMORY EXPN

PRINTER STAND

ORIGINAL RIBBONS

PN48 ACCESSORIES

RA 1148 PN48 bauery RA 1155 PN48 Cable Extri RA 1162 PN48 Car Adapto

55H

- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.

FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.
TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.
PRICE MATCH: We normally match competitors on a "Same product - Same price" basis.
ESTABLISHED 14 YEARS: Proven track record in professional computer sales.
£12 MILLION TURNOVER (with 60 staff): Solid, reliable and profitable.
BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.
SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.
THE FULL STOCK RANGE: All of your requirements from one supplier.
FREE CATALOGUES: Will be mailed to you with offers + software and peripheral details.
PAYMENT: Major credit cards, cash, cheque or monthly terms.

PAYMENT: Major credit cards, cash, cheque or monthly terms.

Before you decide when to buy your new printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and accessories, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we cansure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".





MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111 Open: Mon-Sat 9.00am-6.00pm No Late Night Opening Fax No: 081-308 0608 LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA Tel: 071-580 4000 No Late Night Opening Fax No: 071-323 4737 -Sat 9.30am-6.00pm LONDON SHOP: Selfridges (1st Floor), Oxford Street, London, W1A 1AB **Tel: 071-629 1234** Sat 9.30am-6.00pm Late Night: Thursday until 8pm Extension: 3914 SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811 Mon-Sat 9.00am-5.30pm Late Night: Friday until 70m Fax No. 081-300 0017

To: Silica Systems, STFOR-1192 , 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

SEND A BROCHURE ON THE CITIZEN RANGE

Mr/Mrs/Miss/Ms: Initials:	Surname:
Company Name (if applicable):	
Address:	

Address:	
	Postcode:
Tel (Home):	Tel (Work):

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Quick! **Get over** 'ere, look at all this gear... it's unbelievable, and so cheap as well. But is it? We gently jog around the latest hardware and software releases

BE YOUR OWN PRINT

MULTIPRINT **MACHINE: ALL STs** PRICE: £9.95 FROM: THE ST CLUB **CONTACT: 0602 410241**

ST FORMAT GOLD

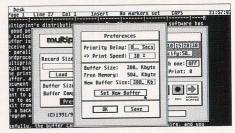
Printing graphics is often a slow process. Whereas text output is fairly fast on most printers, when you incorporate illustrations, things go much slower - it can take up to 20 minutes to print out a page from PageStream or Timeworks on inkjets or dot matrix printers. Consequently, you probably

don't use your printer to produce multiple copies of documents, but that could change with Multiprint, a utility which enables you to turn out several copies at faster speeds than normal.

Multiprint operates as a Desk Accessory so you can call it up from within any software. A buffer is set up by Multiprint - this is an area in RAM which can receive and store printer output, coping with either serial or parallel printers. If, for example, you are using your word processor and you want to print out a document, call up Multi-

■ Choose "Normal" mode and printing is speeded up by smoothing the information flow to the printer.





■ To get the optimum settings for Multiprint, these parameters can be altered and saved as the new defaults. To understand them, read the 32 page manual supplied with the software.

print, set it to "Record" mode, then print as normal. While the printer is receiving the output from the ST, so is Multiprint's buffer - a "copy" is created there. Call up Multiprint when it has finished and click on "Stop." Now you select how many copies you want - they are printed in background, so you can get on with something else.

You can set the buffer to the size you require, save the "recorded" contents to disk, reload it into Multiprint later and reprint your document without having to load the program that created it. You can also set Multiprint to compress the buffer contents, saving up to 40% disk storage space. Since you can use it to produce copies of newsletters, handbills and so on with refill kits for inkjet cartridges, you can produce professional quality prints for little more than the cost of the paper you use.

BY PETER CRUSH

ADDED TOUCHES

TOUCH-UP V1.8

MACHINE: ALL STs, MINIMUM

1MBYTE

PRICE: £29.95 OR LESS

FROM: GASTEINER TECHNOLOGIES

CONTACT: 081 365 1151

Touch-Up is the most comprehensive drawing/editing/scanning/touching-up piece of software available and it's supplied with Golden Image and Migraph scanners. The chances are, however, that you have an old version if you have one of these scanners. The good news is that the latest version – 1.8 – is now available.

You can only get the upgrade if you have an older version. The software runs in all three resolutions, but can only handle mono images. It works with bitmapped pictures only - as opposed to vector images created by describing the picture in terms of mathematical lines and angles. You can also use Touch-Up without a scanner as a drawing program.

The main advantage of v1.8 is the increased greyscale capability - photographs can now be scanned and saved in 16 levels as an IFF image (Interchange



I Save As Greyscale, a new option in Touch-Up make the

heart of dedicated scanning types race with excitement. Elsewhere, it's still a grey world - full of men in grey suits.

File Format) or as a TIFF G image with up to 256 greys. IFF files load into Deluxe Paint, and TIFF is the industry standard format for DTP software, and can be attractively re-sized. To see the greyscales your image has been saved in, you need

TOS 1.6 or higher. Your scanned image also appears on-screen in real-time as you scan - previously the scan was not displayed until it was finished.

There are many new options and defaults that can be set with the new version and the main icons are arranged differently. If you want to keep your scanning facilities up to date, you should upgrade. The maximum cost is £29.95, but it may be less depending on your version - phone Gasteiner to discuss details.



TOUCH-UP OPTIONS

All the Touch-Up options are available from an icon menu on the left side of the workscreen. Just selecting the Draw mode icon gives access to a plethora of drawing function icons in a sub-menu, take

a look at these: Arc/Wedge, B-Spline/Bezier Curves, Box, Ellipse, Fill, Freehand Sketch, Inkwell, Line Styles, Misc. Tools, Patterns, Pen, Polyline, Shadow and Writing Mode. Phew!

ST Repairs

Our Service department can repair ST's in minimum time at competetive rates. We can arrange for courier pickup and return delivery of arrange for counter pickup and retain derivery your machine to ensure it's safety. We even have a same day service which will ensure your machine is given priority and subject to fault completed the same day. We can fit memory upgrades, PC Emulators, Security devices, ROM upgrades, hard drives to Mega STE's etc. We offer a Quotation service for £15 for which we

will examine your machine and report back with an exact price for repair. If you do not wish to go ahead with the repairs then just pay the £15. However if you do go ahead then the charge is included in the minimum charge. Please note-The minimum charge covers labour, parts are

Quotation	£	15
Min repair charge	£	35.25
Courier Pickup	£	11
Courier return	£	6
Same day service	£	15
STFM(E) PSU	£	39.99
1Mb Internal drive	£	39.99
A/B Boot switch	£	4.99

Printers

Star SJ48 Bubblejet	£210
Star LC-20 dot matrix	£124
Star LC-200 colour dot matr	ix £179
Star LC-24/20 dot matrix	£189
Star LC-24/200 dot matrix	£209
Star LC-24/200 colour d/m	£259
All Star dot matrix printers include 12 mor	

STE Packs

520STE	£229
1Mb 520STE	£239
2Mb 520STE	£274
4Mb 520STE	£320
New- 8833MKII colou	r monitor with
Lotus 3	£189.99
Cable for ST/STE please s	pecify£9.99

ata Pulse Plus

The Data-Pulse range has recently been re-designed. The Data-Pulse Plus range now offers a more compact case that cuts down on noise even more, all ports are marked, an extensive range of software utilities are now included and our range of special offer utilities has been expanded confirming our commitment to tuture support. We are continually improving the quality and price/performance ratio of our drives. We have recently incorperated the MAXTOR hard drive mechanisms which offer low power, cached tims access time. 127Mb formatted capacity, 150,000 Power on hours mean time between failures and all for a lower price than our old 105Mb drives.

All drives are formatted/partitioned	and
tested ready to "plug in and go".	

Extremely low noise.

Fully Autobooting and Autoparking.

DMA device selector & On/Off switch

on front of case. DMA Out port for daisy chaining extra drives/Laser printer.

Full metal case measuring 300mm x 285mm x 51mm (wdh), providing good shielding and monitor stand.

High quality ICD boards including on board clock and controller software.

All drives include Vault archiver, Backup software, Virus killer, MCP shell program, Midistudio Master demo.

Data-Pulse Plus 40Mb ICD	3	289.99
Data-Pulse Plus 80Mb ICD	3	379.99
Data-Pulse Plus 127Mb ICD	£	429.99
Data-Pulse Plus 213Mb ICD	3	539.99
HD Turbokit	3	4.99

20 Mb Floptical Data Pulse 2

The New Data-Pulse Plus Floptical drive, is a 35' SCSI 20Mb Floptical frechanism. ICD host adaptor, high quality Data-Pulse Plus case and psu. The drive is capable of storing over 20Mb of data on a 20Mb Floptical disk£24.99 single 35' Floptical disk and can also read 720K and 144Mb 35' floppy disks. The average access time is just 65ms and the Floptical Upgrade to Data-data transfer rate is 200K per second, 6 times faster than Pulse (Plus) HD £319.99 floppy disks. The floptical is available either as a stand alone unit or as an upgrade to new and existing Data-Pulse(Plus) users where it would be ideal for fast data backup from hard drive.

Aries Upgrad

The Aries Upgrade board is an in house designed, Multi layer board utilising high density ZIPP RAM chips. The board has been designed to allow progressive upgrading from the base 512K up to 4Mb. The board does require some soldering but once installed is very reliable. The board is hand assembled in our workshops by skilled technicians and is fully tested before despatch. It also comes complete with fitting nstructions and test software. Our technicians can fit the board to any ST for a small fitting charge. We can arrange courier pickup and return to ensure fast turn araound. A same day fitting service is also available. Please phone for further details of courier and same day service.

Aries Upgrades (any ST(F)(M))

512K Aries board	39.99
2Mb Aries board	79.99
4Mb Aries board	129.99
Courier pickup	11
Courier return	6
Fitting charge	15
Same day charge	15

Please check the configuration of your machine before ordering. * = Special offer

Data-Net

Data Net is a high speed network solution developed in house at Ladbroke Computing for the ST/STE. Ladbrokes Data-Net hardware consists of an unobinusive cartridge which plugs into the cartridge port of your ST/STE and connects via Coaxial cable and BNC connectors. The Data-Net hardware is fully Lantech compatible and can be used with Universal Network software. The Universal Network software is a Multi tasking network package which does not lie up the server whilst drive or printer accesses take place. It allows the sharing of Hard drives and Centrorics printers anywhere on the Network. Nodes can also Auto boot accessories from a host's hard drive.

Data-Net Node Consisting of 1 Datanet hardware node + 1 Universal Network Node software only£99.99

The starter pack includes 2 Data-Net nodes Midi-Net Hardware Starter 260 Midi-Net Hardware Node £30 Lan-Net Herdware Starter 280 Lan-Net Hardware Node £40

Silhouette

Silhouette is a bit image and vector graphics drawing program with Auto tracing. The package offers Auto- Tracing, Beziers, B-Splines, High resolution gray scales. Supports FSM-GDOS, requires IMb ST or TT High resolution. Imports: IMG, DEGAS, TINY, MacPaint, EJM, SGF. Exports IMG, GEM(13), SGF. DXF, EPS(Postscript).

Only £60

Aries SIMM's

Special Offers 512K SIMM Upgrade for STE £11.99 2Mb SIMM Upgrade for STE £4799 4Mb SIMM Upgrade STE

Please check configuration before ordering

The New Falcon 030 £489.99

1Mb RAM, 16MHz 32 bit 68030 processor, 32MHz 56001 Digital Signal Processor, 8 channel 16 bit CD quality DMA sound chip, Microphone input for sound digitising, 65536 colours in 320x200 mode, 256 colours in VGA mode. SCSI II bus, Internal IDE hard drive interface, Multi TOS Multitasking operating system. Phone for VGA monitors, IDE hard drives, SCSI hard drives etc.

GI Hand Scanner £119.99

The Golden Image Hand Scanner for the Atari features a 105mm scanning head, variable contrast control, user selectable scanning resolutions of 100, 200, 300 and 400 Dpi, one letter mode for high contrast B/W images and 3 photo modes for various shades of grey. The high quality hardware is backed up by two of the most respected graphics packages around, Migraph's Touch Up for scanning and editing hires and grey scale images and Deluxe Paint art package for lower resolution colour.

- 100, 200, 300, 400 Dpi scanning resolution
- 105mm scanning head
- 1 letter mode, 3 photo modes
- Includes Touch Up
- ☑ Includes Deluxe Paint

Scanlite: is an accessory which allows the scanning and saving of files whilst your favourite editor or DTP package is running The accessory supports Golden Image, Migraph, GenScan and DAATAscan Hand Scanners. £20

GI External drive £54.99

The Golden Image External 3.5" Floppy drive for the Atari ST features 720K formatted capacity, double sided double density, Through port compatibility for older ST/STM machines, external PSU.

- 720K Formatted capacity
- New Low price (no track counter)
- External Power Supply
- Daisy Chain Through Port

The NEW Brus *Mouse*

- ☑ 150 Dpi resolution
- ☑ 500mm/SEC Tracking speed
- ☑ Switchable between ST/Amiga
- ☑ Opto/Mechanical Mechanism
- ☑ Includes Deluxe Paint ST
- ☑ Direct mouse replacement

£24.99 with D-Paint £19.99 without D-Paint

Gl Optical Mouse £24.99

The Official Golden Image Optical Mouse is a high quality, 3 button, replacement mouse. The fully optical mechanism means no moving parts and offers far higher reliability than opto/mechanical mice.

- 250Dpi, 500mm/sec tracking speed
- ☑ Fully Optical
- Mouse met included
- Switchable ST/Amiga

GI Mouse

The Golden Image Opto/Mechanical 290 Dpi resolution, 2 Mouse offers Microswitched greater buttons for reliability and crisper, more positive resonse, Anti-static silicone rubber coated ball. Also includes mouse mat

Unly £14.99

Jin Mouse

Don't be deceived by the low price of this mouse. Mass production of the Jin mouse has resulted in a high quality Opto/ Mechanical mouse featuring 290 Dpi resolution, 500mm/sec tracking speed, Anti-static silicone rubber coated ball.

Only £9.99

adbroke **≠**omputing International

Ladbroke Computing International are the longest established Atari dealer in the U.K. We have developed an extensive customer service policy which involves testing of all Hardware prior to despatch to ensure that goods arrive in working order offering free advice and support over the phone and keeping cutomers informed. Although our prices are not always the cheapest we do endeavour to offer consistently good service and backup. All prices correct at copy date 16/09/92 (while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery. Add £5 for next working day courier delivery, add £10 for Saturday courier delivery finainland U.K only). Add £3 for postal delivery, only on items under £50 (check with staff before ordering). All prices available on Mail Order Shop prices may differ Shopyhali order premises: 33 Ormskirk Road, Preston. Lancs. PRI 20P. Open Mon-Sati 9:30am 5:00pm. Phones answered from 9:00am. Ladbroke Computing International is a trading name of Ladbroke Computing Ltd. BFPO addresses overseas, deduct 175% VAT and add normal U.K carriage.

Telephone (07/72) 203166 FAX (07/72) 56107/1



ATARI 520ST DISCOVERY PACK

Comprises: Atari 520ST, Mouse, Manual, TV Lead, Four Game pack, Wordprocessor, Animation Software

ONLY £239.95

FREE software pack with every 520ST which contains:-Database, Spreadsheet, Spelling Checker, Graph Plotter, Typing Tutor, Kidi Story, GCSE Maths, Spell, Alphabet, Number Round Virus Killer, Label Printer, Ten Action Games Disk

ATARI 1040STE **FAMILY CURRICULUM PACK**

INCLUDES ATARI 1040STE, Mouse, Manual

Business Module:- ST Word (Wordprocessor), ST Base (Database)

Creative Module:- Hyperpaint 2, Music Maker 2, First Basic Education Module:- Reading Tutor, French Tutor, Micro Maths, General Knowledge Quiz

NEW LOW PRICE £269.95

FAMILY CURRICULUM BONUS PACK

All items in the Family Curriculum Pack above, plus:- Vinyl Dust Cover. Mouse Mat, Twin Extension Lead, Mouse Pocket, Disk Head Cleaner, 10 Blank Disks in a Box, Joystick, Eleven Game Disk

ONLY £294.95

ATARI PACKS AND PRICES ALL DUE TO CHANGE DURING LATE SEPTEMBER. PLEASE CONFIRM ALL DETAILS WHEN ORDERING

PRINTERS

PRINTER OF THE MONTH CITIZEN SWIFT 240C COLOUR PRINTER . £289.95

Star LC20 (UK) Star LC200 Colour (UK) Citizen 120D+ Citizen 224D Citizen 224D Colour Citizen Swift 9 Col £189.95

SPECIAL OFFER PANASONIC KXP1123 £179.95

INC. LEAD AND PAPER Panasonic KXP 2180 Col.. Panasonic KXP 2123 Col. £269 95

PRINTER PRICES INCLUDE CONNECTING LEAD & PAPER

MONITORS

NEW!! NEW!! NEW!! NEW!! ATARI SM146 HIGH RESOLUTION BLACK AND WHITE MONITOR ONLY £139.95

ATARI SC1435 COLOUR MONITOR £209.95 WITH TILT N SWIVEL STAND

PHILIPS CM8833/2 with Turbo Challenge Genuine UK Specification

ACCESSORIES

FORGET ME CLOCK 2, with throughport low, low price £14.95

ACCESSORIES

Twin Extension Lead Mouse Mat (6mm Rubber Type) Mouse Pocket

NAKSHA MOUSE WITH MOUSE MAT, MOUSE BRACKET, OPERATION STEALTH GAME £24.95

SERIOUS SOFTWARE

Concerto	£29.95
First Word Plus	£58.95
Wordwriter	£36.95
Timeworks 2 Desktop Publisher	289.95
Home Accounts 2	
Degas Elite	£18.95
Neo Desk 3	
Data Manager Professional	£34.95
STOS	
STOS Compiler	£14.95
STOS Sprites	
STOS 3D	

EDUCATIONAL SOFTWARE

Fun School 3 Under 5 years	£16.95
Fun School 3 5-7 years	
Fun School 3 Over 7 years	
Fun School 4 Under 5 years	
Fun School 4 5-7 years	
Fun School 4 Over 7 years	
Magic Maths 4-8 years	
Maths Mania 8-12 years	
Three Bears 5-10 years	
Better Spelling (8 to 14)	
Better Maths (12 to 16)	
Magic Story Book (5 to 14)	
Pepe's Garden (Ages 3 to 7)	
Shoe People (Ages 4 to 6)	
Cave Maze (Ages 8 to 13)	
Reasoning With Troll (5 to 12)	C11 05
Learn to Read with Prof (4 to 9):-	
Part 1 Prof Plays a New Game	C20 0E
Part 2 Prof Looks at Words	
Part 3 Prof Makes Sentences	
Part 4 Prof Hunts for Words	
Fait 4 Froi Hunts for Words	£16.95

	NEW!! NEW!! NEW!!	NEW!!	*
	ADI English 11/12 years	£16.95	*
•	ADI English 12/13 years	£16.95	*
•	ADI Maths 11/12 years	£16.95	*
	ADI Maths 12/13 years	£16.95	*

NEW!! NEW!! NEW!! NEW!! NEW!! ATARI FALCON - AVAILABLE NOW PLEASE CALL FOR DETAILS

VINYL DUST COVERS

Atari 520ST/1040ST	£5.95
Panasonic KXP1180	.£4.95
Panasonic KXP1123/1124	
Star LC10/20	.£4.95
Star LC24/200	
Star LC200	.£4.95
Citizen 120D+	.£4.95
Citizen 124D/224D	
Citizen Swift 9	
Citizen Swift 24/24e	.£4.95
Atari SM125/SM124 Monitor	£6.95
Atari SM144 Monitor	£6.95
Atari SC1435 Monitor	£6.95
Philips CM8833/2 Monitor	£6.95

Atari Lynx

With Batman Returns and Power Supply unit only £99.95 inc Postage

4	Atari Lynx Accessories e £14.95
Kit Cas	e£14.95
Pouch	£9.95
Power S	Supply£10.95

Atari Lynx Games Any Title RRP £29.95 £24.95 only

SEGA MEGADRIVE

with two controllers and Sonic the Hedgehog only £128.95

Vast selection of Megadrive games at discount prices Please call for details.

Nintendo Super NES with Super Scope gun, Six game cartridge and controller £159.95

Good selection of SUPER NINTENDO Games in stock

Access

MAIL - CENTA

38 Castlefields, The Main Centre, Derby DE1 2PE. Tel: 0332 204077

Prices include VAT at 17.5%. Delivery charges are as follows:- Order value under £10.00, please add 50p. Hardware items (computers, printers, monitors, hard drives) please add £5.00. All other orders delivery is free. Personal callers welcome at our retail shop but please bring this advert as some prices will vary. Closed Wednesdays. All items despatched same day if possible. Personal cheques may require 7 days clearance. Proprietor Martin Bridges.



VIDEO TITLER ST V2.01 £34.95

"If you are a serious camcorder user you must have this program" ST FORMAT. Professional titles for your videos, superb fonts, the most advanced computer video titler. 92% Rating Atari ST Review. FLIPS, SCROLLS, DISSOLVES, INTERLOCKS, WIPES, FADES, VENETIAN, COLOUR-CYCLES, SPEED CONTROL, SUPPORTS NEO, P11, GDOS, GEMLOCKS - GST PAL £240, GST PAL YC £290

ART MASTER STE & ST £29.95

3D Graphics, Advanced Block Manipulation, 13 distorts, STE 4096 colours, Neo, P11, Ray, Gradient, 3D cones. "Best art package for the ST." Micro Computer Mart

PRINTMASTER ST £19.95

Best print driver and dump program. Colour on any printer. 9 Pin, 24 Pin, Laser, Deskjet, Bubble jet, BJ10 etc.





Educational **Programmes** Tel 0626

Tel: 0626 779695 Day or evening

Written by experienced teachers. 88% in ST Format June 91 **Trade enquiries welcome**

Do you want to see your children use the computer for something other than shoot-em-ups?

Would you like them to use more than four keys and a joystick? Do they get fed up with being killed off while trying to work out which button does what?



Coombe Valley Software may have what you are looking for

Send SAE for information or disk/50p for demos, state computer

To: C.V.S. 18 Nelson Close, Teignmouth, Devon. TQ14 9NH

The Mouse Yoke ${\mathbb B}$

At last you really can take control with this ingenious device.

The Mouse Yoke ® does not need a game card or special items, it uses your own mouse for smooth and accurate control, unrivalled by some yokes costing over 3 times as much. More fun and less hassle for only

Suitable for most computers inc. portables



RC. Simulations

Unit 1b Beehive Trading Estate, Crews Hole Road, St. George, Bristol BS5 8AY Tel: (0272) 550900 Fax: (0272) 411052

If information only required, please enclose SAE quoting interest. Prices exclude p&p. Please add £1.95. Please allow up to 21 days for delivery.

README.1S1

A USER'S GUIDE TO 1ST WORD

PRICE: £6.95

FROM: THE ST CLUB
CONTACT: 0602 410241

If you need a cheap and serviceable word processor, and aren't too worried about its lack of graphical capabilities, 1st Word is the program



■ There are more ways than one to restyle your text, for instance, and *The User's Guide to 1st Word* from the ST Club can teach you how to extract every last feature from *1st Word*. It also gives you a few hints and tips about some complimentary utility programs which are included with *1st Word* on ST Club disk WPR 10.

you need. It is available from Public Domain libraries, but the only documentation you get is an on-disk textfile manual. If you want a printed guide to the program, your best bet is a publication from The ST Club entitled *A User's Guide to 1st Word*.

The guide comes in the shape of an A5 sized plastic ring binder containing over 130 pages and, unlike some manuals, this one assumes nothing, taking you through every step including how to make a backup copy of your disk. There is even a section which explains the Desktop, the fileselector and the various ST icons.

If you know all this stuff, you can go straight to the heart of using 1st Word. What you see on-screen when you're using the program is shown with screenshot illustrations throughout the guide.

The standard of the content and presentation of the guide is as professional as those which come with most commercial word processing packages. The chapters cover every aspect and feature of the software, and although 1st Word is thought of as a simple program compared to newer ones, it has more than enough features for beginners to get to grips with. If you are strapped



■ You might have forgotten what a good word processor 1st Word is, it has a clean, business-like screen and the function keys at the bottom make it easy to see what you're doing. In fact, all the newer word processors pinched 1st Word's good points, added a few improvements and have got rather complicated with more facilities than most people need!

for cash but need a decent word processor, you can pick up 1st Word for just £1.95 (ST Club disk WPR 10) – and for £6.95 extra the guide has the potential to make you into an expert user.

BY PETER CRUSH

BIT OF A SMOOTHIE

SILHOUETTE

MACHINE: 1MBYTE STs. HIGH RES ONLY.

2MBYTES RAM RECOMMENDED

PRICE: £60

FROM: LADBROKE COMPUTING

CONTACT: 0772 203166

Bitmapped images or text often look OK until you enlarge them, then you see those jagged edges. That's why vector or outline fonts and images are the favoured approach with high quality artwork – it doesn't matter at what size you display them because they always look smooth. Another advantage is that vector images take up much less room, and they can be processed and adapted very easily, even between different computer formats.

You can get drawing programs for the ST that produce vector images, but using them can



■ This is Silhouette's main work area, with GEM menus and graphic tools. There are three windows you can work in, you can't resize or move them but you can scroll around them. The Raster Window is selected and a Bit (Raster) image has been loaded into it for processing.



■ Using the Clip tool, an adjustable Clipbox is defined to enclose the section of the image you want to work on - you can choose the size of it.

be complicated and very time-consuming, and not everyone is an artist, anyway. Wouldn't it be convenient if you could take a bitmap or raster image and convert it automatically into an outline format image? Well, that's exactly what you can do with a new program from the US called *Silhouette*, if you have a 1MByte mono ST system.

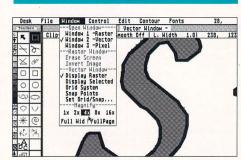
Silhouette comes on two disks, with a 100 page A5 ring bound manual which has no index and assumes you know something about the subject. The super-clever programmers who produce such powerful software aren't always the best people to also write the manual – a re-write would enhance the package no end.

Silhouette is excellent although it has so many features it's likely to take you some time to master. You can use it for tracing or you can use it as a drawing program to produce or modify bitmap and vector images, which it can load and save in several file formats. Silhouette is an evolv-

ing product, and there are plans to add other picture formats to those it can handle including the one used by *Calamus*, the DTP program. Encapsulated PostScript files can already be produced and saved to disk, as can .IMG and GEM pics.

FONT GDOS, the new version of GDOS from Atari is included with *Silhouette*. You need this to run the program – it comes complete with a Desk Accessory enabling you to easily set up fonts and paths and avoid the difficult manual editing of the ASSIGN SYS file. Ladbroke Computing are to support *Silhouette*, and updates are likely from them. *Silhouette* has the makings of a great program and is just what you need if you're serious about your ST.

BY PETER CRUSH



■ Bingo! Within seconds you have an elegant trace of that old jagged bit image. Your new vector image is displayed in window two, and you can select the magnification to view it at. From here you can modify, edit or add to the vector image, then save it in a variety of file formats.

AMAZING PRICES FOR ATARI USERS

	- Anna - La pro-	
GAME PI	RICE	Г
2 - Hot 2-Handle (Comp)	20.95	ı
20000 Leagues Under the Sea	6.96	ı
3D Construction Kit	25.85	ı
3D Construction Kit 2	33 95	ı
4 Wheel Drive (Comp)		ı
A.P.B.		ı
Action Masters (Comp)		ı
Addams Family		ı
		ı
ADI English (11-12)	17.95	ı
ADI English (12-13)	.17.95	
ADI Maths (11-12)		ı
ADI Maths (12-13)	17.95	ı
Advanced Destroyer Sim		ı
Advanced Fruit Machine		L
Advantage Tennis		ı
After Burner		ı
Agony	17.95	ı
Air Sea Supremacy (Comp)		ı
Alcatraz		ı
Altered Beast		ı
Ancient Games		ı
Another World	17.95	ı
Aquabatics		ı
Armour Geddon	17.95	ı
Award Winners (Comp)	17.95	ı
Ball Game	6.96	ı
Barbarian II (Budget)	6.96	ı
Barbarian II (Psygnosis)	17.95	1
Batman - Caned Crusader	6 96	1
Batman - The Movie	6.96	ı
Battle Chess	8.95	ı
Beastbusters		ı
Better Maths (12-16)	19 95	ı
Better Spelling (8-adult)		ı
Bitman Brothers - volume 1	17 95	ı
Bitmap Brothers - volume 1 Bitmap Brothers - volume 2	17.00	ı
Blue Max		ı
Board Genius		ı
Bonanza Brothers		ı
		ı
Brain Blaster		ı
Brides of Dracula		ı
Bubble Bobble		ı
Cabal		ı
Cadaver - The Payoff		ı
California Games II		ı
Captain Planet	17.95	ı
Captive		ı
Carl Lewis Challenge		ı
Carrier Command		ı
Cartoon Collection	17.95	ı
Champions (Comp)		ı
Championship Manager		ı
Chart Attack - vol 1 (Comp)		ı
Chase HQ I		ı
Chips Challenge		ı
Chuck Yeager 2	8.95	1
Cisco Heat	17.95	1
Civilisation (1Mb)	23.95	1
CJ in Space		1
Combo Racer	6.96	١
Continental Circus	7.95	1
Cool Croc Twins		1
Cruise for a Corpse		1
Cybercon III		١
D-Generation (1Mb)		ı
Daley Thompson's		١
Olympic Challenge (Not STE	() .6.96	ı
Deluxe Paint		ı
Demon Blue		ı
Deuteros		ı
Devpac ST V2.25	31 05	1
Dizzy Collection		ı
Diggy Pania	6 06	ı
Dizzy Panic	17.05	١
Dizzy's Excellent Adventures		١
Double Dragon I	7.05	1
Double Dragon II	7.95	1
Double Dragon III		1
Dragon's Lair - Singes Castle		1
Dreadnoughts		1
Driller		1
Dune		1
Edd the Duck		1
Elf	17.95	1
Elvira - Arcade Game	17.95	1
Elvira II		1
Emlyn Hughes Int. Soccer		1

THE RESERVE OF THE PERSON OF T	3 10 10 10 10 10
Epic20.9	5 Lemmin
Espana - The Games "9220.9	5 (stand
Euro Football Champ17.9	
European Championships 199217.9 Exile17.9	
F-15 Strike Eagle II23.9	
F-16 Combat Pilot7.9	
F-19 Stealth Fighter20.9	5 Lotus E
F-29 Retaliator17.9	5 Lotus III
Falcon11.9	5 Lotus T
Falcon - Counterstrike Data Disk	Lure of to
Falcon - Firefight Data Disk7.9	
Fantasy World Dizzy6.9	
Fast Food5.9	
Final Command6.9	
Final Fight17.9	5 Magnet
Fire and Ice	
First Letters (under 5's)6.9 Fists of Fury (Comp) (Not STE)17.9	6 Manche 95 Maths 1
Flight Simulator 223.9	
Flood 8.9	5 Max (C
Football Crazy (Comp)17.9	5 Mega S
Formula 1 Grand Prix (MP)23.9	5 Mega 1
Fun School 3 (5-7)17.9	5 Mega-L
Fun School 4 (5-7)	5 Megatr5 Mercs .
Fun School 4 (7-11)	5 Micropi
G-Loc	
Gauntlet II6.9	
Gauntlet III17.9	5 Midwin
Ghostbusters 26.9	
Go For Gold7.9	
Godfather 20.9	
Gods	
Golden Axe7.9	
Golden Eagle17.9	
Graham Souness Soccer Manager 6.9	
Graham Taylor's Soccer (1Mb) 17.9	
Great Napoleonic Battles20.9	
Guy Spy	5 North 8
Head Over Heels6.9	6 Omar S
Heimdall23.9	5 Operati
Heroquest17.9	5 Operati
Heroquest - Twin Pack20.9	5 Outrun
Hitchikers Guide to the Galaxy7.9	
Hook (1Mb)	
Hudson Hawk17.9	
Humans20.9	5 Pit Figh
Hunt for Red October7.9	5 Plan 9 f
Hunter20.9	5 Platinu
Ian Botham's Cricket	
IK+ (Not STE)	6 Populor 5 Power
Indiana Jones &	Powerd
L Crusade (ACT)6.9	6 Powerr
Indy Heat17.9	5 Powerm
International Sports Challenge 20.5	
Ishar - Legend of the Fortress.20.9 Ivanhoe	
Jaguar XJ220 (1Mb)	
James Pond6.9	
Jim Power17.9	
Jimmy White's Whirlwind	R-Type
Snooker20.9	
John Barnes Euro.	R.B.I. B Race D
Football (1Mb)	5 Railroa
Jupiter's Masterdrive6.9	6 Rainbo
Kick Off + Extra Time6.9	6 Rainbo
Kick Off II (1/2 Meg)13.9	
Kid Gloves II	
Knightmare	-
Knights of the Sky (1Mb) 23.9 Kult	0
Kwik Snax6.9	
Last Ninja III	
Leander17.9	
Leather Goddess of Phobos7.9	75 Roboco
Legend	5 Rodlan
Lemmings (Original)17.9	11011119
Lemmings Levels (add-on version)13.5	Rotox
(444 011 40101011)	Secret of

Lemmings Levels (stand alone)
(stand alone) 17.9! Leonardo 6.9 Leonardo 6.9. Life and Death 17.9! Lineker Collection 13.9! Liverpool Football 17.9! Lombard RAC Rally 6.9 Lotus Esprit Turbo Challenge 7.9! Lotus III - The Final Challenge 17.9! Lotus Turbo Challenge II. 19.9! Mar Tank Platoon 20.9! Magic Maths (4-8) 19.9! Magic Pockets 17.9! Magic Storybook 20.9! Magicland Dizzy 6.9! Magnetic Scrolls Collection 20.9! Manchester United Europe 7.9! Manchester United Europe 7.9! Manths Mania (8-12) 19.9! Maupiti Island 20.9! May (Comp) 20.9! Mega Sports 17.9! Mega Twins 17.9! Mega Twins 17.9! Mega Tryins 17.9! Mega Towins 17.9!
Leonardo. 6, 9 Life and Death 17, 9 Lineker Collection 13, 9 Liverpool Football 17, 9 Lombard RAC Rally 6, 9 Lotus Esprit Turbo Challenge 7, 9 Lotus III - The Final Challenge 17, 9 Lotus Turbo Challenge II. 17, 9 Lotus Turbo Challenge II. 17, 9 Lotus Turbo Challenge II. 17, 9 Lure of the Temptress (1Mb) 20, 9 M1 Tank Platoon 20, 9 Magic Maths (4-8) 19, 9 Magic Pockets 17, 9 Magic Pockets 17, 9 Magic Storybook 20, 9 Magicland Dizzy 6, 9 Magnetic Scrolls Collection 20, 9 Manchester United 7, 9 Manchester United Europe 17, 9 Maths Mania (8-12) 19, 9 Maupit Island 20, 9 Max (Comp) 20, 9 Mega Sports 17, 9 Mega Twins 17, 9 Mega Twins 17, 9 Mega Lo-Mania/First Samural 20, 9 Mega Tryins 10, 9 Mega Towins 17, 9 Mega Lo-Mania/First Samural 20, 9
Life and Death
Lineker Collection
Liverpool Football 17,91 Lombard RAC Rally 6,99 Lotus Esprit Turbo Challenge 7,91 Lotus III - The Final Challenge 17,91 Lotus Turbo Challenge II 17,91 Lure of the Temptress (1Mb) 20,99 M1 Tank Platoon 20,99 Magic Maths (4-8) 19,99 Magic Pockets 17,99 Magic Pockets 17,99 Magic Storybook 20,99 Magicland Dizzy 6,99 Magnetic Scrolls Collection 20,99 Magnetic Scrolls Collection 20,99 Manchester United 7,99 Manchester United Europe 17,99 Maths Mania (8-12) 19,99 May (Comp) 20,99 Mega Sports 17,99 Mega Twins 17,99 Mega Twins 17,99 Mega Twins 17,99 Mega Lo-Mania/First Samural 20,99
Lotus Esprit Turbo Challenge . 7, 9t Lotus III - The Final Challenge . 17, 9t Lotus Turbo Challenge II 17, 9t Lure of the Temptress (1Mb)
Lotus III - The Final Challenge
Lotus Turbo Challenge II
M1 Tank Platoon 20.94 Magic Maths (4-8) 19.93 Magic Pockets 17.94 Magic Storybook 20.99 Magicland Dizzy 6.90 Magnetic Scrolls Collection 20.99 Manchester United 7.91 Manchester United Europe 17.99 Maths Mania (8-12) 19.99 Maupiti Island 20.99 Max (Comp) 20.99 Mega Sports 17.99 Mega Twins 17.99 Mega Lo-Mania/First Samurai 20.99
M1 Tank Platoon 20.94 Magic Maths (4-8) 19.93 Magic Pockets 17.94 Magic Storybook 20.99 Magicland Dizzy 6.90 Magnetic Scrolls Collection 20.99 Manchester United 7.91 Manchester United Europe 17.99 Maths Mania (8-12) 19.99 Maupiti Island 20.99 Max (Comp) 20.99 Mega Sports 17.99 Mega Twins 17.99 Mega Lo-Mania/First Samurai 20.99
Magic Storybook 20.9 Magicland Dizzy 6.9 Magnetic Scrolls Collection 20.9 Manchester United 7.9 Manchester United Europe 17.9 Maths Mania (8-12) 19.9 Maupiti Island 20.9 Max (Comp) 20.9 Mega Sports 17.9 Mega Twins 17.9 Mega-Lo-Mania/First Samurai 20.9
Magic Storybook 20.9 Magicland Dizzy 6.9 Magnetic Scrolls Collection 20.9 Manchester United 7.9 Manchester United Europe 17.9 Maths Mania (8-12) 19.9 Maupiti Island 20.9 Max (Comp) 20.9 Mega Sports 17.9 Mega Twins 17.9 Mega-Lo-Mania/First Samurai 20.9
Magicland Dizzy 6,9 Magnetic Scrolls Collection 20.9 Manchester United 7,9 Manchester United Europe 17,9 Maths Mania (8-12) 19,9 Maupiti Island 20,9 Max (Comp) 20,9 Mega Sports 17,9 Mega Twins 17,9 Mega Lo-Mania/First Samurai 20,9
Manchester United 7.9 Manchester United Europe 17.9 Maths Mania (8-12) 19.9 Maupiti Island 20.9 Max (Comp) 20.9 Mega Sports 17.9 Mega Twins 17.9 Mega-Lo-Mania/First Samurai 20.9
Maths Mania (8-12) 19.91 Maupiti Island 20.91 Max (Comp) 20.91 Mega Sports 17.91 Mega Twins 17.92 Mega Lo-Mania/First Samural 20.91
Maths Mania (8-12) 19.91 Maupiti Island 20.91 Max (Comp) 20.91 Mega Sports 17.91 Mega Twins 17.92 Mega Lo-Mania/First Samural 20.91
Maupiti Island 20.9 Max (Comp) 20.9 Mega Sports 17.9 Mega Twins 17.9 Mega-Lo-Manja/First Samurai 20.9
Mega Sports
Mega Twins17.99 Mega-Lo-Mania/First Samurai20.99
Mega-Lo-Mania/First Samurai 20.9!
Megatraveller 1(1Mb) 20.9 Mercs 17.9 Microprose Golf 23.9
Mercs
Microprose Golf 23.9
Midnight Resistance6.9
Midwinter I 20.99
Midwinter II23.99
Mig 29M Super Fulcrum26.9
Monty Python
Myth
Narc 6.9
Narco Police6.9
Narco Police
Nightbreed - action game6.9
Nightbreed - action game6.9 Ninja Collection13.9
Nitro 7.9
North & South 6.90
North & South
Operation Wolf6.9
Outrun Europa17.9
Pacific Islands20.9
Pang
Panza Kick Boxing
Pit Fighter
Plan 9 from Outer Space23.99
Platinum (Comp)
Demulaus II (1/2 mass) 20.0
Populous II (1/2 meg)20.9
Power Pack (Comp)17.9
Powerdrift6.9
Powerdrift 6.9 Powermonger 20.9
Power Pack (Comp)
1.9 1.9
1.9 1.9
17.9 Powerdrift
17.9 Powerdrift
17.9 1.0
Power Pack (Comp)
Power Pack (Comp). 17.9 Powerdrift 6.9 Powermonger 20.9 Powermonger Data Disk (WWI). 11.9 Pro Tennis Tour 1 6.9 Projectyle 8.9 Push-Over 17.9 Puzznic 17.9 Quest and Glory (Comp). 20.9 Quest for Adventure (Comp). 23.9 R-Type I. 15.9 R-Type II 15.9 R.B I. Baseball 2 20.9 Race Drivin' 18.9 Railroad Tycoon(1Mb) 23.9 Rainbow Collection 13.9 Rainbow Islands 6.9 Realms 20.9
Power Pack (Comp)

FOR THE PROPERTY OF THE PROPER		-
Sensible Soccer	17	qı
Seymour Goes to Hollywood	6	96
Shadow of the Beast II	.17	9
Shadow of the Beast IIShadow Sorceror	.19	9
Shadow WarriorsShadowlands	6	.96
Shadowlands	.20	.9
Sherman M4	6	.96
Shoe People	17	9!
Shoot 'em up Construction Kit	7	9
Shuttle	.20	9
Shuttle	20	9
Silkworm	7	.98
Sim City/Populous	.20	.9
Sim Earth	.23	.9
Simpsons	.17	9
Slightly Magic	6	.96
Smash TVSoccer Stars (comp)	.17	.9
Soccer Stars (comp)	.17	.9
Sooty & Sweep	6	.96
Space Crusade		
Space Gun Special Forces	.17.	9:
Spellbound	12	9:
Sporting Gold	20	01
Sports Best		
Sports Collection	12	0
Spot	13	a
ST Dragon Steel Empire (1Mb)	20	QI
Storm Master	20	q
STOS 3D	23	91
STOS Compiler	13	9!
STOS The Creator	20	9!
Strider	6	96
Strider Strike Fleet	.17	9!
Striker	.17	9
Striker Manager	7	9
Super Monaco G.P.	.17	9
Super Off Road	7	9
Super Off Road Super Sega (Comp) Super Space Invaders	.20	9
Super Space Invaders	.17	.9
Supercars	6	.96
Supercars Supernova - Fruit Machine	6	.96
Supremacy	.20	.9
Suspicious Cargo	.17	.9
Switchblade II	.15	.96
Team Suzuki	6	.96
Tennis Cup 2		
Terminator II	.17	.9!
The Manager Thunderhawk	.20	.9!
Thunderhawk	.20	.9
Tip Off		
Toki	.17	.9
Top Banana Top League (Comp)	.17	.9
Top League (Comp)	.20	.9
Total Recall	b	.91
Toyota Celica Treasure Island Dizzy	6	.91
Treasure Island Dizzy	4	.43
Turrican II Turtles 2 - The Coin Op	17	01
U.M.S. II (1Mb)	20	OI
Ultima 6	20	OI
Under Pressure	6	ai
Untouchables		
Utopia	20	qi
Utopia - New Worlds Data Disk	11	9
Venus The Flytrap		
Video Kid	17	9
Virtual Reality 1 (Comp)	20	9
Virtual Reality 1 (Comp) Virtual Reality 2 (Comp) Viz	17	9
Viz	7	.9
Volfied	.17	9
Vroom	.17	.9
Vroom Vroom - Data Disk	.12	.9
Warriors of Releyne	20	.9
Warzone	.13	.9
Wild Wheels	.17	9
Winter Supersports '92	.17	.9
Wizkid	17	.9
Wonderland	.20	.9
World Class Leaderboard + tee se		
World Class Rugby		
Wrestlemania		
Xybots	6	.9
Z-Out	6	.9

Double Sided

	Double Delisity
QUANTITY	PRICE
10	£4.99
20	£9.75
	£11.90
30	£13.90
	£15.85
40	£17.75
45	£19.75
50	£21.50
	£34.00
100	£38.75
120	£45.90
150	£56.55
	£72.85
250	£89.95
300	£107.50
400	£142.75
500	£169.95
1000	£334.95
	£658.00

WITH LABELS & WARRANTY

BOXES

(with keys & dividers)

	,
10 Slimpack	0.94
40 capacity	4.95
50 capacity	5.60
80 capacity	6.30
100 capacity	6.80
120 capacity	8.75
140 capacity	9.95
150 capacity	10.95
150 Deluxe stackable	21.95

JOYSTICKS

Python 1 (QS130F)	9.25
Maverick 1 (QS128F)	
125+	9.00
The Bug	.13.50
Star Probe	
Competion Pro 5000 - black.	.13.75
Speedking A/F	.11.00
Navigator A/F	.13.75
Topstar (SV127)	.21.50
Supercharger (SV123)	9.00
Sting Ray A/F	.12.50
Megastar A/F (SV133)	.22.00

MISCELLANEOUS

Philips CM8833 II monitor .	.229.95
Zydec disk drive	49.90
Mouse	14.75
Mouse mat	2.95
Mouse house	2.95
Head cleaner	3.75
Dust cover (Atari)	3.65
Dust cover (monitor)	6.99
Dust cover (LC10)	7.65
Dust cover (LC24)	6.99
Trackball	31.96

All Prices include UK postage and VAT and are effective until November 8th 1992

Secret of Monkey Island (1Mb). 17.95

Overseas orders - Postage charged at cost.

New titles will be sent as they are released and are subject to manufacturers price reviews.

Credit Card orders: (10.00am - 10.00pm, 7 days not an answer phone) 071-608-0624

DataGem Ltd, Dept STF, 23 Pitfield Street, London, N1 6HB Showroom open Monday - Friday 10am - 6pm Exit 2, 0ld Street Tube

SCAN BY YOUR MAN

NAKSHA HAND SCANNER AND TOUCH-UP SOFTWARE

FROM: NAKSHA (UK) LTD

PRICE: £116.33

CONTACT: 0925 56398



Naksha have launched a new version of their hand scanner for the ST with scanning resolutions ranging from 200 to 400 dpi. Included with the scanner is the powerful MiGraph *Touch-Up* package enabling you to alter and manipulate high

resolution images. *Touch-Up* incorporates the scanning software so that images can be scanned directly into it with the Naksha device.

The scanner uses the usual 105mm wide scanning head, and the main body of the unit is slightly wider than many of the others available. The extra width makes the scanner comfortable to hold so it's a simple matter to produce straight scans without shake and wobble. The lead from the cartridge to the scanning unit is reasonably long so you can easily use it on both sides of your ST without

causing any problems. The scan button is also handily placed on the top right of the unit making it a simple matter to start a scan using your right index finger. The scanner works well, producing high quality scans in all resolutions, and is a pleasure to use.

The MiGraph *Touch-Up* package is a very complex piece of software, and offers far more options, tools and file format support than any other similar image manipulation software available for the ST. For more details on the software, turn to page 92 to see the review of the upgrade.

All in all, the scanner is an excellent machine and the software is so easy to use that it becomes almost second nature to scan and manipulate images. The software needs 1MByte of RAM and runs in mono only.

BY CLIVE PARKER

TOS FOR ALL

T_BOARD 64 AND T_BOARD 68 TOS 2.06 UPGRADES

FROM: COMPO SOFTWARE LTD

PRICE: £69.99 OR £29.99 WITHOUT TOS

2.06 ROMS

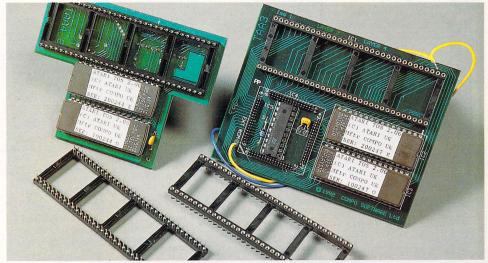
CONTACT: 0480 891819

At last you can get a do-it-yourself upgrade board to add TOS 2.06 to all STs and STEs. The board comes in two versions, one for the STE and one for all pre-STE machines. The most important aspect of the upgrade is the fact that you can switch back to the old ROMs and retain compatibility with older software, so you can use STOS programs and games. The first version of TOS is selected on boot up, so all games can run properly. Alternatively, you can boot TOS 2.06 via a small AUTO folder utility. There is also a Desk Accessory so you can switch between the two versions of TOS.

Previously, you could only upgrade an STE by direct TOS chip replacement meaning you couldn't use older non-compatible software. Compo can supply TOS 2.06 chips on their own for £49.99 to make a straight swap on your STE. This is only possible on STEs with 32-pin ROM sockets – some of the early machines had 28-pin ROMs and sockets, so check before you order.

The STE version of the board (the T_Board 68) is much easier to install than the STFM (the T_Board 64) version and requires little soldering, just two wires connecting to three points on the main circuit board. The board itself plugs into the 68000 socket on top of the 68000 chip, this can be quite fiddly but once it is seated in place it is very secure. The STFM version has to have a socket soldered directly onto its 68000 chip and the board then plugs into this socket.

Both versions of the board have a 64-pin socket to accommodate a PC emulator or accelerator board later. Unlike other boards there is no



mass of wires trailing around to the underside of the main circuit board, so the installation is fairly straightforward if you know something about soldering and have a steady hand. If you feel you're not too experienced in this department, Compo recommend you get the board installed by a Compo Software Authorised Dealer.

This is an excellent upgrade supplied with straightforward instructions and a TOS 2.06 man-

■ The T_Boards from Compo. Using these adds TOS 2.06 to your machine and retains your old TOS, so you can switch between versions.

ual. If you want an upgrade to TOS 2.06 then this is the board to get.

BY CLIVE PARKER

WHO WANTS TOS 2.06?

The advantages of TOS 2.06 are many: along with an improved NeoDesk style Desktop, many of the bugs in previous versions of TOS have been fixed. Hard drive access and general file handling routines

are much faster, INF files can be loaded as you want and programs can be assigned to function keys for launch with a single keypress. You can also design icons and assign them to specific files and programs.



MIDI WORKSTATION

Professional Workstation Stand For MIDI Studio Equipment. Total Support For Keyboard/Synth's, Expander Modules and Computers (Optional Mic. Boom Arm).

R.R.P. £99.95





DOES YOUR KEYBOARD SET-UP DESERVE A LITTLE MORE THAN AVERAGE SUPPORT. IF SO, YOU SHOULD CONSIDER THE CONNECTRIX KEYBOARD STAND RANGE WHICH OFFERS TOTAL SUPPORT FOR KEYBOARDS AND ELECTRONIC PIANOS. THE LATEST GENERATION OF 'GT' SERIES CONNECTRIX STANDS BRING, TO YOU, ROBUST & STABLE CONSTRUCTION, VISUAL **ELEGANCE** AND TOTAL TRANSPORTABILITY AT AFFORDABLE PRICES, PLEASE WRITE, FAX OR CALL.

C.I.S. (INTERNATIONAL) LIMITED

C.I.S. House • Building No.2 • Leyton Avenue Mildenhall • Suffolk • IP28 7BL • United Kingdom

☎ SALES: (0638) 711570 / 718569 • FAX: (0638) 718964

Reach the top with.....

LCL Self-Tuition Courses

Chosen by Atari for their Family Curriculum pack. World leaders - Hons graduate/teacher authors. ● £5 off total for 2, £10 off for 3.

MICRO ENGLISH (8 years - GCSE)

Complete course taking students from spelling and punctuation to understanding literature. Also for EFL, 24 programs with real speech with a book and manual £24. (ST, STE, Amiga, PC, Arc etc)

MICRO GERMAN (Beginners - GCSE & bus.)

Complete course with real speech, adventure game & business letter generator, 24 programs with book & manual, £24. (ST, STE, Amiga, PC, Arc)

MICRO FRENCH (Beginners - GCSE)

Complete course taking beginners to GCSE, with real speech & graphics adventure game, 24 program options with a book and a manual. £24. (ST, STE, Amiga, BBC, PC)

PRIMARY MATHS COURSE (3-12 YEARS)

Complete course FOR ages 3 - 12 years with full screen colour graphics, 24 program options with a book and a manual. £24. (ST, STE, Amiga, PC, CPC, BBC).

MICRO MATHS (11 years - GCSE)

Best selling GCSE Maths course in UK. For ages 11 upwards in 24 program options with a book and manual. £24. (ST, STE, Amiga, PC, PCW, CPC, BBC)

IMMEDIATE

Send coupon and cheques/PO's (+99p P&P) or phone orders or requests for free colour poster/catalogue to:

LCL (DEPT STF), THAMES HOUSE, 73 BLANDY ROAD, HENLEY-ON-THAMES, OXON RG9 1QB

DESPATCH

or ring 0491 579345

VISA

NFW

Name		 	
Address		 	
Title(s)		 	
Computer	r		

INKJET REFILLS

For HP Deskjet, Canon, Star printers. Refill your cartridges at less than half price. From only £12.95 for 2 refills Full colour printing kit £24.00 Over 24 exciting colours to choose from

Write or phone for free information pack to:

104 Skipton Road, Ilkley, West Yorks LS29 9HE **TEL:** (0943) 607256 SERVICES All prices fully inclusive UK mainland

ATARI REPAIRS AND UPGRADES

Repairs from £23.00 inclusive.

Free registered carrier pickup and return despatch for ultimate peace of mind, for any repair anywhere on the UK mainland!

Free diagnostic inspection.

All repairs carried out are covered by free 90 day

Fast efficient service, average diagnostic and repair time - 24 hours!

Experienced, qualified engineers.

Any upgrade fitting, fixed price £15.00 inclusive. Terms & conditions available upon request.

UNBELIEVEABLE UPGRADE PRICES

520STFM/STF to 1MB	£29.25
520/1040STFM/STF to 2.5MB	£97.00
520/1040STFM/STF TO 4MB	£167.00
520/STE TO 1MB	
520/1040/STE TO 2MB	
520/1040STE/ TO 4MB	£159.99

CALL FOR BEST PRICES ON 520/1040/ **MEGASTE** FLOPPY/HARD **DRIVES AND** MUCH MUCH MORE.



Business Enterprise Centre, Eldon Street, South Shields, Tyne & Wear, NE33 5JE.

Telephone: 091-455 4300

ATTENTION

ATARI ST PROGRAMMERS

Do you have a commercial grade program which you would like to see published in the United States?

Well, look no further! We'll take our publishing knowledge along with our distribution network and put them to work for you!

> For further information contact: Aubrey J. Whitten

Pacific Software Supply PO BOX 1111 / San Luis Obispo, CA 93406 / USA Tel: 805/543-1037 - Fax 805/541-1623 24hrs

IN THE MODE...

BEST 2400 SMART ONE MODEM

FROM: HCS PRICE: £59.95

CONTACT: 081 777 0751

The Best Smart One 2400 baud modem is an ideal introduction to the world of comms on the ST. The modem is slightly bigger than an external floppy drive size and and takes up very little space on your desk. The front panel of the modem is angled back at about 30 degrees with a row of friendly red LEDs above a line of obscure legends such as SD, RD, HS and TR – all becomes clear in the manual. The LEDs indicate the status of the modem, indicating if it is on-line, sending or receiving data.

The back of the modem has two US style telephone jack sockets marked "telephone" and "jack." The lead supplied with the modem connects between the socket marked "jack" and a standard Telecom wall socket. There is a standard 25 pin "D" socket to connect the modem to the ST via the serial port, this lead is provided by HCS with the modem. Also on the back of the modem is a 9V DC power socket and a power switch.

The power supply unit is supplied with the modem and stays cool over long periods. The

modem is easy to set up and use and is supplied complete with all leads and a copy of *Uniterm*, the popular PD comms package. HCS also provide a "get you started" sheet for beginners covering the basics of ST comms.

Once you've got it up and running, the Best Smart One modem uses built-in error correction hardware to ensure trouble-free connections to other modem owners and bulletin board services. Error correction compensates for crackles and hisses on the line that can interfere with transmissions of data.

The manual contains all the information you should ever need to use your modem effectively, including full instructions for connecting up your modem, as well as a complete list of

the Hayes commands that the ST uses to control the modem. There are also other commands explained that control some of the built-in features such as volume and internal storage of numbers.

This is a good basic modem that performed faultlessly over a period of four weeks. Although it



is not packed with all the latest features it is well worth looking at as a first time buy. At this price everyone can afford to live in the modem world.



ALARMED? ME?

PROTECTOR +2 ALARM FROM: JF CAPE AND SON

PRICE: £29.99 (£24.99 TO ST FORMAT

READERS)

CONTACT: 0752 700649

"Crime. Together we'll crack it." This was the line of what was probably one of the most unconvincing crime prevention advertising campaigns of all time.

Unless you lash out and get an intruder alarm system costing an arm, a leg and various

other important parts of your body, there is always the chance of some prat breaking in and nicking your beloved ST setup while you snooze peacefully in bed.

Now a small company which specializes in fire and other types of alarm systems have produced a low cost alarm setup that you can easily install yourself. The unit is small enough to be hidden away out of sight behind your setup, and the two triggering units can be attached to two separate items, so both your ST itself and the monitor can be protected individually. The main

unit consists of a small box containing a 111 decibel alarm sounder (and that's rather loud), a key switch to turn the alarm on and off and a cancel button.

Detection of movement is via two reed switches that are connected to cables. Reed switches are devices which react to the presence of a small magnetic field - when the field is removed it activates the switch and sets off the alarm. The range of the field is very small because the magnet is comparitively weak. If the switch is moved more than 6mm from the magnet, the alarm is triggered. Don't worry about the magnetic field affecting your machine in any way, the field is far too weak to cause any harm to any thing apart from your potential burglar's eardrums. To set up the alarm, you have to stick the reed switch to the desk with a sticky pad. You can then fix the magnet to the device you want to protect with another sticky pad, in a position which keeps it in contact with the switch. As long as you turn off the alarm when you use your ST, you won't be deafened if you inadvertently move your ST - to plug in a joystick, perhaps. If you require more than two detectors, versions with four or more reed switches are available.

While not the most sophisticated of protection devices, the Protector adds a little extra security to your home without having to install a complex intruder alarm system. £30 is not much to pay for peace of mind.

ROTECTON
FIRE PROTECTION SYSTEMS

This small square box can crack a pane of glass at 30 feet if you annoy it. Stick it to your \$\overline{3}\$ and they can be friends for life.





THE FIRST **COMPUTER CENTRE**

OPEN 7 DAYS A WEEK

OPEN MON - SAT......9.30AM-5.30PM SUNDAY OPENING......11.00AM-3.00PM THURSDAY NIGHT LATE ... 9.30AM-7.30PM

AUTHORISED DEALERS FOR STAR, CITIZEN, COMMODORE, ACORN, ROMBO & SUPRA

FREE DELIVERY! **HOW TO ORDER**

Order by telephone quoting your credit card number. If paying by cheque please make payable to FIRST COMPUTER CENTRE. In any correspondence please quote a contact phone number and post code. Allow 5 working days for cheque

- All prices include VAT and Standard Delivery
- All hardware/computers are genuine UK spec.
- Free Fast Standard 4 to 7 day **Delivery**
- Guaranteed 2 to 3 day Delivery only £2.00
- **Guaranteed Next Day Delivery** only £4.50
- Open seven days a week for your convenience
- Overseas orders welcome

Technical & Sales 6 LINES

24 HOUR MAIL ORDER SERVICE!!

0532 319444

CUSTOMER CARE: 0532 637988

FAX: 0532 319191

PLEASE ADDRESS ALL CORRESPONDENCE TO: DEPT. STF, UNIT 3

ARMLEY PARK COURT OFF CECIL STREET STANNINGLEY ROAD LEEDS, LS12 2AE

Prices are subject to change without notice. E&OE.



THE FIRST COMPUTER CENTRE (LEEDS) Tel: 0532 319444

THE NEW (NEW! ATARI FALCON

32 bit technology for fast processing. Please ring for more details

from £469.99 THEATARI START PACK

This pack now comes with: Missile Command, animation package, Word Processor and ST

now only £229.99!!

We can also upgrade the Atari STE Start pack: I Meg version.....£244.99 2 Meg version.....£279.99 4 Meg version.....£319.99

THE 1040 FAMILY **CURRICULUM PACK**

With I Meg as standard this pack must be one of the best educational packages. Inc. ST Word, ST Base, Hyperpaint 2, Music Maker 2, First Basic, Micro Maths, French Mistress language tutor, Reading tutor and general knowledge tutor, Mouse & manuals

now only £279.99

ATARI MEGA STE IMb

with I meg of RAM and internal expansion for hd drive

now only £425.99 ATARI MEGA STE 2Mb

2 meg of RAM plus a 48 meg internal hard drive

now only £695.99 ATARI MEGA STE 4Mb

4 Mb of RAM and 48 Mb hard drive

now only £759.99 ATARI MEGA STE 4Mb

and 105Mb HD

4 Mb of RAM and 105Mb hard drive now only £885.99

All Mega STe's have European modulators and cannot be used on UK televisions. (Ask Atari why because we don't Know!!)

Special offer!! THE FIRST CHOICE **10 GAMES PACK**

With Chase HQ, Arkanoid, Super Hang-on, New Zealand Story, Operation Wolf, Crazy Cars, Super Cars, Skidz, SwitchBlade, and Axels Magic Hammer

only £29.99 or £19.99

when bought with any Atari computer



IOYSTICKS

and the state of t	
Cruiser Black	£8.99
Cruiser Multi Colour	£8.99
Zip Stick Triple Fire	£13.99
Quick Shot Áviator 5	
Quick Shot Maverick I	£13.50
Quick Shot Python I	
Ouick Shot Flight Grip	

PRINTERS MONITORS NEW LOW PRICES!

All our printers are UK spec

All our printers inc ribbons and free std printer cable, All Citize printers come with a 2 year guarantee. All printers have a full UK

Canon CITIZEN COMPUTER PRINTERS

HEWLETT SUMP

Star LC20.....£132.99

180 cps draft, 45 cps NLQ, quiet mode and multi fonts, push button operation.

New Star LC100 Colour...£179.99

B resident fonts, 180cps draft/45cps NLQ, Q

Star LC200 colour..£195.99

9 pin colour, 8 fonts, 225 cps draft, 45 cps NLQ, A4 landscape printing.

New Star LC24-100.....£191.99

Star LC24-20.....£199.99 24 pin quality, 210 cps draft, 60 cps LQ, 16K buffer expandible to 48K, 10 fonts and LCD front display.

Star LC24-200 mono...£219.99

24 pin, 222 cps draft, 67 cps LQ, 10 fonts, A4 landscape.7k buffer expandable to 39K

Star LC24-200 colour.£269.99 Colour version with 30K buffer expandable to 62K

Star XB24-200 colour....£379.99 Professional quality with On-site maintenance,

Professional quantity very quiet.

Star SJ48 Bubble jet.....£214.99

Laser quality, ultra quiet, Epson compatible, portable in size.

Star Laserjet 4 MK3.£739.99

Star LC20 Autosheet feeder......£59.99 Star LC200 Autosheet feeder.....£62.99 Star LC24-20 Autosheet feeder...£64.99 Star LC24-200 Autosheet feeder.£64.99 Star SJ48 Autosheet feeder.....£52.99 Citizen Swift 9 Colour.....£183.99

Excellent value 9 pin colour. Highly recommended NEW Swift 240 Colour....£279.99 24 pin, 240 cps draft, 10 fonts, quiet mode, 240 cps. NEW Swift 200 Colour.....£224.99

Semi auto sheet feeder.....£29.99 Automatic Sheet feeder....£79.99

Canon BJI 0ex.....£229.99

Laser quality output. Larger buffer than the StarSJ48Canon/Star bubblejet cartridges......£17.99 Canon BJ20.....£309.99

Built in auto sheet feeder and extra facilities than BJI0

Canon BJ300.....£379.99

Desktop bubble jet with laser quality

Canon BJ330.....£519.99

Wide carriage version of the BJ300 BJI0ex Autosheetfeeder...£52.99

Hewlett Packard Printers

HP500 mono..now £334.99 HP 500 Colour......£509.99

HP500 mono cartridges....£14.99 All HP printers come with a 3 year warranty

FIRST EXTRAS PACK

With the FIRST EXTRAS Pack you can make sure you have every thing you need when buying an Atari. All the essentials required for the first time buyer and at a bargain price!! Comprises:

- * Top quality microswitched **Powerplay Cruiser joystick**
- * Mouse Mat
- * Dust Cover
- * 10 high quality Blank Disks
- * Plus £70.00 of software!!

only £29.99 RRP £95.00!!!

All our monitors are UK spec. All monitors come complete with a free Atari lead.

WARNING: Before you purchase a monitor make sure it has a full UK specification. You might be buying what you think is a similar monitor at a lower price but it is likely to be a "GREY" import. These monitors do not comply with British safety standards and are not covered by an official warranty

PHILIPS CM8833 MK2

stereo colour monitor

Colour stereo monitor, 600*285 line resolution, green screen facility, one years on site maintenance.

now with Lotus Turbo Esprit only £199.99 UK Spe

The Atari 1435 Stereo Colour Monitor

Same tube and resolution as the CM8833 Mk II but restyled, rebadged and colour coded to match your Atari. Includes a built in tilt and swivel stand.

only £209.99 UK Spec

NEW Atari SM 146 with I4" high res screen

High resolution mono monitor 640 * 400 resolution. Stable image and razor sharp quality. The obvious choice for demanding screen intensive applications:

only £129.99 UK Spec

GOLDSTAR REMOTE

control TV/monitor

superior to a standard TV set with full remote control

now only £179.99

SPECIAL OFFERS ON ACCESSORIES WHEN BOUGHT WITH A MONITOR!! TILT & SWIVEL STANDS......£11.99 14" MONITOR COVERS......£5.99

SUPRA MODEMS



The New super fast Supra-Fax Modem

V.32 bis (14400 baud !!!)

Allows you to send and receive fax messages. This new modern from Supra has full 14400 baud capability. Spec includes V.32bis, V.32, V.22bis, V22, V21, MNP4-5, V.42, V42bis, Class I & 2 commands, 9600/14400 Group 3 Fax. Includes

only £259.99!!! Supra Fax Plus (up to 9600 BPS)

With the ability to send faxes! and even faster than the standard 2400 from Supra with auto dial and auto receive. 9600 bps Hayes compatible. V22, V42 Bls, MNP 5 and auto adjusting facility to maximise transmission speeds. Spec Includes free modern cable and comms software!!

now only £139.99 **Supra 2400**

with auto dial and auto receive. 2400 baud Hayes compatible, V22 BIS. Includes modem cable and comms software!!

only £79.99

All Supra Modems come with a 5 year warranty!!

As official dealers for Rombo, we are now able to offer this excellent package at a great price. The Complete Colour Solution comes with RGB Splitter, Vidi ST, Vidi Chrome and Power supply

> now only £119.99 **VIDI-ST**

High quality digitizing. Inc Vidi chrome colourising

only £79.99 RGB SPLITTER

Enables you to Colour Digitizein a second. Replaces red green blue filter set. Can be used with all Rombo products

only £54.99

HARD DRIVES

As authorised dealers for PROTAR we can offer these high performance drives at truly realistic prices

These drives are autobooting, high spec, fast access and <u>VERY QUIET.</u> The DC range come with a 64k disk cache as standard that can reduce disk accessing time by 50% Standard warranty I year, The DC range comes with 2 years

Progate 40.....28ms only £289.99

Progate 50DC...19ms only £339.99

Progate 80.....28ms

only £419.99

Progate 105DC..16ms

only £469.99

Progate 120DC..16ms only £589.99

Progate 240DC..15ms

only £919.99

Progate 440DC.15ms

only £1389.99

Progate 500DC..15ms only £1589.99

BARE HARD DRIVES AVAIL-ABLE FOR UPGRADES....£POA

EMULATORS

Vortex ATonce 386SX only £299.99 PC Speed 8Mhz PC/XT only £95.99 8Mhz AT SPEED only £149.99

16Mhz AT SPEED only £224.99

Fitting service available and full repair service on all **Atari Product!!**

THE POWER SCANNER

sofware. With bright and sharp grey scale performance and flexible scanned image display manipulation options. Options include Clean up, embolden, resize and flip. Recommended

only £94.99

MICE & TRACKERBALLS

NAKSHA MOUSE with Operation Stealth, mouse mat, holder and 2 year warranty, 290 DPI.

only £24.99

GENIOUS Happy mouse inc mouse mat. Same quality as the Naksha mouse.

only £19.99

GOLDEN IMAGE Brush mouse with

Deluxe paint ST. New concept in mice. Held in a

only £24.99 **GOLDEN IMAGE OPTICAL MOUSE**

High quality 3 button mouse with full optical mechanism

only £29.99

Zvdec Trackerball..£29.99

DISK DRIVES

Zydec 3.5" **ExternalDrive**

I meg external drive, high quality low noise drive.. Inc PSU

only £49.99

GOLDEN IMAGE Tracker drive with built in LED track display

only £54.99

RAM **EXPANSIONS**

where the quality counts

The Deluxe range of RAM expansions by Frontier for the older STFM must be the best available on the Atari. Expandable to 4 Mb by the use of I*8/ 9 SIMMS modules, the 512k expansion is ideal for the user who may need more RAM later on.

> STFM Deluxe SIMMS modules

4 Mb unpopulated.... 4 Mb populated to 5 | 2k.....£64.99 4 Mb populated to 2 Mb.....£97.99 4 Mb populated to 4 Mb....£157. Frontier offer a seven day money back guarantee provided the product is

First STERAM

still in as new condition. All Frontier

products come

expansion:

512K.....£14.99

First STE RAM products comes with a full 2 year guarrantee

ACCESSORIES SOFTWAR

The Zy-Fi Stereo System

This is a powerful speaker system with built in stereo amplifier. It will plug into an Atari STE, Commodore Amiga or Acorn Archimedes. The speakers are optimised with reflex ported cabinets. Complete with its own power supply the Zy-Fi system can also be powered by batteries

only £38.99

THE POWER RIPPER CARTRIDGE

The ultimate cartridge for the Arari ST. Essential tool for programmers and game players alike. gives you the Ability to rip into any Atari program on the market

only £23.99

RAM CHIPS

I MEG by 8/9 SIMM boards as used in the Atari

only £22.99 (per Mb)

FORGET ME CLOCK 2

only £17.99

Atari ST **Power Supplies** only £39.99

Atari Internal Drives only £49.99

Monitor Switcher Box (switches between mono & colour monitors, such as SM 144 & 8833 MK2).....only £17.99 Mouse/joystick switcher (put joystick and mouse into one port)..only £13.99
Video Scart Switch.....only £19.99 2 way Parallel port sharer box with Joystick and mouse double extension QUALITY MOUSE MATS..... ..£3.99 25 CAPACITY DISK BOX.. .£2.99 40 CAPLOCKABLE DISK BOX. £4.99 100 CAP LOCKABLE DISK BOX.. £6.99 90 CAP STACKABLE BANX BOX......£8.99 150 CAP STACKABLE POSSO... ..£16.99 ATARI520 DUST COVER..... ...£3.99 PRINTER COVERS... .from £4.99 14" MONITOR DUSTCOVER... .£6.99 12" MONITOR DUSTCOVER... £5.99 ST TO SCART CABLES..... STD 1.8 METRE PRINTER STAND..£4.99 MODEM & NULL MODEM CABLES..£9.99 2 WAY Parallel port sharer....

All our 3.5" disks are GUARANTEED FOR A LIFETIME and are CERTIFIED 100% ERROR FREE double sided, double density disks are high quality magnetic media and are extensively used by duplicating house

QTY	3.5" Bulk	OR	TDK
	DUIK		BRANDED
10	£4.49.		£5.99
30	£13.99.		£16.99
50	£20.99.		£26.99
100	£37.99.		£52.99
200	£69.99.		£99.99
500	£164.99	•••••	£189.99
1000	£319.99		£POA
Т	OK Branded	disks	come

complete with labels
Disk Labels...500...now only £6.99
Disk Labels...1000....now only £9.99

Probably the best word publisher on the market for the ST. Includes many features not found in more expensive DTP packages. The Gold version also comes with powerful text manipulation, formula editor and even a grammar checker.

Calligrapher Pro.....only £74.99
Calligrapher Gold....only £105.99

Protext 4.3

Fast, flexible and reliable, this is the best sub £100 WYSIWYG word processor for the ST. Wide range of printer drivers, columns and box mode and spell check as you type. With mail merge, Help, English dictionary and lightning fast operation, Protext is the one!

only £39.99 **PAGESTREAM VERSION 2.2**

A powerful DTP package. This is the very latest version which includes 10 compugraphic fonts, spell checker, comprehensive text manipulation and effects and much more

only £139.99 UK Spec **TIMEWORKS 2 PUBLISHER**

The successor to the popular Timeworks ST this new version boasts over 40 new significant features.

now only £82.99

First word Plus v3.2	nly £29.99
Thats Write V.2	
Write On word publisher.	£44.99
Protext Version 5.53 W/P.	

VIDEO AND GRAPHICS

Deluxe	Paint ST i	nc mouse	£24.99
Flexi Du	ımp Plus.		£31.99
HYPER	Draw		£9.99
HYPER	Paint		£9.99

PROGRAMMING

Devpac 3 ST	£POA
GFA Basic Interpreter V3.5	
GFA Basic Compiler V3.5	
STOS 3D	
STOS Interpretor	
STOS Compiler	

MUSIC/SOUND

£29.99
£24.99
£49.99
£47.99
£109.99
£66.99
£39.99
£29.99

BUSINESS

Home Accounts 2	E3/.77
K Spread 3	£59.99
Prodata Database	
SBA Cash	
System 3 Accounts	

UTILITIES **DIAMOND BACK 2** by Hisoft

The ultimate backup utility for the Atari. Essential for users of hard drives. Recently reviewed in ST Format (August) and awarded GOLD status (92%)

only £34.99

Neodesk 3	Desktop	£34.99
	t£	

ELVIRA 2

Blood, rotting corpses, hairy spiders, pureed brains and multiple stab-wounds. Andy Lowe hides behind the sofa and drools admiringly

THE JAWS OF CERBERUS

SOFTWARE HOUSE: ACCOLADE PRICE: £29.99

escribed as "the gal who put the boob back in boob tube," Elvira – she of the vampirical gait and bottomless cleavage – is back. Except she isn't – she's been abducted by Cerberus, a mythical, multi-headed canine who guards the hellish underworld. What Cerberus plans to do to her exactly is unclear, but they don't sell netherworld entity-sized doggy treats down at Sainsbury's and so it's up to you, her "clueless dodo-brain of a boyfriend" to brave an alarming variety of depraved and distinctly undead creatures in an effort to bring her back from the brink.

Disembodied gherkins

You start outside Elvira's very own Black Widow Film Studios where – apart from the place being curiously over-run with disembodied beings – something is drastically



■ This cheery little fella guards a room which contains some vital clues and information.

Take Elvira's advice literally here.

wrong. For a start, the security guard's been careless enough to batter himself to death and stash himself away in a store cupboard. Inside the studios, things begin to take an even more ominous turn with an abundance of posters which advertise films with titles like Return Of The Killer Gherkin 2 and Scream, Scream And Scream Again. Virtually anything which is not nailed down can be nabbed and scrutinised, although many of the objects are purely destined for the spell-book and have no real practical purpose.

The format is the familiar 3D perspective, with a point-and-click interface which enables you to poke around and achieve at least a terse description of all the objects in your immediate game area. The control method is natural and easy to use – to add objects to the inventory merely point and drag them towards the appropriate window. When you snoop around the studios – in Stunt Man, Private Eye, Computer Programmer or Knife Thrower guise – you slowly begin to piece together an ordered plan of action as you realise certain areas are strictly out of bounds until you've built up your experience and magical ability level.



■ "Oh my God! This is, like, a seriously depressing part of my life. I mean - kidnapped by a multi-headed dog-beast from hell. Jeez, could someone open the windows in here!"

WHAT A WAY TO GO

Elvira 2 contains a wonderful variety of wretched and disgusting ways to die. Here are a few possibilities, complete with some veiled hints as to how to deal with the scum who inflict them



I A nasty, rotting piece of work under the stairs inflicts this one on you. Be careful when you encounter him - he's fast and annoyingly accurate. A cortain spell can knock him off.



"Well, fangs very much!" Haw haw haw. Bela Lugosi's not dead, after all. Er, you need a tuning fork to defeat the vampire. Illogical.



"Off with his head!" And off, indeed, it comes. When you're exploring the area under the church, watch out for the skeleton with the ruddy great axe and the attitude problem.



■ Watch out for the Yeti in the boiler room or you could end up in the deep-freeze. Frozen stiff, indeed. He's cold, calculating and in need of a good ball of flame to warm him up.

HOW TO MAKE A TRASHY HORROR FLICK

- 1. Copious amounts of blood. Preferably and obviously fake.
- 2. Badly-lit sets.
- 3. Appalling acting.
- 4. A strange noise or smell coming from an isolated area, which someone dumb enough to be dispensable to the plot checks out only to be horribly

and predictably dismembered.

5. An unwilling but – when it comes down to it – quick-witted and resourceful hero.

6. Some pretentious coffeetable psychology along the lines of "Who's the more evil, the murderer or the scriptwriter?"

7. Dead people – lots of 'em,

brought to you via many and varied degrees of brutality.

8. A straight-to-video release. Instant suspicion. A video-only release occurs because the film is so bad, no vaguely sane film distributor wants to touch it.

9. A love interest. Killed off as quickly as possible to indicate

the ruthlessness of the killer.

10. A twist. The murderer turns out to be the least likely, most innocuous member of the cast who, it turns out, bears a hidden grudge. The guy who delivers the milk in the first few seconds of the film is as good a suspect as any of them.

■ This quite inoffensivelooking dude is actually the key to the whole business... so be polite to him, he's a bit touchy. This isn't Monkey Island, you know.





If you go down to the catacombs today, you may find your blood gets sucked from your body by a giant maggot. Don't you wish you'd stayed at home now?

FORMAT

NOVEMBER

Formidable weapon

You also encounter plenty of vicious and beweaponed creatures. You can't simply dispatch them by hacking away with the potato-peeler on your penknife which is dumped into your inventory by default at the beginning of the game. In fact,

you achieve very little until you begin to decipher some of the ingredient clues in your spell-book, mix some of the spells, get some decent protective clothing together and avail yourself of a reasonably for-midable weapon. Elvira pops up occasionally to interject some innuendo-soaked comment. Do listen to her – beneath the double entendres and kooky, touch-me-not teasing, she does actually offer some decent cryptic advice.

The basic geography consists of the film studios – offices, lifts, corridors – and three horror movies sets which you can explore with the help of an extremely heavy suspension of disbelief. You can't cover yourself with bedclothes here – vampires really

do suck your blood, zombies really do rip your throat out – but it's only a game, innit?

VERDICT

Elvira 2 is packed with puzzles and the gamearea is huge – with seven disks to juggle, you'd expect it to be. A fabulously

squalid, genuinely grotesque little number which plays like a

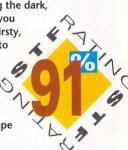
deluxe, new-improved version of the original Elvira game. It's also a committed affair – you have to think about what you're doing. This game is incredibly easy to slag off because of all the disks, but when you strip away the rotting flesh and

delve into the steaming innards of the game itself you find that *Elvira 2* is intensely enjoyable, indeed.

Criticisms amount to only a few minor niggles – it's not hard-drive installable and there are too many damned copy-protection checks – but the combat sequences are wonderful and every adversary demands a different approach. To solve the game you have to

find the right ingredients for the spells and then use them in the correct situation – some spells are combat-specific, while others remove obstacles and aid progress. The whole thing is cleverly balanced and extremely satisfying to plough through. Elvira 2 is very gory in places and if you're at all faint-hearted – or go a funny colour at the sight of large amounts of blood and guts – you're advised to remain a good distance from the screen when exploring the more mysterious areas – there are plenty of mortal shocks lurking among the dark,

webby niches. But if you feel at all bloodthirsty, then you are going to enjoy this – play late at night with the lights turned off, slap on the BBC death and horror sound-effects tape and indulge yourself.



BY ANDY LOWE

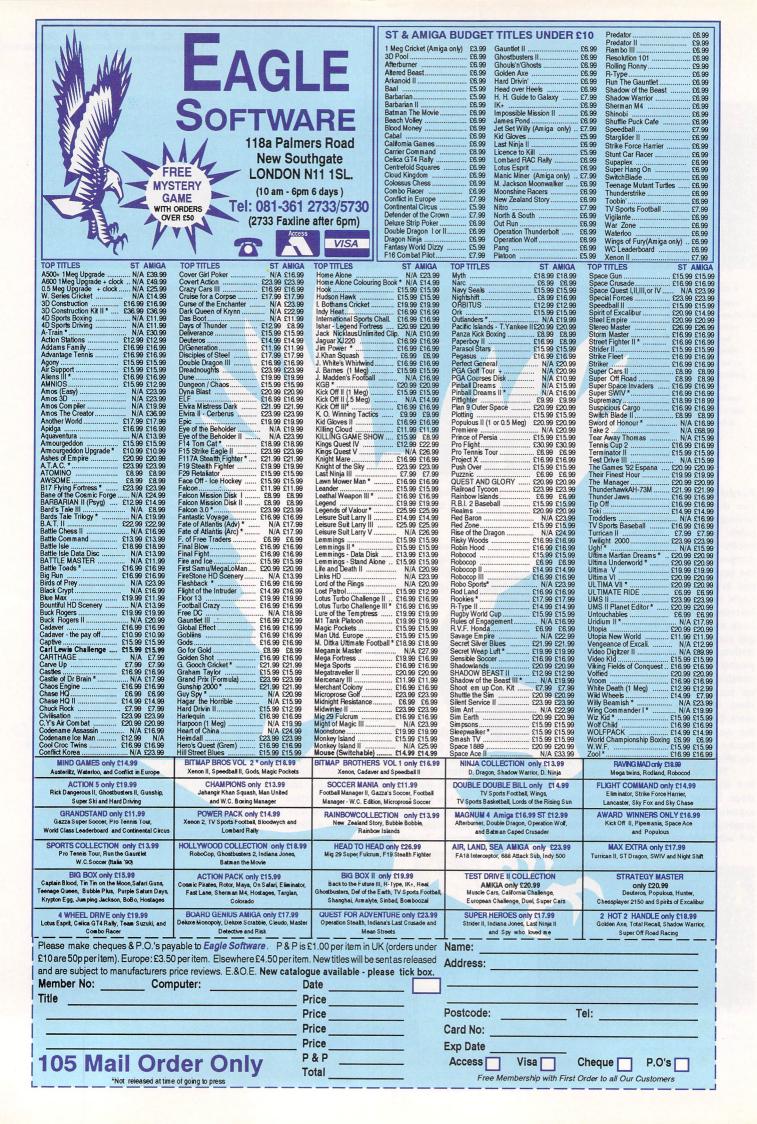


■ A foul witch meets a bloody end as a victim of your, er, penknife. There's something gratuitously gory about *Elvira 2*.



DON'T BLEAT, CHEAT

- Don't get too curious about the serving hatch in the dining room... unless you have the gas curling-iron. It does make sense, honestly!
- Beware the costume room.
- Don't eat the cheese you need it for a spell.
- Think geometrically about
- how to use the candelabras.
- Get round the you-can't-carryany-more problem by mixing your spells as soon as possible. Also, create a stash for yourself by dumping objects in the entrance hall of the haunted house.
- Your dress-sense is important in combat. Choose your clothes well.



Bela Lugosi's house, a suitable gothic mansion. Some of the graphics are excellent and suitably dark and moody. It looks like something straight out of a cliched horror film - er, probably because it is something straight out of clichéd horror film.





■ No self-respecting adventure is complete without the imprisonment scene. Here you talk to the local constabulary who appears to be worried about his childrens' upkeep - wonder what he wants?

PLAN9

If You can watch the reels of film as you find them, in all its digitised awfulness. If that's not enough, the game comes complete with the video and, of course, you just have to watch it.

FROM OUTER SPACE

Zombies, flying saucers, incredibly stupid policemen and kidnapped girlfriends – it's all too silly for words. Cue the ST game of the film where the best bit is the title

"I had that bloke in the back of my cab onceyou know, him that appears in them awful horror films. Can't stand him myself, but the wife likes him for some reason." Once you manage to find an address, all you have to do is jump in the thoughtfully provided cab - it's all free, too - what a bargain. SOFTWARE HOUSE: GREMLIN

PRICE: £34.99

here comes a point where a film is so bad that it crosses the threshold and becomes strangely good in a sort of cringingly embarrassing way. Plan 9 from Outer Space is hailed as one of the worst films ever made. Featuring a million continuity errors, actors with woodworm and a script with all the flair of a dead slug. An obvious candidate for a game licence. Er, really?

Fortunately you're not involved in the film's shambling plot. No, you are hired by its producer to recover six reels of the film which have been lost. When you find a reel you can watch it at one of the projection booths that are scattered about – your questionable reward for this discovery is to see a small digitised clip from the original film. Cue a fairly ordinary point-and-click adventure as you bumble around locations collect-



■ He's dead, and you can be sure of one thing - someone is responsible. And if you're not impressed with the humour, originality, perception or intelligence of that line, you should hear the rest of the film.

ing and distributing objects. The screen features the now customary graphics window, the inventory list of obscurely useful objects and the available commands to click on.

Although there are a fair number of locations to visit - the game even spans continents - progress is linear and annoyingly constrictive at times. You need to click on some tiny graphic to get a clue to the next section. If you don't, you are frustratingly powerless and have to backtrack to find the bit you missed. Some of the puzzles are not in the land of the logical. You come across some nasty vampire bats in a cave just off the Copacabana beach which suck you dry. The solution is not to chew whole garlic bulbs, don a vampire outfit or drink pints of dragon's blood - or anything like that. What you have to do - and get this - is to take a picture of Bella Lugosi into the cave so the bats swoop on that instead.

Plan 9 isn't set in a believable game world, or even in a believable B-movie, although there are some neat B-movie touches. Two of the characters play nearly all the bit-parts, one character's moustache starts to fall off and the accents are all terrible. The humour ranges from the groan-inducing upwards, although it never hits really funny.

Verdict

The graphics are detailed and have the odd spot of interest-adding animation making it a good-looking jaunt. The disappointing part is the adventure element—with obscure puzzles and fairly linear progression, it soon turns into a battle with the programmer's imagination in one puzzle after another. If you miss something, it's likely to turn into frustration city. It's a game that either grips you as you battle determinedly on

to the next scene, or that makes you feel like wrenching the disks from the drive and stamping on them – be warned.

BY CHRIS LLOYD

WHAT DOES IT HAVE TO DO WITH BELA LUGOSI?

Plan 9 features Bela Lugosi footage originally destined for another film. To get round the fact that Lugosi had died and that that footage was all that was available, another actor filled in. He was about

a foot taller than Lugosi and he held a cloak over his face all the time. The action switches between the two in the same scenes, both lit completely differently. Cringe material or what?

ESPANA-THE GAMES

So, staggering rather limply into the spotlight - in the wake of the Olympics -**Andy Lowe** presents Ocean's attempt to simulate the stress and strain of competing in games at international level in over 30 events

The event-selection screen. Available are Track and Field, Swimming and Diving, Boxing, Wrestling, Judo and Fencing or a return to DOS icon. No prizes for guessing which one to choose.



192

SOFTWARE HOUSE: OCEAN

PRICE: £29.99

Although the Barcelona games are now a dim memory, Ocean feel that the enduring, cosmopolitan appeal of the event will linger sufficiently to fuel interest in *The Games* – a simulation which attempts to spread the variety of events thinly enough to appeal to the desire for realism over joystick-waggling arcade action.

Stripping away all the graphically distracting packaging, the game consists of three inter-connecting chunks. The Action section enables you to control a selected athlete via keyboard, joystick or mouse. Admittedly, there's a bit of waggling to be done here – you actually have to time your movements to synchronise with the athlete's. So, when the athlete's left foot is on the ground, waggle left – and so on.

The Management section is the training bit. Here you deal with such niceties as athlete fitness, training programmes and work-out schedules. Also available is a Reference section – which is a database containing info about those exciting past Olympic achievements, a bit like the things they had on the back of cereal packets just before the games began this year.

VERDICT

Espana – The Games '92 has a lot of problems. Apart from that ching of the till conjured up by the title, it's badly balanced and takes a hell of an effort to get anything out of. On top of this, all the events are crap. Take the pole vault – your athlete jerkily body-pops up to the frame – whereupon you must press the Spacebar for him to plant his rod in a spot on the ground. Then you sit and watch

as he flips over, clearing the bar by miles and then falls off. It's as if the only criteria the program is looking for is

that you've pressed the Spacebar at the precise moment – regardless of how close you are to the bar.

Although *The Games* does hold some merit for what it attempts to do – it's a shame it does it so badly – with barely average graphics, sluggish action and the feeling that you're never in control of everything. Don't bother.



■ The boxing is the best event, which doesn't say very much. The intricacies here mean you have to move your boxer left and right and just keep punching rather arbitrarily.

UNNATURAL SELECTION

When you've had enough of lurking in the medical centre you can always try playing the game. Here are some of the options



FOOTBALL TACTICIAN

Widely accepted as the most accurate football simulation available, **FOOTBALL TACTICIAN 2** now offers even more powerful facilities which set it in a class of its own. New features include:

set it in a class of its own. New features include:

* Multi-user capability now increased to 46, with new rating system reflecting ability and results.

* FA Premier League and Division One permanently in memory with full interaction, promotions, transfers, play-offs, local and European Cups.

* 900 players accurately and meticulously named, with real ages, aptitudes, skills and market valuations. In addition, all European players are also accurately defined.

are also accurately defined.

* All 88 league referees included with true-to-life behaviour.

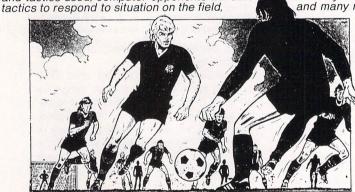
* Built-in intuitive team editor, capable of entering new players and fine-

tuning up to 32 parameters.

* Unique player data link giving access to additional, accurate, historical information on selected players. This feature may be further enhanced

when substitutions should be made, play the pressure is tough, decide exactly when substitutions should be made, play the match results is no ordinary soccer manager. THIS is the REAL THING. You're in change. You manage your side before and during the match.

Nothing is left to chance. Can you rise to the challenge? If you had a computer opponents based on player fitness, fatigue and treating the many features: intelligent computer behaviour, lively transfer market, ability to replay ANY match of the week with full commentary, three levels of commentary from highlights only to every single ball challenge with all players named, top scorers chart, friendlies, speed control, selectable positions, automatic and intelligent substitutions by computer opponents based on player fitness, fatigue and tactics used; computer opponents will auto matically change and many more!



TER VALUE! With its built-in

team editor which itself is a program in its own right, and two divisions now in memory at all times, Football Tactician 2 is outstanding value. Furthermore, registered users may order the very latest version of FT2, for just £3.50 (program AND data disks) as often as they like!

NO GAME IS MORE UP-TO-DATE: FT2 is updated weekly. Transfers, bids, injuries are updated as they happen. If your football game still lists Des Walker at Nottingham Forest or Paul Stewart at Spurs, then it isn't Football Tactician! Football Tactician!

Please rush 1 copy of FOOTBALL TACTICIAN 2 (one meg required)

£22.95 🗆

FOOTBALL TACTICIAN 1 (half-meg machines) Upgrade from FT1 to FT2 (my reg number is

£16.95 🗆 £6.95 □

I own an AMIGA A500/A500+/A600 □

ATARI ST/STE

Name Address

My Visa number is I enclose cheque for .. Visa or Access orders: same-day dispatch. Overseas please add £1 p&p

TALKING BIRDS 0702 523607

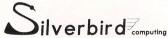
5 Minster Close Rayleigh Essex SS6 8SF

ST KEYBOARD OVERLAYS

...now you can write the keyboard commands on the keyboard! ...no more referring to the manual for which key does what



Get one for each of your favourite programs and speed up the human interface - brilliant for flight and other simulators, and for games, music, graphics, DTP, word processors, programmers & all



Cheques and money orders only to Silverbird, (Dept S11) 47 Barton Road, Harlington, Bedfordshire, LU5 6LG, England. For all ST's including the Π Sold in packs of five for \$5.20 PLUS post and packing: UK \$0.80, Europe & BFPO \$1.50, Rest of the World \$2.50.

UPGRADES and

Any 520 STFM upgraded

Upgradable ½Mb board for ST, STF, STM, STFM......£51.00

Includes fitting and warranty. Return delivery £5.00

XTRA RAM DELUXE

Populated 4Mb.....£137.99 Fitting service available for only £10.00. Return delivery £5.00

Includes comprehensive fitting instructions, test disk and delivery

REPAIRS

AT AFFORDABLE PRICES. FREE WRITTEN QUOTATIONS. DISCOUNTS ON REPAIRS IF ACCOMPANIED WITH AN UPGRADE.

THE UPGRADE SHOP

37 CROSSALL STREET, MACCLESFIELD CHESHIRE SK11 6QF. TEL 0625 503448 9am to 6pm Mon to Sat. Please ring before you bring.

SUPPORT LINE 6.30pm to 8.00pm Mon to Fri SAME DAY SERVICE ON SATURDAYS

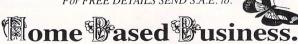
ALL PRICES SHOWN ARE WHAT YOU PAY. PLEASE MAKE CHEQUES PAYABLE TO THE UPGRADE SHOP. ALL PARTS ARE THOROUGHLY TESTED BEFORE DISPATCH

MAKE YOUR ST EA

Yes making money with your ST becomes incidental when you know how! Your ST is, if only you knew it, a gold mine. The size and make is irrelevant. Make the initial effort NOW by starting your own HOME BASED BUSINESS

This may be the most important move you will ever make! REMEMBER: You'll never get rich by digging someone else's "ditch". Anyone in the country, including YOU, can become very rich in a relatively short period of time just by doing a few basic things! It's more rewarding than playing games.

The benefits are many and varied. Full or part time. For FREE DETAILS SEND S.A.E. to:



31 Pilton Place, King and Queen Street, STF40 Walworth, London SE17 1DR.

lavelin

■ "Look, Graham - I can't do things this way. I'm a professional." Carl displays some prethrow nerves before the highly competitive

GARL GHALLENGE

Remember the old Monty Python sketch with the TV announcer -"...and for those of you who don't like sport, there's sport."? Well, for those of you who don't like sports sims, here's a sports sim. **Andy Lowe** provides the Colemanballs...



Look, I just can't keep up with all this jigging around - new moves, fancy footwork, arm waving... it's just not on.

SOFTWARE HOUSE: PSYGNOSIS PRICE: £25.99

nce upon a time - 1984 to be reasonably precise - a series of arcade games appeared in which, instead of the usual light-speed reflexes and itchy trigger-finger, you had to crouch over the console and bash the hell out of the buttons. The faster you bashed, the better score you achieved. The games were Hyper Olympics and Hyper Sports and the general idea was to render you so knackered after playing that you'd get a pretty good feel how an athlete felt after a real race.

The Carl Lewis Challenge doesn't exactly shadow any boundaries of originality or direction.

The big problem with these games was that, while you had no qualms about toddling off down to the local chippy to beat a tatty arcade game to a pulp, the machine you had at home was yours - it was precious and you'd paid for it. Besides, if anyone else so much as looked at it, they were dead. As a



"...and it's Carl Lewis - or his Polish counterpart who looks strangely identical to him - coming up on the outside. Doesn't look like he's going to win though, does it?"



■ The rather dull training section where you gain the dubious pleasure of overseeing the athletes' training programmes and get confronted by lots of numbers and names and things. Looks exciting, don't you think?

result, this kind of thing didn't do very well on home computers.

With Psygnosis' The Carl Lewis Challenge, it doesn't look as though things are going to change. Sports sims adhere to the ancient cliché that when they're good, they're OK and when they're bad, they're appalling... This just about qualifies for the "almost-OK... ish... with a hint of hmmm, not particularly gripping, is it?" category.

But why him?

As you probably know, Carl Lewis is a relatively famous US athlete who, unaided by any artificial stimulants, manages to jump a lot further than anyone else in the world.

He's also a bit handy at running, too. Unfortunately, although he seems to have heavily endorsed the game on the surface, when you actually study the documentation, his approval doesn't actually amount to much. There are plenty of photos of his good self doing athletic things and a flimsy leaflet entitled "Carl's Training Advice" - relevant only to the dull and instantly forgettable training option. Of course, if you really fancy the idea of the simulated training of a country's squad - taking into account such

physiological technicalities as isometrics – muscular tension without movement – and isotonics – those drinks which improve your energy – then the training section is precisely what you want and you won't be able to leave it alone. But that's unlikely.

Your best bet is to turn to the arcade section, which features five events divided



■ The country selection screen. To prove we're all mightily in touch with all the maestros of international athletics, we've chosen the delightful country of Poland.

into a series of heats leading up to the finals where you could win a medal if you shake your mouse fast enough. Here, you see, you can indulge in a bit of frenetic mouse-waggling to give your athlete speed and power and to give your mates the opportunity to laugh at you as you frantically slide your mouse back and forth over a helpless mouse mat.

There are two ways in which you can control your mouse. Speed – which means the quicker you waggle the mouse, the quicker your athlete moves – or the, er, "rhythm method" – vibrate the hell out of the right button and use the left button for "action" – jumping and throwing. Alternatively, you may wish to use a joystick – in which case you can revert to the old faithful wiggling and break the joystick in seconds. Alternatively, you can select the "gearing" option, where the Fire button is the move-

ment command and the up direction on the joystick controls throwing and jumping.

VERDICT

Apart from the cleverly digitised, animated graphics, there's nothing remotely new or exciting here. The Carl Lewis Challenge is a passable attempt at a sports sim which doesn't exactly shadow any boundaries of originality or direction. The endorsement means the events are unvaried and are precisely the same as those that were used in the old Hyper Olympics – which wisely stuck to arcade action and avoided any efforts to include a skippable strategy category.

Do yourself a big favour and get the more original, much more playable and criminally under-rated International Sports Challenge from Empire instead.



■ You know the phrase "You're for the high jump, you are"? What the hell does it mean? Have you ever seen it explained on the back of a crisp packet? That's where you find the most important bits of life information.



■ Carl Lewis is extremely good at the long jump. He has a gold medal in the event. Pity, then, to put him at the mercy of an inept games reviewer who can't do better than three metres.



ATARI REPAIRS JUST £49.95 inc.



- ★ Atari registered
- ★ Over 10 years experience with Atari computers
- ★ Up to 20 qualified technician engineers at your disposal
- ★ We will undertake to repair or service check your Atari 520 ST (FM) computer for just £49.95 including parts, labour, VAT and post & packing
- ★ Some computers may be repaired within 24 hours of booking in.
- ★ Prices include full service check, overhaul, soak-test and replacement of power supply unit if necessary
- ★ Repairs to keyboard and disk drive also included (£25 extra if these units are unrepairable and require complete replacements)
- ★ All repairs covered by a 90 day warranty



Upgrade the operating of your Atari 520 ST (FM) to that of the more advanced Mega ST computers.

It can supply and fit the TOS 1.4 operating system to your computer increasing its overall performance by approximately 20% and disk accessing speed by 30%. Also gives MSDOS data compatibility

SPECIAL EXCLUSIVE OFFER:

All this can be yours if you submit your computer to ourselves for repair, enclosing this advert along with just an additional £25.00 we will supply and fit TOS 1.4 operating system at no extra cost!

How to take advantage of this exceptional offer: simply send or hand deliver your machine to the workshop address detailed right, enclosing payment and this advert, and we will do the rest. (Important, please include a daytime telephone number and fault description).

* If you require 24 hour courier to your door, please add £5 else your computer will be sent back by contract parcel post.

WTS ELECTRONICS LTD

STUDIO MASTER HOUSE CHAUL END LANE LUTON, BEDS, LU4 8EZ Telephone (0582) 491949 - (4 lines)

WTS reserve the right to refuse machines that in their opinion are beyond reasonable repair.

CASTLES

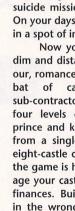
An Englishman's home is his castle, but when was the last time yours was attacked by a gang of rampaging Celts? This game taxes your brain while you tax the peasants



I Sir Richie is a paranoic's worst nightmare - he tells you what everyone thinks about you and then clears off. leaving Mr Nagging Doubt to do his



I There's none of that do-itvourself lark in the 13th Century - just hire a few plebs and then sit back and take in the scenery as your dream home begins to take shape





■ Plop Pants was a hopeless King, renowned for wearing ermine undergarments and savaging chicken legs with his teeth. He did like his hymns, though.



selection of round or square towers, walls and gates. Click on the appropriate boxes to select arrow slits and cauldrons. You dig the moat with the military option.

SOFTWARE HOUSE: ELECTRONIC ARTS PRICE: £25.99

ou're running out of room in your old two-up, two-down and decide to get an extension. So you get planning permission, re-mortgage your house, get some builders in - who do nothing but drink tea and leer at your womenfolk - and then you have to throw an extension-warming party. Yawn, yawn, yawn.

It was all so much simpler in the 13th Century. All you had to do then was to design your castle, hire loads of bods to do the hard graft and then defend it from Celtic suicide missions and treacherous noblemen. On your days off you could even get involved in a spot of invading.

Now you can delve back into Albion's dim and distant past and recreate the glamour, romance and bloody hand-to-hand combat of castle-building. And nary a sub-contractor's mate in sight. There are four levels of difficulty - peasant, duke, prince and king - and you can choose from a single-castle, three-castle or eight-castle campaign. The key to the game is how well you manage your castle's design and finances. Build the castle in the wrong place or in



II Position your archers on the wall and your soldiers down by the moat. To fire on the approaching curs just click on one of the good guys, then choose your target.



I It's important to get the right mix of skilled and unskilled workers. Choose too many labourers or too few masons and the castle walls take ages to build. No work is done during the winter months.

the wrong way and it soon collapses. Similarly, if you over-tax the peasants you become unpopular and they rebel against you. You also have to ensure that the cupboards in your castle are kept full of food in case of a siege - and that your army is well-trained.

Castles is controlled by using either the mouse or the joystick - you have to browse through a selection of menu options. You click on up and down arrows to increase or decrease the number of labourers, for example, but, because the arrows are so small, it's all too easy to click on the wrong one. The sprites aren't particularly well-drawn - in the battle scenes it can be difficult to select a target for the archers to aim at. The flip option - where you view the castle from one of two possible angles - is limited and often the bit of the castle you need to see disappears off the screen. What the games needs is a either a zoom mode or more flip options.

The manual is good and pretty humorous, although the banter between Sir Richard and Alain in the Guide to Castle-Building can detract from what they're actually trying to communicate.

Verdict

Once you've sussed out the tricky control system and mastered the perils of castle-building and design, you're likely get rather bored - there's a lot of disk-accessing and, especially during the final stages of building, you can just

find yourself staring blankly into space while your ST does its own thing. The battle scenes are too piddly for you to get to grips with and you can even defeat the enemy without doing a thing. It's a shame you don't get the opportunity to besiege other castles either you are always the victim, never the aggressor. Castles promised much, but in the end delivered little.

ROB MEAD

SILICA ROM

When you buy your new Atari 520, 1040 or Mega ST-E computer from Silica Systems, we will give ASTERIX you an additional 5224/75 worth of software FREE CHESS PLAYER 2150 OF CHARGE, including some great entertainment parivin' FORCE and productivity programs. These free gifts will introduce you to the world of ST computing and OSLAUGHT introduce you to get off to a flying start with your new ST. PIPE MANIA Plus, with every ST and TT, we will give you 16 RiCK DANGEROUS nights holiday hotel accommodation for you and your family to enjoy a break at home or abroad.

16 NIGHTS HOLIDAY HOTEL ACCOMMODATION

a free 72 page colour brounds a free 72 page colour brounds stay up to a total of 16 nights in any of 250 hotels with accommodation FREE. All you hotels with accommodation free free pay for are your meals (prices are

WORTH

HARDWARE: 520ST-E COMPUTER 8MHz 16-Bit 68000 CPU, 512K RAM, Mo TV Modivilator, Internal PSU, 1Mb Drive

NINE LIVES

Claudette from the mad scientist

PLUS! FREE FROM SILICA:

PLUS! 16 NIGHTS HOLIDAY ACCOMM

299

SOFTWARE - ENTERTAINMENT: ESCAPE FROM ROBOT MONSTERS .. Fight to destroy the robot army FINAL FLIGHT Fast action beat-em-up game

SOFTWARE - PRODUCTIVITY:
CONTROL ACCESSORIES
VS2 EMULATOR PROCESSOR
ST TOUR GEM tutorial for the ST
FIRST BASIC Basic programming language
NEOCHROME Powerful drawing package .

ASTERIX	£24.99
CHESS PLAYER 2150	£24.95
DRIVIN' FORCE	£19.95
LIVE AND LET DIE	£19.99
ONSLAUGHT	
PIPE MANIA	
RICK DANGEROUS	£24.99
ROCK 'N' ROLL	
SKWEEK	
TRIVIAL PURSUIT	£19.95

520ST

PRODUCTIVITY PACK: 1st WORD SPELL IT £19.99

£24.99 TOTAL VALUE: £324.75

1040ST-E

FAMILY CURRICULUM

HARDWARE:

SOFTWARE MODULES:

JUNIOR SCHOOL LEAVER Spelling and Primary Maths
GCSE

BUSINESSST Word, ST Base & ST Calc

PLUS! FREE FROM SILICA:

Silica Productivity Pack TenStar Games Pack ...

1040ST-E COMPUTER 8MHz 16-Bit 68000 CPU, 1Mb RAM, Mouse, T V Modulator, Internal PSU, 1Mb Disk Drive

Micro Maths, French, and Geography Quiz

PLUS! 16 NIGHTS
HOLIDAY ACCOMM

Total Value: £1210.23
Less Pack Saving: £861.23
SILICA PRIOF

£76.59

£55.54

£159.85

£134.97

XTRA

£299.99

£19 99

£25.99

£24.99

£29.95

FREE FREE £4.99 £49.99 £49.99

£551.63

Total Value: £830.63

SILICA PRICE: £279.00

Less Pack Saving:

GCSE

RETURN THE COUPON FOR A FREE COLOUR ST BROCHURE

ENTERTAINMENT!

MUSIC

MUSIC MASTER

1040ST-E

MASTER

he Music Master Pack features one of the most populi sed by musicians combined with the renowned MIDI p ed by musicians combined with the renowed MIDI par III to provide a perfect environment for novice and re. Re. The acclaimed MIDI Recording and Editing Sy bindery BPO 24 III is used by many tor musicians in raits and PWL. Using any MIDI keyboard, PRO 24 offer write and compose music to a very high standard. You to 24 tracks simultaneously, and then apply real time

1040ST-E COMPUTER	£399.99
Mouse, TV Modulator, Internal PSU, 1Mb Disk Drive	
SOFTWARE: PRO 24 III	£150.00
PLUS! FREE FROM SILICA: Silica Productivity Pack	£104.97

Total Value: £874.74 Pack Saving: £525.74 SILICA PRICE: £349.00

520ST-E START PACK

The perfect introduction to home computing

PLUS! FREE GIFTS FROM SILICA

(SEE PANEL ON LEFT

HARDWARE: 520ST-E Computer aMHz 16-Bit 68000 CPU, 512K RAM, Mouse, haternal PSU, 1Mb Floppy Disk ... £299.99 TV Modulator, Internal PSU, 1Mb Floppy Disk Drive SOFTWARE - ARCADE CLASSICS: Missile Command - Shoot Em Up. Crystal Castles - Platform Capers ... Super Break Out - Wall Demolition Battle Zone - 3D Tank Battle SOFTWARE - PRODUCTIVITY: First Word - Word Processor Neochrome - Art Package £9.99 £9.99 £9.99 £59.99 Neochrome - Art Package. £29.99

ANI ST - Animation Package PLUS! FREE FROM SILICA: £29.95 £104.97 £219.78

Total Value: £784.63 Less Pack Saving: £525.63 SILICA PRICE: £259.00

PLUS! 16 NIGHTS HOLIDAY ACCOMMODATION

PRODUCTIVITY!



16MHz 16-Bit 68000

6" 1.44Mb Double Sided 3½° 1.44Mb Double Sided Disk Drive 1/2/4Mb RAM Versions 47Mb Hard Drive Versions Available

Available

4096 Colour Palette

Stereo 8-Bit PCM Sound
Output

FREE Silica Productivity Pack
FREE Tenstar Games Pack
FREE 16 Nights Holiday Accom

• FAEE 16 Nights Holiday Accom.			
	1Mb RAM	2Mb RAM	4Mb RAM
Омь но	£586 STC 8421	-	-
47мь но	-	£985 STC 8522	£1097 STC 8544

ATARI TT



 32MHz 32-Bit 68030 Processor 3½" 1.44Mb Double Sided Disk Drive

Disk Drive 2/4/8Mb RAM Versions Stereo 8-Bit PCM Sound Output 4096 Colour Palette Built-in 6882 Maths Co-Processor Up to 1280 x 960 Resolution VME + SCSI Expansion Ports Expandable to 36Mb RAM Hard Drive Expansion Octions

Hard Drive Expansion Options FREE 16 Nights Holiday Accom

2Mb RAM 4Mb RAM 8Mb RAM £187

ALL PRICES INCLUDE VAT - FREE OVERNIGHT COURIER DELIVERY IN THE UK MAINLAND

FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.
TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.

PRICE MATCH: We normally match competitors on a "Same product - Same price" basis.
ESTABLISHED 12 YEARS: Proven track record in professional computer sales.
BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.
SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.
THE FULL STOCK RANGE: All of your requirements from one supplier.
FREE CATALOGUES: Will be mailed to you with offers and software/peripheral details.
PAYMENT: By cash, cheque and all major credit cards.
Before you decide when to buy your new Atari STcomputer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your ST, when you may require additional peripherals and software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest Free literature and begin to experience the "Silica Systems Service"





MAIL ORDER: Order Lines Open:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 Mon-Sat 9.00am-6.00pm No Late Night Opening	4DX Tel: 081-309 1111 Fax No: 081-308 0608
LONDON SHOP: Opening Hours:	52 Tottenham Court Road, London, W1P No Late Night Opening	OBA Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP: Opening Hours:	Selfridges (1st Floor), Oxford Street, London, W1A Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm	1AB Tel: 071-629 1234 Extension: 3914
SIDCUP SHOP: Opening Hours:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm	4DX Tel: 081-302 8811 Fax No: 081-309 0017

To: Silica Systems, STFOR-1192 , 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND A BROCHURE	ON THE ST RANGE
Mr/Mrs/Miss/Ms: Initials: Surname:	
Address:	,
F	Postcode:
Tel (Home):	ēl (Work):
Company Name (if applicable):	
Which computer(s), if any, do you own?	79C

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

OR

Picture a quadruped robot with twin laser cannons as it embarks on a journey beyond space itself. This trip was our intrepid **Editor's secret** fantasy - he went, he saw and he's here to tell you all about it





SOFTWARE HOUSE: PSYGNOSIS

PRICE: £25.99

he "caring" '90s have had quite an effect on ST software and *Ork* is a case in point. Rather than opt for a spot of mindless galaxy-stomping material, Psygnosis have chosen a spot of mindless galaxy-protecting plot material.

You're a member of Heyadahl, a race which prefers to tend its vegetable plots and water its carefully selected houseplants than indulge in scraps with other races. Unfortunately, as a result of this peacability, the Heyadahl people get picked on a lot; they have learned it is necessary to fight back. To this end, they have developed some brilliant battle cruisers and trained some excellent crews to man them. Armed with only a joystick you enter the fray, completely unmoved by the plot which is really just

excess baggage.

Waste some ammo

Psygnosis games are always immediately recognisable. They have very tasty graphics and, nine times out of ten, worthwhile sampled music and sound effects, too. They usually

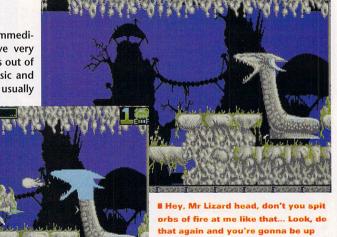
have a long-winded intro sequence with some suitable animation and an extremely fantastic plot. *Ork* has all these elements bar the intro sequence.

This is a platform game with a puzzle element. Each level consists of a task for you to complete. As you make your way around a series of platforms you have to pick up useful items, overcome obstacles and blast interlopers. When you reach the end of the level you're rewarded with a few points.

Your Orkian character is a fairly clumsy chap, so you have to be precise with your joystick movements. He can't duck, he's not very quick and he sustains damage very easily. All of this means that you've got to be on your toes the whole time – energy levels

before the beak - and that's my final

warning, so behave.





■ When you choose wallpaper, remember that the lighting conditions in your home can be different to those in the shop. Make sure you always carry a handy torch with you to simulate that homely effect.

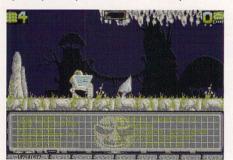


■ "So anyway, we got these pillars at a car boot sale in Crawley. The vines were added later by a little man who lives in the cottages. He's ever so cheap and clean, too."

soon start to look threatened with so many aliens flitting or stomping around.

Puzzling

The puzzles are of the find-key-get-gold variety. To pre-empt all the calls of desperation



■ Dotted about the landscape are a number of data terminals. From these you can scan the area, save the game and check your vital signs. You can't page the Oracle though.

they are likely to receive, Psygnosis have included the complete solution with the game – so, you can either battle through with your teeth fully gritted, or... you can cheat without bothering to try at all.

It's the combination of puzzle and alien attack waves which makes *Ork* so difficult. It's incredibly reminiscent of the *Killing Game Show*, right down to the fact that the character you control is a gun-toting quadruped. The only major difference between the two games is that *Ork* has lots of greenery while *Killing Game Show* is set in a technodrome with metallic backgrounds.

Of course, the amazing similarity between the two games isn't going to create too much of a problem if you happen to like the Killing Game Show, but it's a bit cynical of Psygnosis to release them both when they have such painfully similar plot lines.

VERDICT

The single most important factor in any game is how addictive you find it – if it leaves you uninspired, then you're not going to bother with it again. Ork is a semi-addictive game – brilliant if you're a hardened game-player

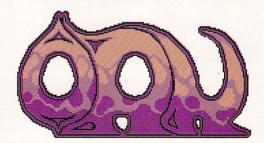


■ Gadzooks! How did that Neanderthal get there? It's just typical, you turn your back for one minute and they make changes. That nasty Mr Mellor is to blame.

who relishes a major challenge, but deadly if you like to feel that you're going to get somewhere.

Technically, you can't fault this game. It has sumptuous graphics, bottom-wobbling sound and great scrolling, but for some reason, it feels strangely empty and leaves you feeling unfulfilled. There are some great games available for your ST, but *Ork* isn't one of them.

ANDY HUTCHINSON



From

IF YOU DON'T BUY SOFTWARE AT THIS PRICE

a disk

PDSSC has a MASSIVE range of PD & Shareware, we have SEVEN years experience in selling software at great value for money. Why pay more?

Characters between asterixes show special requirements:

M = Mono Res. *C* = Colour Res. *D* = Double Sided disk, *X* 1 Meg Ram. *S* = Not STE/Rainbow TOS

DESK ACCESSORIES & UTILITIES

U001 Dir printer, RAMdisks, Snapshot screen save. Desk Acc. loader U001 Dir printer, RAMdisks, Snapshot screen save. Desk Acc. loader.
U003 Desk, ACCs formatter, calendar, Disk Manager, calculator
U008 68000 Assembler, Address/Mailing List, Autodial Utility
U009 PICSWITCH 7 changes pics graphics res. Mono/colour emulators.
SWITCHER, 2 progs in memory. FSEL 5.5
U010 STE BOOTUP, boot medium res
U014 ARC file compiler. BI CLOCK set time/date. MONOEMUlator v5.0.
U016 IBM compatible disk formatter. ARC SHELL v1.91, MEGA formatter
U019 DRFLOPPY, disk editor, SCODE make ASOII for data transfer

U019 DIFLOPF1, JOSK ettolls, SOUDE Intake About into data italised U023 Packed with various progs for printing all kinds of labels. *M* U024 CHK 2.3, All you'd need to know about a disk. IBM MODIFIER, alter DS Atari disks for use on IBMs. U027 ANTIDOTE, detect & kill most bootsector viruses. U028 DISKMECH disk analyser/archiver/editor, edit/format sectors etc, full docs.

CPANEL

U028 DISKMECH disk analyser/archiver/editor, edit/format sectors etc., full dc CPANEL
U030 AMC GDOS
U032 MOUSE TRICKS, extensive control over mouse, movement etc.
U033 MX-2 v2.3 a multi-tasking environment, up to 7 concurrent tasks. *D*
U034 DOUBLE CLICK format v3. 03 9/10 sectors, 80/82 tracks,
U035 DEC edit clone, Disk engineer v3.01 do alsorts to a disk via GEM.
U040 AUTOGEM autoboots Gem programs. VC Spreadsheet non-GEM.
U041 ADDRESS LOG, Address book & label printer, disk cataloguer.
U046 SUPERVKILLER detects 5 viruses, 7 anti-viruses.
U050 GEMINI Desktop replacement. English version *DXS*
U052 GEM PULS, Neodesk variant.
U057 GEMDOS USER GUIDE, full of info about GEM-DOS
U058 ATARI TOS 1.4 bug fixes (STFMs with Rainbow TOS)
U059 XCONTROL. ATARIS talest IT control panel accessory for all STs.
U063 MEMFILE 2.0. Memory and disk editor with powerful features.
U065 STDCAT v4.0, disk catalogue.
U068 HTCHHIRERS PD shareware disk 2.0
U068 HTCHHIRERS PD shareware disk 2.0
U069 ST Zine shell, Disk mag development tool.

U070 SUPERB Intro creator, sprite, pics, text & music

1073 SUPERBOOT V7.0
1073 SUPERBOOT V7.0
1075 ST TOOLS, many features
1077 GOODIES, multiple featured desk accessory
1080 JAMES, the desktop butler.

GRAPHIC, FONT AND ART/DRAWING DISKS

PALART, excellent art program with full doc files. *C*
COLUMBIA, Drawing prog, some 3D elements. Studio (*X*), Drawing
package. Both German
DODDLE, mono & colour versions. Also some Mandelzoom pics.
ST GRAPH. Comprehensive graph prog, handles bar, horizontal/stacked

line & dot charts. VTS2, 7 screen/desktop fonts. inc. Columbia, Devoll, Hudson

FONTS2, 7 screen/desktop fronts. Inc. Columbia, Devoli, Hudson CANVAS, great art package PALETTE MASTER, art package, up to 512 colours. "C* FRACKTAL drawing program from Germany. Mono/Col. FONTKIT 3.3" "D"

ANI-ST, ex-commercial package, quality animation system MASTERPAINT drawing package, excellent. Mono & Col. PICWORKS, enlarge/reformat pics up to 3 times normal size. "M* PUBLIC PAINTER. "M"

SMOOPY catogon pics. "C*" A027 A029

A034 A036 A042 SNOOPY cartoon pics. *C*
ST CAD v2.1, a med/high res CAD package. Full docs. CALC-PLOT,

scientific calculator THE ARTIST, Great drawing package with many options. *M*
JIL CAD, Shareware. *XD*
MOVIE CONSTRUCTOR, FACE ANIMATOR. *M*

A053 SIMPLE DRAW v3.4, art package. Docs foreign. Med/Hi-res MASTER DOODLE, shareware art package for the younger user. A054

CLIP ART

C002 C003 C010	Human figures, cartoons, titles. Sports figures, July 4th logos.	C013 C015	Humorous clips, Letters A-Z. Babies, boys and girls
C010	Occasional Clips, Characters etc.	C016	Girls, Scrolls and Occasional Clips
C011 C012	Loads more fruit, vegetables. Herbs & Kitchen parts.	C017 C018	Artdeco, Baby boy & girl Varied Humorous Clips.

WORDPROCESSING & DESKTOP PUBLISHING

	W001-006	TEX, 6 Disk Pack, document processor. *M* 1st WORD wordprocessor. Professional fully GEM based Easy Text v1.2 fully working DTP demo (w010 for DS users) HYPERTEXT: Shareware prog. Produce professional docs. *MD* STPAGE. super fast editor WORD 400, Desk Accessory WPR. Fully featured ST Writer Elies V4.1 top ouzility wordprocessor.
١	W008	1st WORD wordprocessor. Professional fully GEM based
ı	W009	Easy Text v1.2 fully working DTP demo (w010 for DS users)
1	W015	HYPERTEXT: Shareware prog. Produce professional docs. *MD*
١	W013	STPAGE, super fast editor
١	W018	WORD 400, Desk Accessory WPR. Fully featured
ı	W017	ST Writer Flite VA 1 ton quality wordprocessor

PROGRAMMING/LANGUAGE DISKS

P001 P002	68000 Assembler STOS SOUND FX creator.
	C LANGUAGE DISKS 1, 2 & 3 of Elementary C, a set of 3 disks. CPM EMULATOR, CPM-8 v 2.0.
P013	CPM UTILITES for P012.
P017	PROGRAMMING EDITORS; CONTEXT v2, PRO-ED & P-EDIT. full
D040	docs.
P019 P020	Nigel Smith's ST 6800 pop-up ref. guide. SOZOBON C, Great C compiler *D*.
P022	SPRITE EDITOR. Create and save sprites.
P023	C TUTORIAL, disk manual.
P026	MKRSC a simple GEM resource contstruction utility.
P027 P029	MODPAS, Pascal Compiler. *D*. GFA EXPERT, all you need to know about GFA v3 basic.

GAMES DISKS (colour unless stated)

	G001	Warzone, Daleks, etc.
1	G014	SUPERBREAKOUT, 40+ brick types with special features. *M*
	G014 G016 G017 G018	NAPOLEON, wargame sim. *M*
	G017	EMPIRE BUILDER property developer. LOST TREASURE & JUMPSTER
8	G018	RUSH, move bricks to create a way out for the ball.
ì	G020	YAHTZEE, popular game.
í	G021	UPSTART shoot cherries. *S*
į,	G022	COMPANION shoot 'em up in outer space
H	COOF	ENGLAND Teem Manager

ENGLAND Team Manager
DIE ALIEN BLOB, as great shoot 'em up, excellent graphics.
TREASURE SEARCH, find the hidden treasure. "SD"
ADVENTURE WRITING SYSTEM
TUNNEL VISION, maze game
BERMUDA RACE 2

G041 G045 G046 G047 G056 G063 G064

G068

TUNNEL VISION, maze game
BERMUDA RACE 2
INVASION, adventure
Hack is a D&D adv
AyaTOLLA, terrorists attack. "S"
ROBOTZ, 40 levels, great
FRUIT MACHINE simulator
SLIDE, 3 levs, puzzle. "S"
SOLITIAR 3D graphics. Macpan, Galaxy & Sprengmeister. "M"
ATOMS mentally challenging, KILLERCHESS fast & furious. AMMOTRACK'S a superb race & blast 'em.
SKIDPAN, motor racing. "S"
STOCKMARKET, Wheel & Deal, Galactice Warriors, shoot 'em-up.
FLOYD THE DROYD, ultra hast shoot 'em-up. Sampled sound.
AIR WARRIOR, Flight sim
COMPUTER PINSALL, DEVASTATOR, 3D strategy game.
TALESPIN, Wolf and 7 kids
FUZZBALL platform game
SHIPWRECK, educational maths with graphics. "S"
ZOG a great blasting game. SUPER SENSORI.
A DUDLEY OILEMMA, adv.
WINDER BERKWOOD Massive graphic adventure
NAVAL BATTLE, Battleships
CENTAURI, shoot 'em up.
VIRUS, great graphics & sound. "S"
FLYOVER, bombing raid
GLOB, you collect cherry cakes while avoiding pursuers.
TRACKER, you drive your tracker through enemy territory.
OVERLANDER, shoot 'em up.
CHANCE, battle the Archons.
ESCAPE FROM THE TOMB OF RA.
MUTANT, reactor out of control, workers mutate.
KEY TO ATLANTES, underwater scrolling shoot 'em up.

OVERLANDER, SION EITH UP.

CHANCE, battle the Archons.
ESCAPE FROM THE TOMB OF RA.

MUTANT, reactor out of control, workers mutate.
KEY TO ATLANTIS, underwater scrolling shoot 'em up.

MARS MAZE, platform game.
STEEL, blast everything.
HEDGEHOG, Frogger clone. *S*
THE NAME GAME. +editor.
TARK, great text adventure
BATTLE FOR THE THRONE.
LLAMATRON, a great Shareware game by Geoff Minter. *D*.
VIDEO POKER: Las Vegas poker playing machine.
DERRICK THE DROID: platform, shoot 'em up & puzzle game in one.
PORK II: ZORK send up.
MORIA: Fantasy RPG. D*
SHOOT 'EM UP BUILDER KIT *D*
DUNGEONI: Multi choice fantasy adventure with some humour.
HACKMAN, 50 levels, Pacman clone. *S*
ELVEN CRYSTALS II: Adv
STARMAZE: Various levels, blast alien craft on your way.
A NIGHT ON THE TOWN adv.
TILE GAME, rearrange the letters. *S*
SOKO, 50 levs maze/puzzle
MEGAROIDS, RIPCORD, SPACEWAR, BUGS
BATTLE SCAPE 2 player fantasy war-gaming.
FRUSTRATION, CRISSCROSS.
BACKGAMMON, POKER SO'D
FLY ROBIN, SANTAS WORKSHOP
PENGUIN, excellent, shareware
CROCODILES PASTIMES.
REVENGE OF THE MUTANT CAMELS 1 or 2 players.
SPACE INVADERS, a classic
BLOCKADE, Oix clone
TENNIS great graphics/gameplay,
ROCKFALL, boulderdash type.
ENTOMBED, platform 5 levels.
ARMOURLYTE, hortzontal scrolling shoot 'em-up.

165 167

HOUKH-ALL, boulderdash type.
ENTOMBED, platform 5 levels.
ARMOURLYTE, horizontal scrolling shoot 'em-up.
GRAV. rotate & thrust.
MAZE, spill screen, 2 players + editor, great.
OZONE, platform/puzzle, many enemies, shareware game.
PDBOLO, excellent Arkanoid clone, colour & mono *DX*
INFILTRATION, defeat the aliens, shareware.

DATABASE 1 GEM driven database

APPLICATIONS - Spreadsheets Databases etc.

0001	Ditiribitor i, delividit databass.
S002	ST SHEET, quality spreadsheet *C*.
S005	B/STAT v2.01, sophisticated graphing & stat analysis. *DX*
S007	OPUS v2.2, GEM based spreadsheet & charting program *DX*
S009	WG DATA, high quality DTB. Full docs.
S011	DOUBLE SENTRY, fully working accounts package (no VAT)
S012	PERSONNEL DTB, Names & addresses DTB.
S013	INVENTORY PRO V2.0 stock control system.
S014	TCOS, tree structured DTB.
S015	ZAPCARD easy to use card type DTB.
S016	SHEET V2, spreadsheet. Similar to Lotus 123, docs.
S017	DATAPLOT, sophisticated data plotting package.
S019	FASTBASE, absolutely brilliant, sophisticated shareware database.
	Excellent features.

GULF TORNADO £1.99 (Not PD) Great scrolling shoot 'em up. Blast those Migs and Missile launchers with your fighter/bomber. 1 or 2 players.

COMMUNICATIONS DISKS

CD001	PACK-ET-TERM v3. 3a, radio package with docs. UNITERM v2.0a with auto-dialler & phone book.
CD001 CD005 CD006 CD009	VANTERM 3. 71 & 3.8 great communications package.
CD009	HAGTERM ELITE v3.3 powerful shareware comms package.

MUSIC

COMPOSER, music creation. KEYBOARD program, various songs & samples. SINGING CALIFORNIAN RAISONS. *X* M008 M012 M013 SINGING CALIFORNIAN RAISONS. "X"
MUSIC WRITER, create music.
CASIO CZ SOUNDS & EDITOR
XBIOS Music Const. Kit.
PERCUSSAMAN, 4 track, 16 instrument, synthesised sequencer.
SOUNDTRACKER PLAYER & MODULES. D_DREAD1, D_DREAD 2,
PAT_MIX, RVB_DEMO, SPREAD.
MFP. Music design package. "DXM"
CHORDEX tool for learning major/minor chord shapes.
MIDI v2.0 monitor. Med/High res. Shareware EX800 v2.0.
DBRK4802, daybreak step time sequencer v3.
ACCOMPANIST 2.4, 16 voice shareware sequencer.
EDSYNTH 1.2 music synthesiser. M016 M020 M021 M022 M025 M026 M029 M03 M035 M040

EDUCATIONAL

WORLD MAP GAME.
Spelling Made easy
REBUS WRITER, design & print rebuses. Samples included.
BARNYARD, pair the animals from memory. *C*
WELCOME TO CHEMISTRY V2. *S*
CHUNNEL, A French to English & vice-versa tutorial game. *C*
PERFECT MATCH, PENTOMINOES E004 E005 E006 E007 E008 E011 E013 E014 TYPING TUTOR (2) with full documentation.
MATHS MADE EASY MATHS MADE EASY KIDGRAPH, KIDMUSIC, KIDPIANO, KIDPOTATO *C* KIDPUBLISHER, KIDSONG DOT 2 DOT, Includes creator. SOLAR SYSTEM GEOGRAPHY GEOGRAPHY TUTOR E015 E016 E019 E021 ZOO MAKER, you're asked questions, the computer tries to guess the

GENERAL

animal.
ME FIRST, BUTTERFLY IN THE PARK COLOURING BOOK.

F022 F023

	F003	SKY MAP, display over 1500 stars.
	F005	CONSTELLATIONS. A comprehensive astronomers disk *M*
S	F006	PLANETARIUM, get stats on almost any planet or moon.
Ę	F009	THE PLANETS. *D*
Neg N	F012	AUTOROUTE, working demo covering the south of England.
992	F013	POOLWISE V3.5, pools predictor. MED RES.
	F016	ST TOUR, guided tour.
8	F017	YOUR SECOND ATARI MANUAL.
	F018	NEWGEN V4, shareware, 10 record limit.
2000	F020	ST TECHNICAL MANUALS.
	F021	BUSINESS LETTERS, 100 business style letters in ASCII code.
	F022	ASSISTANT CHEF, 142 recipes + add your own.
	F023	ASTRO 22, Astrology
	F026-28	A ROMAN MYSTERY, graphic art images, Roman magazine, Graphic
		database with a murder investigation, plus more *3 disks*
	F029	COMPACT OFFICE MANAGEMENT, excellent accounting program for
		small business' and sole traders. Comprehensive. *D*.

DEMO'S

	D005	THE DEFINITIVE DEMO. *D*	
	D006	SLATATANIC CULT, Music Demo I & II. *D*	
	D007	ASTERIX DEMO.	
	D008	BOMB THE BASS.	
	D009	TRANSYLVANIA DEMO. *D*.	
	D010	SOUND CONNEXIONS. *D*.	
	D011	THE NEW YEAR DEMO. *D*.	
36	D012	STINGRAY DEMO.	
	D017	COUNTERPOINT DEMO.	
	D018	CUDDLY DEMOS *S*.	
Н	D019	MASTERSOUNDS DEMO.	
	D020	ROBOMIX DEMO.	
	D021	STAR WARS DEMO	

PRICING

1-10 £1.25 each, 11 & over 99p each All orders plus 50p p&p International orders plus 10% Air Mail 50p per disk Cheques etc payable to PDSSC. Send orders to:-



PDSSC, 5 WALNUT CLOSE, BARKINGSIDE, ESSEX 1G6 1HE

VISA

RING US NOW! (0354) 8448 9am - 7pm 7 days a week or our friendly answerphone at other times

THOUSANDS OF PROGRAMS TO CHOOSE FROM JUST SEND 60p IN STAMPS FOR OUR DISK CATALOGUE

G-LOC

Bet you couldn't wait, could you?
That incredible arcade game finally converted on to your ST.
Brilliant, eh?
Andy Lowe offers a firm and emphatic "Er, no"

SOFTWARE HOUSE

– US GOLD

PRICE – £17.99



In The best thing about the game! The rather smart type-writer high score entry system. It would have been more worthwhile to trash the game and send us this as a routine for inclusion on the Cover Disk.

K – so every magazine has probably used this joke, but it's just impossible to resist. So, here goes... *G-Loc?* "Loss of consciousness by G-Force" says the box. Er, "Loss of consciousness by boredom, more like". There, got it over with.

Right, things you won't want to know about this game... 1. The plot. 2. The make, specification and serial number of the onboard missiles. 3. What exactly *G-Loc* stands for. Oh – oops. 4. That the sound-effects are, invariably, rubbish. Things you do want to know... 1. It's a 3D jet dog-fight shoot-'emup with no pretensions at being flight-simesque. 2. It can be controlled by either mouse or joystick. 3. It's extremely crap – it's so bad, in fact, that it's likely to make you very depressed.

You're flying deep into enemy territory, armed with a handy variety of mortal weaponry to fling at anything that floats or flies and, er, isn't you. There are options to

lock on target and send one or two startlingly accurate missiles over and, when an allocated number of planes or boats have been toasted, it's on to the next, more difficult level of combat. In later levels, you have to fly ultra-low to engage enemy warplanes and gun-boats while trying to avoid a messy end on the cliff-faces.

VERDICT

This has to win some kind of award for anticlimax of the year. If you've encountered the arcade game – a superb sit-in console mounted on hydraulics which vibrate and wiggle you around according to the game action – prepare to be assailed by a heavy wave of confused disbelief. Just what the hell happened here, anyway?

Graphics look rushed, the screen display is sparse and dull, the gameplay is boring and repetitive and it all leaves you with the feeling that the licence was acquired, the project was begun and then something went drastically wrong – like they lost the master disks and had to knock up something for the deadline, whether it looked liked some substandard effort from a 3D shoot-'em-up construction kit or not. If you want to play a similar, infinitely superior game, get yourself an Atari Lynx and a copy of *Blue Lightning*.

Almost a complete waste of time. Do yourself a big favour – get doing the washing, up, it's much more fun – and useful, too.



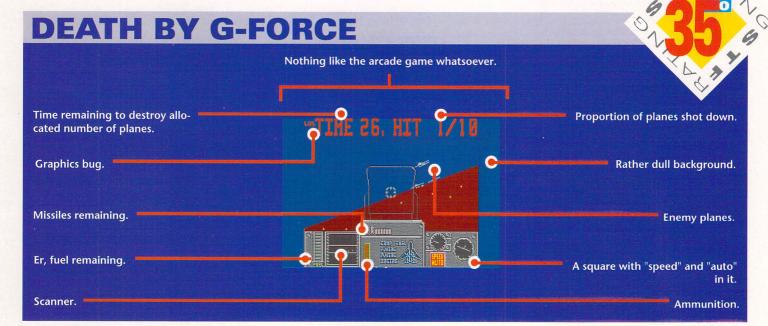
■ G-Loc - from the people who brought you Monkey Island.
Unbelievable, eh?



■ An - almost - exciting bit. You're chased by one of the enemy planes. Wow.



■ Landing on the aircraft-carrier is difficult. Especially when you've fallen asleep.



IT NEEDN'T BE ALL WORK AND NO PLAY

NOW YOU CAN HAVE FUN WITH YOUR PC

Inside this month's issue:

- How to use your PC to create top animations – including reviews of two new low-cost animation programs.
- Save your PC from viruses. We explain how to protect your system and what to do if you get caught out.
- A complete graphics program. This month's issue comes with two Coverdisks one containing a complete graphics package and the other containing playable game demos and essential utilities.
- Where to go, what to buy. We guide you through the myriad of low-cost hardware and software for your PC with our PCF Directory.
- Tips galore. We solve your technical PC problems and guide you through some of the best games.
- New to the PC? We explain graphical user interfaces and ask whether you really need to buy one.
- Definitive and easy-to-follow reviews of all the latest games.

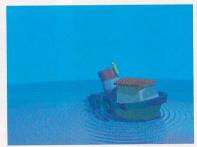






Who said the PC was a boring business machine? Here are some of the animations you can perform after reading this month's PC FORMAT. Each month we'll show you how to have fun with your machine – and there's not a single spreadsheet or database in sight!





The PC is an incredible business machine – so incredible that people all across the world use one at work every day of the week. But did you know that this versatile machine needn't be all work? Now you can have fun with a PC and there's a magazine devoted entirely to the leisure side of this popular micro. It's a magazine which will change the way you use your PC.

PC FORMAT is Britain's best-selling PC leisure magazine. Each month we look at everything from music, graphics and video to CD-ROM, publishing and of course the latest and best games. To top it all, we give you a cover-mounted Disk packed with programs to help you exploit the full potential of your PC.

One day a PC will be in every home in the country. It will change the way you think about computers. Until that day we think we ought to show you just how much you can do with it. Read PC FORMAT and stay ahead of the crowd.

WHAT MAKES WIZARD SPECIAL?

FULL DOUBLE SIDED DISKS

NEW CATALOGUE OUT

FAST SERVICE RELIABLE TOP QUALITY

KEEN PRICES

(we only use the best)

JUST A FEW EXAMPLE DISKS FROM OUR COLLECTION

ART 07 Superb art package, ideal for simple DTP. 23 built in fonts. A4 size paper works in monochrome for best quality of print. Ideal for leaflets etc. DS disk.

ADV 01 DDST, DUNGEONS & DRAGONS, Role playing adventure. PARANOIA, ENCHANTED REALM and ELBOZO CITY. 3 more good adventures also

ARC50 HACMAN, superb pacman clone. MR PACKY, another super pacman. SOCCER brilliant 3D football game 2 players. MUTANT WIPEOUT ariel shoot em up. INVADERS needs no description.

BRD04 CHESS, superb chess game.
DECODER, excellent mastermind. SUPER
SIMON, computer version of hand held game.
DOMINOES, puzzle game. GOLF card
game. Also on this disk DRAGON MAZE, 2
game, SENSORI BACKGAMMON, BRIDGIT, ST ARTREK, BATTLESHIPS

ARC14 HOME, and L'ORB 2 super pinball games. GALTIC RANGER, unusual shoot em up. MONKIES & BALLOONS, bounce the clown and burst the balloons. FIRESTORM, another good arcade game rescue the humans. LAZERBAL, super game and interesting version on the pinball theme. Also on this disk LOST TREASURE, WIDOW MAKER, SLALOM & BREAK OUT.

AST 01 PLANETARIUM simply the best PD Astronomy program. SK YMAP another great Astronomy program plus as Tronomer.

BRD 01 MONOPOLY, LAZERCHESS, OTHELLO, CHECKERS, WHEEL OF FORTUNE, and more a superb collection of BOARD GAMES.

DART 95 ANI ST Great animation package formerly sold at £80.00 now PD, VAN GOGH Paint package with animated sprites. LANDSCAPE Generators including GENASIS and a CAD Package.

MUS 31 The ACCOMPANIST SEQUENCER From H. COSH.

WFR 01 ST WRITER V4.2 and FIRSTWORD, The best word processors for the ST (E) plus a spell checker, print spooler and a selection of ready to use letters.

ODD 07 THE WORLD OF STARTREK Over 300K of text interviews and biographies from the original STARTREK and NEXT GENERATION plus loads of pictures from both series. A must for all TREKKIES!!!

ARC 04 TETRIS, superb tetris game (see review in issue 1 of this mag). KLAX TRIX, WELTRIS & TETSIDE, 3 more good games on the tetris theme. MR DICE, COLLAPSE & BURGER, 3 more good games to fill this super value disk.

WIZARD P.D 24 HOUR ORDERLINE

178 Waverley Rd, Reading, Berks, RG3 2PZ Tel: 0734 574685



For disk catalogue send blank + S.A.E. <u>OR</u> 70p ISK CATALOGUE FREE WITH ORDER ON REQUEST P.D Disks 1 or 2\$2.25 3+......\$2.00 P.D Disks 1 or 2£2.25 3+.....£2.00 We also stock Budgie, POV and KME disks

OFTWARE

LICENCEWARE, SHAREWARE FOR ATARI ST/STE

MT SOFTWARE (Dept STF) Greensward House, The Broadway, Totland, I.O.W PO39 0BX

2 0983 - 756056 FAX: 0983 - 755800 (24hr)







FOR EVERY 3 DISKS YOU BUY, YOU MAY CHOOSE ANOTHER DISK ABSOLUTELY FREE

RING, WRITE OR FAX FOR OUR FREE CATALOGUE

WE HAVE SOMETHING FOR EVERYONE

Accounts Art & Graphics Astrology Astronomy Budgie UK Games Budgie UK Compilation Range Budgie UK Productivity Range Budgie UK Magazine Disks Budgie UK Demonstration Disks Bulletin Board Systems Chemistry Clip Art Communications Cookery Databases

Data Protection

Games - Adventure - Zenobi Range Games - Colour Games - Mono Games - Solution Disks Genealogy Music & Midi - Kawai Music & Midi - Quartet Music & Midi - Roland Demo Disks - General Demo Disks - Product Music & Midi - Sequencers Music & Midi - Sound Trackers Music & Midi - Various Disk and Virus Utilities Music & Midi - Yamaha Operating Systems & Emulators Education - Shoestring Range Picture Disks

Electronics

Font Disks - Calamus

Font Disks - Signum Font Disks - Various

Games - Adventure

Films

Football

Programming - Adventure Writing Programming - Assembler Programming - C Programming - Gem Programming - GFA Basic Programming - Pascal Programming - Stos Basic Programming - Various Satellites Speech Synthesis Spreadsheets STE Only Typing Tutors

Word Processing Clip Art Pack **Education Packs** C Programming Pack GFA Basic Programming Pack STOS Basic Programming Pack

arious other subjects

EASY TEXT PLUS

A fully featured desktop publishing package that produces stunning results on 9 pin, 24 pin and laser printers

ONLY £19.99 RING FOR DETAILS

INTRODUCING ATARI ST MACHINE CODE

A complete assembly language programming environment for the beginner and intermediate ST programmer. Learn

assembler the easy way, step-by-step!
BOOK COMPLETE WITH DISK! (Over 400 pages) only £19.99 The comprehensive book introduces the reader via many assembly language examples how to program the ST. No knowledge of assembler is assumed, all examples in the book are held on disk and can be assembled using the supplied text editor and assembler. The disk also contains a complete resource construction kit for producing dialog boxes, drop down menus, etc. Learn to program like the professionals. Registers, GEMDOS, XBIOS, GRAPHICS, DROP DOWN MENUS, DIALOG BOXES, WINDOWS and much, much more



80 Lee Lane, Langley, Heanor, Derbys, Derbys, Tel: 0773 761944/605010 DE7 7HN



PD Disks: 1 to 5 £2.00 each, 6 to 10 £1.75 each, over 10 £1.50 each + Budgie and Shoestring Licenceware disks £2.95 and £3.95 + + Commercial Games Software from only £2.99 + Same day service, quality virus free disks + + P&P FREE on all orders +

Here are just a few of the disks from our comprehensive catalogue: (£2.00 each)

	(see above re multi-purchase discounts)	
M.106 G.115	ACCOUNT-ABILITY: Fully featured accounts program. 10 accounts, 2,000 transactions! MYSTIC WELL: Dungeon master adventure. Now complete with all functions including save game enabled! (Updates £1.00 - return your old disk)	
G.200	ANARCHY ACADEMY: Ex commercial 3D adventure, now released as shareware.	
D.326	OVERDOSE DEMO: The best yet:- Highly rated.	
D.324	NTM DEMO: Mega Demo from Zuul with arcade shoot'em up. (2 disks - £4.00)	
D.325	CROSSBONES: STE demo (also known as RED SECTOR DEMO)	
D.322	MENTAL HANGOVER: Conversion of Amiga demo. (STE 1Mb) (Licenceware £2.95)	
G.159	VIOLENCEI: Classy vertical scrolling Xenon style shoot'em up (Shareware)	
G.171	HACMAN II: 1 megabyte version of Pacman, 100 new levels! D/S	
G.195	ULTIMATE WARLORD: Tetris, Deflektor and Snowball on one disk (not STE)	
M.102	RIP IT UP!: Working demo of Highway Code tutor program for new drivers. PICTURE CONCEPT: Produce weird and wonderful effects on your own pictures.	
A. 47 U. 42	PICTURE HUNTER: Rips picture screens from other programs.	
W. 12	FONT DISK; by Jaille. Over 110 fonts ripped from demos, etc D/S	
G.193	FRUIT PURSUIT: Fruit machine action in a strategy game! (Shareware)	
U. 47	PROBE ST: Excellent disk "Ripper".	
S. 84	IMAGE FACTORY MODS: Amiga Musics files with player for the ST/STE. D/S	
G.147	THE MANAGER: Football management sim. D/S	
M. 95	ABOUT THE HOUSE: Excellent collection of programs for young children. D/S	
U. 48	PREMIER PACKERS: 13 of the best, plus a multi D packer.	
G.150	COLUMNS I & II: 2 good games similar to Tetris by David Tierney, D/S. (1Mb)	
D.312	LIGHT SPEED: Superb demo from the Untouchables and friends. D/S	
M. 81	NEWSDISK: Construct your own newsletters and magazine disks.	
G.148	OZONE: Superb platform-arcade game. Highly rated.	
G.207	PABLO & THE GOLD OF MONTEZUMA: Excellent "boulderdash" type game.	
G.221	GRAV 2: Just released - follow up. Superb.	
P. 24	MENU-MAKER: A French program that allows you to make your own menus with music,	
11 25	sprite and scrolling message. Excellent. D/S. PICTURE CONVERTERS: CONVERT any format to just about any other format.	
U. 35 P. 33	ZX SPECTRUM EMULATOR: Emulate the old Speccy on your ST/STE. (1Mb)	
F. 33	ZA SPECTHOM EMOLATOR. Emulate the bid spectry of your STISTE. (TWO)	

We have a full range of BUDGIE and SHOESTRING software available	ble, including
BU. 50 SPACE INVADERS: Classic arcade action by Robert Leong (£2.95) BU. 90 MATCH TT. Possibly the most addictive game ever devised (you've been w BU.101 BU.102 ESCAPADE: Intriguing puzzle game by Kathy Steinbach. (£2.95) APTITUDES: A personal test and analysis program. (£2.95) DARK WARS: Role play adventure with 3D view. (£2.95) DARK WARS: Role play adventure with 3D view. (£2.95) HORSE RACING SIM: Quality sim from the sale ring to the track. (£2.95)	warned!) (£2.95)
PRO.20 VIDEO MASTER: Excellent video titling program.(£3.95)	
PRO.26 EARLY LEARNING: Ideal programs for the younger user. (£3.95) PRO.27 EARLY LEARNING 2: Even more for the little ones. (£3.95)	
L. 12 MATHS FUN 1: Latest shoestring title for children 4 to 7 years. (£2.95)	
 L. 10 DROP DOWN WORDS: Shoestring. Spelling/memory game for youngsters L. 11 PI SQUARED: Challenging puzzle game by Tony Martin. (2.95) 	rs. (£2.95)

For a FREE copy of our latest, user friendly, catalogue disk just send a blank disk and S.S.A.E. to the address above and we'll send you one by return complete with a selection of quality PD including Super "MATCH IT" game and FONECOST utility. Alternatively send us £1.00 and we'll send you the same catalogue and free programs on one of our disks. (please quote STF20)

CUSTOMERS WORLDWIDE ARE FINDING WE ARE THE ONES TO DEAL WITH FOR QUALITY AND SERVICE



GAME.8

DEMO.97

UTIL.4

UTIL.19 LITH 29

WORD.1

ART.11

LANG.18 MUS.6 MUS.14 MUS.23 MISC.8

MISC.10 MISC.14 MISC.26 VAT REGISTRATION NO 593.3227.30

SOLENT SOFTWARE

PUBLIC DOMAIN FOR THE ATARI ST

We stock a full range of Games, Demos and Utilities plus ALL the POV Demo Disks. all disks are double-sided, single-sided available to special order. For a copy of our latest disk Catalogue (updated weekly) send a blank disk and SAE, or just send £1 for Catalogue on one of our disks with free PD.

PRICES - 1 to 9 disks: £2.00 each. 10 disks or more: £1.50 each.

A SMALL SELECTION FROM OUR EXTENSIVE RANGE

SMALL SELECTION FROM OUR EXTENSIVE RANGE

6 KIDGAMES - consists of Kidstory, Kidgraph, Kidgrid, Kidmixup, Kidsketch, etc.
EDUCATIONAL GAMES with 7 Kids, Magic Storybook and Magic Speller.
ELVIN CRYSTALS 1 and 2 - two excellent adventures written with STAC.
Revenge of the Mutant Camels - latest shoot'em up from Jeff Minter + 3 others.
Klatrix, 8 Ball, Entombed, Rockfall and Mystic Well - brilliant collection.
Michaels big Adventure - children's adventure written with the Tailspin system.
The Manager - latest football management game - win the League and FA Cup!
STRIKERSWIFTAR - two excellent 'Flying Shark' type vertical scrolling games.
VIOLENCE - the best 'Kenon' type shoot'em up in the Public Domain + 2 others.
SO WATT - 17 excellent demo screens from the Carebears. Still one of the best.
FISH'N'CHIPS - multi-screen demo from Sewer Soft with 12 'fishy' surprises.
LIFF'S A BITCH - good demo from the Lost Boys with infamous vomit sample.
KINKY BOOTS - excellent sampled sound from the Persistence of Vision.
ULTIMATE GFA DEMO by the Overlanders, 12 brilliant demos writiten in GFA basic!
DARKSIDE OF THE SPOON - full screen mega-demos from ULM and guest screens.
VODKA DEMO - ten unbelievable screens from Equinox. One of the best to beat.
WHAT NOT TO DO - 8 short comical animations from the Inner Circle. Very funny.
PHALEON GIGA DEMO. Massive 34 sub-demos. 4 menu screens etc...(4 disks)
28 Desktop Accessories complete with Accessory Loader, Ramdisks, etc.
6 Databases plus 2 Label Printers, good selection for your home business.
STICKER III - create and print excellent disk labels with text and graphics.
OPUS V2.2 - excellent GEM based spreadsheet and charting program. 1 Meg RAM.
GEMINI - replacement desktop from Germany, similar to Neodesk. 1 Meg needed.
ST. WRITER V4.2 with W.P. Utilities plus 2 Type Tutors and 2 Spell Checkers.
1ST WORD. Still the best Word Processor with Printer Drivers and Word Counters.
DESKJET Printer Drivers for the HP Deskjet and Cannon Bubblejet plus utilities.
COLOURBURST and FINE LINE art GAME.40 GAME.46 GAME.49 GAME.50 GAME.54 GAME.57 GAME.59 GAME.71 DEMO.37 **DEMO 60** DEMO 62 **DEMO.102** DEMO.103 DEMO 131-134 WORD.22 ART.13 ART.31/33 LANG.2 LANG.17 FILM FILE ENQUIRY - database of over 2000 films with actors, director, etc. INTRO CONCEPT DEMO CREATOR - create your own demos with a few mouse clicks

SOLENT SOFTWARE

53 RUFUS GARDENS, TOTTON, HANTS. SO4 3TA TEL. 0703/868882

REDUCED

You've paid the rent, you've got a spare tenner or two and you want to treat yourself. So, pop into your local budget cavern with Andy Lowe and Jon Pillar and gasp in awe at the treasures within

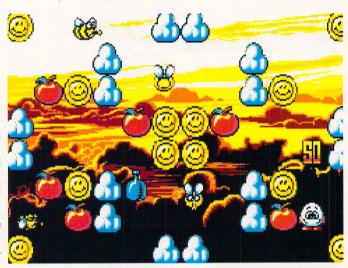
KWIK SNAX

SOFTWARE HOUSE: CODEMASTERS PRICE: £7.99

Dizzy's back. This time he attempts to re-unite his four chums, who've all had a rather rowdy argument over where to go on holiday. In fact, the argument was so rowdy it woke Zak, the evil wizard who gave 'em the old decent-sorcerers-are-trying-to-sleep routine and spirited them off to Iceland, Cloudland, Cuckooland and Zak's very own musty old dungeon.

You're in charge of Dizzy – that now infamous egg with legs – who must take a trip to each world, complete five levels of arcade puzzle action and rescue a friend. When all four are rescued, that's it presumably. Except it isn't that easy.

If you've seen the arcade game Don't Pull or even that old chestnut Pengo, then this is familiar territory. Each level takes on a certain formula – you have to waddle around and scoff fruit or other goodies and push mobile blocks into marauding nasties. You also get hindered by immobile blocks and, occasionally, get rocketed to a



■ The clouds - you push. The apples - you eat.

The smileys stay put. Oh, and it's a good idea to avoid the wasps, too.

bonus level when you eat the munchies in the order they flash.

VERDICT

This is a pleasant, playful little ditty with lots going for it. The sprites are immensely colourful and there are some some excellent backdrops. *Kwik Snax* is addictive with fiendishly difficult gameplay. Amusing and slick, superb value-for-money.

CAPTAIN DYNAMO

SOFTWARE HOUSE: CODEMASTERS PRICE: £7.99

Once upon a time, not so long ago, Captain Dynamo was the darling of the superhero set. He used to fling tall buildings around with Equanimity, his wisecracking sidekick. He fought against untruth, injustice and polite villainy. By far the most scampish of his foes was Evil Austen. Many was the time the two clashed atop Austen's castle, until Austen had the sense to move. But that was many years in the past – we lied about the not-so-long-ago bit – and now the

not-so-long-ago bit – and now the Cap has retired, forgotten by the world at large.

Then, Evil Austen decided to have one last fling before senility sets in, planning to conquer the world with a gigantic death ray machine. Tragically, he steals a load of diamonds by mistake – we lied about the before-senility-sets-in bit – and Captain D is called upon to save the day just one more time. If only the Codies had cast Don Ameche in the



■ What is Captain Dynamo wearing on his chest? It looks as if it's either a broken saucepan or a giant Refresher.

title role and given Macauley Culkin a part as his cheeky grandson, they could have cleaned up at the box office. But, through an administrative oversight, they're not a film production company at all and so had no choice but to make this scrolling platform game instead. As the Cap you have to make your way up the inside of Austen's castle, collect the diamonds and avoid or trample on a sad collection of cute nasties. Other hazards inconveniently poke themselves into your path – spike traps, electric globes and suchlike. It's a hard life when you're nearly dead.

VERDICT

What a lovely surprise. After CJ in the USA, Spike in Transilvania et al, it's so refreshing to actually see a good Codies game which is playable, tricky, different and an altogether not-budgety-at-all kind of game. The smart and

fast vertical scrolling effectively provides another obstacle because you can't see what's coming next. A minor problem is that the cute sprites don't fit in with the damply atmospheric backgrounds – or is it the other way around? A major problem is that the game is harshly unforgiving of mistakes – there are no credits and a dearth of restart points, so you usually end up going back a long, long way. Mildly stonking.

TO CLEAR

FALCON 1.2

SOFTWARE HOUSE: ACTION SIXTEEN
PRICE: £14.99. MISSION DISKS, OPERATION COUNTERSTRIKE AND OPERATION
FIREFIGHT, £9.99 EACH

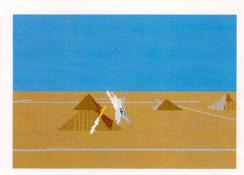
Bejasus. The manual for this game runs to a full 130 pages. Fortunately – surprisingly? – it's very well-written and eases you into the game like a trusty shoe horn, except you don't get a nasty pain in the back of your heel. The idea behind this flight sim is the usual one-pilot-stands-alone sort of thing, with you as the ridiculously gullible hot-shot fighter jock. In Falcon itself you fly a series of air-to-air and air-to-ground attack missions with silly names. The two expansion disks bolt jingoistic storylines on to all the high jinks and high explosive.

You're aided in your missions by an array of electronic doohickeys, all tortu-

ously named to provide acronyms and designed to make your flight as safe as possible. This does, however, mean there are loads of dials and gauges to keep your eyes on. Five skill levels – and the fact you can't crash or die on the first – complete the picture.

VERDICT

The major stumbling block is the ghastly complexity of it all. It's easy enough to get into the air and blow things up. However, it can be a while before you can take on the enemy with any confidence. The solid 3D graphics nip around without glitches, while the sound is awful, with some horrible samples and a couple of whooshy bangs – but who cares, eh? Falcon's a comprehensive flight sim with hundreds of train-spottery knobs and buttons. Itn works rather well as a game too, although the enormous amount of information you have to deal with can stifle the gameplay – but it's a tasty buy at £15.



■ Naïve rookie falling for comical pilots' initiation test. "Now, if I remember rightly, Sarge said it was the blue button for extra sugar in my tea... Oh, you guys."

The expansion disks deliver tougher missions, though they are rather similar and they're over-priced at £10 each. Ah well. There's a bandit on their sixes, as those frightfully witty pilots say.

NARCO POLICE

SOFTWARE HOUSE: GREMLIN PRICE: £7.99

Er, this is a bit of an oldie. In fact, it was down the post office the other day, drawing its pension and moaning about the weather. Anyway, enough ageism. It's 2003 and the drug dealers are taking over. Their evil, loathsome drug laboratory is based on an island which you must infiltrate as part of the anti-drugs elite force, the Narco Police.

As you may suspect, there's very little subtlety involved here – you can't just go up to the baddies and say: "Look, old chap, just stop manufacturing these naughty substances and



If you want to know the way - or is it the time?
- all you have to do is ask a policeman - don't be frightened. Unless you happen to be an international illegal drug manufacturer when diplomacy doesn't tend to work very well.

we can all be friends." Instead, you have to wander through the innards of the island and blast the baddies to bits with all sorts of variations on the lethal weaponry theme.

VERDICT

Narco Police is surprisingly playable for such a hoary old chunk of code. It can be a touch slow and flickery, but the gun battles really bring out all those nasty, trigger-happy instincts. Having said that, though, it's not all pumping bullets into scum – there are some puzzley aspects, too. This is an above-average game with plenty of varied features to suit everyone.

INTERNATIONAL 3D TENNIS

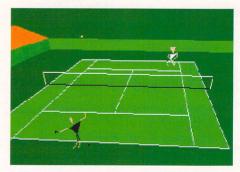
SOFTWARE HOUSE: GBH PRICE: £7.99

Now this is silly. Ostensibly a straightforward tennis game, *International 3D Tennis* is, in fact, a showcase for animated 3D triangle people to strut their stuff and stomp around like very thin Arnie Schwarzeneggers. You can view both court and players from any of ten different angles while you battle it out in a full game of lawn tennis. As usual, there is a plethora of options as tough opponents line up to thrash you – in the not-naughty sense of the word – in various famous tournaments. But that's not all.

Apart from the 3D perspective, the game's other gimmick is the variable level of control you have over both player and ball. At the most basic level your ST automatically moves your player to intercept the ball, while, at the other extreme, it gives you total control of everything then stands back and waits for your nervous breakdown. At vast expense, Sensible Software, the game's programmers, have secured the services of a very famous tennis umpire – his crisply-sampled tones call out the scores after each shot. But that's not all... actually, yes it is.

VERDICT

Underneath the smartly executed graphics lies a highly playable – though not very addictive – game. The joystick controls help the game flow along and your ST opponents vary from the good to the terrible. If you're playing against a friend, the tricky 3D graphics can create a few problems – the perspective gets confused when the ball approaches a player and it's all too easy to think you've returned a devastat-



■ "I'm not just a pretty face in the chorus line. I'm an individual, a human being. Oh, I want to be me, just want to be me..." Engelmann went on to win 6 - 0, 6 - 4, 7 - 6.

ing volley when you've actually missed the ball. This is not a game you can play for long. But, as a quick half-hour's entertainment, it's far superior to licking a cube of salt.

()()DMAN

Incorporating The Official STOS Shareware Service

WHO ELSE OFFERS ALL THIS

Selected Disks From The START Magazine Disk Collection

Specially **Imported From** America

Exclusive titles from top programmers

The Latest Public Domain & **Shareware Titles**

including STWriter Ver 4.5 Superboot Ver 7.2 DosAcc Ver 2.9a STDCat Ver 5 Turtle Ver 3.2 Arcshell Ver 3.1

The New MicroMagic **Budget Software** Range

> Shoestring Educational Software

Budgie UK & Zenobi Software Licensed Distributor

Find out what you are missing and discover why we were voted ST Shareware Service of the Year

Further information on all the above, including the new START supplement, Zenobi Adventures, Shoestring software, can be found in our latest Public Domain & Shareware Guide. Available for only £1.95 inclusive.

Goodman Enterprises (DEPT STF) 16 Conrad Close, Meir Hay Estate, Longton, Stoke-on-Trent ST3 1SW

VISA

Tel: 0782 335650 Fax: 0782 316132

New Age PDL

Telephone: (0702) 232826 Only £1.50 each (UK) All PD disks are FULL

All PD disks are DOUBLE SIDED

To order our extensive, easy to use disk catalogue featuring over 900 jam-packed disks, and filled with games, 4 soundtracker modules, a text editor and a brilliant demo, just send us either a £1 coin or a bla disk and a stamped SAE. Alternatively add 30p to any order.

All disks are £1.50 each unless other prices are stated. All disks will only run on a COLOUR system except: 'H' = high resolution monitor only. 'A' = any monitor suitable.

ART AND GRAPHICS

HOTBABES: - A 9 disk set of pictures in spectrum 512 Extended (SPX) format. They are full colour, span several screens and feature some great looking girls. Absolutely the best quality pictures on your STI - Only £12.00I FANTASY: - A new 5 disk set of SPX pictures, this time featuring more women but in fantasy images - Only £6.50I GLAMOUR GRIES: - The latest 1 1 disk pack of SPX pictures, the best pack ever done with some of the best looking women around - Only £15.00I ART 35-37 - In bed with Madonna - 3 disks with over 100 great shots. Enhanced on the STE Only £4.00I ART 51 - Crack Art - Great art package that can rip graphics from programs. 1 meg needed £150.

GAMES

SAME 1 - Anduril, Eliminator, Galaxy, Mini Golf, Bubble, Runner, Space War, Tetris Gilgalad, Once A King 'H' SAME 6 - Tunnel Vision, Air Warrior (flight sim), Darts, Mister Packy, (Pacman), Bridge-It, Scanner (draughts) SAME 16 - Empire Builder, MAD (boulderdash), Monopoly, Ship Combot, Football Manager, Motorism, Pulse Rider SAME 16 - Empire Builder, MAD (boulderdash), Monopoly, Ship Combot, Football Manager, Motorism, Pulse Rider

Genocide - A 1 or 2 player strategy game with hints of Populous and Sim City. Brilliant graphics! \$3.95 Dark Carpathian - A tale of terror set in the 1500's written with the 3D Construction Kit \$2.95

DEMONSTRATIONS

DEMO 3 - ULM Mega Demo
DEMO 42- Total Chaos Double Doozer Demo
DEMO 51 - Hoby One Mega Demo
DEMO 74 - Staytonic Cult - STE Only
DEMO 132 - The Pandemonlum Demo
DEMO 93 - Songs of the Unexpected - STE Only

DEMO 16 - Things Not To Do (very funny)
DEMO 69 - Electra Reset Demo (1 meg)
DEMO 78-79 - Punish Your Macchine Demo (83.00)
DEMO 78-79 - Punish Your Macchine Demo (30.00)
DEMO 79 - Shamen Music Demo (1 meg)
DEMO 79 - Corporation Mega Demo - STE Only
DEMO 139-142 Phaleon Gigademo - 4 disk, \$5.00

APPLICATIONS & UTILITIES

UTIL 13 - German to English, Dbackup, DC Utilis 'A' UTIL 14 - Full of printer drivers inc. Bubblejet 'A' BUSI 2 - Sheet 2, Home Accounts, Dbase One 'A' BUPRO 20 - Video Master - superb video Titler £3.95 UTIL 19 - Your second Manual, Jokes 'A'
UTIL 20 - Fontkit 3.31 'A'
UTIL 30 - Superboot 7.4 'A'
BUPRO 23 - Video Master Extra Fonts disk £3.95

BUSI 1- Invoice & Statement generator demo, Narnenet (1 Meg), Sales Controller 'H'
UTIL 15 - Tons of misc utilis including copiers, formatters, virus killers, directory listers, diary etc. 'A'
UTIL 16 - Ice Packer, Sticker 3, Definitive File Selector, Hard Up, Bench Mark, Chamelon (allows 32 desk accs) 'A'

SOUNDTRACKER MODULES

These disks contain brilliant quality tunes at great value for money. All disks come with the ESION stracker which is a complete module editor and player. There are versions of both the ST and the STE.

Those disks marked with "E are STE only.

Sleepwalk, Aciiid, Human Invasion, Nice Beat, Ohno, Stone, Stress, X-Ray
Acid Batman 2, Creation 2, Crockets, Tied Up, Enola, Last Ninja 2, The Last Sun, Intro 1
Clothes, Complicate, Endtheme, Hi-energy, Hunters, Jackdance, Scratch, Magic, S119
Alfair, Bluemon, Clutch, Disco, Einstein, Megamik 88, Shortpsh, Symphaze, Song, Flash 4,
Berry, Close, Depress, Doc II, Eagles, Eg. Enemies, Esion, Going, Goodlife, H-dance, L-around 'E'

As well as these disks listed we also stock hundreds of demos including the complete range of POV. We are official distributors of Budgie UK, Shoestring Software (education), Organised Chaos (adventure/strategy) and we are the ONLY distributor of Creditive Influence (see Genocide and Dark Carpatina above)

(STF9) 30 Anderson Estate, Lower Road, Hockley, Essex \$\$5.5NG Modem users call New Age BBS on (0702) 715025 - 24 Hrs

(0463) 225736

Thousands of Shareware. PD & Licenceware titles for ST / STE / TT and Atari Portfolio
PD titles - £2,50 each - £1.90 each for 10+

- 1.30 each - 1.30 each 10 r IU+ Datascape - Superb Mono Database Probe ST - The best software ripper! HP Chrome - HP colour printer utility. Arcsys - Superb ARChive Shell. Godel - Mathematics Processor. Pools Predictor - Now Version 4! Pagestream Utilities Collection

AU-191 AU-192 DTP-26 DTP-27

VISA

Calamus Utilities Collection Calamus Utilities Collection
Calamus SL Demo Version (1Mb)
Calamus Fonts disk - 13 Fonts
Ultimate GFA Demo II
Beyond by Kruz
Fullparts by Hemoroids!
High Fidelity Dreams - By Aura. DTP-28 DTP-29 D-0167

D-0180 D-0182 D-0187

After 2yrs in the making - it's here at last!! THE PHALEON MEGADEMO! by NEXT YOU DARE NOT MISS IT - 4 disks! Just £8.00 Officially Distributed in the UK by Caledonia

Shareware Disk No. GM-114 by Ian Scott GRANDAD and the quest for the holey vest A superb new Adventure game with 3D graphics Over 150 Locations! Excellent! Hilarious! £2.50

Send £1.00 or a blank disk for our Amazing NEW Disk Catalogue

UURRP

The software accelerator

Boot up with Warp 9, and you'll never want to be without it again. Warp 9 increases the speed of screen output dramatically - windows snap open, graphics appear instantly, and text flies onto the screen.

How is this possible? Most GEM programs display graphics and text by calling standard routines built in to TOS. Warp 9 intercepts and handles these calls with optimized assembly language code that is *much* faster than the built in routines. Graphics and text still look the same, but appear with astonishing speed!

Warp 9 also includes a unique configurable mouse accelerator, desktop pictures, custom screen fonts and fills (72 screen fonts are supplied), and function key control of alert boxes with the F1, F2 and F3 keys. The Warp 9 Customizer lets you create your own fonts and fill patterns. And best of all, Warp 9 is compatible with all the programs you run.

Price: £24.95. Upgrade from Quick ST3: £12.95 - Upgrade from Turbo ST: £14.95 -Upgrade from NVDI: £14.95. Return master disk for upgrades from Quick ST3. Send manual front page for upgrades from Turbo ST or NVDI.

We publish a range of high quality utilities for the ST and have a library containing over 2000 disks of PD and Shareware software. Write or phone for a copy of our latest 64-page A4 catalogue and for details of our monthly magazine ST Applications.

The ST Club

2 Broadway Nottingham NG1 1PS Phone (0602) 410241 FAX (0602) 241515

THE FUTURE NOV

Produce your own personality profiles, Forecast the future for individuals

Professional Reportwrite "

....awarded GOLD AWARD

from ST FORMAT magazine with a 90% STF rating. Software includes a personal licence to sell reports. Package price with telephone support: £395 plus vat.

Send £5 with your date, time and place of birth for your own personality profile and forcast for the year ahead.

For details of software for ATARI, AMIGA, MacIntosh and IBM compatible computers phone:

0276 22000

MAGIC SPACE PROMOTIONS

STREET HOUSE, THURSLEY, GODALMING, SURREY. GU8 6QE

PUBLIC

If you need a house built you get a builder, if you need a song sung you get a singer and if you need a Public **Domain program** reviewed you drag someone off the street, ply them with chocolate peanuts and lock the doors. **Chris Lloyd was** passing the ST FORMAT office on his way somewhere else

SECTOR

DEMOS

M DEMO 4

RIVERDENE PDL - DISKS 1031 AND 1032

Hardcore you know the – er, what time did you... hey, my hands look like two – er, is it just me or is it raining? If you want hear how demos should be done, this is it. Tons of charging rave sounds put together by A N Cool. There's loads of it magically crammed onto two disks along with a few wibbly graphics. Even the loader has a thrashing piece of techno. A couple of games thrown in too, a very passable *Tron* and a bat and ball job like those first TV consoles – remember them? It's a corker of a music demo with a funny hat. Pointless bad language, though.



■ The old screen flipping technique to get what appears to be around a squillion sprites from *M Demo 4*. Luckily the music makes up for everything - it's loud.

MY DOG IS ENJOYING FUZION

RIVERDENE PDL – DISK 1029

A collection of screens featuring tracker music ranging from a rather groovy housey number at the start to some pretty average pieces later on. The sound quality is better than most. The accompanying pictures keep your eyes busy but won't cause any retinal damage or anything. There's some gratuitous bad language put there to shock people, we assume – we were all terribly shocked here at the office and thought the programmers must be very grown-up and dead hard.



■ My Dog is Enjoying Fuzion is a passable enough demo with a mish-mash of tracker tunes and graphics, including this one which looks a little dodgy when it's animated.

DIMENSIO

RIVERDENE PDL – DISK 1027

Kicks off with some impressive sampled tracker music in stereo for STE owners, and then goes rapidly downhill as you enter the six sub-demos. These are all pretty much the same, featuring rasters, wibbly text and terrible chip music. What can you say? It's all been done many many times before and it wasn't that brilliant in the first place. Long boring scroll lines and VU meters do not a demo make

Dimensio
Demo
rehashes
all the
old
routines
into
something



new and equally unoriginal. Scroll lines ahoy! - full steam ahead in the opposite direction.

BEYOND DEMO

RIVERDENE PDL - DISK 1026

This starts with a couple of title screens and an attractive 3D vector shape you can fiddle with. It moves on to five uninspiring sub-demos featuring scroll lines and wibbly graphics. Nothing new and all accompanied by terrible chip music, although some of the full-screen scrolling is good. The ST sound chip can do passable sound effects and snippets of music, but isn't good for much more. Why do demo writers insist on attacking eardrums with manic bleeps? Beyond what? is the question you ask after seeing this.

■ Demo writers frequently spend ages creating clever multicoloured scrollers and



then can't think of anything interesting to say. *The Beyond Demo* is certainly no exception.



APACHÉ HELICOPTER SHOW

PAGE 6 LIBRARY - DISK 715

Made for you if you're interested in military hardware and can't get to a library, the *Apaché Helicopter Show* is what the title suggests. 15 classy digitised pictures of the mean machine itself with some terrible music and a scroll line full of interesting facts like what the rotor speed is. And it all ends with the hypothesis that World War 2 could have been won using just eight Apachés. If you believe that, you'll believe anything. Unless you get off on helicopter shots, it's of little interest.

M A sleek machine representing vested interests everywhere. This Show can turn



armoured columns into scrap metal and defence budgets into the red.

GAMES

GRAV 2

LAPD - DISK G 221

A classic rotate and thrust job in the mould of the much venerated *Oids* – hallowed be its name. Your little spaceship spins around helplessly before thrusting straight into a wall at high speed with a spectacular crunch. You can buy plenty of interesting enhancements, from smart lasers to cloaking devices, which makes for confused and frantic stabs

at the keyboard when the action gets hot.

Collision detection is very accurate, almost too accurate – you only have to touch the scenery to disappear into a fireball accompanied by a sampled blast. You get either frustrated or totally addicted as you gingerly nudge your baby past the gun emplacements and tight squeezes. Well-produced and slick – good one.



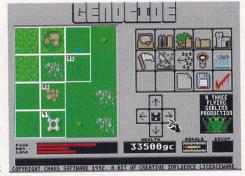
■ Bless his pointed little head. Grav 2 - victory or - er, pretend you never really wanted to play it anyway and you don't care that you died at the same point five times in a

GENOCIDE

NEW AGE PDL -DISK CI 01

This charmingly named progette is a journey into strategy and management. The rules are pretty simple – move your chaps about, build a few things and wage savage and unrelenting war on your opponent. Your can battle against either another human

or your ST. The artificial intelligence isn't too hot – it enables you to send troops charging into enemy territory without much hindrance, but your human enemies are likely to be less forgiving. The graphics are functional and you control the game by pointing and clicking on the icons. There's a level editor thrown in when you've conquered all the example worlds. These excursions can get a little slow as you build up



■ Because of your country's unreasonable request not to be battered into submission, we're going to have to - er, batter you into submission. Genocide is a well-presented strategy game with non-biological action and nihilist terrorists.

your resources, but for amateur dictators all around the country, it makes for a pleasant evening's annexation.

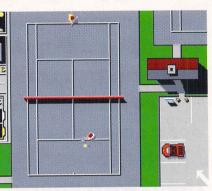


SMASH HIT

PUBLIC DOMINATOR -DISK G 166

A decent bash at tennis, this – your chappie has to whack the ball back showing off your abilities at topspinning, lobbing, slicing and all that tricky stuff. The graphics

are passable and there are some groovy little sound effects. Your ST controls your opponent who wears yellow, the cad. And he probably cheats by using a huge tennis racquet, wearing special springy shoes and spending hours practising, not to mention throwing his racquet around and shouting when he loses. Blimey, no wonder we have so few great tennis stars – at least we have a jolly tasty fruit drink, though.



■ Smash Hit's tennis game seems to take place next to the car park rather than the centre court. Probably just as well because your opponent is bound to thrash you mercilessly in the first few outings.

There is a slight feeling of detachment as you slam the joystick about, but all in all it's a good outing.

Another glass of squash, anyone?

BLOX PAGE 6 – DISK ST 711

A strange sort of hexagonal *Tetris* game, this. The idea is to build up rings around the central point from sections that float in from the edges – you have to use the keypad to steer them

about as they float across the screen. A complete ring disappears and you have to keep going until a section manages to touch the rim.

The whole thing's slightly bizarre at first, but once you get the hang of controlling the little things the chances are that you'll be playing for a just tiny bit longer – if only to prove to yourself that you can do it, honest. Beautifully presented and



■ Funny shaped blocks rain from the sky while you frantically manoeuvre them into position. We've been here before, methinks. Blox is a six-sided approach to a familiar theme, but it's not a wild improvement.

worth the odd session, but it's not really the most gripping of puzzlers.

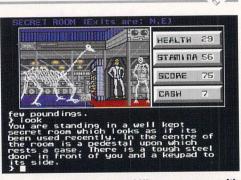


BLACK DAWN

MERLIN PD – DISK MPD 831

It's text adventure time – earth is in danger from some evil alien mob headed by Lord Karn, and one lone hero has the job of saving the day – that's you, incidentially. Starting in a crashed spaceship on

a weird planet, you travel to a nearby city and rapidly get thrown into jail. The puzzles are mostly pretty simple stuff. Some locations have pictures which stay on-screen until you visit a location with different graphics – they vary from fairly terrible to reasonable. You also have a few RPG-type stats to keep an eye on – the important stuff like health and stamina. There are lots of sections of dubious puerile taste which spoils things rather. The game



■ The Natural History museum with its collection of bones, rocks and models. All dead boring, there are some much more interesting things in the closet, like - er, brooms and things. Oh, and a secret room accessed by playing with the coat hanger.

world isn't particularly rich or interesting and the approach is irritating. There are a lot better examples of the genre about.



8833 Mk II HILIPS 14" COLOUR MONITOR



THE GAME

Lotus Turbo Challenge 2 from Gremlin Graphics takes racing games to new dimensions. Pass through hazardous tunnels; twist along log-strewn tracks; speed over sand drifts. It's an action packed test of your skill and speed CAN YOU HANDLE IT!

FINAL CHALLENGE EXCHANGE

If you already own a copy of Lotus Turbo Challenge 2, don't worry. You can return the Free copy from your new monitor and, for just £5, Philips will exchange it for "Lotus - The Final Challenge". You can use this new software to design and create your very own racing circuits.

COMPETITION

WIN A DAY FOR 2 AT THE 1993 BRITISH GRAND PRIX

Imagine grandstand seats at the most acclaimed imagine grandstand seats at the most accurated event in the Formula One year - The British Grand Prix. Philips will fly you and a friend into Silverstone and there's the chance to meet a famous Formula One personality at a celebrity reception. It's then time to take your grandstand seats for the morning's practice. A delicious 4 course lunch follows; then it's back to your seats for the Grand Prix itself.

It's all part of an exciting first prize package in the Turbo Challenge Competition. And, if you don't get the chequered flag, there are 40 runner-up prizes of Ferrari Testarossa remote control cars

CARS TO BE WON!

A DAY AT THE 1993 GRAND PRIX AND 40 REMOTE CONTROL FERRARI TESTAROSSA

- THE MONITOR • 14" CGA COLOUR MONITOR
- OFFICIAL UK PRODUCT
- 1 YEAR ON-SITE WARRANTY
- FREE! LOTUS TURBO CHALLENGE 2 SOFTWARE
- RESOLUTION: 600x285
- HORIZONTAL FREQ: 15 6KHz
- .42mm DOT PITCH
- STEREO AUDIO SPEAKERS
- EARPHONE SOCKET
- TTL-DIGITAL & RGB-ANALOG COMPUTER INPUT SIGNAL
- CVBS VIDEO INPUT SIGNAL
- DARK GLASS SCREEN
- GREEN SWITCH TO SIMULATE MONO DISPLAY
- AMIGA, ST, PC COMPATIBLE
- CABLE REQUIRED See Accessories below

PHILIPS 8833 Mk 2 14" COLOUR MONITOR + FREE LOTUS TURBO CHALLENGE 2 SOFTWARE INC VAT Ref: MON 8833

USING

Switch to a monitor and SEE WHAT YOU'RE MISSING

If you are currently using your ST or Amiga with a domestic television set, then you are missing out on picture quality.

Unfortunately, because your TV is used to receiving inferior UHF transmissions from the airwaves, it only has a UHF socket. So, your computer has to downgrade its high quality digital RGB (Red, Green, Blue) signal to UHF to enable your TV to receive it. However, because your TV can only display using RGB, it has to convert the UHF signal back to RGB before it can put a picture on the screen. Of course, every time you convert from one signal to another, there is a loss of quality which means that the final picture on the TV is not as good as the original signal from your computer.

You can overcome this with a monitor, which has an RGB socket, not UHF. Your computer will recognise this, and send its original RGB signal to the monitor which will display the image directly to the screen with no loss of quality.

The Philips 8833 is the best selling colour monitor for the Atari ST and Commodore Amiga. Ideal for game playing, it offers excellent colour graphics and has stereo audio speakers for enhanced stereo output from the ST-E and Amiga. The performance and reliability of the 8833 is exceptional, which is why we are confident to offer 12 months ON-SITE warranty with every Philips 8833 monitor. Plus, every 8833 from Silica comes with FREE Lotus Turbo Challenge 2 software, all for only £199 inc VAT

For maximum enjoyment of Lotus Turbo Challenge 2, we are pleased to recommend the best selling Zip Stik Super Pro Joystick. The Zip Stik is probably the best joystick currently available and the world's fastest rapid fire! At only £12.95, it represents superb value for money.

- Durable steel shafted handle 8 microswitches Handheld/table top 2 fire buttons
- Triple action auto-fire
- Single shot Short rapid burst Megablast continuous fire
- Rubber suction cups
- Extra long lead









COMPUTER CLEANING £19.95



All of the accessories below

are suitable for use with the Philips 8833 Colour Monitor

CABLE - £9.95

You will need a cable to connect the Philips 8833 to your computer. These cables are normally £14.95 each but, if you buy one from Silica at the same time as your new monitor, we will give you a £5 discount so you pay 69.95 he var. Make sure you order the correct cable for your computer.

CAB 5510 - ST-E STEREO SOUND CAB 5508 - ST-FM MONO SOUND CAB 5050 - AMIGA STEREO SOUND



92A

ALL PRICES INCLUDE VAT AND FREE DELIVERY IN THE UK MAINLAND

SYSTEMS SILICA OFFER

- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.

 TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.

 PRICE MATCH: We normally match competitors on a "Same product Same price" basis.

 ESTABLISHED 14 YEARS: Proven track record in professional computer sales.

 £12 MILLION TURNOVER (with 60 staff): Solid, reliable and profitable.

 BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.

 SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.

 THE FULL STOCK RANGE: All of your requirements from one supplier.

 FREE CATALOGUES: Will be mailed to you with offers + software and peripheral details.

 PAYMENT: Major credit cards, cash, cheque or monthly terms.

PAYMENT: Major credit cards, cash, cheque or monthly terms.

Before you decide when to buy your new monitor, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals and software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".





MAIL ORDER: Order Lines Open:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 No.Late Night Opening	4DX Tel: 081-309 1111 Fax No: 081-308 0608
LONDON SHOP: Opening Hours:	52 Tottenham Court Road, London, W1P No Late Night Opening	OBA Tel: 071-580 4000 Fax No: 071-323 4737
LONDON SHOP:	Selfridges (1st Floor), Oxford Street, London, W1A	1AB Tel: 071-629 1234
Opening Hours:	Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm	Extension: 3914
SIDCUP SHOP:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14	4DX Tel: 081-302 8811
Opening Hours:	Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm	Fax No: 081-309 0017

COPY HOLDER

To: Silica Systems, STFOR-1192 , 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX PLEASE SEND INFORMATION ON PHILIPS MONITORS

Mr/Mrs/Miss/Ms: Initials:	Surname:
	and larger
Address:	TO THE SECOND SE

Tel (Work): ... Tel (Home):

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

Which computer(s), if any, do you own?.....

UTILITIES

ALICE

PD ST - DISK GL 601

A straightforward text editor for writing and editing text. It runs under GEM with the familiar menus and windows. Everything is simple and quick. It's not a full blown word processor - there's no spell checking or fancy stuff

like that, just the standard set of text manipulation tools including block functions and search and replace. There are plenty of keyboard shortcuts for manipulating the text and the menu functions. The length of your text is only limited by memory and you can have multiple documents open at once. A



■ Alice is a smart GEM-based text editor - you can save configurations and mess with blocks. Why "Alice," though? What's wrong with "Ermintrude"?

ers) very flexible cut/paste operations

good sturdy program for all your basic text editing needs. Very good.

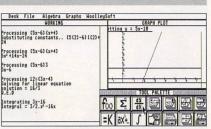


GODEL

GOODMANS PDL - DISK GD 1646

Excellent for your homework, Godel is a maths processor which can handle arithmetic, solve equations, expressions, do calculus, plot graphs and then print it out. You can define constants, do a spot of summation and integration. The full

version can even show the workings out, so it's ideal for homework, though this is, of course, cheating. This is Shareware and some of the functions are disabled, but if you want to expand into non-linear equations, a registration fee of a tenner is in order. It's no Einstein



■ Maths professors - easy life. Godel can handle quadratics no problem and plot the results. Now just disguise your ST as a huge gonk and smuggle it into exams.

but can handle maths up to basic A level. If you're into the numbers game it could save you loads of time.



STOS ADVENTURE CREATOR

MT SOFTWARE - DISK P 70

The STOS adventure program is a basic verb/noun text adventure-writing system. It's easy to use but only creates simple adventures unless you put in lots of effort - adventures are only as good as the plot. The main program is used to create your loca-

tions, messages, connections and objects. These are loaded into a STOS Basic program and the details are added using STOS - you can't compile the finished programs but you can include pictures. Since it's written with a full-blown BASIC you



I It was a cold, stormy and dark night as our lone hero journeyed bravely into the cliché-ridden world of the text adventure.

can add extra routines. It's no STAC but it's a painless introduction © to the genre.



WORD EXTRACTOR

NIGHTSHIFT PD

- DISK U 56

Are you one of those sad individuals who enjoys puzzles where you have to find as many four or more letter words as you can from one long word? Word

Extractor can do the job for you, using a 25,000 word dictionary, though this does rather defeat the object. It can also solve words from crosswords when you've got a few of the letters, do anagrams and find similar sounding words. If you are stumped for a solution to a partlysolved word puzzle or have a com-



■ Word Extractor's functional menu - you pick the function, output the format and the words to work on Does the job OK, finding obscure words hidden in others.

petition entry or something, it's just the ticket. Needs a larger dictionary, though.



ART AND D

ARTIST FREEHAND

LAPD - DISK L 16

Another paint package enters the ring written in BASIC. It works like Degas Elite - select the function from the main screen with the left mouse button and flip to the workscreen with the right. All the main functions are covered and there's even an animation studio with up to 99 frames. There are no coordinates available, nor is there an on-screen zoom box - the zoom is an annoyingly fixed small size. Overall, it does the job competently but without shining. Crack Art's crown as the all-time best PD art program of all time isn't in any danger.



Artist Free hand's moderate array of goodies includes Chalk. Smear and Shade - it also works

MOZART'S DICE

PAGE 6 LIBRARY - DISK 704

A fascinating program that instantly writes bits of Mozart for you. The bars are written in a random order determined by a throw of the digital dice and it's based on a game first released in 1792, the year after the man's death. It can play pieces through the monitor or, much better, through a MIDI instrument. There are a zillion possible combinations all sounding very Mozart-like, and you can print out the finished work. Lots of initial fun-factor but not very much long-term appeal.



■ Yo. rock me, Mozart dude, lav some bad waltzes on the people. Mozart's Dice creates tunes in the master's

ART TUTOR

LAPD - DISK A 58

Art Tutor is a series of pictures and text leading you through basic aspects of drawing, from the use of colour to the human form. Each gives screens showing the basic techniques, dividing the body into eight parts using a grid. The information is brief and there's nothing you can't find in an elementary art book. Screens can be saved as pictures for you to use as a basis for your own work. It's Shareware and registration brings a paint program and a manual. If you're a novice at pixel manipulation, it could provide some pointers.



I "Think of me as one of kids," said the new art teacher brushing chalk from his velvet iacket. Art Tutor offers an intro to the basics.

J 3 40

THE SOFTWARE YOUR...

Grav 2 - a game of arcade skill that he consistently beats you at.

M Demo 4 - for an impromptu rave in her bedroom along with all the fizzy drink in the house.

Godel – the maths lessons cheat - just in case you use it for your homework.

Alice - terribly sensible text editor with a sexy name - perhaps he though it was something else.

Word Extractor - an indispensable aid to cheating at the word games and impressing her friends.

THE FORMAT PD DIRECTORY

■ Where to go for Public Domain software demos, games and utilities for around £3 a disk! If you write to any of these libraries for a catalogue, enclose an SAE. ■ Budgie games are available from all PD libraries indicated by a (B). Simply mention the disk number (above the review) when you order

SOUTH OF ENGLAND

16/32 PDL, 35 Northcote Road, Strood, Kent ME2 2DH @ 0634 710788

ARROW PD, 6 Kents Orchard, Perry Street, South Chard, Somerset TA20 2QB

ATARI ADVANTAGE, 56 Bath Road Cheltenham, GL53 7HJ = 0242 224340

AWESOMEDEMOS, 3 Mason Road, Seaford, East Sussex BN25 3EE

B-SOFT, 2 Oliver Drive, Calcot, Reading, Berks, RG3 5XN = 0734 419981

DRAKE PD, 12C How Street, The Barbican, Plymouth, Devon PL4 0DA

EVPD, 15 Cleeve Road, Gotherington, Cheltenham, Glos GL52 4EW

FREAKS PDL, 29 Leap Valley Crescent, Downend, Bristol BS16 6TQ (B)

IMAGEART, 19 Brenda Road, Tooting Bec, London SW17 7DD = 081 767 4761

MELVILLE MARRIOT MUSIC MEDIA 46 Market Square, Whitney, Oxon OX8 6AL ☎ 00993 779500

MERLIN PD, 11 Grange Close, Minchinhampton, Stroud, Glos GL6 9DF

MERTON PD, 10 Grasmere Avenue, Merton Park, London SW19 3DX

MT SOFTWARE, Greensward House, The

NEW AGE PDL, 30 Anderson Estate, Lower Road, Hockley, Essex SS5 5NG © 0702 232826(B)

PARADISE COMPUTERS, 11 Winfield Avenue, Patcham, Brighton, East Sussex BN1 8QH PD ESSENTIALS, 22 Fern Avenue, Mitcham, Surrey CR4 1LS

PDSSC, 5 Walnut Close, Barkingside, Essex IG6 1HE ϖ 03548 448

PROBUS, Birchy Hill, Sway, Lymington, Hampshire SO41 6BJ

PROPHECY PD, 390 Coulsdon Road, Old Coulsdon, Surrey CR5 1EF = 0737

PUBLIC DOMINATOR PD ATARI, PO Box 801,Bishops Stortford, Herts CM23 3TZ. = 0279 757692 (B)

PUBLIC SECTOR PDL, 50 Ripon Road, Stevenage, Herts SG1 4NA = 0438 364722 /

RIVERDENE PDL, 30a School Road, Tilehurst, Reading, Berks RG3 5AN ≈ 0734 452416 (B)

SENLAC, 14 Oaklea Close, Old Roar Road, St Leonards On Sea, E Sussex TN37 7HB ☎ 0424 753070

SEVEN DISK, Digswell Water Lodge,

SOFTVILLE PD, Unit 5, Stratfield Park,

SOLENT SOFTWARE, 53 Rufus Gardens, Totton, Hants SO4 3TA # 0703 868882

STE CLUB, The Lodge, Delly End, Whitney, Oxon OX8 5XD

STEVENS PD, 14 Depot Road, Horsham, West Sussex RH13 5HA

TUMBLEVANE PDL, 6 West Raod, Emsworth, Hants PO10 7JT = 0243 370600

WARPZONE PDL, 53 Ropewalk, River Street, St Judes, Bristol BS2 9EG

WIZARD PD, 178 Waverley Road, Reading, Berks RG3 2PZ = 0734 574685 (B)

ALPHA COMPUTING, 32 Meadow Drive, Halifax, West Yorks HX3 5JZ

AKORE SHAREWARE, 7 Fishergate Point,

D W STABLES, Atari PD and Commercial, PO Box 78, South Shore, Blackpool FY1 6AD # 0253 404550

GOODMAN PDL, 16 Conrad Close, Meir

LAPD, 80 Lee Lane, Langley, Heanor, Derbys DE7 7HN = 0773 761944 (B)

748422

NIGHTSHIFT PD, 50 Averill Road, Highfields, Stafford, Staffs ST17 9XX

PAGE 6 PUBLISHING, PO Box 54, Stafford ST16 1DR = 0785 213928 (B)

PD ST KIER BAILEY, 95 Elton Road, Sand bach, Cheshire CW11 9NF = 0270 762520 (B)

PLATINUM DISKS, 181 Anson Close, Padgate, Warrington, Cheshire WA2 OHJ **☎ 0925 820693**

ST CLUB, 2 Broadway, Nottingham NG11 1PS. = 0602 410241 (B)

STING PUBLIC DOMAIN, 23 Manor Grove,

THE SOURCE PD, 7 Shearwater Lane, Norton, Stockton-On-Tees, Cleveland TS20 1SH = 0642 550896

TOWER PD, PO Box 40, Thornton-Cleveleys, Blackpool FY5 3PH

TRUST PD, 18 The Park, Southowram, Halifax, HX3 9QY = 0422 341606 (B)

CALEDONIA PDL, 250 Oldtown Road, Hilton, Inverness,IV2 4PT = 0463 225736 (B)

THE CIRCULAR PD LIBRARY, 14 Morrison Drive, Lennoxtown, Glasgow G65 7BA

FLOPPYSHOP ST, PO Box 273, Aberdeen AB9 8SJ = 0224 586208 (B)

OFFICE CHOICE, Suite 14, Avon House, Town Centre, Cumbernauld G67 1EJ (B)

STATE 808 PDL, 3A Old Lanark Road, Car-

luke, Scotland ML8 4HW

WOOLLEYSOFT, Humblesknowe Cottage, Ramolye, Dunblane, Perthshire, Scotland FK15 0BA

WALES
SHOESTRING SOFTWARE PDL, 78 Carmarthen Road, Swansea SA1 1HS

PD 4U, 4 Sintonville Avenue, Belfast BT5 5DG = 0232 672338

ALGEMENE COMPUTER CLUB NEDERLAND (ACN), Postbus 5011, 200 CA Haarlem □ Holland 023 351100 (B)

A-ONLINE, 1229 East Mohawk Ave, Tampa, FL33604 USA

□ 0101 813 2371656

ATARI ST USER GROUP NORWAY, c/o SA Jensen, N-3630 Rodenberg, Norway

DOM' PUBS,10 Rue du Vergeron 38430 Moirans, France

LTPD, 37 Montye Ave, Box #2, Toronto, Ontario, M6S 2G8, Canada

PUBLIC DOMAIN CORPORATION, 4320 - 196th SW, Suite B-140, Lynnwood, WA 98036-6721, USA = 0101 206 745 5980

BUYER BEWARE: Any library included in this directory does not imply that ST FORMAT endorses or recommends any PD Library in any way.

■ If you run a PD library not listed here and wish to be included, or if you want to amend any details, send full details and a copy of your latest catalogue to: PD Directory, ST FORMAT, 30 Monmouth Street, Bath, Avon BA1 2BW

October

issue

on sale September



ADVENTURE and DANGER

in this month's *Mountain Biking UK*

- Bungie Jumping on a bike!
- Testing Waterproof gear with a fire engine!
- News about the Nationals
- Plus Adventure in South America
- FREE POSTER with every issue

Mountain This and loads more action for only £1.95 **Biking** UK

Britain's best-selling bike magazine



It's sophisticated, it's up with the best-sellers and it's from Atari. Andy Hutchinson tries out the Lynx ROUNDUP



■ He's big, he's hairy and he doesn't shave his legs. Toki's on a mission to regain a more manlike shape. Oh - and his bird, too.



At first this seems like a bizarre concept - you have been turned into an ape by a wizard who has also stolen your girlfriend. Sound familiar? This is a beat-'em-up with shooting bits and tons of variety.

The programmers have done an amazing job. Toki is a faithful conversion of the arcade game, from the formations of the aliens to the colour schemes on the volcanoes. All of which means that this is one hell of a scorching Lynx cartridge.

There are two main ways of defeating the woodland animals and monsters who stand in your path - you can blow them to bits with your in-built gorilla-gun or just jump on their heads. There are crash helmets to protect you from bullets, trainers so you can jump higher and coins to boost end-of-level bonuses.

Toki is totally addictive. Once you've battled your way past the first end-of-level guardian you won't put your Lynx down until the batteries or the national grid fails. It's fun, playable and huge. No collection is complete without Toki.



■ You own a castle, some cannons and a large amount of cannonballs. An armarda is invading. This is not the time to mow the lawn.

Rampart

This is another coin-op conversion - a wonderful game about blasting armadas of invading ships and capturing land. If that sounds like an odd premise for a game, check out the screen shot. Not exactly impressive, is it? Appearances, as David Mellor would be the first to tell you, can be deceptive, though. Rampart is an addictive game with classy sampled speech and fast, frantic action.

You start with three cannons. You then place these on your castle defence and, when the order comes, start blowing the invading ships into matchsticks. Of course, your life isn't that easy - these boats fire back. In fact, they can raze your castle to the ground in a blistering attack of firepower. You rebuild your castle by rotating blocks of masonry Tetris style around your battlements.

Rampart takes a while to get into, but soon grabs your attention and traps you with that elusive one-more-go element - it gets extra points because you can plug in a ComLynx lead and your friend can play the invading army. All in all a teasing and refreshingly designed shoot-'em-up.



■ Down the mines one day, Eric the robot discovered a fortune in jewels which the government promptly confiscated in lieu of Poll Tax.

Crystal Mines 2

Don't ask what happened to the first Crystal Mines, but this is the sequel. It's a very old format in which you have to collect crystals, zap the odd nasty and avoid getting crushed by boulders. Oh, and there's a time limit, too.

The scrolling in this game's wicked. It moves extremely fast leading to accidents with on-coming rock monsters. The temptation is to zoom around the muddy levels, zapping at anything that gets in your path. Do this, however, and rocks drop on you, boulders explode and you

die. Repeatedly. There are loads of power-ups to ease your task over the 100 levels including power tools, strong lasers, bombs and cash.

Crystal Mines 2 is a devious little game whose addictive qualities creep up on you gradually. Great sound, swift graphics and loads of levels mean it's likely to outlast the rainy weekend you bought it for.

> Type in the level code 0000 for a treasure trove of goodies, powerups and a huge end-of-level bonus.



■ Barbaric, nasty, blood thirsty and plain damned entertaining. Ice Hockey's not a game for fans of perfect teeth.

Hockey

Or to be more precise, Ice Hockey. Wonderful little game, this, and it's made all the more playable by the fact that you can link up two Lynxs with a ComLynx lead and play against your friends. This is a well-researched representation of ice hockey, American style.

There are four leagues of teams featuring different standards of teams, so you can win a game against your Lynx and progress through the leagues. Far too often games are gratuitously hard which has a very demoralising effect - but

that's not the case here. The mechanics of zipping around on ice have been well analysed there's inertia built into the movement so you can't just suddenly stop. This attention to detail is echoed in things that may seem trifling. For instance, it's possible to fight other players - this is, after all, ice hockey and violent for no reason. You can even turn the referee off to make those matches real fun.

Hockey is a zippy game with loads of lasting interest. It has great graphics, plenty of options and is assured of a long shelf life.

R S

YNX REVIEWS

et's face it, those handhelds are creeping into every corner of the world. You open a magazine or newspaper and there's some celebrity playing with a rectangular piece of beige plastic. It's worth noting, therefore, that the best handheld ever comes from Atari. It looks the Gamegear and Gameboy in the eye and says "Game over."

We've decided to start covering Lynx software because (a) it's what you want (b) none of our "competitors" are and (c) we figure if you're going to invest in a handheld, you could do far worse than investing in Atari's. It has colours which challenge the Amiga, sound as good as the Megadrive, sprite scaling and rotation to beat the SNES and a range of games which makes the Sega Gamegear and Nintendo Gameboy look decidedly limited.

So, here are eight games, four of them are brand new and four have been out for a while. As you can see, they aren't all brilliant, so make sure you check out our reviews before spending your cash. They're all from Atari, and each of them costs £29.99. Anyway, on with the show.



Batman Returns

Holy licensing deal! This game is a linear beat-'em -up where you have to defeat the Penguin and his armies. Graphically, it's great. Batman jogs through a world with fantastic parallax scrolling. He can jump up on boxes, girders or window sills and somersault gracefully over bad guys who make the mistake of wandering on-screen. There are four waves which might seem a bit limited, but it is hard, so it might take you a while to see all the levels. On your journey you have to scrap your way through the Red Triangle

Circus Gang, Catwoman, the authorities, the Penguin Commandoes, the Emperor Penguins and a vat of toxic waste.

Batman Returns is tough. The easy way of progressing is to run past as many obstacles as you can. You can, of course, fight the bad guys; the batarang, acid and bombs are all in your arsenal. But death comes swiftly. You can have the quickest reactions in the world, but when a window blows up, you lose wodges of energy and die very unfair. It's great if you thrive on challenges - if you don't, stick with Toki.



■ "Where does he get those wonderful toys?" Dare one venture to answer "Atari"? Batman, the Lynx and the Licensing Deal Returns.

Shadow of the Beast

Talk about an old game - this was one of the first games to ever appear on the ST all those decades ago. It's a simple linear beat-'em-up where you've got to avoid, jump and thump your way past obstacles and weird creatures while seeking out particular weapons or keys.

This game bears little resemblance to the ST version - it's far, far better. There are too many levels of parallax scrolling to count, and it scrolls and looks extremely attractive indeed. However, all this doesn't save the game from being

tedious to the point of brain death.

Linear beat-'em-ups need a lot more than flashy scrolling to save them from an early retirement in the bargain bin at your local computer shop. Shadow of the Beast doesn't have any of these redeeming features, nasties follow on after each other like tedious arguments and, in the end, you'll simply want

to hit the off button and instead watch something exciting on TV like Blockbusters. Good graphics and sound, but duff gameplay and a boredom rating well off the scale.



■ For some of the funkiest parallax scrolling ever, check out Shadow of the Beast, but don't expect much from the gameplay.

Basketball

Curious concept this - Street Fighter meets Michael Jordan. What we have here is a basketball game in which it's perfectly OK to hit or kick your opponents when you want to get the ball off them. Apparently this is the kind of thing which happens on most basketball courts anyway, so it could be argued that Atari are going for a new kind of gritty realism in their games.

The visuals in this game are a bit dull. The court is viewed from the side and you can see about half of it at any one time - it scrolls left or right as the action moves up and down court.

There are eight opponents that you can do battle with in the one player version, but the chances are (we had a pre-production EPROM) that the ComLynx version is going to enable you to scrap with your Lynx owning friends - you can all expel your underlying aggression on the court.

> Despite that, however, Basketball is unlikely to hold your interest for too long - this basketball game is dull and repetitive. Avoid at all costs.



■ Dare one suggest that "White Men Can't Jump"? No, well, check out this game then in which no one does much jumping.

Oh dear, this one's a bit of a major league let down. I've had the misfortune of playing loads of fruit machine and gambling simulators over the years and they have all, without exception, been extremely bad. You see, the whole point of gambling is the thrill of winning or losing money. Remove this and the whole activity becomes utterly pointless. Much like computer gambling simulators.

This game's set in a Las Vegas style casino. You have a few thousand dollars and the idea is to win more. You can do this on the crap table, the roulette wheel or two different kinds of fruit machine. Of these, the most interesting is the roulette wheel because it's completely unfathomable. There are plenty of little coloured squares on which to place your chips, though, and I inexplicably won about \$3,000 on one spin of the wheel. Did this excite me though? Did it hell.

Give this a wide berth, it's just dull. The only use for this game is for members of Gamblers Anonymous who need a harmless hit. Lack-lustre and as interesting as the tile department in the local DIY shop.

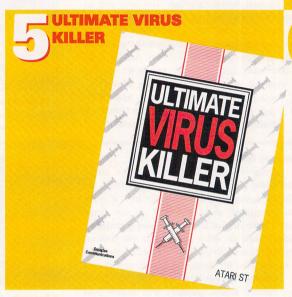


■ This is the man who put £1,000 on red and it came up black. But if he was playing Casino he wouldn't have given a monkey's.

Your money's unhappy in the bank,









Just look at those features

STEREO MASTER This sound sampler offers real-time special effects echo, reverb and much more - plus **STE** stereo support **DESCRIPTION: Stereo Master** PRICE: £29.95 ORDER No: ST394

PLAYBACK & QUARTET Playback stereo sound cartridge plus the excellent Quartet sample sequencer (RRP £49.95) for just a tenner more! **DESCRIPTION: Playback & Quartet** PRICE: £29.95 ORDER No : ST372 DESCRIPTION: Playback ONLY PRICE: £19.95 ORDER No: ST379

SEQUENCE **MUSIC SALES** This easy-to-follow book guides you through the whole process of writing songs on a **DESCRIPTION: Music in Sequence** PRICE: £12.95 ORDER No: ST398

MUSIC IN

SEQUENCER ONE **PLUS UPGRADE KIT GAJITS**

Upgrade to Sequencer One Plus for a host of extra features including the unique Juke Box screen, Diamond Drag note-editing system. improved sample playback, tempo maps, auto count-in and

DESCRIPTION: Sequencer One Plus PRICE: £39.95 ORDER No: ST395

ULTIMATE VIRUS KILLER **DOUGLAS** COMMUNICATIONS The best virus killer around - it recognises over 60 viruses, can repair over 450 different game disks if they've been virus-damaged, and can even hunt out link

viruses. Essential. DESCRIPTION: Ultimate Virus Killer PRICE: £9.99 ORDER No: ST414

AWARD WINNERS COMPILATION Four incredible games:

FORMAT Gold winning god-game Populous and footy sim Kick Off 2, plus arcade romp Space Ace and addictive puzzler Pipe Mania. **DESCRIPTION: WINNERS** COMPILATION PRICE: £20.99 ORDER No: ST413

FUN SCHOOL 4 EUROPRESS SOFTWARE The follow-up to the classic educational packages from Europress. All three modules are available separately here. **DESCRIPTION: Fun School Under 5s** PRICE: £17.99 ORDER No: ST389 **DESCRIPTION: Fun School 5 - 7s** PRICE: £17.99 ORDER No: ST390 **DESCRIPTION: Fun School 7 - 11s** PRICE: £17.99 ORDER No: ST391

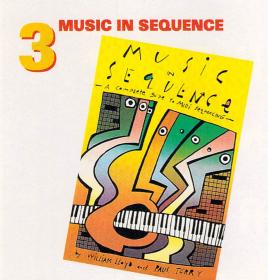
MATH BLASTER PLUS ABLAC COMPUTEC LTD Five programs, editor and record facility. "A first choice maths tutor for primary school chil-**DESCRIPTION: Math** PRICE: £29.95 ORDER No: MATH

J 3 D

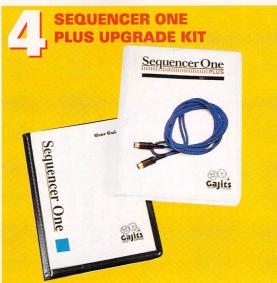
0

Ζ

give it to us instead. Get an STF bargain









ST FORMAT EVEN BIGGER VALUE

Get hold of £25
worth of software
and make certain
you get your hands
on a copy of
Britain's biggestselling ST
magazine each
and every month

for a whole year. Turn to page 50 now for our astonishing offer.

STF BINDER

ST FORMAT

Keep your collection of the world's top ST magazine together in this quality binder – now in a bigger size!

DESCRIPTION: One Binder PRICE: £5.95 ORDER No: ST112

DESCRIPTION: Two Binders
PRICE: £10.00
ORDER No: ST1122



Just make a note of the name of the package you want to buy and the order number next to it. Then fill in the handy coupon opposite.

■ If you wish to order by credit card or have any queries, ring the ST FORMAT Mail Order Hotline on

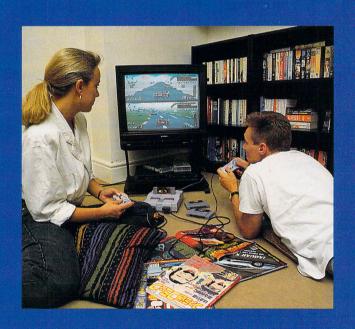
HOW TO ORDE

ST FORMAT mail order

Vame				
Address				
Postcode		Te	lephone	
Description			Price	Order Number
		TOTAL ORDER		
Viethod of paymo	ent – please tid	ck appropriate box		
Access	☐ Visa	☐ Cheque	☐ PO	
Credit card No	1			
Expiry date			Yer of Carrier	

Please tick here if you do not wish to receive direct mail from other companies
Please make all cheques payable in pounds sterling to:
Future Publishing Limited.
SEND THIS FORM TO: ST FORMAT,
FREEPOST, Somerton, Somerset, TA11 7BR.

BECAUSE HOW YOU PLAY
IS AS IMPORTANT AS
WHAT YOU PLAY,
FUTURE PUBLISHING
ANNOUNCES A
MAGAZINE THAT BRINGS
YOU THE BEST OF BOTH.



The Super Nintendo: The world's best games machine, worked on by the world's best programmers. This year it's been the hot item to talk about, next year it'll be the one machine you simply have to own.

Super Play magazine: Brought to you by Europe's leading publisher of games magazines, Super Play will be the best because Future magazines have always been the best.

INDEPENDENT SUPER NINTENDO MAGAZINE



Super Play. Catch the excitement for yourself. First issue October 1st.

Ricoh UK Ltd is part of the worldwide Ricoh Group of companies, originally established in Japan, in 1936. With a turnover of over \$5 billion and 37,000 established in Japan, in 1936. With a turnover of over \$5 billion and 37,000 employees, Ricoh have been producing computers and peripherals since 1971 and are the world's second largest manufacturer of Laser Printer engines. Ricoh have employed their expertise to produce a 'first' in laser printers for the world market, the LP1200 with FLASH ROM.

the LP1200 with FLASH ROM.

Fully HP LaserJet III™ compatible, the new LP1200 employs industry proven laser technology. Unlike LED page printers, which use light emitting diodes, the LP1200's laser lightsource, focussed by high quality lenses, is able to produce the most accurate and intense printed images. It has 2Mb of RAM built-in and requires no additional RAM to print a full A4 page of graphics at 300dpi. Its fast, efficient processor and engine, together with a straight paper path design, allows printing at a full 6 pages per minute. Unlike its competitors, this advanced laser engine enables the LP1200 to address a range of print resolutions up to 400dpi. A special driver, combined with the 2Ms RAM upgrade, enables the Rich LP1200 to print at 400dpi from Windows 3.

Again, unlike the competition, the LP1200 includes a powerful Again, unline the Collipetitori, the EFF200 includes a powering document description language as standard. This language, 'LAYOUT', offers unique opportunities to develop custom-made printing systems. Forms and document templates can be designed and stored electronically in the LP1200's FLASH ROM, alleviating the need for pre-printed forms!

The Ricoh LP1200 is a genuine laser printer and not an LED printer. Make sure you check out the competition!

EPSON EPL4100

9945

300 x 300

YES

0.5Mb

<45 secs

<20 secs

YES

11

YES

100

YES 1.65p

60-157

<50dB

HP L/JET

£1 179

300 x 300

4ppm

YES

1Mh

<60 secs

<40 secs

YES

70

2.00p

60-105

YES

31.7dB

43 3dB

TALLY MT904

£699* £1.099

300 x 300

4ppm

YES

YES YES 1Mb

60 secs

34 secs

YES YES

60-120

<35dB

IBM 4029 Model 010

£1 099

300 x 300

5ppm

1Mh

33 secs 20 secs

16

1.640

60-131

RICOH LP1200

£1 195

400 x 400

YES

6ppm YES

2Mh

YES

45 secs <15 secs

YES

YES

14

YES YES

100

1.65p

60-157 YES

YES

<48dE

See how the Ricoh LP1200 compares

to its Laser Printer Competitors

Average Street Price (excl. VAT)

Maximum resolution in dots per inch

traight Paper Path CL 5 Printer Command Language

HP-GL/2 Vector Graphics included Resolution Improvement/Enhancement

ull A4/300 dpi graphics with standard RAM

Document Description Language included

Upgradable Firmware IC Card Slot Scalable Resident Fonts - in HP LJ III Emulation

AGFA Intellifont Scalable Font Technology
HP Laser-Jet III Emulation Included
EPSON FX Emulation Included

Able to print on card (157gsm - Manual Feed)

IBM ProPrinter Emulation Included

rotective cover on standard tray

Official RRP (excl. VAT)

Windows 3 Driver @ 400 dpi Print Speed

SHOWN WITH UNIVERSAL FEEDER TOP TRAY (OPTIONAL EXTRA)

FEATURES

tandard RAM

Warm Up Time First Page of Text Output

Resident Bit-Mapped Fonts

Standard Tray Capacity

Standby -Noise Level rinting -Noise Level

Cost per copy Min-Max Paper Weight in gsm Able to print on OHP Film COMPATIBLE

FLASH **UPGRADABLE!** ROM



o Ething & highlight







RICOH LP1200

6 PAGES PER MINUTE Using a straight paper path

● PCL5 - INC HP-GL/2

- Latest version with scalable fonts SHARP EDGED PRINTING Ricoh FIAL (Fine Image ALgorithm) enhances resolution
- **400dpi RESOLUTION** (Requires 4Mb RAM) Default res 300dpi. Will address 200, 240 & 400dpi.
- 2Mb RAM AS STANDARD For a full A4 page of graphics at 300dp
- UNIQUE FLASH ROM For controller upgrade and storage
- IC CARD SLOT (PCMCIA/EIDA Compatible)
 For programmable FLASH ROM cards
- **EXPANSION BOARD SLOT** For improved connectivity to additional systems eg. Coax/Twinax, PC-LAN etc
- LAYOUT
- Document Description Language SERIAL + PARALLEL PORTS
- For connection to PC compatibles and other computers 1 YEAR ON-SITE WARRANTY

Next working day response

Silica Systems are pleased to introduce the revolutionary, new Ricoh LP1200. It has all of the specifications that you would expect to see in today's most technically advanced laser printers, plus a unique additional feature which places it far ahead of the competition - FLASH ROM. This 'Future Proof' technology protects the investment you make when you buy a Ricoh LP1200, as it enables you to keep up to date with new laser firmware developments. FLASH ROM is an area of memory inside the LP1200 which holds the printer's controller instruction firmware. If new firmware is developed, undeted printer expressed honours are to the bedeuted and in this memory. which holds the printer's controller instruction firmware. If new firmware is developed, updated printer command languages etc, can be downloaded into this memory. Other manufacturers would require you to buy a new printer! Fonts, macros, graphics and additional emulations can also be stored in FLASH ROM, or on removable, industry standard FLASH ROM IC cards. The new Ricoh LP1200 is the only laser printer to offer this FLASH ROM facility. The LP1200 comes with a 100 sheet A4 paper tray and the facility to feed single sheets of paper and card up to 157gsm. An optional extra universal feeder provides the facility to feed up to 150 sheets, from a minimum size of 98mm x 148mm to a maximum size of 216mm x 356mm at weights up to 158gsm, up to 15 envelopes, overhead transparencies and

labels automatically.

Consumables + Accessories

CODE	PRODUCT	PRICE Exc VAT
CAB 7500	Cable for PC/ST/Amiga	£8.47
	Universal Feeder (2nd Tray)	£100.00
LAA 5262	2Mb RAM Module	£149.00
LAA 5210	Developer/Toner Cartridge	£65.00
LAA 5225	OPC Cartridge (Drum)	£89.00
LAA 5312	A4 paper Tray (100 Sheets)	£35.00

CALL FOR A FULL PRICE LIST

MAIL ORDER:

LP1200 WITH SINGLE BIN & 2Mb RAM SILICA PRICE: +VAT= £821.33 Ref: LAS 5200

SYSTEMS

- FREE OVERNIGHT DELIVERY: On all hardware orders shipped in the UK mainland.
 TECHNICAL SUPPORT HELPLINE: Team of technical experts at your service.
 PRICE MATCH: We normally match competitors on a "Same product Same price" basis.
 ESTABLISHED 14 YEARS: Proven track record in professional computer sales.
 £12 MILLION TURNOVER (with 60 staff): Solid, reliable and profitable.
 BUSINESS + EDUCATION + GOVERNMENT: Volume discounts available 081-308 0888.
 SHOWROOMS: Demonstration and training facilities at our London & Sidcup branches.
 THE FULL STOCK RANGE: All of your requirements from one supplier.
 FREE CATALOGUES: Will be mailed to you with offers + software and peripheral details.
 PAYMENT: Major credit cards, cash, cheque or monthly terms.

FREE CATALOGUES: Will be mailed to you with offers + software and peripheral details.

PAYMENT: Major credit cards, cash, cheque or monthly terms.

Before you decide when to buy your new laser printer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after you have made your purchase, when you may require additional peripherals or consumables, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for almost 14 years and, with our unrivalled experience and expertise, we can now claim to meet our customers' requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest FREE literature and begin to experience the "Silica Systems Service".





LONDON SHOP: Opening Hours:	Mon-Sat 9.30am-6.00pm
LONDON SHOP: Opening Hours:	Selfridges (1st Floor), Oxford Street, London, W1A 1AB Tel: 071-629 1234 Mon-Sat 9.30am-6.00pm Late Night: Thursday until 8pm Extension: 3914
SIDCUP SHOP: Opening Hours:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-302 8811 Mon-Sat 9.00am-5.30pm Late Night: Friday until 7pm Fax No: 081-309 0017

A: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX Tel: 081-309 1111

No Late Night Opening Fax No: 081-308 0608

To: Silica Systems, STFOR-1192-75, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

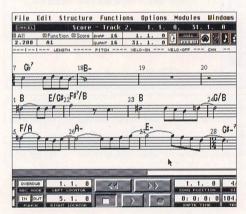
	,			, , , , , , , , , , , , , , , , , , , ,	
		VIII O DIVINA	TOTAL		DIGOUL LOUGA
EASE		MEOBWA	пом с	ON THE	DICOH I DI 200

Mr/Mrs/Miss/Ms: Initials:	Surname:	
Company Name (if applicable):		
Address:		
		Postcode:
Tel (Home):		Tel (Work):

Which computer(s), if any, do you own? E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

UPDATE OR BE It's typical, DAMNED isn't it? You set yourself

up with the perfect piece of software that exactly suits your needs and the publisher releases an upgrade or a new version. Is the update an improvement or not? Is it worth paying for it? **Clive Parker** (version 2.1) investigates



■ This is one of the parts of Cubase that has been made into a separate module - the score editor. You can edit each score using traditional musical notation. Modules can be loaded and unloaded freeing valuable RAM space.

ne of the main drawbacks with buying software of any type is the fact that changes are constantly taking place: improvements, upgrades, updates and bug fixes, new features added, better support. All of these are cited as essential reasons to upgrade to a new version of the package, often at great expense in the case of high-end software.

In the ST world, Protext is probably the most updated professional piece of software -Arnor are working on v6, and there have been

at least a dozen incremental updates along the

In many cases, the cost of the upgrade is well worth the outlay - after all, everyone likes to have the latest version of a program. But there must be occasions when you buy an upgrade and you rarely, if ever, use the new features of the package. We have taken a look at the upgrade choices available in some of the main areas of use for the ST; music, desktop publishing, word processing and programming.

MUSIC SOFTWARE

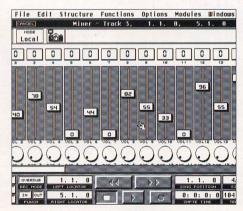
Steinberg's Cubase v3.0 FROM: HARMAN AUDIO PRICE: £399

UPGRADE PRICE: £76 AND V2 MASTER

CONTACT: 0753 576911

The first popular MIDI sequencer for the ST was Pro-24 from Steinberg which progressed through three full versions and one which was cut down (Pro-12 - we gave it to you on Cover Disk 39) before it was superseded.

Steinberg's replacement for Pro-24 was the acclaimed Cubase, now commonly used in the music industry and seen as the standard by which other MIDI software is judged. It has moved on since its first release - it is now up



■ The MIDI mixer screen. Using the on-screen faders enables each of the MIDI channels to be set to the required volume level. When a song is saved, the volume information is saved as part of the file, when the song is reloaded, the volume levels are correct.

What's hetter?

Cubase v3 now works on all STs (with at least 1MByte of RAM) and on TTs with high res monitors. The recording resolution has been doubled, and playback resolution is now variable. With the graphical redesign, you can drag dialog boxes around the screen.

You can use both mouse buttons to make values scroll faster when changing them. Left and right locator positions can be moved while cycling - the program then jumps to the new cycle. There are additional global play parameters in the new MIDI setup dialog box. The MIDI definitions dialog box has been split into MIDI setup and MIDI filter

Transpose and velocity functions have been enhanced, scale correction and advanced compression and limitation possibilities have been improved. Remote control can be used with any MIDI event and is no longer limited to notes. An input transformer has been added - this works in the same way as logical edit but acts on MIDI input in real-time. The logical, score, key, drum and grid edit functions, the MIDI mixer and the arrange window have all been positively updated.

Extra keyboard commands have been added to the program, pop-up menus now remain visible until a selection is made or you click outside the menu dialog box. Parts of the program have been made into separate modules that you can load when you want. The score edit, MIDI mixer (previously the dynamic MIDI manager), MIDI processor and the interactive phrase synthesizer have all become part of the modules menu.

It is worth it

These changes have made Cubase easier to use and more user-friendly. For the serious musician, this upgrade is a must. Get it.

DESKTOP PUBLISHING

Timeworks Publisher 2 FROM: GST SOFTWARE PRICE: £119.95

UPGRADE PRICE: £44.57 AND MASTER DISKS FROM TIMEWORKS V1 UPWARDS

CONTACT: 0480 496575

The other niche that the ST has carved for itself has been in the desktop publishing (DTP) market. One of the most popular DTP packages to get established on the ST is *Timeworks Publisher* which has been upgraded to v2. *Timeworks* was notable for its use of standard Atari GDOS fonts.

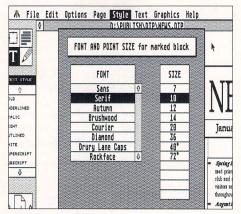
What's better?

The manual, for starters – now it has a hints and tips section, making good use of examples and easy-to-follow explanations.

The installation program has also been improved – it's designed to be more considerate to other GDOS applications. An excellent new feature is the ability to install up to four printer drivers at once, so you can test them with your printer without having to spend ages re-installing them. There are eight style sheets supplied with the package, ranging from newsletter formats to memos. This makes it easier to get started with the program – the style sheets are an excellent guide to designing your own documents.

There are five new typefaces provided in a range of point sizes and styles so you can add more variety to your documents. Text can be flowed around irregular frames to follow the shape of an image

Documents can be up to 999 pages in length (if you have enough memory and disk space) and page sizes can be defined up to 145cm². Consecutive pages can be added or



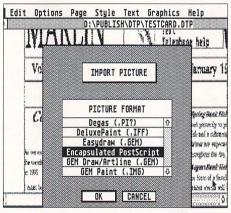
■ Timeworks enables you to alter fonts - you can change them by highlighting a block of text and selecting Font/Point Size from the Style menu. Select the font you want and click on OK.

deleted, and page numbering can be in Arabic, Roman numerals or lettering formats. Extra text styles have been added, such as strike-through, rounded box and square box.

Compatibility

Timeworks 2 files are compatible with v1.12 on the ST and Timeworks 2 on the PC, so you can pass files between versions and machines. Text typed in the program can be saved separately as an ASCII text file so you can edit in a word processor. The program can now import text files created with Protext, Le Redacteur and WordPerfect 5.

New graphic file formats that can be imported are TIFF (Tagged Image File Format), IFF (DeluxePaint), PCX (PC Paintbrush) and EPS (Encapsulated PostScript). This means files from both PC and Mac applications can be used in your documents. Canon Bubblejet and HP Deskjet printer drivers have been added to the program.



■ This is the graphic import screen in *Time-works 2* - as you can see there are many more import options supported, including Encapsulated PostScript (EPS) files.

Other changes

The program needs a minimum of 1MByte of RAM to run and it is supplied on double-sided disks. An autosave function has been added so the document is saved automatically. Menu functions have been assigned to keyboard shortcuts, speeding up the rate at which the program runs. Large text files can be flowed into as many frames as you want – quite a time-saver. Frames can be grouped together and selected for editing, enabling the group to be re-sized, cut or pasted, so all the frames you work on remain in the same position relative to each other and keep their size ratio.

It's well worth it

The program is well worth the cost of the upgrade for previous owners and is worthy of consideration for the first time buyer. The pack on sale at the moment also includes the latest version of the word processor *First Word Plus*.

PROGRAMMING

HiSoft Basic 2 FROM: HISOFT PRICE: £79.95

UPGRADE PRICE: £39.95 AND MASTER DISK(S) FROM HISOFT BASIC 1 CONTACT: 0525 718181

le Edi	it Search			THE RESERVE TO SERVE	-	S
COII	1 Mem:4		IC\EXAMPL	ES\WTES1	.BAS	
		Vie de	Compiler	Options		
Er No Su	dd line nu rror messa o "FN"s in uppress de nderlines	ges librari fault wi	пфом	XXXX	Pause Stack	ow check:
Array	checks _	On J		Max	Speed	Safet
Output	t to ST	RAM Fi	le name:			
Pre-to	kenised f	ile:				
Cance	Adva	nced	Debug		OK	Compil

■ Unlike other versions of BASIC, HiSoft Basic 2 is supplied with the compiler built-in. The compiler is used to convert BASIC listings into standalone programs that you can run directly from the Desktop, or into Desk Accessories.

One of the most popular programming languages is *HiSoft Basic*. The original version of the interpreter has been around since 1987, so *HiSoft Basic 2* is worth investigating.

What's better?

The HiSoft Basic 2 package is twice the size of its previous incarnation with two excellent

Desk	File	Edit	Flags	Tree	Object		Fill	Barder
					C:\DIAM	OND.RSC		
ORH!	FORME	FORMS	FORM4	FORMS	FORMS		RMS FO	RH9 FOR
ORH 12	FORH 13	FORH	4 FORH		I FOR	TORN	FOR	FORM
ORMER	FORHER	FORMS	4 FORHS		Has FOR	la Fort	as FOR	129 FOR
ORH32	FORMS	FORMS		FOR	H36 FOR	197 FORH	38 FOR	is Form
ORH4R	FORM43	FORM4	4 FORH	FOR	TALL FOR			149 FORH
ORHSZ	FORMS 3	FORMS						

■ A feature not usually found in programs (except in HiSoft software) is the ability to run other programs. Here you can call WERCS from within the BASIC interpreter, so you can create .RSC files and test them from your BASIC code. manuals – the User Manual and the Technical Reference Manual.

The User Manual is geared both towards seasoned programmers and newcomers to the language, explaining how to use the various features of the software in straightforward style. The Technical Reference Manual contains a full listing of all the commands available in *HiSoft Basic 2*, details of the GEMDOS, BIOS, XBIOS and STESOUND libraries. Also included is a full reference guide for the GEMVDI and GEMAES libraries, meaning that *HiSoft 2* can fully support GEM programs and functions.

The package includes HiSoft's WERCS program – a resource construction program that enables all the GEM functions of a program to be created separately as a RSC file to be called and utilised by the the main program code. Full libraries are included for 68030 support, so programs for the TT and even the new Falcon 030 can be created with HiSoft Basic 2.

Technicalities

There is a new multi-window editor with bookmarks, mouse block marking, program launching and flexible configuration options. The speed of compilation is up to 50% faster and

OR NOT TO UPDATE?

ing and flexible configuration options. The speed of compilation is up to 50% faster and pre-tokenised files can be used to speed program development.

The STE DMA sound library contains everything you're ever likely need to control volume, bass and treble. There is a complete high level GEM toolbox and easier Desk Accessory support – you can now use the Print command with Accessories. A special TT version of the compiler is included that

generates in-line code for the maths coprocessor and takes advantage of the new 68030 instructions.

Programs can be linked with *Devpac 3* and *Lattice C* assembly language and C code. There is TT library support for memory management and graphics and the compiler can output code directly to TT RAM.

The Stick, String and Mouse commands have also been enhanced in order to support the STE and Falcon 030 analog ports

and there is now support for the Atari cookie iar.

Advanced features

The new version of the program contains everything a programmer needs to create fully functional GEM and TOS programs from scratch over the entire range of Atari machines. If you are a serious programmer or need the advanced features provided by *HiSoft 2*, this is the BASIC compiler to get.

WORD PROCESSING

That's Write 1.51
FROM: COMPO SOFTWARE
PRICE: £99.00
UPGRADE PRICE: £50.00 AND WRITE ON
MASTER DISK (INCLUDING STF 33 COVER
DISKS)
CONTACT: 0480 891819

With STF 33, we gave you Write On, the word processor from Compo Software. One of the options available is to upgrade to Compo's top-of-the-range word processor, That's Write. Because That's Write is a more advanced version of Write On, the display looks and feels very similar. You need a machine with at least 1MByte of RAM and two double-sided floppy drives to use the program.

What's better?

That's Write has a 110,000 word dictionary with features such as capitalisation and hyphenation built-in – you'd be amazed how

File Block Type Style mple.doc P1 A1 I 1 2 3 4 5 6		Line 1 Col	umn 1 0 0 0
keep one step ahead			- profession
	Correcti	on	
Timeworks			
	Insert wo	rd	(Constant)
			l l
Time~works			
Time~works	Supplement		Cancel
Time~works	Supplement]	Cancel

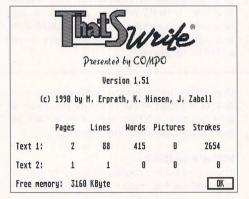
■ One of the major advantages of That's Write over Write On is the inclusion of a spell checker large enough to get lost in - there are 110,000 words that you could potentially get wrong. Funnily enough That's Write has never heard of Timeworks.

many spell checkers can't recognise a word if it is written in capitals. A wide range of foreign language dictionaries are available as well, including German, Swiss, Italian and Swedish. The spell checker can be set to check automatically as you type. Write On has no spell checker built-in.

A large range of fonts are supplied with the program, Signum fonts can be imported and converted for use using the supplied font editor.

Multiple columns can be used to give a magazine or newspaper style appearance to your documents and there is a built-in facility so you can automatically generate a contents or index table. *C Font* or *C Font 2* programs can be used to convert fonts from other formats, such as GDOS or *Calamus* fonts.

With Write On you are restricted to a single printer driver, in That's Write you can add extra printer drivers without having to reinstall the entire program from scratch. Image files in That's Write take up the whole line so text still cannot be printed alongside pictures



■ That's Write from Compo is almost, but not quite, a desktop publishing package. You can create excellent documents with it because it uses graphics mode exclusively, resulting in an incredibly high quality of text output.

unless you print the same page twice, once for the graphic and once for the text.

The edit menu has several extra options. Footnotes can be added to a document so that semi-technical manuals can be created – they're automatically printed at the foot of the relevant page. You can also enter endnotes – these are similar to footnotes except they are printed at the end of the document. Footnotes are marked in the text by a superscript number, while endnotes are marked by a superscript number in brackets.

What do you want from a word processor?

Whether you upgrade to *That's Write* or not from *Write On* depends upon your needs – if you need the extra features and the spelling checker, then it is worth upgrading. If you don't and you only use *Write On* for the occasional letter, then you don't need *That's Write*. It is, however, an excellent program and a pleasure to use – and it's soon to be upgraded to *That's Write 2*.

A File Block Type		
example.doc P1 A1 I	From Layout L	e - 2 Column 1 0 0
GST keep one step ahea In 1987 GST Software nal-quality desktop cost. The program, quickly that it beca U.K. Other language v	Normal Bold Bold Bold Bold Bold Bold Bold Bol	I The state of the
Now GST, based in St program up to date, and functionality.	Mark Index X	re, have brought the provements in ease of u
Strong reputation		
In only a few years T		has gained a remarkabl

■ A feature to please every aspiring Booker prize entrant is the index and contents creation facility that's built into *That's Write*. It saves all that tedious scrolling back and forth through a document when you're trying to figure out the whereabouts of a word like "the."

DRAWING PACKAGES - NO UPGRADES?

Art packages on the ST do not seem to have been upgraded with powerful new features in the same way that other types of software are – usually completely new programs are released which supersede old packages.

Hyperpaint 2 followed hot on the heels of Hyperpaint, but the main upgrade here was just the ability to access the expanded palette of the STE. Degas was upgraded to Degas Elite several years ago and has remained the same ever

since. *Neochrome* was upgraded to *Neochrome Master* by a hacking crew and distributed through PD libraries.

With its expanded palettes, ten work screens, 512 or 4,096 colours possible on-screen and fully functional animation mode, Neochrome Master was a great upgrade to the original version. Unfortunately the copyright for Neochrome remained with Atari and they have now prevented further distribution of Neochrome Master.



First Samurai	f599	Space Quest 3
Wolf Pack		Colonels Bequest
Kick Off 2		Kings Quest 1
Player Manager		Hoyles Book of Games 1
RVF. Honda	f599	Hoyles Book of Games 2
Captain Blood	£599	Black Cauldron
Precious Metal (Captain Blood, Super Han	ia on	Man Hunter 2
Arkanoid, Xenon)	£5.99	Gold Rush
Untouchables		Rolling Ronny
Voyager		Ninja Warriors
Captain Fizz	£599	Gemini Wing
Victory Road	f599	Judge Dredd
Plotting	f599	Xenon
Oriental Games	£599	Continental Circus
Ivanhoe		Planetfall (Infocom)
Stun Runner		Viz
Vindicators		Double Dragon
Tie Break Tennis		Spot
Renegade		Zork One (Infocom)
Rambo 3	£5.99	Zork Two (Infocom)
Operation Thunderbolt		Monty Python
Flight of the Intruder		Golden Axe
Killing Cloud	£599	Shinobi
Light Force Compilation	£5.99	
Sly Spy	£5.99	Mouse Mat
Midnight Resistance	£5.99	
Devious Designs	£5.99	LANGUAGE LE
Robozone	£5.99	L, 11 10 01 10 L L
Audio Sculpture	£5.99	PACK
Winning 5 (Iron Lord, Twin World, Sir Fred,		TACN
Puffy's Saga Night Hunter)	£599	C . I T. DOD CI
EDUCATIONAL		Spanish TutorRRP £1
SHAPES AND COLOURS	f599	French MistressRRP £1
		German MasterRRP £1
FIRST LETTERS		
TELLING THE TIME	£8.99	Italian TutorRRP £1



First Samurai

Please send orders to: ST DIRECT

Unit 3, Cross Keys Shopping Mall, St. Neots, Cambridgeshire PE19 2AU Tel: (0480) 471311

EARNING

Conflict in Europe £5.99

ALL 4

ONLY

£19.99

VISA

P&P is FREE within the U.K.

ST UPGRADES AND REPAIRS!

★ STE MEMORY MODULES (Simm and Sip)

512K-£30 2 Meg - £90

★ CHIPS TO UPGRADE ST MEMORY

512K-POA 2 Meg - POA

★ REPAIRS - Phone for details

TERMS: Please specify exact requirements when ordering memory. Strictly payment with order. All products fitted by us guaranteed for 3 months against defective parts or workmanship. All cheques payable to BREVCO thank you.

PENGE TV AND VIDEO SERVICES 49 PARISH LANE, PENGE, LONDON, SE20 7LJ

Jac 081-659 2851

BARBAROSSA JUNE 1941

Price £17.00 unboxed

Available for ST 520 & 1040 by mail order only

A simulation of the German invasion of the Soviet Union during the Second World War. The campaign is fought using a strategic map and a scrolling tactical map forty screens

Designed for people who enjoy intelligent games, allowing players all the time they need for thought, based on strategic and tactical manoeuvre not on mere mathematics.

You command the German army through intelligent army commanders against a computer opponent, developed over ten years, that commands the Russian army as competently as a human player.

Easy to use interface produces a fast paced game with the need to change army orders only when the player deems necessary. Written by Ken Wright, the most prolific author of strategy war games.

Cheques made payable to K.W. Software, 155 Ringinglow Road, Sheffield S11 7PS

Acorn	Merlin Pegasus
Advanced Computer Systems98	Mindscape29
Analogic Computers65	
BCS	MT Software117
Caledonia PDL120	New Age Public Domain120
CIS98	Pacific Software Supply98
Computer Mates Ltd76	PD Shareware Supply Co114
Coombe Valley Software94	Penge TV & Video135
Datagem Ltd96	Phoenix Services98
Eagle Software104	Power Computing LtdIFC, 3
Evesham Micros41	RC Simulations94
First Choice	Silica Systems Ltd (SDL)131, 123, 111, 91,69
Gasteiner	Silverbird Computing107
Goodman PDL120	Snap Computer Supplies Ltd87
H.C.S52, 53	Soft Machine26
Home Based Business107	Solent Software117
Intermediates/Spec Reserve14, 15	ST Direct135
Kosmos Software	Strategy Software Designs135
KW Software	
LA PD (St Format ad)117	The Jumping Bean CompanyIBC
Ladbroke Computing93	The ST Club120
Laser Distribution Ltd94	The Upgrade Shop107
LCL	We Serve70
Magic Space Promotions120	
iviali-Centa94	WTS Electronics109

Strategy Software Designs

League And Fixture Creator

4-40 Teams: Pld, Won, Lost, Drawn, Goals for, Goals against, Goal diff, Points: 1-9 points for a win: 1-9 points for a draw: Team name editor: Fixtures: Input results: Automatic table update: Printout for fixtures and table: Save option. ST/Amiga & PC £14.99

Golf Database System

Golfers can input all their cards on upto 300 different course and get statistics on each course and round for up to 900 players. The ideal program for golf societies. ST/Amiga & PC £14.99

Send cheques/PO's payable to SSD at

24 Cannix Close Stevenage Herts SG2 9AN (0438) 351996

Educational Software



The Connoisseur's Choice

If you are looking for software to help with the National Curriculum, then look no further. Our new free catalogue is packed with programs suitable for all ages from six to adult on a wide range of educational and leisure subjects.

Subjects now available include ...

Maths French German Spanish Italian Science

Geography History **English Words** Spelling **Arithmetic** Football

Sport First Aid General Knowledge

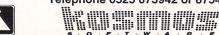
England Scotland **Natural History**



- Available for most home & business computers
- Best-selling programs with superb reviews
- Ask your dealer or use our 24 hour mail order service
- Many programs allow you to add your own lessons
- Enjoy learning from your computer

Write or telephone for our new FREE 16-page colour brochure of Educational and Leisure software (Please state computer type)

Kosmos Software Ltd, FREEPOST (no stamp needed) DUNSTABLE, Beds. LU5 6BR Telephone 0525 873942 or 875406







MOVERS AND

Here at ST FORMAT we keep an eye on everything that happens to the ST and Atari. but who are the people who make the changes? Andy Hutchinson adopts a Hello! tone of voice and asks: "Who are the real movers and shakers in the ST world?"

ere you can see a group of men who are important to the ST. Some of these names are likely to be familiar to you, but there are also likely to be a few you haven't come across yet. These people decide the ST's future.

Collectively these men can make or break the future of the Falcon. They decide on everything from the colour of its casing to the shops that software for it is going to appear in. It's interesting to note that everyone on the list is male and that there are no third party hardware manufacturers.

The success or failure of Falcon and the long term future of the ST rests on four important factors: the price of the base models, the software available for them, the image they have and the competition. All these factors are influenced by these men, so the next time you blame pirates for the high price of software, or a software company for stopping production of ST software, read this list again. You know where to send those letters now.



1. Sam Tramiel - Big Cheese

Tramiel is the president of Atari, the number one, the head honcho and is ultimately the most important person as far as the Atari range is concerned. It is

Tramiel who ultimately decides which Atari products see the light of day and which start the treacherous road to development in the first place.

Tramiel is a high profile chap who oversees all the important Atari events wherever they are in the world. For example, he was at the launch of the Falcon in Germany and he also checked out Atari UK's advertising campaign before it was given approval.

Unlike some company chiefs, Tramiel is a fairly approachable chap. He has been known to host on-line news conferences on American networks and is often seen strolling around computer shows answering questions from Atari's users. He influences the company at many levels and it has even become apparent that Falcon is his own personal vision of a real home computer.



2. Richard Miller - Vice President Research and Development

Richard is an English chap who works out in California designing computers for Atari. He is probably the single greatest influence on the main elements of the Falcon, having decided which the direction the engineers should take.

Richard is a very hands-on vice president. There isn't a lot you could tell him about either the ST or the Falcon and he has been known to silence ill-informed journalists with the odd cutting remark about the real guts of the ST. Richard is a low profile chap, a man of few words and looks very earnest. He has a tasteful selection of suits but should change his hairdresser.



3. Leonard Tramiel - President Research and Development

On the face of it, Leonard should be number two, but as I've found out over the two years I've been writing about Atari's products, that's not the case. Leonard keeps a low profile and can't match Richard's technical knowledge. He does, however, have the final word on all research matters.

Leonard works from the Sunnyvale complex with the rest of the Tramiel clan. He shares Sam's interest in home computers and all things technical, but he only appears on the more important public occasions.



4. Bill Rehbock - President Software Development

Here's a chap with anything but a low profile. Bill is the most app-

roachable, talkative members of the upper echelons at Atari USA. His brief is to make sure that the software which comes out with the Atari range and that's further developed once it is on the shelves is up to scratch.

Bill has been in charge of seeking out developers to create software for the Falcon. He also ensures that the system software is top quality, useful and functioning. Bill admitted at the Dusseldorf launch of Falcon that he had an easy task getting developers to create Falcon software — apparently everybody wanted a crack at it. In the end Bill distributed 50 machines to developers of a variety of software from video to games. The software these people are developing is to appear under Atari's software label.

Bill has taken over the job vacated by Bob Katz at Atari UK – getting games developed for the ST and Falcon range. He told *ST FORMAT* that *Steel Talons*, the Atari arcade conversion, would be appearing on the STE – you can already get it on the Lynx.

SHAKERS



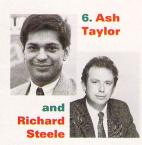
HE SHOOTS STEDENAT

Modesty normally forbids us from being big headed, but it's true. Over the last three years *STF* has brought you big stories, game reviews, interviews, roundups and loads of features. We strive to cover

subjects you want to hear about, and we've covered the subjects which, although it's damaged Atari's image, it was important to report.

The STE, TT, Mega STE, ST Book, Panther, Falcon and CD-Falcon were mentioned first in *STF* because nobody else has the kind of contacts we've got. If it's happening in the Atari world or is going to happen in the Atari world, you can read it in *STF* first.

Our commitment to games has already changed the games scene for the better. In fact, we've just heard that *Flashback*, which wasn't even going to be considered for the ST, might see a release yet. This is because we've been canvassing US Gold and Delphine and arguing the ST's position alongside strong contenders like PCs and the consoles. Through good and bad times *ST FORMAT* has done and will continue to tell you as it is. Never before have such definitive reviews and news had such an effect on a computer market.



These people are not likely to be familiar to you, but they are the most important people to the software industry in this country. Taylor and Steele run the two big-

gest software distribution companies – Leisuresoft and Centresoft respectively – in the UK, so they're responsible for those games which get into the shops. It is their purchasing decisions which make the real impact on software charts. If these guys choose not to distribute a game, then it stands little chance of earning any serious money.

Because their companies buy so many copies of games, they take few risks. If they see demand for a computer's software trail off, they stop stocking so many copies. As a result of this vicious circle, software houses have stopped producing ST software. It is because you are discriminating about what you spend your cash on that these companies are limiting your choices. The smaller the market, the smaller their profit. These companies are more interested in mass markets, like that of the console. The demise of the ST started here.



These two chaps run US Gold and Ocean respectively. Cast your eyes along your games software collection (if it's

not pirated, that is) and you can see that the majority of games are from one of these two companies. The fate of many development houses lies with these two companies because neither US Gold or Ocean develop games.

Games tread a similar path into the US Gold or Ocean stable. Programmers, graphic artists and a suit get together and set up a software development company. Then, depending on the money, they develop a product and sell it wholesale or on a royalty basis to the software house, or they come up with an idea and the company pays them to develop it. The biggest names in the ST world are attached to US Gold or Ocean and, because of their huge resources and ability to spend a lotof money on advertising and licences, most of the games which get to the top of the charts are from these companies. This is the corporate face of the ST games world.



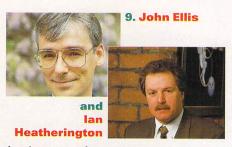
8. Bob Gleadow

Bob's name should be familiar to because he's the MD of Atari UK. Gleadow has a particularly large office at Atari's UK headquarters, enjoying attractive panoramic views over

the UniSys building and Slough railway station. He shares the building with a motley assortment of ne'er-do-wells including the British heads of marketing (Daryl Still) and technical wibbly bits (Allister Bodin).

It is Bob who is ultimately responsible for the UK advertising of the Atari range, the number of STs on sale in this country and some terrible jokes about a company he used to run called, ermm, Commodore. He has a particularly strong Geordie accent, but, being a cosmopolitan bunch at *STF*, we've never held this against him. Much.

Gleadow gets up to all sorts of behind-the-scenes stuff, such as coaxing Dixon's into stocking the Falcon or trying to talk *The Sun* out of running a Commodore logo on its front page. He can always be relied on to come up with a good quote, although we're led to believe he has a scriptwriter called Judy in an adjoining office.



Another two software company heads – this time at Psygnosis. If any of the companies can claim to have an undamaged street credibility, it's this one. These chaps rely utterly and completely on original products – they don't ever resort to licenced software to help sell their products.

One of the very first games to come out on the ST was Psygnosis' famous *Shadow of the Beast*, a revolutionary game at the time. Their biggest game – and one of the most successful computer games ever – is *Lemmings*, the brilliantly addictive cutesy puzzler.

Psygnosis are committed to state-of-theart software and to this end are spending huge amounts of money on CD software. Psygnosis are important because they set trends and follow no one's example. They can, of course, release duff games, but even their duff games come in lovely boxes.



■ Alwin Stumph comes from Germany, land of big sausages, and a dead efficent central bank.

10. Alwin Stumph

Surprisingly appearing in this list, Alwin is the head of Atari Germany. The German market has always been important to Atari because it's one of the few they got right. In Germany, the ST is viewed as a serious business machine and is one of the most popular computers in the country.

As a result of that clever marketing, lots of serious software has come from German software houses. In fact, it could be argued that the most important and best serious packages come have emerged from Germany, C-Lab and 3K ComputerBild who are responsible for *Notator* and *Retouche* have done more to change the gamesy image of the ST than any other two programs.

YAMAHA SY-35

If your ST sparked off a popular revolution in electronic music making, then here's a synthesizer to finish off the process. The Yamaha SY-35 is a touch-responsive polyphonic keyboard with 256 redefinable sounds. It's fully compatible with your ST and any sequencer on the market. It even has dynamic vector synthesis, which enables you to merge four different sounds together in real-time. At £599 the SY-35 is the perfect complement to a home MIDI setup. Rave on.



There are 64 pre-set voices and 64 editable internal voices to give you all the sounds you need. The eight part multi-play mode enables you to play eight different sounds at once from your ST.



■ The 61 note keyboard is both velocity and after-touch sensitive for full expressive control.



For each of the four elements of one sound you can alter the volume and tuning with the vector controller. With the pitch wheel you can bend notes up and down in pitch, and the modulation wheel gives even more expression to your sounds.

EDUCATION WAS NEVER THIS MUCH FUN

Noddy's Playtime is a graded creativity and entertainment package for home computers based on solid educational principles for 3-7 year olds.

Drive with Noddy in his car and explore the magic of Toytown, visiting the 8 special learning locations.

- Railway Station memory game
- N&B Works observation game
- Chimney House musical fun
- Noahs Ark jigsaw puzzle
- Farm Yard animal matching
- Market Place letter recognition
- Post Office counting
- Police Station maze game

Also included is a junior Art Package which develops your childs creative

- Picture Colouring.
- Electronic 'fuzzy felts'.
- Freehand drawing with pens and spraycans.
- 50 pre defined fill patterns.
- One finger on, one finger off mouse control for tiny hands.

Noddy's Playtime features user friendly icons so that even the youngest family member can learn and have fun.

There is a choice of 3 carefully defined learning levels designed in consultation with teachers. Noddy's Playtime also includes FREE: Toytown map, keyboard overlay and wobbler.

A comprehensive manual and parent teacher guide will enable you to bring your childs imagination to life.

ST Format

ST 520 and above, (FM/E compatible), colour monitor or TV required (D/S).

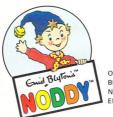
Available from the end of November at major stockists.





THE JUMPING BEAN CO.

Leen Gate Lenton Nottingham NG7 2LX Tel 0602 792838 Fax 0602 780963



Original Text and Images © Darrell Waters Ltd 1949/68. Text and Images of BBC Television Series © BBC Enterprises Ltd 1992. Licensed by BBC Enterprises Ltd. NODDY is a trademark of Darrell Waters Ltd and is used under Licence. ENID BLYTON (signature logotype) is a trademark of Darrell Waters Ltd and is used under licence

