

AWORLD OF MENSION

Hook into the oddities and wonders of the Net with our guide to all things comms...

SENSATIONAL ST PROGRAMS

SEE BACK COVER FOR FULL DISK DETAILS



INCORPORATING

ATARI STES

MAGIC VS GENEVA

The top two multitasking systems go head to head

APEX MEDIA

The most impressive animation package of all time? Believe it!



- Step by step guide to creating your own bulletin board!
- Internet sites and bulletin boards explained and explored!
- Bulletin board etiquette and networking tips
- AtariNOS how to get the most from your Net software

COSMIC : ENCOUNTERS!

Top meteor action in Bloodhouse's Stardust



Vour Your value



Last month's STF carried a round-up of the products that, over the years, had been awarded the accolade of an ST Format Gold. We were delighted to see that 22 of our titles achieved this high status, and 16 of them are still current products! Who else can give you the professionalism, the attention to detail and, above all, the committment to the ST/Falcon market than the company that sets the standards...

Programming

Lattice C 5 90%



Self HiSoft BASIC 2 90%

HiSoft Devpac 2/3 95%/91%



Word Processors



Video/Music



VideoMaster 92%



Quartet 94% Replay 16 92%



Books

The Atari Compendium 91%

Modern Atari System Software



Utilities

Diamond Back 2/3 92%/95%

Harlekin 3 94% XBoot 3 92%

SpeedoGDOS 4 92%

Diamond Edge 90%

A Golden opportunity...

Now for the best bit ... order any of our Gold titles and receive a free golden gift according to your order value; spend over £30 and receive a 1lb box of Terry's All Gold chocolates, spend over £60 for a gold-plated carriage clock (worth over £15) and order over £120 of goods for a Lorus gold-plated bracelet watch (value at least £35). Order before 30 November 1994 and we will engrave the last two gifts with up to 10 letters of your choice - a truly golden opportunity!

Lattice C 5.6 £169 HiSoft Devpac 3.10 £79.95 **HiSoft BASIC 2.10** £99.95 Papyrus Gold £129.95 Diamond Back 2 £29.95 Diamond Back 3 £49.95 £49.95 Modern Atari Sys S/W £19.95

SpeedoGDOS 4 £39.95 Harlekin 3 £59.95 XBoot 3 £34.95 VideoMaster ST RGB £99.95 VideoMaster Falcon RGB £129.95 Replay 16 £129.95 Quartet £49.95

Telephone vour credit card oder on 01525 71818

VISA.



The Atari Compendium £39.95 Please add £3 P&P in the UK (£6 for next Limit of one gift per order. All offers subject day delivery). All prices include UK VAT. to availability. © HiSoft 1994.

High Quality Software

The Old School Greenfield Bedford MK45 5DE UK Tel: +44 (0) 525 718181

O	r	d	e	r	F	0	r	h	n
_	_	-		_	_		-	-	-

Up to 10 letters for engraving:

Please rush me the following software for my Atari computer

Product

Signed:

Price

P&P

Name:

Address:

Card No:

Expiry and Issue #:

Fax: +44 (0) 525 713716

Cheque/PO



Order by telephone quoting your credit card number. If paying by cheque please make payable to: "FIRST COMPUTER make payable to: "FIRST COMPUTER CENTRE" In any correspondence please quote a phone number & post code Allow 5 working days cheque clearance

SHOWROOM ADDRESS: DEPT. STF, UNIT 3, ARMLEY PARK COURT, STANNINGLEY RD, LEEDS, LS12 2AE.



DELIVERY TARIFFS

Standard delivery £1.95 2-3 Week Days

Next Week Day £4.95

Delivery subject to stock

All prices include VAT @ 17.5%

Large showroom with parking

Multi-million pound company Overseas orders taken

 Educational purchase orders welcome **OPEN 7 DAYSA WEEK** Telephone

24 HOUR MAIL ORDER SERVICE FAX: 0113 2319191 NEW! BBS Modem sales & technical line Tel 0113 2311422 **ALL PRICES**



OUOTED INCLUDE VATAT

17.5% Unlike some other advertisers in this magazine, we believe the price you see is the price you should pay.

accordingly when making comparisons.

HARD DRIVES & CD-ROMS

OTY

100

Falcon PRIMA 264 £274.99 PRIMA 340 £354.99 PRIMA 540 £399.99 PRIMA IGIG £649.99 4614 99 Removable HD option add £40.00 260Mb Hard Drive and

Dual Speed CD-ROM only £479.99 Call for other configurations

PRIMA CD-ROM STe

Dual Speed £299 99 £269.99 ICD Link II ScSi Controller £89.99 includes CD-ROM Driver

BARE SCSI DRIVES £169.99 352Mb €184.99 £254.99 528Mb €529.99 I Gigabyte £1049.99 2 Gigabyte

ADD £25.00 FOR FITTING CONSUMABLES

All disks are guaranteed 100%. All branded disks come with labels Disk labels 500 £6.99 1000 £9.99

LC90/240/240C

COVERS

LC24-300/30/100/200 PREMIER Ink Refills

save a fortune in running costs with your inlub Compatible with HP, Canon, Star, Citizen & many Single refills (22ml) Twin refills (44ml) Three colour kit (66ml) Full colour kit (88ml) Bulk refills (125ml) Cartridges

Canon Bjiu carridge £124.99
Double life 500 cartridges £24.99
HP550/500 Colour cartridge £124.99
Star SJ48 cartridge £18.99
Star SJ144 mono or colour (3 pack) £21.99

ROM SHARERS

Upgrade your Atari to TOS 2.06 with

this easy to install add-on. Gives you

the capability to switch between your old TOS and 2.06

Citizen Swift mono ribbon Citizen Swift Colour ribbon

Star LC24-30/200 Colour.

NEW! Star LCS Star LC100 mono Star LC200 mono Star LC100 colour

Star I C200 colour

Star LC10/20 cover Citizen Swift/ABC HP 500/550/510 Star LC24-300/

Canon BJ10 cartridge

Printer Switch Box 2 way Printer Switch Box 3 way Printer Stands (Universal)si 3 Metre printer cable

5 Metre printer cable 10 Metre printer cable

Canon BJ10sx out. Large bu Canon BJ200 3 page a min speed, 360 dpi, sheetfeeder. BJ230wide carriage small footprint & 80 page version of B1200 only £364.99

Canon BJC600 Colour £434.99 new bubble jet from Canon
BIIO Autosheetfeeder £49.99

Canon BIC4000 Colour £419.99 CITIZEN

Citizen printers have a 2 year guarantee £154.99 ABC Colour printer simple (as easy as ABC) to use 24 ping with 50 sheet Auto sheet feeder. Trac

£181.99 Swift 200 Colour Same out put as the 240 but with Swift 240 Colour 6218 99 24 pin 240cms draft 10 fonts qui

NEW! Projet II Colour £254.99

new inkjet printer with built in auto sheet feeder Swift Auto Sheet feeder £79.99

PACKARD HP 320 portable

NFW HP520 mono £259.99 HP 500 Colour £304.99 NEW! HP 560 Colour £439.99

SCOIT RANG

The NEW! Star Range of dot matrix printers are here featuring a built in 55 sheet auto sheet feeder Star LC90 9 pin mono £109.99 Star LC240 24 pin mono £125.99 Star LC240C 24 pinColour £144.99 Tractor Feed for the new range only £15.99 Star SI144 Colour only £249.99

COMPUTERS

THE ATARIFALCON

NEW LOW PRICES!

16 Mhz 32 bit technology for fast processing, 1.44 Mb disk, 1, 4 or 14 Mb configurations. Software bundle con CALAPPT personal information manager, Proce

IMb RAM, no hard drive 4MbRAM, 127MbHD £779.99 14Mb RAM, 200Mb HD £869.99

Atari Jaguar £199.99 with CYBER WOLF Falcon 2.5" Hard Drives & Kits 60 Mb £129.99 Hard Drive bracket 80Mb £139.99

£249.99

IDE Cable

only £64.99 inc TOS 2.06 ROM 2.06 ROM only £44.99 <u> larpet</u> RAM

STFM Deluxe SIMMS modules

Mb unpopulated Mb populated to 512k Mb populated to 2 Mb Mb populated to 4 Mb

Prima RAM expansion 512K STe

512K STe
2Mb STe
4Mb STe
14 Mb unpopulated for the Falcon 449.99
uses SIMM boards for RAT so just add the cast of SIMMS to
get your poulated price. Pring products comes
with a built year government.

SUPRA MODEMS

Supra A Modem 288 Super fast V34! 28,800 bps + 14,400 Fas only £209.99

Supra - Modem 144LC V.32 bis (14400 baud!)

t version of the classic V32Bis Fax m only £136.99

modems are not BABT approved, however m as well & often out perform BABT app

Supra 2400 £49.99

Dual Standard V34 Fax Special Limited Offer only £339.99

Supra Modem V.32bis

This modem has full 14400 baud. Includes V.32bis, V.32, V.32bis, V.32, V.32 bis, V.32 v.32 bis, V.32 v.32 bis, Class 1 & 2 commands, 9600 14400 Group 3 Fax. Includes free modem comms (not Fax)slw & cable only £169.99

Supra Plus

£107.99 STRAIGHT FAX SOFTWARE only £49.99

Sportster 288 only £234.99

features V34, 28,800 BPS, BABT approved If you thought V32bis was fast try V34 (28,800 bps).

Sportster 2496 +Fax £104.99 Sportster 14400 Fax £138.99 Modem cable for Sportster and Courier £9.99
USR modems come with a 5 year warranty
& are BABT Approved

OTHER Tabby **PERIPHERALS** only £36.99

in also be powered by batteries

The Zy-Fi Pro Stereo System

ine Zy-Fi Pro Stereo System
only £57.99
Higher spec lifcation version of above
Forget-me-Clock 2 only £19.99
al time clock that plugs into cartridge port. Software
ting time & date. Marpet products carry a zyear guaraAutomatic Mouse/Joystick switcher now only £13.99

Monitor Switcher Box £17.99

Quality Mouse Mats
10 Capacity Disk Box
20 Capacity Disk Box
40 Capacity Lockable Disk Box
40 Capacity Lockable Disk Box
*90 Capacity Lockable Banx Box
*910 Capacity Stackable Banx Box
*3150 Capacity Stackable Fosso Box
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery if purchasing isst one Posso or
*add £1.00 delivery isst one Posso or
*add £1.00 deliver

STD I.8 MTR printer lead Modem/null modem cables STFM/STE Power Supplies

Joystick/mouse extension leads Atari 520/1040 dust cover

buying 2 or more.
14" Monitor cover

Atari to Scart Cables

Key Boards Internal Disk Drives STe or STFM Cases now of 2 way Parallel port sharer

MISCELLANEOUS

Graphics Tablet 1 The amazing new graphics tablet for the Atari. 86% rated in ST Format January issued

NEW LOW PRICE! now only £49.99

PRIMA Trust Hi-Res

14"mono monitor. 640 * 400 resolution. Sta r sharp quality. Comes with built in tilt & sw Now Only £99.99!

Microvitec Autoscan 1438 .28 dpi, 15/38 KHz, all Amiga modes, AGA compatible. No audio, tilt & swivell stand.

NEW! Philips 8833 MK2



This famous Stereo, colour monitor is back. Complete with 12 months on site maintenance only £234.99 tilt and swivell stand only £9.99 with monitor



Zydec 3.5" Drive only £59.99

Power 720B 3.5" Drive only £69.99

ATARI REPAIRS



CANNERS The Power Scanner

only £99.99

This scanner comes with the latest version 2 sofware. Wit right & sharp grey scale performance & flexible scanne manipulation options. Options include Clea up, embolden, resize & flip. Alpha Scan Plus

only £119.99 his famous 400 DPI sca

Migraph Colour burst Scanner

only £399.99

ner is available only for the lours, 50 to 400 Dpi.

MICE & TRACKBALLS

Alfa Data Mega Mouse 90% rating.

£12.99 for 400 Dpi version Zydec Trackball £29.99 Alfa Trackball £34.99

SOFTWARE

BUSINESS K-Spread 4 €45.9 LDW Por Superbase Pro MUSIC/SOUND wer | Spreadsheet €24.99 £89.99 Clarity 16(Falcon only) €89.99 £85.99 Cubase Life, 16 track score or Cubase V3, Midi record, score printing cap Cubase Audio Falcon 439.99

£43.99 Replay 16 Digitiser £34.99 PUBLIC DOMAIN

£1.50 each £1.50 £1.50 £1.50 £1.50 £1.50 £1.50 £1.50 £1.50 Astronomy Programs 1, 2 or 3 Astronomy Programs (Hi Res) First Falcon Utils Disk First Falcon Utils Easytext Midi Sequencers Speccy Emulator Packers Virus Killers Databases Databases Collection I or 2 Opus 2.2 Geneology Programs Kids Games cker 1.5

Geneology Programs
Kids Games
Archiver Shells
Archiver Utils + Bits
Games Pack I, Biox, Cenipode, Cloud Kingdoms demo
Games Pack 2, Grav, Grav 2, Maz
Games Pack 3, Liamatron I/2 + I Mbversion, Re
of the Mutant Camels
Games Pack 4, Cybernetix, Daleks, Entor
Hannet Waren 4, Cybernetix, Daleks, Entor £1.50

Garnes Pack 5, Tetris, Downfall, Kubes etc Garnes Pack 6, Asteroids, Astropack, At um, Blaster
UTILITIES/PROGRAMMING

Devpac 3 Devpac DSP
DIAMOND BACK 3 backup utility £44.99
High Speed Pascal
Lattice C 5.6
£139.99 Multi Tos

Turbo ST VIDEO AND GRAPHICS

Colour Master Flexi Dump II €59.99

True Paint /ideo Master /ideo Master (falcon only)

WORD PROCESSING & DTP NEW! £109.99

D PLUS

Timeworks 2 and First Word Plus 3.2 or First Word Plus 3.2 only £45.99

and TimeWorks 2 only £39.99

a lower price!

Main Features:

BY ROMBO As official dealers for Rombo, we are able to offer this excellent package at a great price.

Vidi 12 ST replaces the famous Complete Colour Solution with a higher specification but

£69.99

VIDI 12 ST

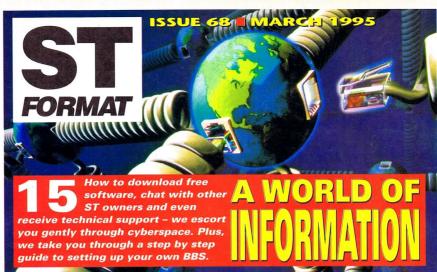
Contents include multimedia digitiser, oftware manuals and phono cable

eal animation workstati tion, all Atari colour mo assing effects, file formates NEO, BMP, TIFF.

£3.9

Tel. 0113 2319444





most out of vour Net software without going near the hernia-

inducing manual.

in with as d as u

MagiC vs Geneva

Which is the smoothest and most powerful multitasker for the ST? The top two operating systems battle it out head to head. Peter

Crush referees the latest gladiatorial challenge.

> Multitasking Application Environment MagiC by Dan Wilga @ 1993 Gribnif Software All Rights Reserved. MagiC v82.81 vom 84.83.1994 Release 003 Dec 31 1993 © 91-94 by Andreas Kromke, Sven & Wilfried Behne Registered for: Peter Crush #000001307 <u>0</u>K duplication, rental, or sale

II Multitasking on your Atari has never been more accessible, now MagiC and Geneva have arrived. But which is best? We know

A WORLD OF INFORMATION A guided tour of the Internet, a trip round the nation's

BBSs and a step by step guide to setting up your own bulletin board - it's all here!

26 MAGIC VS GENEVA

What can a multitasking operating system offer you? Cut through the hype with our head to head special.



If you want to combine databases in Twist 2, you'll need our step by step guide to achieving the near-impossible. Nick 'Monkey Nuts' Peers shows you how.

TUTORIALS

60 TWIST 2

Time to dig out your copy of Twist 2 and delve into the chilling land of linked databases.

61 KAOSDESK

Get yourself an altogether smarter desktop with our guide to assigning and creating your own icons.

62 ATARINOS

You've got your Internet software, now how do you use it? Simon Forrester illuminates all, in the first instalment of our two-part guide to AtariNOS.

ST DISK CAT

The first of our ongoing series of Cover Disk tutorials. Nick Peers explains how to make the most of the ST Disk Cat cataloguing system given away with STF 66.



CAST AND CREW
STFORMAT, Future Publishing, 30 Monmouth St,
Bath, Avon Bat 12W
101225 442244 Fax. 01225 465982
401225 442244 Fax. 01913 702559
Internet: kleveli@futurenet.co.uk
Editor Karen Captain Janeway' Levell
Art Editor Andy Data' Ounsted
Production Editor Jillian Bev Crusher' Werb
Disk Editor Nick: Khan' Peers
Staff Writer Stimon Worlf Forester

Art Editorette Sarah 'Ensign Ro' Sherley-Price (we'll Art curves wiss ya! Mark Odo' Charlton, Clive 'Spock' Parker, Tony 'O'Brien' Wagstaff, Andy 'Will Riker' Curtis, Mac 'K'Mpec' Marsden, Peter 'Chekov' Crush, Dug 'Scotty' Amstrong and Steve 'Barday' Fardy Photography Rick 'Bones' Buettner

this product, except as described in the Geneva Licensing

Agreement, is strictly prohibited

Violators will be prosecuted.

ADVERTISING Alison Morton = 01225 442244 Darran 'Quark' Ward = 01225 442244

UK and Overseas Newsstand Distribution – Future Publishing Ltd ≈ 01225 442244 SUBSCRIPTIONS AND MAIL ORDER FUTURE PUBLISHING, Somerton, Somerset FUTURE PUBLISHING, Somerton, Somerset TA11 16TB = 01225 442244 Fav. 01458 274378 Subscriptions = 01225 822511 Customer Services = 01225 822510 PRODUCTION (Fav. 01225 337530) Group prod'n manager Judith Middleton Production Coordinator Clair 'Deanna Troi' Booth

This Falcon-only animation package really has to be seen to be believed. Simply awesome!

32 TOUCH-UP 2.5

DTPers take note! Smudgy scans are now a thing of the past, but are the benefits worth the price?

33 OCR

OCR software can save you hours of typing, but do you have the memory and the time?

36 BSS-DEBUG

If you're one of those god-like people who understands machine code, take a look at this new debugger.

40 PUBLIC DOMAIN

Pacman on Es 2 and Tomtar, Serenade Menu 17, Fruity and Match It, Noughts and Mad Crosses, Grand Prix Manager, Falcon Utilities, Modest, Chinese Horoscope and I Ching, Ozbornz Modules 3, RAE Tutor, Even More Falcon Utilities, Magnet 9 and Gullbach, and UFOlogy.



I Stormin' Asteroids action with the most colourful shoot-'em-up this side of Vulcan. Yep, it's Stardust.

Are you constantly harassed by malevolent meteors and churlish comets? Yup? Well you won't need this top, new Asteroids-style title then.

48 PINBALL DREAMS

Four tables, eight players and a host of high scores, but can it beat Obsession?

SPACE QUEST

It's been re-released but have Kixx put the work in to make it a Monkey Island beater?

SPELLBOUND

Psygnosis' platform-generating machine grinds into action. Question is: who threw in the spanner?



■ Spellbound is yet another cutesy platform game by the looks of it. Read on to find out how good it is.

ST Answer

Clive and the gang tour the ward for seriously disturbed STs... Well, someone's got to do it!

COVER DISK

What's this? Oh, it's the Cover Disk pages with the one and only Nick 'Lightly Salted' Peers. For the exciting details check out the panel on the right.

In-depth report on the specs and promise of the Eagle and Falcon Mark 2. Plus Unisys' proposed GIF tax and a special Obsession demo offer.

52 ST ANSWERS

My God, it's huge! With eight pages dedicated to your technical problems (and our solutions, of course) you can be sure both you and your ST stay sane and healthy.

69 READER OFFERS

Grab yourself a copy of the brilliant Stardust for just £19.99 - going once, going twice, sold to the alien in the back with three heads.

70 SUBSCRIPTIONS

Why trek down to the newsagents in the pouring rain when you can have the delights of ST FORMAT delivered directly to your door? (Er, to get a pint of milk? - Jill)

Your shop window to the ST world. Pick yourself up a serious bargain, get shot of that kit you never use, leave messages and join ST clubs and groups.



■ Hints 'n tips galore with our stupendous Gamebusters section. This month we've the complete solution to the platform star, First Samurai.

73 ST DIRECTORY

Your complete guide to everyone in the ST multiverse - all the addresses, phone numbers and e-mail addresses you could possibly need. Ever.

74 GAMEBUSTERS

Get in the gaming know with the complete solution to First Samurai. Plus snippety tips for Epic, Dynablasters, Prince of Persia, Toki, and Double Dragon 1 and 2.

79 BACK ISSUES

You better be quick! They're selling out faster than platform shoes in a pygmy colony - no, really, that's what our publisher said.

FEEDBACK

Read the shocking story of an ST murderer and gasp at the conspicuously doctored photo of Simon - it's all happening in Feedback

82 TWILIGHT

ZONE

Simon presents his individual view of the world, STs and the deep pot of trouble that is Valentine's Day!



COVER DISK 68

THIS MONTH...



for creating your own audio-visual stories. Fantastic!

BBS DIRECTORY: The Yellow Pages for all BBSs everywhere. Get yourself on-line now! Uncompressed size: 281K

pictures from 20 different image formats, then export them in IMG format, giving you maximum versatility and usefulness. Uncompressed size: 216K

TAQUIN: French sliding puzzle-up for all STs. Colourful, manic, and addictive. Just one more go then... Size: 55K

STOSSER: A highly civilised document displayer. No, really! It presents text-files with pictures and background music.

Degas low or high resolution picture and jumbles it up into a 50-piece jigsaw for you to solve. Supremely frustrating. Uncompressed size: 132K

AUTOBORT: Prevent your programs from auto-booting with this tiny program. It's easy when you know how

MENU: Dearchive and transfer your Cover Disk programs quickly and easily with our easy-to-use Menu utility. Size: 10K

BACK UP: Prevention is better than cure. Make that vital backup of your precious Cover Disk with this indispensable program.



oduction controller Claire Thomas

Production controller Claire Thomas Paper controller Fiona Deane Disposable security guards Simon Chittenden, Mark Glover, Jan Moore, Chris Stocker, Simon Windsor; Jason Titley, Otlie Gibbs Printed by TPL, Kidderminster Circulation Manager Pate Walker © 01225 442244 Publisher Simon James Takin' Stansfield Menaging Director Greg Admiral Nogura' Ingham Annual subscription rate. UK £45

Procognises all copyrights in this issue: Where possible we have nowledged the copyright holder. Please contact us if we have failed nowledged the copyright holder. Please contact us if we have failed section used to correct oversight. We all be happy to correct oversight less that seek years are for publication unless otherwise stated. ST FORMAT reserves the right to edit contributions on the contributions are accepted only on the basis of full assignment of copy

Your guarantee of value



. Our titles are packed with tips, suggestions and explanatory by the very best in the business.

R REVIEWS. We have a cast-iron policy of editorial independence and ws give clear recommendations.

At Future, Editors operate under two golden rules: Understand your readers' needs Satisfy them

the liveliest letters pages and the best reader tips. Buying one of our magazines is like joining a nationwide user group. More pages, more intelligent staff, bette quality – magazines you can trust.



GET STARTED WITH THE ST FORMAT MENU PROGRAM



di tene funce de contra titule - entre la prese de l'estate l'esta

the Close Box icon).



MAGIC STORYBOOK

BY: Jayne and Richard Dunn MACHINES: All STs (TOS 2.06 with *STOS Fix 3*) FALCON COMPATIBLE: Yes (with STOS Fix 3) MEMORY NEEDED: 512K RESOLUTION: Low UNCOMPRESSED SIZE: 577K

Getting started

Magic Storybook is auto-booting. Once decompacted to your blank disk, just switch your ST on with the disk in your drive.

About the program

Magic Storybook first featured on the Cover Disk way back in issue 39. It's a superbly crafted engine with which kids of all ages (and that includes most members of the STFORMAT team) can create their own stories, which are then brought to life with animated graphics, sound effects and text in true multimedia fashion.

Three example stories are provided to give you an idea of how it all works – once the pro-



■ Even Rolf Harris likes *Magic Storybook,* and he should know, being a childrens' TV presenter and everything.

gram has loaded just move the mouse over the story you want to try and it'll load in. You then see the first screen of whichever story you've selected, complete with animation and sound effects to give you a rough idea of what the program is capable of. Clicking on the mouse takes you to the main editing screen.

Here sele

Editing

Here you see a backdrop for the selected story's first page. You can paste foreground objects on to each page of the story, and *Magic Storybook* is clever enough to enable you to paste objects behind and in front of other objects. Once done, clicking on the Play icon shows you how the whole picture looks when animated.

You can also add sound effects from a predefined selection to give the story more atmosphere



■ This is the editor program, which enables you to create your own backgrounds, foreground characters and even animations!

and also alter the text – perhaps you'd like to gear one of the supplied stories to a different age group. Any mistakes can be removed by selecting the Oops icon, then clicking on the element to remove, which flashes when it's been highlighted.

Grubby fingers

The program has two settings to prevent little kiddles from doing too much damage to the stories



■ Adding details, such as foreground characters, is a cinch with *Magic*Storybook. Even Jill could do it.

Getting Magic Storybook on to a single disk

To decompact Magic Storybook on to a single blank disk, you'll need to format your blank disk to 80 tracks and 10 sectors. There are numerous programs that do this, some of which

have featured on recent Cover Disks. Fastcopy 3 appeared on Cover Disk 62, Disk Kit on Cover Disk 66 and KAOSDesk on last month's Cover Disk. The Magic Storybook files have been archived in two separate files to make it possible to dearchive them, but the *Menu* program will automatically make the necessary arrangements for you, so don't fret!



you've spent hours altering for their enjoyment. When the program is set to 5+ no editing, printing, loading or saving can be done, while several other options from within the other menus are also disabled, just to be sure.

Clicking on the 5+ icon turns it into an 8+ icon, which means you can use these settings. The Edit icon is still disabled however, and to run the editor you must create a blank disk labelled 'Editor' and copy the AUTO folder across to it. Once there, delete MSBK520.PRG, then re-boot with the 'Editor' disk in the disk drive

When it's loaded, select 'Load' and insert your Magic Storybook disk into the drive when prompted to enter the 'Workbook' disk. Select IDEAS (or NOREGYET if you've saved an edited file) and when you return to the main menu, click on 'Edit' to begin editing backgrounds, sprites and even animated sequences. We'll be covering the editor in more depth next issue, so for now give it a whirl. It's largely self-explanatory.

It's shareware!

If you enjoy Magic Storybook you'll undoubtedly want to register it to lift its two restrictions (it can't be run from hard drive and you can only save edited stories with the filename NOREGYET), It costs just £10, for which you also get a 20,000-word manual, two new stories, a complete demonstration story to help you use the editor and a utility mixing character and sprites from any of the stories. Abbreviated instructions, along with full details of how to register, comes in the READ ME file that's also included

Next month we'll be featuring an in-depth tutorial on how to get the most from Magic Storybook, as well as including the files for 1MBvte STs - which combine both the editor and game programs into one. Watch this space, and all that.



THE BBS DIRECTORY

BY: Mark Westquard **MACHINES: All STs (TOS 2.06** with STOS Fix 3) **FALCON COMPATIBLE: Yes (with** STOS Fix 3) **MEMORY NEEDED: 1MByte RESOLUTION: Medium/High UNCOMPRESSED SIZE: 281K**

Getting started

Once it has all decompacted, just double-click on BBS.PRG to run the program. Easy.

About the program

The BBS Directory is essential for discovering which BBSs are situated where in the UK - particularly handy if you've just read our BBS feature on page 19 and you'd like to keep your phone bills down. This is the full version of the program, exclusively for ST FORMAT, featuring over 620 BBS numbers.

It's based around a graphical map of the British Isles, which makes locating BBS sites that much easier. There are seven options you can use to find your chosen bulletin board. You can search for an individual board by



typing in its name, phone number or, if you want to be really vaque, just the area you wish to search. Alternatively, you can elect to do a central point search, which looks for a predefined number of miles around it. Just click the mouse on the part of the map you're selecting as your central point and select 'Radius BBS Search'. This enables you to find BBSs that are local, and perhaps more conve-

told of the successful file transfer

and you are returned to the Menu

screen. Press [Esc] to quit

nient for you.

Practical features abound!

BBS Directory also gives you a 'code search' option where vou can enter either the name or exchange number and let the program find out the missing bit for you. 'Show All' displays all the exchanges listed around the country, and

gives you a graphical representation of their overall distribution.

Once you've found a BBS or ten, you can then configure one of four comms programs (Vanterm, Uniterm, TeddyTerm or FreeZe Dried) with the relevant details regarding those BBSs. Just select

Don't forget

Write-protect your Cover Disk. Slide the black tab so you can see through the hole.

Make a backup using the Back Up program on the Disk. **NEVER** ever run software directly from the Cover Disk except Back Up.

Many Cover Disk programs are compressed to fit them on the Disk. Use the Menu program to copy and extract them to your blank disks. Step-by-step instructions are given just to the left.

Read the instructions in these pages and in any document file that is on the disk. They're there for a reason.

If you have any general problems with your ST, consult your manual. If you're still stuck write to: ST Answers, ST FORMAT, 30 Monmouth Street, Bath, BA1 2BW.



■ Apparently there are no BBSs in the middle of Wales. But this isn't a problem, there's only sheep there anyway.

'Disk Functions' and follow the onscreen prompts, remembering to have your comms disk ready. Finally, you can 'Search Results' to print or find more details about your chosen BBSs. Many come with information about the SysOp, the BBS' main interest group and its maximum baud rate.

The program was coded in STOS, and requires the latest version of STOS Fix, which featured on last month's Cover Disk, to run on STs with TOS 2.06 and the Falcon. It's a paltry £5 to register and in return you'll get the latest version of the program, complete with all the new exchange numbers fol-Iowing National Phone Day on 5 April (when, for example, Bath changes from 0225 to 01225) and up-to-date information concerning the featured BBSs (for example, the ST FORMAT BBS no longer functions, but is nevertheless still included in this version of the BBS Directory). Full details can be found in MANUAL.DOC.



■ With *The BBS Directory*, you can find Ad.Lib BBS – home of Frank Charlton and Andy Curtis and stamping ground for the *ST FORMAT* team. Be very careful.

TAQUIN

BY: Pips
MACHINES: All STs
FALCON COMPATIBLE: No
MEMORY NEEDED: 512K
RESOLUTION: Low
SIZE: 55K

Get started

Just double-click on TAQUIN.PRG inside the TAQUIN folder.

About the program

Taquin is a French puzzle game, boasting psychedelic backgrounds

that'll make your stomach turn. It's slickly presented and offers you a puzzle, which you piece together by sliding the pieces into the gap provided. To do this just click on one of the pieces adjacent to the hole using the left mouse button and it slides into that position.

There are four levels of difficulty, making the program challenging for novices and experts alike, and, if you're ever stumped, clicking on the right mouse button reveals what the puzzle should look like when completed. Although you're not up against a time limit the computer records your time and gives you the option of saving your best times for posterity. If all this escapes you, just click on '3' in the menu screen for instructions.

"Hang on, if I move that piece there, and then that piece there, and then... No, hang on. Let's start again. Move that piece there..."



STOSSER Stand Alone Displayer

BY: Tony Greenwood
MACHINES: All STs (TOS 2.06
with STOS Fix 3.0)
FALCON COMPATIBLE: Yes (with
STOS Fix 3.0)
MEMORY NEEDED: 512K
RESOLUTION: Medium
LINCOMPRESSED SIZE: 98K

Get started

Once it's finished decompacting, double-click on STOSSER.PRG inside the STOSSER folder to load the program.

About the program

Tony Greenwood coded the brilliant HERO (STF 64, 85%), but he's also famous for being the brains behind



■ This is the Help screen for the STOSSER Stand Alone Displayer. Pressing [Help] will, surprisingly, access it for you. (Sarcastic git – everyone else)

STOSSER, the disk magazine for STOS users everywhere. For some time Tony has been developing a document displayer to go with the

magazine and has now decided it's good enough to be released as a standalone shareware program.

Once you've doubleclicked on STOSSER.PRG to load the program, select EXAMPLE.DOC from the introduction screen and full details of how the program works along with details of how to register are provided. One of the beauties of the mix text and graphics in a single document, a feature not found in other programs of its type such as the Revenge Document Displayer. You can display pictures as a whole, in halves or even as quarters, as EXAMPLE.DOC so beautifully illustrates. You can also decide whether you want music to accompany your reading pleasure – any MUS file can be loaded in to achieve this effect.

Registering costs just £5, and removes the annoying shareware message that pops up whenever you load in a document. Just read EXAMPLE.DOC for full details if you're interested. Reading text-files will never be the same again!

JUMBLE-UP

BY: Dr Chris Walters
MACHINES: All STs (TOS 2.06
needs STOS Fix 3)
FALCON COMPATIBLE: Yes (with
STOS Fix 3)
MEMORY NEEDED: 512K
RESOLUTION: Any
UNCOMPRESSED SIZE: 229K

Get started

Double-click on JUMBLEUP.PRG once you've decompacted the program using the *Menu*.

About the program

This is a gem of a game all the way from Warrnambool in Australia. The program takes any Neochrome



■ In the words of the immortal Rolf Harris: "Can you see what it is yet?" Yes, that's right, it's a meaningless jumble of shapes and colours. And it's your job to make a proper piccy from it.

or Degas PI1 or PI3 picture file (four are provided) and automatically jumbles it up into 50 pieces, which you piece

back together by clicking on each component with the left mouse button, then dragging it to where you think it should be placed. If you're wrong, the piece springs back to its original position, and if you're completely stumped, click on the right mouse button to reveal what the completed of citure should look like.

Once completed, the program returns to the file selector, from which you can try another picture. If you want to quit from any picture, just click on both mouse but-

tons simultaneously and you're given the option of loading a new picture or quitting the program.

Note that for the program to run on STs with TOS 2.06 or the Falcon you'll need to use STOS Fix 3, which was included on last month's Cover Disk, Okav?

AUTOBORT

BY: LA Eldridge
MACHINES: All STs
FALCON COMPATIBLE: Yes
MEMORY NEEDED: 512K
RESOLUTION: Any
SIZE: 2K

Get started

Transfer AUTOBORT.PRG into your Auto folder.

About the program

Autobort can be placed in the Auto folder of a disk and used to prevent programs booting from the Auto folder. Just hold down [Control] [Alternate] and [Caps Lock] or either [Shift] key after switching your ST on with the disk in the drive.
Couldn't be easier, could it?

Care must be taken to ensure that AUTOBORT.PRG is the first program to run in the Auto folder. You could use a program like Autosort to re-sort your folder accordingly, or follow the instructions contained in AUTOBORT.DOC.

BACK UP

Get Started

Double-click on CD_BACK.TOS in the BACKUP folder.

About the program

If you honestly care about your pristine Cover Disk collection, you'll back up your Cover Disk to prevent those accidental coffee spillages and large magnetic fields ruining your life. And if you don't care, well, don't bother calling us when it all goes horribly wrong, all right?

STOS Fix 3

Early versions of STOS aren't compatible with later versions of TOS, which means that games created with them aren't either. STOS Fix enables you to fix programs to run with TOS 2.06 and the Falcon. One upshot of this is that these fixed' games won't run on early STFMs, which is why we can't provide fixed versions on the Cover Disk. We did, however, give the latest version of STOS Fix away on last month's Cover Disk.

KAOSDesk 2.1 problems?

You might be having problems running KAOSDesk 2.1 from last month's Cover Disk, especially if you have an ST with TOS 1.6 or above. This is caused by the SHELMAN.PRG

file in the Auto folder, which isn't actually required for KAOSDesk to run. Just delete the AUTO folder from your disk, and double-click on KAOSDESK.PRG to run KAOSDesk.

PICSWITCH

BY: John Brochu MACHINES: All STs, TTs FALCON COMPATIBLE: Yes MEMORY NEEDED: 512K RESOLUTION: Any UNCOMPRESSED SIZE: 216K

Get Started

Double-click on PICSWIT.PRG inside the PICSWIT folder once you've decompacted the program to a blank disk.

About the program

PicSwitch is a powerful and flexible shareware image viewing and printing utility. It supports 20 image formats, including GIF and PCX, Degas and Neochrome, and displays in any TT and ST resolution. It's especially suited for monochrome displays, as the picture on screen matches more closely any printed output you produce with it.

Once loaded, select the picture you want to import by selecting 'Open' from the File menu. If you're in low or high resolution the picture will be displayed on screen. If, however, you're in medium resolution you'll need to access 'Adjustments' from the Windows menu

Problems?

If you can't load, copy or back up your Cover Disk then you may have a faulty disk. Send the disk and a padded self-addressed envelope to:

ST FORMAT March Disk Returns, PO Box 21, Daventry, NN1 5BU. We pay the return postage for you.

PLEASE DON'T send faulty disks to our Bath or Somerton offices. We don't keep stocks of Cover Disks.

If you are having problems with a Cover Disk program, reread the instructions and any DOC files. If you still have problems, call the ST FORIMAT Cover Disk Hotline on a 01225 442244 on Wednesdays between 2pm and 6pm only.

Cover Disks are double-sided. If you have an old STFM and can't read the Cover Disk then you need to upgrade your ST to a double-sided drive.

If you have other hardware or software queries, contact the manufacturer or publisher. Or ring the official Atari Helpline on

0131 332 93233 between 6pm and 11pm Monday to Saturday and 8pm and 11pm on Sundays.

Do not adjust your set

What makes PicSwitch so great has to be its 'Adjustments' box, which is accessed from the Windows menu. Here's a rundown of what does what to that picture you've just imported.

- Bri: alters the brightness of your picture
- Con: alters the contrast of your picture.
- 3 Sep: colour separation (low/med res only). The lower the setting, the finer the colour gradation. It's recommended that you use a setting of 10-15 when using 256-colour pictures in ST low presolution.
- Display: controls how your pictures are displayed on screen. You can select a resolution (assuming it's supported on your setup). The number of colours you want displayed and whether you want to display the image in colour as shades of grey.

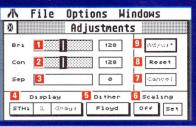
 Dither: gives you numerous dither options depending
- on what resolution you're using. This option is only available with pics displayed as greyscale or in high res.

6 Scaling: this enables you to scale the picture as you desire. Big pictures can be scaled to fit the screen (there's even a 'best fit' option).

Cancel: cancels changes made since you last adjusted the picture

Reset: resets Bri, Con and Sep slider settings to their original positions.

Adjustment: performs any changes you've made on to the drawing itself.



and hold the mouse down over 'STLow'. A list of resolutions will be displayed, from which you can select 'STMed'. Finally, click on Adjust to make the changes and display your picture.

Processing your pictures

If you've loaded a 256-colour picture, you might be a little bit disappointed with what your ST comes up with. To compensate for this, PicSwitch comes with a host of image processing options to improve the display of your pictures. Most are accessed from the 'Adjustments' box (see the panel above for full details).

Dithering creates the illusion that your ST is displaying more colours than it is by shading the picture with dots. It only works in greyscale in lower resolution, but if you're running PicSwitch in high resolution you can subject your picture to one of nine dithering options to give 256-colour pictures 'a kind of magic' that monochrome displays could normally never do. Once you've selected your desired option, click on 'Adjust' to see what effect it has on your picture.

Printing options

PicSwitch supports Epson 9-pin and 24-pin printers, and HP Laserjet compatibles. Once you've set up your printer to do the business, select 'Print' from the File menu



■ The program can be configured in all manner of ways. Here's one of the option boxes – impressive or what? and you can select your printer type and resolution (up to a maximum 300 x 300 dpi on the HP Laserjet). You can also scale the image to fit the best way on the page, and render it to get the best possible shading effect (using all of the dithering options that are available when displaying in high resolution).

What else?

Signed

Selecting 'Image Aspect Ratio' from the Options menu enables you to alter the size of each pixel displayed on screen. The default setting is 1:1, but you can select 1:2, 2:1 or 4:1, which make the picture more blocky. Numerous options are also available in 'Preferences' from the same menu, including the option to configure how much memory you give to *PicSwitch* (useful when multitasking for example). The default configuration is 'use all available' so you probably won't need to access this much.



■ I am not mad! I am not mad! There's nothing like a Gumby cracking you over the head with a plant pot to wake you up in the morning.

Although *PicSwitch* doesn't claim to be an image conversion utility, you can export monochrome images in IMG format for use in DTP and art packages that support the file type (and you'll find that most do).

PicSwitch is shareware, so if you intend to use it on a regular basis you should register within 15 days. Read PICSW101.DOC for full details and instructions on using the program. stf

JA/E	WANT	VALID	DDO	CDA	RAC
WWI	VVAINI				

						good, origina	
						on ST FORMA	
						to Nick Peer	s,
ST FO	DRMAT	Cover Disk	30 Monm	outh Street.	Bath, Avor	n BA1 2BW	

Address	
Daytime phone	Program title
WARRANT TO THE REAL PROPERTY OF THE PARTY OF	Total size in K
On a separate sheet, explain of happen to think it's so brillian	concisely what the program does and why you t.
Remember to: Include on-disk the disk Use a virus-free disk Enclose an attractive bribe. A-	and paper documentation ■ Write your name and address on ■ Keep a copy of your program, contributions are non-returnable ha bootlegs would be nice ■ Not that it makes a difference
	ation: This program is submitted for publication in work and I hereby agree to indemnify Future Publishing agains



CANNON FODDER 17 99

3.99



LEMMINGS 2 9.99



ELITE 2 14.99



CHAMP MGR COLL S. O. MONKEY ISLAND 14.99



9.99



14.99



IMPORTANT PLEASE NOT 1 MEG = requires at least 1 meg RAM

D/S = requires double sided disk drive • = new item



11.99









IRON SOLDIER

49.99 JAGUAR WOLFENSTEIN 3D



LYNX CARTRIDGES

ATARI ST SOFTWARE
ANOTHER WORLD 11.49
ANOTHER WORLD
B17 FLYING FORTRESS D/S (1 MB)12.99
CANNON FODDER D/S
CANNON FODDER D/S 17.99 CHAMPIONSHIP MANAGER 93/94 (1 MB) D/S 8.99 CHAMPIONSHIP MANAGER 94/95
END OF SEASON DATA DISK D/S (1 MB)
93/94 + UPDATE DISK D/S (1 MB)14.99
CHAOS STRIKES BACK
CIVILISATION D/S (1 MB)
CORRUPTION (M/SCROLLS)4.49
CRUISE FOR A CORPSE (1 MR) 11 49
ELITE 2 (FRONTIER) D/S (1 MEG)14.99
F1 (DOMARK) D/S
F1 (DOMARK) D/S
FINAL COMMAND
FLAMES OF FREEDOM (MIDWINTER 2) D/S (1 MB)12.49
FUTURE WARS D/S 10.99 GRAHAM GOOCH WORLD CLASS CRICKET D/S 20.99
GRAHAM GOOCH WORLD CLASS CRICKET D/S20.99
HARLEQUIN
ISHAR - LEGEND OF THE FORTRESS D/S (1 MB)7.99
ISHAR 2 - LEGIONS OF CHAOS D/S (1 MB)
ISHAR 3 D/S (1 MB)
JIMMY WHITES SNOOKER D/S11.49
JINXTER (M/SCROLLS)
KNIGHTS OF THE SKY (1 MB)12.49
LASER SQUAD
LEISURE SUIT LARRY 2 (1 MB)10.49
LEISURE SUIT LARRY 311.99
LEMMINGS 2 D/S (1 MEG)9.99
LORDS OF CHAOS
LURE OF THE TEMPTRESS D/S (1 MB)11.99
ATARI JAGUAR

MANACA MARSION DS MODOYS PLATINE Q-1, BEUCATIONAL ADVENTURE OF A THE COND.		11.49	50.99 JAGUA
PICK Y PILE PICKT SO, PROMISSED LANDS DIS (1 MB) POWERMONAGEN - WIN I DATA DISK DIS POWERMONAGEN - WIN I DATA DISK DIS POWERMONAGEN - WIN I DATA DISK DIS PROMISSED SHAPPED - WIN I DATA DISK DIS PROMISSED SHAPPED - WIN I DATA DISK DISK DISK DISK DISK DISK DISK DISK		MANIAC MANSION D/S NODDY'S PLAYTIME (3+). ED	UCATIONAL ADVENTURE1
POPULOUS & PROMISED LANDS D'S (1 MB) POWEMONDES + WYN (DAT AD MOS D'S PRINCE OF PERSIA D'S (1 MB) REACH FOR THE SIGHE BY (1 MB) SENSIBLE SOCCER- HITH EDITION D'S (1 MB) SENSIBLE SOCCER- HITH EDITION D'S (1 MB) SENSIBLE SOCCER- HITH EDITION D'S (1 MB) PACT CLAS (1 MB) TACTICAL MANAGER - ENSUISH LEAGUE D'S (1 MB) TACTICAL MANAGER - STALLEN LEAGUE D'		PICK 'N' PILE	
PREMER MANAGER 2 (1 MB) PRINCE OF P	i	POPULOUS & PROMISED L	ANDS D/S (1 MB)1
REACH FOR THE SWIES DIS (I MB) RECRET OF MONKEY SHAND DIS (I MB) SECRET OF MONKEY SHAND DIS (I MB) SECRET OF MONKEY SHAND DIS (I MB) SECRET OF MONKEY SHAND DIS (I MB) SERVINE SECRET OF MONKEY SHAND DIS (I MEG) SHAND SHAND SHAND DIS (I MB) TACTICAL MANAGER - ENGLISH LEAGUE DIS (I MB) JAGUAR CARTRIDGES ALIEN VS PREDATOR BUSSY BOBGAT CANNON PODDER (MS REDATOR BUSSY BOBGAT CANNON PODDER (MS REDATOR MONTH SHAND SHAND SHAND DIS (I MB) DIS (I MB) DOMINON HAND RESERVE SHAND	1	PREMIER MANAGER 2 (1 N	B)1
SCHABBLE (US GOLD) SCHABBLE (US		REACH FOR THE SKIES DA	S (1 MB)1
SHADWORLDS DG 1 MB). SHADWORLDS DG 1 MB). SHADG QUAST 1 SPEEDBALL THIS DG 1 MB I. JAGUAR CARTRIDGES AIR CAR WARS CAR WARS AIR CAR WARS		CCDADDIE /IJC COLD)	2
SHADWORLDS DG 1 MB). SHADWORLDS DG 1 MB). SHADG QUAST 1 SPEEDBALL THIS DG 1 MB I. JAGUAR CARTRIDGES AIR CAR WARS CAR WARS AIR CAR WARS		SECRET OF MONKEY ISLA SENSIBLE SOCCER - INTN'	ND D/S (1 MB)
SPACE QUEST 1 SPEEDBALL AT EAR 2 DIS (1 MB) TAGTICAL MANAGER - RNSILSH LEAGUE DIS (1 MB) AIR CAR WASS AIR CAR WASS ALIEN WS PREDATOR ALIEN WS PREDATO		SHADOWORLDS D/S (1 MB)
STREFFIGHTER 20 St (1 MB). TACTICAL MANAGER - ENSURE HEAGUE DIS (1 MB). JAGUAR CARTRIDGES AIRCAR WASS ALIEN VS PREDATOR. BUSS VS BOCAT. CHECKET STATE OF THE S		SPEEDBALL 2	1
JAGUAR CARTRIDGES AIR CAR WARS AIR CAR WARS AUGUST CONTROL OF THE PROPERTY CARNON FOODER CARNON FOODER CARDENED FLAG (WAS REDLINE RACING) CRESCENT CALAXY (TREVOR MCPUR) CRESCENT CALAXY		STREETFIGHTER 2 D/S (1 II TACTICAL MANAGER - ENG	MB)
ALEN VS PREDATOR BURSY BOBCAT. BURSY BOBCAT. CHE OLUMEN FRACING STORY CHE OLUMEN FRACING CHE OLUMEN FRACING STORY CHE OLUMEN FRACING CHE OLUMEN FR			
ALEN VS PREDATOR BURSY BOBCAT. BURSY BOBCAT. CHE OLUMEN FRACING STORY CHE OLUMEN FRACING CHE OLUMEN FRACING STORY CHE OLUMEN FRACING CHE OLUMEN FR		AIR CAR WARS	4
CLUB DRIVE CRESCENT GALAXY (TREVOR MCFUR) DOMITION MAN¹ + DOMITION MAN¹ + DAGON + MTERNATIONAL SENSIBLE SOCIER HOUS SOLDIER PINABLI FANTASIES - TEMPEST TOOG TEMPEST 2000		ALIEN VS PREDATOR	
CLUB DRIVE CRESCENT GALAXY (TREVOR MCFUR) DOMITION MAN¹ + DOMITION MAN¹ + DAGON + MTERNATIONAL SENSIBLE SOCIER HOUS SOLDIER PINABLI FANTASIES - TEMPEST TOOG TEMPEST 2000		CANNON FODDER	4
DEMOLITION MAN* - DOMON** DOMON** DOMON** DOMON** INTERNATIONAL SENSIBLE SOCCER IRON SOLDIER AGSUM NINLA (RECOMMENDED FOR AGES 17+) RISE OF THE FORDOTS - SYNDICATE - SYNDICATE - TEMPESS* 2000		CLUB DRIVE	4
DRAGON * INTERNATIONAL SENSIBLE SOCCER IRON SOLDIER * ASJUM NINJA (RECOMMENDED FOR AGES 17*)		DEMOLITION MAN	3
IRON SOLDIER KASUMI NINJA (RECOMMENDED FOR AGES 17+) PINBALL FANTASIES RISE OF THE ROBOTS* SYNDICATE* TEMPEST 2000 THEME PARK		DRAGON .	4
PINBALL FANTASIES * RISE OF THE ROBOTS * SYNDICATE * TEMPEST 2000 THEME PARK		INTERNATIONAL SENSIBLE	SOCCER5
SYNDICATE •		KACHMI NIN IA (DECOMME	
TEMPEST 2000		PINBALL FANTASIES	NDED FOR AGES 17+)4
VAL D'ISERE SKI-ING •		PINBALL FANTASIES • RISE OF THE ROBOTS •	4
		PINBALL FANTASIES •	4 4 4

BASKETBRAW. BILL AND TEDS EXCELLENT ADVENTURE B. BILL AND TEDS EXCELLENT ADVENTURE B. CHECKERED TLAG. CH	APB	14.
BILLAND TEOS EXCELLENT ADVENTURE 8	BASKETBRAWL	8.
OHEOCREP FLAG OHEOCR	BILL AND TEDS EXCELLENT ADVENTURE	8.
OHEOCREP FLAG OHEOCR	CASINO	8.
Grystal Mines 2 8	CHECKERED FLAG	10.
DESERT STRIKE 24 DNO OLYMPICS 8.8 DNO OLYMPICS 8.8 DNO OLYMPICS 8.8 ELECTRO COP 3.1 14 DOCKEY 5.2 ELECTRO COP 4.4 HOCKEY 5.2 ELECTRO COP 5.	CHIP'S CHALLENGE	8.
DNO CYAIPICS 8. DIRTY LARRY - RENEGADE COP 8. B. TO CHARLES - COP 8. DIRTY LARRY - RENEGADE COP	CRYSTAL MINES 2	8
BIRTY_LARY - RENEGADE COP	DESERT STRIKE	24.
BIRTY_LARY - RENEGADE COP	DINO OLYMPICS	8
GATES OF ZENDECON 14 HOCKEY 8 B H	DIRTY LARRY - RENEGADE COP	8.
GATES OF ZENDECON 14 HOCKEY 8 B H	ELECTRO COP	14.
HOCKEY 8. SHICO 6. SHI	GATES OF ZENDECON	14.
LEMMINGS 10 MS PACAMAN 14 PAPERROV 14 PAPERROV 14 PAPERROV 14 PAPERROV 14 PAPERROV 15 MS PATEROV 15 MS PATEROV 16 MS P	HOCKEY	8.
MS PACIMAN 14 MS PACIMAN 14 MS PACIMAN 14 MS PACIMAN 14 MS PACE 15	ISHIDO	8.
NF. FOOTBALL 14. NNIA GAIDEN 14. PAPERED M. 14. PAP	LEMMINGS	10.
NNA GAJDEN 14 pAPERROY 14 pAPERROY 14 pAREADON 14 pAREADON 15 pARE	MS PACMAN	14.
PAPERBOY 14 PINEALL, AM 8.8 PI	NFL FOOTBALL	14.
PIRBALL JAM	NINJA GAIDEN	14.
PITGISTER	PAPERBOY	14.
RAMPAGE	PINBALL JAM	8.
PAMPATS 0 DOS 24 SHADOW OF THE BEAST 6 6 SHADOW OF THE BEAST 8 8 SHADOW OF THE BEAST 8 8 SHADOW OF THE BEAST 8 8 SHOPPORT 8 8 TURROUND 8 8 8 TURROUND 9 8 8 TURROUND 9 8 8 TURROUND 9 8 8 WORLD CLASS SOCCER 8 8 WORLD CLASS SOCCER 8 8	PITFIGHTER	24.
SCRAP/ARD DOG 8 SHADOW OF THE BEAST	RAMPAGE	8.
SCRAP/ARD DOG 8 SHADOW OF THE BEAST	RAMPARTS	24.
SHANGHA 8 SLIMEYORID 8 SLIMEYORID 8 STEEL TALONS 14 SWITCHEAURE 2 8 SLIMEYORID 14 SWITCHEAURE 14 TURRO SUB 8 4 TURRO SUB 8 SLIMEYORID 16 SLIMEYORID	SCRAPYARD DOG	R.
SIMEWORLD 8 STEEL TALON	SHADOW OF THE BEAST	8.
STEEL TALONS	SHANGHAI	8.
SWITCHBLADE 2		
TOKI	STEEL TALONS	14.
TOURNAMENT CYBERBALL 14. TURBO SUB 8. VIKING CHILD 8. WARBIRDS 14. WORLD CLASS SOCCER 8. XENOPHOBE 8. ZARLOR MERCENARY 8.	SWITCHBLADE 2	8.
TOURNAMENT CYBERBALL 14. TURBO SUB 8. VIKING CHILD 8. WARBIRDS 14. WORLD CLASS SOCCER 8. XENOPHOBE 8. ZARLOR MERCENARY 8.	TOKI	24.
TURBO SUB	TOURNAMENT CYBERBALL	14.
WARBIRDS 14. WORLD CLASS SOCCER 8. XENOPHOBE 8. ZARLOR MERCENARY 8.	TURBO SUB	8.
WORLD CLASS SOCCER 8. XENOPHOBE 8. ZARLOR MERCENARY 8.	VIKING CHILD	8.
XENOPHOBE	WARBIRDS	14.
XENOPHOBE	WORLD CLASS SOCCER	8.
ZARLOR MERCENARY	XENOPHOBE	8
	ZARLOR MERCENARY	8.



QUICKSHOT 137F PYTHON JOYSTICK FOR AMIGA/ST AUTOFIRE

PREMIER UNI-CENTRE
FOR AMIGA, ST OR
ARCHIMEDIES. STRONG
UNIVERSAL STAND FOR
COMPUTER ALLOWING A
NEAT AND TIDY SYSTEM
SETUP. MONITOR STAND

EASY SELF ASSE 39.99 PREMIER UNI-CENTRE
PLUS. AS PREMIER UNI-CENTRE BUT EXTRA LENGTH
VERSION FOR OVERDRIVE AND OTHER PERIPHERALS
EASY SELF ASSEMBLY ... 4



WITH CYBERMORPH AND JOYPAD

• STATE OF THE ART 64-BIT CONSOLE • 16.7 MILLION COLOUR CAPABILITY • EXTREMELY FAST PROCESSOR • GENUINE UK VERSION 179.99

ATARI CONTROL PAD FOR JAGUAR 22.99

SPECIAL RESERVE

DISKS WITH LABELS

BRITISH MADE

19.99



PACK OF 10 TDK MF-2DD 3.5" DISKS (DSDD BRANDED) 8.9

PACK OF 50 SPECIAL RESERVE DSDD 3.5" DISKS WITH LABELS. BRITISH MADE. ERROR FREE. 19.99 SONY KVM 1400 FST TV

FREE SCART LEAD WITH ALL TELEVISIONS PLEASE STATE AMIGA, ST, 3DO, JAGUAR, MEGADRIVE 1 OR 2, SNES, OR CD32

..3.99

.3.9

...9.99

3.5" DISK HEAD CLEANER















QUICKSHOT 128F MAVERICK 1 JOYSTICK FOR AMIGA/ST. AUTOFIRE















BATMAN RETURNS PACK 29.99

POWERFUL COLOUR HANDHELD CONSOLE. BACKLIT SCREEN FOR NIGHT OR DAY PLAYING. 4096 COLOURS. 16MHZ PROCESSOR 8 MEG GAME CAPACITY SPRITE SCALING AND 3D GRAPHICS
HANDILING, STEREO SOUND, SCREEN
FLIP FOR LEFT OR RIGHT HANDED PLAY

ATARI LYNX 2

HEAVY discounts **HUGE** range

Name & Address



FREE - 16 page colour catalogue - just phone

60020

Order by fax on 0279 726842 - we'll fax back to confirm recei WE ONLY SUPPLY MEMBERS BUT YOU CAN ORDER AS YOU JOIN

UK MEMBERSHIP FEES EC WORLD

ONE YEAR (6 MONTHS) 7.00 (4.00) 9.00 (6.00) 11.00 (7.00) One year price includes six issues of Special Reserve magazine with £180 of XS Coupon

All prices include VAT and 2-3 working day carriage to UK mainland Software and peripherals are sent by post, hardware by White Arrow Allow one or two days for processing and despatch of stock items

We issue confirmations of all orders received

Overseas orders must be paid by credit card

Hardware items (battery or mains) are only supplied to the UK mainland

Overseas surcharge £2.00 per software item or 25% on other items

	Postcod	f Mac or PC please state DISK or CD	10
Phone No	Machine		
Enter membership no NEW MEMBERSHIP			
item			
Please use this box to			
ALL PRICES INCL Cheque/P.O./Acce			
			Γ

Cheques payable to: SPECIAL RESERVE at P.O. BOX 847, HARLOW, CM21 9PH

(ISSUE NO

CIGNIATURE



W 10 am to 8 om CLUB SHOPS 43 Broomfield Rd CHELMSFORD

The Maltings SAWBRIDGEWORTH near the train sta
Over 200,000 people have joined Special Rese MEGADRIVE 2 WITH SUPER KICK OFF

32X EXPANSION FOR MEGADRIVE

CD32 CRITICAL ZONE PACK + 7 GAMES 220.00

PANASONIC 3DO + PEBBLE BEACH GOLF 385.99



PRINTER & ACCESSORIES CITIZEN ABC 24 PIN COLOUR PRINTER 144.99 • 80 COLUMN, 192CPS/64LQ

• 5LQ/1 DRAFT FONT 2 YEAR WARRANTY • FREE PRINTER LEAD

• THE EASIEST TO USE

PRINTER ON THE MARKET

CITIZEN ABC 24 PIN MONO PRINTER. AS ABOVE BUT IN BLACK AND WHITE, FREE PRINTER LEAD. THE EASIEST TO USE PRINTER ON THE MARKET. • 124.99 DUST COVER FOR 80 COLUMN PRINTER (CLEAR PVC) ... 5.99 RIBBON (BLACK) FOR CITIZEN 24, 200, 224, 240 OR ABC 6.99 RIBBON (COLOUR) FOR CITIZEN 9, 90, 24, 200, 224, 240 OR ABC 14.99



SONY TV + FASTEXT

LEADS

HI-FI AUDIO LEAD - AMIGA(DO2/ST TO STEREO (1.5 METRES, 2 X PHOND PLUGS TO 2 X PHONO PLUGS) CAN ALSO BE USED TO CONNECT STEREO VIDEO TO HI-FI, AND HI-FI SEPARATES TOGETHER ...3.98 HI-FI AUDIO LEAD - (1.2 METRES, 1 X PHONO PLUG TO 2 X PHONO PLUG) 5.98

HIP AUDID LEAD. (12 ME HES, 13 PHOURD PLOS TO 24 PHOURD PLOS TO 34 PHOURD PLOS TO 34 PHOURD PLOS TO 34 PHOURD PLOS TO 34 PHOURD PLOS TO 35 PHOURD PLOS TO 35

PORT EXTENSION ADAPTOR FOR AMIGA OR ST (PACK OF TWO) EXTENDS JOYSTICK AND MOUSE PORTS BY 21CMS

EXTENDS JOYSTICK AND MOUSE PORTS BY 2 FORMS

PRINTER LEAD (PAPALLEL I.) IS METRES FOR AMMG, ST OR PC

PRINTER LEAD (PAPALLEL I.) SETTES SOR AMMG, ST OR PC

PRINTER LEAD (PX DOMOSICE OR COLOWING IN COLOR

RELAD (TV TO COMOSICE OR COLOWING IN COLOR

AFFILLA (NO COMPUTER WITHOUT DISCONNECTING LEAD).

AERIAL AND COMPUTER WITHOUT DISCONNECTING LEAD).

SCART LEAD ATARI ST TO PO SILVE TO WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST TO SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SO SILVE WITH SCART INPUT

SCART LEAD ATARI ST SI

FOUR PLAYER JOYSTICK ADAPTOR FOR AMIGA/ST

BATTLE OF THE BIRDS

By NICK PEERS

s we revealed last issue two German manufacturers have taken on Atari's TOS-based technology and produced new machines - the Eagle and the Falcon Mk 2 - to fill the void left by Atari's departure from the R&D side of the personal computing scene. Although Atari's preoccupation with the Jaguar has seen their commitment to TOSbased machines decline to the point of non-existence, these two new machines developed by independent manufacturers show that Atari technology remains a viable proposition, especially when aimed at a more specialist audience.

The Eagle has landed

The Eagle was announced by GeSoft at the ProTOS show in Germany in late November last year. It's a TT clone but with a higher specification - while it uses the TT's technology, it outperforms its predecessor by featuring a faster processor as standard. And its upgrade options aren't restricted to the TOS platform; even PC and Mac processors (due at the end of March and July respectively) can be incorporated. This not only ensures the Eagle stays with the competition, but also means that it can be upgraded to access a host of software and hardware add-ons from other computer platforms.

The Eagle's MIDI ports and compatibility with existing Atdio software (such as *Cubase Audio*) make it a good bet for musicians, while its workstation-quality graphics also make it suitable for serious



■ Early C-Lab Mark 2 Falcons will strongly resemble their predecessor, at least on the outside. Meanwhile, on the inside you'll find more memory and hard drive space, as well as a bug-fixed version of TOS.

desktop publishing and artwork. Hobbyists, with a penchant for keeping up with the latest technology, will find the upgrade options a tempting prospect too.

Gasteiner, who will be the UK distributors, plan to unveil the Eagle officially at Spotlight '95, the Atari and Amiga show happening at the end of June. Call Gasteiner on \pm 0181 345 6000 for more details about the show.

A new Falcon swoops

The Falcon Mk 2, announced at the recent London Atari show by Music Village, is more solidly based on existing Atari technology, ensuring that compatibility with the Falcon is maintained. Having licensed the Falcon technology from Atari, C-Lab (who are developing the machine) have aimed their new machine squarely at the musician with the emphasis placed on its dedicated musical technology, which includes MIDI ports and real-

time hard disk recording and editing. The original Falcon scored highly in this sector – the original release of *Cubase Audio* boosted its sales by up to 500

■ Here's the Eagle showing off at the recent ProTOS show in Germany at the end of last year. per cent at the end of 1993.

C-Lab see the Falcon Mk 2 as being part of "the next generation of home recording products". Before the release of the Falcon, budding musicians would have forked out at least £20,000 for the equivalent technology. However, some of the original Falcon

machines suffered from bugs, which caused problems when running Cubase Audio and Logic Audio. Atari refused to quarantee the machine's compatibility with these pieces of software, but C-Lab have recognised that the Falcon can never be successful as a home recording machine if it suffers (or is reputed to suffer) from such fundamental problems, so all their new Falcons will come with readyto-run demos of both programs to prove that they will run with no modifications. The new Falcon will also come with what C-Lab refer to as "adequate memory", by which they mean 14MBytes, as compared to the original Falcons which came with a mere 1 to 4 MBytes as standard. This makes it easier for firsttime users to get the machine they want without the hassles of upgrading, and the extra memory makes the machine more viable when used in real time (in a live situation for example). The Falcon Mk 2 will also come with a 500MByte SCSI hard drive as standard, which will be fast enough to deal with recording in real time using the Falcon's direct-to-disk technology. C-Lab have obviously done their homework properly.

Prices are still unconfirmed, although it seems likely that the final price will be comparable to an Atari Falcon upgraded to 14MBytes with external 500MByte hard drive. Digital Village are distributing the Falcon Mk 2 in the UK, and they



can be contacted on **☎** 0181 440 3440 for the latest developments.

So which is for you?

The Falcon Mk 2 appears at first glance to be the musician's choice. It's been developed by a company renowned for its musical software and has been geared specifically towards musicians. Its compatibility with existing Falcon and (to a lesser extent) ST software is also a good selling point. C-Lab are already considering the Falcon's multimedia capabilities as a future selling point, boosted by the machine's excellent graphics and sampling facilities.

The Eagle is a machine geared to the future. Although based on TT technology it should appeal to musicians as well as graphic designers. The upgrade options are attractive, and if you want a machine that can keep up with the pace of technology the Eagle may well be the one for you, if you're prepared to pay for it.



■ The TT was Atari's first leap from 16 to 32 bit technology, and was a powerful, if expensive machine. The Eagle could well be its saviour.



irect i

ven as we write, Impact Software are putting the finishes touches to Team, the realistic, 3D, STE and Falcon-only football game, which we previewed in issue 66. Impact, who have been operating independently for about three months now, will be selling the game directly for £24.95. If it lives up to expectations, Team should be one of the better games of '95. (Slight understatement - Nick)

Unfortunately, various problems prevented us from bringing you the Cover Disk demo this month, but with a little luck we should be able to bring you the full review and a demo shortly. For more details contact Impact Software on \$ 01280 850450.

■ Two of the world's finest ms prepare to do battle in Team and Nick is getting impatient, But where have ningha... ouch!Geroff!



COBBLEDICK'S A GENIUS

DUNCE'S CAP SOFTWARE, through which Dave Cobbledick published his renowned PD and shareware games, have recently closed. Dave Cobbledick is now planning to publish PC games through a new company.

The withdrawal of a programmer is, of course, a loss to the ST community. Dave decided to make his move because the response in terms of people registering the software he was releasing was abysmal. Be warned - if you don't

SCORE

support software producers, they'll stop supporting you.

It's not all bad news, though. Before Dave left he distributed the source code of his work to several PD libraries: Merlin, Floppyshop, Caledonia and Goodman, to name but a few. You can buy copies of Dave's ST software (although he no longer offers quarantees on his work) directly from Merlin PDL - no prices have been announced yet. And if you do have a PC, and are a fan of puzzle games (Dave's spe-

ciality), you could contact him for a list of his new PC titles. The address is: Genius Software, 245 Rosalind Street, Ashington, Northumberland, NE63 9AZ.

■ Dave's games have bought entertainment, happiness and 'pairs' games to the world.

No such thing as a free GIFt

CONCERN SPREAD RAPIDLY through the on-line community recently when Unisys announced that they were planning to tax the GIF image file format. Although the standard has been in public domain use for over seven years. anyone producing commercial software that uses GIF files will now have to pay a \$1 licence fee, followed by a royalty of either 1.5% or \$0.15 on each unit sold, whichever is higher.

Following the furore surrounding the announcement, Unisys/CompuServe made it clear that their plans are not quite as radical as they initially appeared. Unisys are currently applying for a patent for the LZW compression system, which is behind the GIF

format, and therefore have the legal right to impose the tax. However, having been free for so long, it does look like money-grabbing tactics to establish charges at this late stage, particularly as CompuServe have encouraged its widespread use and royalty-free licensing for years. Unisys are currently in financial difficulties, but they continue to argue that this is a move to protect their intellectual property rather than to make a auick buck.

Microsoft have announced their intention to devise a similar image format that doesn't touch on the Unisys-patented LZW system, so expect to see a few more confusing and incompatible image formats on the ST soon.

Obsessed with the Everglades

THE HEADLINE MIGHT NOT WORK but Richard West, the man behind Everglade (the Scottish mail order company) has recently announced a special offer on Obsession - last issue's FORMAT Gold-scoring pinball-fest. You can get a demo version (which comprises the Aquatic Adventure table) from Everglade

for a measly £2.99. If, having played it, you decide you like the game, just return the demo disk with £21.94, and you'll receive the that one by me again? - Karen) Write to Everglade at: 68 Telford Street, Inverness, Scotland, IV3 5LS, or call @ 01463 240168.

LIVES A A

full version absolutely free! (Er, run

EWSDES

THE COMPUTING INFORMATION agency, NEWSdesk, will be on-line from the beginning of March (as opposed to being a mailshot service for anyone with a need for information) This means that as well as being able to receive the latest, most useful information at the speed of an electronic packet, you'll be able to post your own details and info in the same way. porting NEWSdesk with accounts of

their latest activities are Hewlett-Packard, IBM, Mercury, Hayes, Hitachi, CIMdata and Olympus. Early on in the service's life, as well as posting their usual news, companies like Digital, GPT and other divisions of Hewlett-Packard will be 'going live' on the net

You can find further information about this service, along with details of some great special offers for peripherals, by e-mailing vthrelfa@ipmg attmail.com

DOOM ON THE ST?

YES! HOT ON THE heels of the stonkingly brilliant Obsession Unique Developments are releasing the first ever Doom clone for the STE and Falcon. Entitled SubStation, it looks like being another smash for Unique Developments, proving once again that the STE and Falcon can easily keep up with the big boys in the fast moving graphics and gameplay stakes.

SubStation will run on 1MByte STEs and Falcons, and feature an option to link up to four machines via the MIDI ports. You can then play against three others or in teams of two in the battle for



SubStation, 2,500 metres under the sea. For the uninitiated, Doom is a fast-paced, first person perspective game in which you run around a realistic 3D environment killing everything in your path. Mindless, violent fun!

Obscene publications

WORD HAS REACHED US THAT the Mega Archive CD-ROM from System Solutions contains textfiles detailing pornographic acts, described by the Police as being a contravention of the Obscene Publications Act. System Solutions have stopped selling the CD-ROM and a new version is being prepared for release as we speak.

MEMS SHOW IN APRIL

THE SIXTH ANNUAL MUSIC AND MIDI Show will be held at Olympia 2 in Kensington from Friday 21 to Sunday 23 April. Supporting the show are MIDI producers Music Sales, Heavenly Music and Time and Space, and the larger names in the music industry will also be there, including Roland, Digi Design and Harman.

As well as loads of top show bargains, you'll be able to attend seminars, tutorials and clinics on all aspects of electronic music, from setting up your MIDI system to refining your studio. Tickets are available on the MEMS hottline = 01369 707888, and by booking early you can reduce that £8 price tag to a mere £5. It's the music event of the year, and it's tailormade for you. If you're into music, be there. (And if you're not, why are you reading this?)

A GOOD OMEN

IF YOU'VE PROGRAMMED ON more than one computer format you could probably go on at great length about problems with compatibility. And if you've ever had to convert a game to run on another format, well... However, Esquimalt Digital Logic Inc have just announced the release of OMEn, an Open Multitasking Environment that provides a standard platform across all computer formats. This means that programs written on your ST in the OMEn environment can be run on a PC (from within OMEn) with no conversion troubles. Theoretically.

The system, although still essentially in the development stage, has been released on the ST, is running on the Apple Mac and is in progress on the PC. As it's completed on more and more formats, software you write with OMEn will

be usable on more and more machines. The package will be released as shareware, enabling you to run OMEn-compatible software free of charge, and if you pay the registration fee you receive manuals and software tools to develop your own programs.

Not surprisingly, there are still many questions that remain unanswered, particularly as to exactly how flexible and usable the language will be. When you write a system to run as standard on several machines you run the risk of creating a system that works to the level of the worst machine - you could end up with Falcon software that only runs to the standard of a 512K ST. We'll be able to tell you more when we review it across a number of formats. It's an intriguing idea, and one we're looking forward to testing in practice.

ANOTHER ULTIMATE SOUND SYSTEM

AS IF YOUR ST DIDN'T HAVE enough of a sound system under its belt, Yamaha have recently released the MU80, a 'desktop tone generator, digital FX and EQ module'. For those of you who never really understood MIDI-ese, this is a synthesizer capable of creating 660 different instrument voices, as well as 18 drum kits.

The AWM2 (Advanced Wave Memory) gives the box an excellent output, while 64-note polyphony

avoids note-stealing. Signal processing has also been taken care of — the MU80 has a 5-band graphic EQ, plus four independent effects processors, and the 43 FX algorithms include reverb, flange, distortion, pitch shifting and other modulation effects.

Of course, the standard MIDI functions are supported, with two independent inputs, each giving an input for 32 parts. Mac and PC owners will be able to use the

direct-to-host adaptor supplied, but the ST can use the box directly anyway.

The MU80 costs £699 (sounds a lot, but it's a similar price to other comparable products), and you can get more information via the Yamaha-Kemble Product Information Direct Sales Line (phew) on \$\tilde{9}\$ 0908 369269. Expensive, this music lark. \$\tilde{5}\$





nalogic Computers (

Unit 6, Ashway Centre, Elm Crescent, Kingston-Upon-Thames, Surrey KT2 6HH

TEL: 081-546-9575 FAX/TEL: 081-541-4671

520/1040 ST/STM/STF/STFM/STE......

by courier

Monochrome, Colour Monitors excluding CRT, L.O.P.T.

We pick up computers for repairs and memory upgrades for Next Day delivery to us by Courier Service for only £6.00 + VAT

MARPET DEVELOPMENTS OFFICIAL XTRA-RAM DELUXE INSTALLERS

520 STF/STFM to 1 Meg	£34.95
520/1040 STF/STFM to 2.5 Meg	£59.00
520/1040 STF/STFM to 4 Meg	£99.00
520 STE to 1 Meg	
520/1040 STE to 2 Meg	£49.95
520/1040 STE to 4 Meg	£99.00

PLEASE CALL FOR FALCON MEMORY PRICES

PROFILE SERIES II HARD QUANTUM/MAXTOR MECHANISM WITH CACHE

Compatible with all ST/STF/STFM/STE/Mega ST/Mega STE/Falcon

Profile 170DC£299.95 Profile 365DC Profile 540DC£459.95 Profile 270DC£359.95

 POA for Higher Range of Profile Series II and SCSI Bare Drive GOLD AWARD WINNER PROTAR PROFILE SERIES II HARD DRIVES have features such as

● Auto-Booting ● Auto-Parking ● Read/Write Access ● Password Privileges ● Selectable Boot Partition ● DMA Thru Port ■ Quiet Fan ■ Device Number Switch ■ Hard Disk Management Software package ■ Full Utilities package and De-bugging Software ■ 45 Watt PSU and all necessary wiring in place to mount another Bare Hard Drive in elegant housing.

BARE QUANTUM WITH CACHE

365Mb

CON 030 COMPU

with Hardware Switch

The only Solderless DIY Kits available

STE TOS 2.06 Roms.....£39.95 TOS Switcher£39.95

STE/STFM/STF/ST TOS Switcher inc. 2.06 Roms£59.95

High Resolution Monochrome Monitor

POWER SUPPLIES

STFM/STE Power Supplies (Service Exchange)....£29.95 **NEW STFM/STE Power supplies** £49.95

ACCESSORIES

STE/STFM Scart Lead£14.95	Blitterchip + socket£44.95
STE/STFM Lead to Philips CM8833 II.£14.95	Mouse Mat£4.95
Twin Joystick/Mouse Port ext Lead £5.95	10 Blank Branded Disks£9.95
290 Dpi mouse£14.95	10 Blank Unbranded Disks£5.95
Dust Cover £4.95	Forget Me Clock£21.95

1 Meg 3.5" Internal Drive. £39.95 High Density 3.5" Internal Drive £44 95

RINTERS HP320 / 510 / 560 Colour POA



 All prices include VAT
 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 ● Please allow 5 working days for cheque clearance ● PRP \$2.55 to by Royal Mail or £6 + VAT by County



The only leading repair centre in the **UK** providing a professional, high quality, while-u-wait repair & upgrade service on Atari computers without any surcharges

6.65 PERIOD Module.... Drive FOR Internal PRICE 3.5" Density

Professional Service with no surcharg

A WORLD OF INFORMATION

We told you how to get into comms a couple of issues ago. But once you're there, where can you go? And what's on offer? Clive Parker and Simon Forrester reveal a new world of data, information and, of course, Star Trek pics

ou read the Internet feature back in issue 65, went out and got yourself an Demon Internet account and spent several nights hunched over your ST 'surfing the Internet'. So, what are you going to do with it now? After all, there's only a finite number of Atari sites you can possibly visit, and you've already been to most of them.

There's something you should know. Just because you're using an ST or Falcon to access the Net doesn't mean that you're restricted to visiting Atari sites. Oh no. You can visit any site on the Net, using any kind of computer. That's the whole point. Of course, the Internet is a brilliant way to get the latest PD and shareware software for your ST and Falcon, but

there's so much more out there for you to explore.

It's very big

interner is so big that it is impossible to explore the entire infobahn. If the Internet remained the size it is today, you wouldn't have time to visit every site in your lifetime. And it's still growing. At the moment, there are over three million computer systems connected to the Net on a permanent basis. Pretty big, huh?

Add to this all the people using modems to connect to the Net on an occasional basis, and the number rises to somewhere between 30 million and 60 million. At the present rate of expansion, Microsoft estimate that by the end of 1996 there will be more Internet

traffic than telephone conversations taking place.

The main traffic on the Internet is e-mail. There are an estimated 100 million messages a day zipping over the Net, and a good number of them seem to end up in my mailbox! The other biggies on the Net are the World Wide Web, Usenet, ftp (file transfer protocol) and gopher.

The Web is a graphical hypertext-based service enabling you to read text, view images, watch movie clips and listen to sound samples. Usenet is the world's biggest bulletin board system with 12,000 different chat forums. Meanwhile ftp and gopher are the two main methods of moving software and files from one place to another over the Net.

What kind of stuff?

It would be impossible to even start listing the amount of information you can expect to find on the net, but here's a taster. In Usenet, there's text-based information on any subject you care to mention, from aardwarks to zenbvrs.

Using ftp and gopher you can get ST software, sound-files, MIDI files, MOD-files and all kinds of images in GIF, JPEG, PCX and TIFF formats.

And there are mailing lists. Got a hobby or interest? There's a good chance that there's a mailing list that can automatically send you information about it. All you have to do is send an e-mail and ask to join the list.

Engage. And so on.

Star Trek: Generations World Wide Web: http://generations. viacom.com/

If we're featuring one Web page then it has to be this one. This is an official Web page put together by Viacom, where you can find out more about the new Star Trek: Generations film. The Web page is available in text format, so you can use the Lynx text-based Web browser for the ST.

There's lots of behind-thescenes stuff about the film, including biographies, *Star Trek* history and 'filmographies' of the cast and crew. You can also order *Trek* goodies like books or communicator badges (at several times the price you can get them in the shops, naturally).

The Web page doesn't spoil the film for you by revealing the plot. Instead, you can find out lots of behind-the-scenes information and download pictures and sound samples. You can even download movie clips of the cinema trailer and play them using the AVI movie player software from 16/32 Systems. The film clips are huge: the smallest is 4MBytes and the largest is over 12MBytes.

The *Generations* pages are packed with information for Trekkers keen to learn more about the next phase of the *Star Trek* mythos, but remember guys – it's only a movie.

Atari Newsgroups

Usenet: Newsgroups: comp.sys.atari.advocacy, comp.sys.atari.announce, comp.sys.atari.st and comp.sys.atari.tech

These are the newsgroups on Usenet where you can find all the technical help and news you'll ever



need for your ST, TT and Falcon. Every aspect of Atari computing is discussed here, except games. If you want to know about the latest versions of freeware, shareware or commercial software, this is the place to look. If you have a problem with a piece of software, or if your ST has died on you, all you have to do is ask and you'll get loads of advice and help. Why are ST owners so friendly?

There's also a pretty active 'for sale' and 'wanted' area where you can pick up a bargain. Good stuff.

SUPER Cold Window Sptians Distance 150 Dis

to uk.media are quick to pounce

on newspaper articles about the

Internet and rip them to shreds. A

the Independent on Sunday was

particularly derided for stating,

recent feature about the Internet in

among other laughable comments,

that "all external modems are bat-

tery powered". So what's this flip-

pin' mains power cable for then?

Nip over to the comp.sys.atari.st on Usenet fo

UK Media Usenet: Newsgroups: uk.media

All kinds of chat and discussion about the state of the UK media,

ranging from questions like "Does .net have a future?" to The Mellon Farmer's Hit List. The former is an ongoing discussion about .net and other Internet mags, while the latter is a weekly debate on the savage editing of films transmitted by the BBC and ITV.

Japanimation Usenet: Newsgroups: alt.binaries.pictures.anime

If you like Manga videos, you'll love this newsgroup. It includes loads of images digitised from Manga and other Japanimation



So, the two captains meet at last. This is just one of the 40 images that you can

ANY CHANCE OF A TIP. GUV?

1 Get a fast modem, you spend far less time on-line and you keep your phone bills down. A 14,400 modem is the slowest you should consider.

2 Always answer e-mail off-line. Connect to the Internet for five minutes, download your e-mail and then disconnect. Compose the answers to your e-mail offline, connect to the Net for five minutes, upload them and then disconnect again.

3 Avoid slow sites. Some ftp and gopher sites can be painfully slow at sending files. To keep your bills down, stay away.

4 Avoid overseas ftp and gopher sites. Most of the major software

sites in the US and Europe have mirror sites in the UK where duplicates of all files are kept.

5 Plan your on-line session. It's no good going on-line and meandering from site to site - that's a recipe for high phone hills

6 Don't be fooled into joining a commercial on-line service like CompuServe, Delphi or CIX who charge by the hour for access. They aren't full Internet providers.
Not yet, anyway.

hourly connection rates. Get an account with a provider who has a fixed monthly subscription charge. Among others, Demon, Cityscape, RedNET and EasyNET have fixed rates.

7 Avoid Inter-

net providers

who charge

provider, make sure you pick one that has a local access number. BT are considering charging all UK calls at local rates, but it's not likely to happen soon.

8 When you choose a service

9 It's cheaper to connect in the evening and at weekends (don't you watch those annoying BT ads?). The problem is, everyone else connects at the same time. Oh well.

10 Get hold of a copy of .net magazine every month for all the latest news about the Internet. They've got an absolutely topnotch writing team, including a brilliant award-winning technical editor who... (That's enough of that - Karen).

All NEW GASTEINER Hard Drive for Atari ST, STFM, STE, MEGA ST, MEGA STE & the formidable FALCON 030.

Award winner for BEST HARDWARE 1993 - ST Review

The All NEW GASTEINER Hard Drive has all the following features.

- 1, Auto Booting and Auto Parking
- 2, Front On/Off switch
- 3, Power indicator (LED) light
- 4, SCS 5. Slee
- 6, Dua

GHE

GHE

GHE

GHE

GHE

GHE

120MB

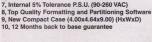
270MB

340MB

540MB

1GIG

- 7, Inte
- 8, Top
- 9. Nev





A SERIC

SI icon selector switch ever bearing Fan (17CFM) II SCSI Port rnal 5% Tolerance P.S.U. (90-260 VAC) Quality Formatting and Partitioning Software v Compact Case (4,00x4.64x9.00) (HxWxD) Months back to base guarantee	
DUSLY BIG DRIVE FOR A SERIOUSLY SMALL PRICE - ST FOR	MAT GOLD AWARD AUGUST 1

LEA	
	1481
	ALFA DA

	ATA	RI ST FALC	ON 030
	40MB	€189	£179
)	120MB	€259	£239
)	170MB	€289	€269
	270MB	£299	€279
)	540MB	£369	£339
)	1.2GB	£499	€479

all above drives comes with our award winn TOP-LINK controller & software with ST & SCS **CABLE** with falcon drives



Hi res mono monitor Philips colour Microvitec mutisync

£129 £229 £289

IDE interface enabling external Sony & Mitsumi CD-ROM drives to be used with the ST & Falcon 030 £69

0 mb boards £23 1/2 mb boards £29

2mb boards

4 mb boards

APPLE CD-ROM 2 SPEED **EXTERNAL CASED & PSU** FOR ST £299 FOR FALCON 030 £279

£99 comes with all the cables

£65

TOPLINK award winning DMA TO £5 **1/2MB TO 1MB** 1MB TO 2MB £40 £40.00

External SCSI case with 45 watt power 2MB TO 4MB £80 £99 4MB with board 14MB with board

10 50 £599 32MB with board & 32mhz £1299

DSDD DSHD £3.50 6.00 £15.00 £25.00 500 £145.00 £245.00 1000 £280.00 £480.00 DISKS WITH LABELS BRITISH MADE

converter

ERROR FREE

	IAG	WAT	
9 2	000	9000	
	A CONTRACTOR		Alle

£99

£199

£239

£269

£499

NEW 32Mhz 68030 TT COMPATIBLE COMPUTER COMING SOON

FALCON 030 4MB £499 FALCON030 16MB £899

SCANNER FOR ST £99 SCANNER FOR FALCON £99

ITIZEN



£129 £159

£34.95

£45.00

£65.00

£45.00

£59.00

1MB EXTERNAL DRIVE £50 1MB INTERNAL DRIVE £45



85MB 120MB £249 240MB 400MB £349

PRINTER CABLE £6.00 S VGA TO FALCON 030 ST TO FALCON 030 £12.00 £12 00 SCART CABLE £10.00 MULTISYNC SWITCHBOX £29.95 MODEM CABLE £10.00 NULL CARLE £10.00

DTP SOFTWARE

AV drives please phone

TIMEWORKS	£39
CALAMUS 1.09	£60
CALAMUS SL	£179

MITSUMI POWER SUPPLY INTERNAL DRIVE KEYBOARD FOR ST TOS 2.06 STE PHILIPS TOS 2.06 STFM

HP 320 £230 HP520 £269 HP560 £399 CITIZEN ABC COL £155 SWIFT 200 COL SWIFT 240 COLOUR £229 EPSON STYLUS COLOUR £449 CANON Bi10sx £189 **CANON Bic600**

CUBASE LIGHT	£89
CUBASE SCORE 2	£319
CUBASE AUDIO	£519
CUBASE FA8	£319
CUBASE AUDIO + SDI	£759
Emagic Notator SL	£185
Logic	£329
logic audio for falcon	£159

Shambara

DMA CABLE

ATARI MOUSE £9.99 £14.99 400 DPI MOUSE

£6.99 SCSI CABLE £6.99 TRACKBALL £29.99 OPTICAL MOUSE £29.99

New service centre for most Atari computers. We offer a quotation service of £10 for which we will examine your computer and report back with an exact quotation price for the repair. If the repair is carried out is then deducted from your

1st Word plus	£39
Papyrus	£119
Atari works	£99

GASTEINER

126 Fore Street, Upper Edmonton London N18 2XA

Tel: 0181-345-6000 ATARI COMPETENCE CENTRE Tel: 0181-345-6868

Small consumables and software items under the value of £50 please add £3.50 p+p. Other items except lasers, next day delivery service £10 per box, Morning next day, normal rate plus £10 per box. E&OE Prices subject to change without prior notice. All trademarks acknowledged.

All prices include VAT.

THE UPGRADE SHOP TEL 0625 503448

All prices include VAT @ 17.5% but exclude delivery. Orders can be placed by telephone quoting credit card details or by mail order. Please make cheques and postal orders payable to "THE UPGRADE SHOP." 1 year warranty on all products unless stated.

SPECIAL OFFERS

HARD DRIVES

New Series 100c hard drives from T.U.S Developments. Superb metal case (vertical or horizontal mounting), very quiet cooling fan, internal power supply, Device selector, dual SCSI parts and interface for ST or Falcon.

* Introductory Offers *

234Mb system for the ST serie	es£264.00
234Mb system for the Falcon	£249.00

TOS 2.06 SPECIAL

STE KIT

Solderless installation, with switcher and Tos manual	£49.00
STF/STFM	
Fitted with switcher and Tos manual	£59.00
HIGH DENSITY DISK DRIVE	
For Tos 2.06 machines	
HD Module & 2 Mb Drive	£58.00
HD Module	£25.00
STE SPECIAL	
Tos 2.06 + HD Module + Drive	00.00

HIGH DENSITY EXTERNAL DRIVES

Quality 'metal-cased' external Disk Drive with power
supply (TOS 2.06 required for High Density).
High Density drives read/write to both normal DSDD and
DSHD disks with fully automatic switching.
High Density (2Mb) Drive with controller£79.99
High Density (2Mb) Drive, no controller£59.99
Double Density (1Mb)£59.99

PARTS

	NEW PLUG IN POWER SUPPLY
	Includes power socket, switch and pedestal -
	no soldering£32.99
ı	INTERNAL REPLACEMENT DRIVE KIT
	1 or 2Mb Drive supplied £39.99
	KEYBOARD£49.99
	MOTHERBOARDS (call for availability)
	290 DPI replacement mouse£9.99

MEMORY UPGRADES - LOW, LOW PRICE

MARPET XRAM DELUXE

STF/STFM. Same day fitting £15.	STE KITS. With instructions and test
XRAM UNPOPULATED£24-00	software. Same day fitting £7.00
520 to 1Mb£32.99	520 to 1Mb£8.99
520 to 2Mb£69-99	520 to 2Mb£45-99
520 to 4Mb£109-99	520 to 4Mb£89-99
1Mb XRAM and	FOR OTHER VARIATIONS ON
DOUBLE SIDED DRIVE£72-00	UPGRADES PLEASE CALL

REPAIRS AND FITTINGS

Fully trained engineers for a reliable repair. All jobs quoted for individually (no fixed prices). 48 hour turnaround on most machines. Long 4 months warranty as standard. Courier collection and return available for £14-00. We can fit any of the advertised products to your machine for a one off fitting charge of £15-00. This means that if you require say an upgrade and overscan fitted then

the charge is only £15.00.

Please ring for an appointment before bringing your machine or call if courier collection is required.

Please ensure all parcels collected are adequately packaged.

FITTING SERVICE AVAILABLE ON ALL UPGRADES FOR £15.00

MONITORS

DELIVERY: Small items under £60 please add £3 p&p. Large items and orders over £60 add £7 courier charge. Courier pickup for Upgrades and Repairs £7.

Monday-Friday 9am-6pm. Saturday 9am-5pm.

Technical support: Tues, Wed, Thurs 6.30pm-8pm

Same day service available for upgrades and most repairs. Please ring before you bring.

The Upgrade Shop



37 Crossall Street, Macclesfield, Cheshire SK11 6QF



videos, along with original Mangastyle pictures created by Japanimation fans worldwide.

The images are uploaded as uuencoded text-files. You have to download the text-files and use a uudecoder program to convert the text back into a binary image file. It's not a difficult process, and the results are worth the hassle.



Atari IP support e-mail: frank@tachyon.demon. co.uk

Demon Internet are the only Internet providers to supply Internet software for the ST. Now they have a new technical support guy who deals with their ST queries. Take a bow Frank Charlton – STOS genius, ardent Trekker, occasional ST FORMAT reviewer and co-SysOp of the AdLib BBS.

If you have any problems with installing or using the ST Internet software from Demon, you should e-mail Frank at frank@tachyon.demon.co.uk. And if you look in the demon.ip. support.atari newsgroup on Usenet, you'll find Frank lurking inside. And if you can't get e-mail up and running, the number to call is \$\infty\$ 0181 343 3881.



■ He may well curl his lip, but he

UK Micros

ftp: micros.hensa.ac.uk/micros /atari/

Organised by Daneesh Bahbuta, this is probably the most comprehensive archive of ST shareware and freeware in the UK.

There's an amazing amount of stuff here, which is split up into sections for the ST and Falcon030. Each section is then logically subdivided into the specific areas, including graphics, MIDI, MODs, programming, utilities, Desk Accessories, word processing, fonts and many, many more.



Look at all that ST software just itching for you to download



I Using ftp on your ST enables you to get software from absolutely anywhere in

All the software is updated as soon as new versions are available, which means you can be sure that any program you download is the latest version. This site is a must for your fto hotlist.

Getting the FAQs right

ftp: sluaxa.slu.edu/pub/millesj g/newusers.faq

Any newbies are recommended to ftp this document today – it may well save you loads of time and trouble navigating the Net. A bit like ST FORMAT, really.

This document is a FAQ – a compilation of frequently asked questions. There are hundreds of FAQs on the Net, perhaps millions, about any subject that people ask questions about. This particular FAQ is full of questions that newbies tend to ask, like, "If I download an image created on a Mac, can I view it on my PC?" or, "Do I need to run UNIX on my Spectrum to access the Net?"

Apart from anything else, this FAQ contains a comprehensive list of every technical term you're likely to come across on the Net. It's a valuable source of information.

The list of lists

"What the hell's a mailing list?" shouts a voice from the back. I'll tell you. A mailing list is a service that automatically sends you information about a given subject at regular – usually daily – intervals. The info is sent to you as e-mail and you download it and read it in the same way as you'd read a message from anyone else.

There are so many mailing lists on different subjects that it's impossible to pick one out or give you an abbreviated list of what's available out there. The easiest thing to do is to get yourself a list of every mailing list available so you can pick one for yourself.

And it's dead simple to do.
Just send an e-mail to
listserv@bitnic.educom.edu
with the command list global as
the body text of the message. Now
all you have to do is wait for the list
to be sent to you as e-mail.

One word of warning. The list is huge, and it'll take quite a while to download from your mailbox. Don't say I didn't warn you.

•	HotFlash	9:47 pm 12/1/95	9	HotFlash 1.38	
	P.J.Hogan -Paul Hogan	8:38 am 13/1/95 +	3	help!	
	R.Downing	10:18 am 13/1/95	2	ftpmail-sticking back together	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 01/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 02/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 03/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 04/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 05/25	
•	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 06/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 07/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 08/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 09/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 10/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 11/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 12/25	
•	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 13/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 14/25	
•	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 15/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 16/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 17/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 18/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 19/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95		File: "LISTSERV LISTS" 20/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 21/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 23/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95	23	File: "LISTSERV LISTS" 24/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95		File: "LISTSERV LISTS" 25/25	
	BITNET list server at BITNIC.	5:34 am 13/1/95		Output of your job "Clive"	

Just one tiny part of that list of mailing lists. I warned you.

BOARD WITH THE NET?

Simon Forrester grumpily shuns the world of the Internet in favour of bulletin board systems. "You netcybermatrixsurfers don't know you're born." he mumbles. (Just get on with it - Karen)

You can't have missed the Internet, unless you've been sojourning on Mars for the last year. But computer communications didn't start with the Internet, and the Net isn't the only way of relaying information around the globe.

Aeons ago (back in the early '80s) the bulletin board was in its heyday. A bulletin board isn't a part of the Net, it's a single computer sitting on the end of a phone line. The main element of the BBS is its message base, a system whereby everyone who rings the machine can add their thoughts to ongoing forums on various sub-

jects. Because anyone can link into the BBS, they form a forum for all sorts of interesting subjects, much the same as parts of the Net do. And there are literally hundreds of BBSs, many of which are linked together.

You can also find a wealth of file libraries on BBSs, into which you can upload PD or shareware, and download anything

there that you find interesting. And these libraries can contain anything, from programming utilities to on-line magazines to popular TV scripts. You can be sure there's a BBS somewhere with a file on the subject you want.

This is partly because anyone with the motivation, a spare ST, a big enough hard drive, a modem and a phone line can set up their own BBS system (see page 22). And because these boards are run by individuals with no obligation to make money (unlike much of the Net) the material you find there is not charged for. But there's no such thing as a free file...



Paying your way

Even though you don't get charged, it'd hardly be fair if these systems allowed you to take copies of as much information as you wanted without giving anything in return. You're encouraged to contribute, and the more you upload to a BBS the more you can download. If you send information (programs, files, docs) you earn privileges to take what they've got on offer - for example, if you upload 1MByte you might then be allowed to download 4MBytes. The way to get the most from a board is to give the most.

So when you log on to a new BBS, find out what they don't have.

Then, before you start pillaging their hard drive for anything that interests you, send them something nice. We cover etiquette more elsewhere, so read and pay attention!

For now, we've chosen a few boards at random from the thousands available, making sure we visited boards with an ST-specific slant, but

NETWORKING

One part of the BBS culture is networking, the process by which bulletin boards are linked together and can pass mail between themselves, which is particularly handy for users on different boards. If you're using a FidoNET BBS, you can send an electronic message to someone using one of the hundreds of other FidoNET boards. This networking isn't as instantaneous or efficient as the Internet, because the boards aren't linked by permanent lines, but what network there is works through the relaxed transfer of information over standard phone lines at unpopular times of night.

Each board on a network is a node, so a nodelist is simply a list of boards available on FidoNET. Addresses take a numeric form, with each board having a serial number. You can, with a bit of work, get on to some BBS networks via the Internet, but essentially they're BBS networks.

it's dead easy to just log on to any BBSs yourself and have a quick look at what they offer.

Ad Lib

© 0191 370 2659

The official ST FORMAT BBS. SysOp Andy Curtis has spent a lot of time getting this ST-orientated board to reflect the different points of ST interest. Ad.Lib has a specific ST FORMAT message section, which is supported and used by the ST FORMAT team, and is the ideal way to get information and give us your feedback.

High points:

ST FORMAT message base: All the latest gossip, news, opinions and feedback on ST FORMAT. Red Dwarf scripts: Frank Charl-

BBS-ETIQUETTE

As you should know by now, bulletin boards are run by independent people who make little (if any) profit from the activity - they're run on goodwill. For that reason, you'll get along a lot better if you bear some basic codes of conduct in mind...

• Never, ever, ever drop the carrier mid-session. The carrier is the telephone link between the

two machines - you can drop it by hanging up. If your modem hangs up and the BBS isn't ready, you'll probably crash it. Wait until the

- BBS hangs up before turning your modem off. Should you drop the carrier, always call back
- and leave a message of apology, partly to check that the board hasn't gone down.
- Never walk away from your ST when it's online. Even if your ST's doing something, you can be sure it'll stop to ask you a question and you'll leave the system hanging around on the phone when other people could be logging on.

File transfers

- Always upload as much as you download. It's not difficult - you'll always have the odd PD or shareware program you can send in return.
- Never break copyright when uploading -
- you'll get yourself and your SysOp in trouble.
- Check the content of what you send. There's a lot of dodgy material floating around on boards, and when you do send something along make sure it's going into the relevant file area. • For the sake of your phone bill and the BBS
- hard drive, always upload compacted files.

HOW TO DO IT

"Hi kids! This week we're going to show you how to cure all known diseases, rise to power, make a million pounds and play the violin! But first, here's Philip to tell you how to log on to a BBS!"

Thanks, Chris. Right kids, first you'll need your trusty modem and a comms package that communicates in straight ASCII. Any of the packages we reviewed in issue 65 will do (Fizzydizz, STalker, TeddyTerm, CoNnect and Flash). The best for now is probably TeddyTerm - it's easy to get started with.

'Let's assume you're logging on to our favourite board, Ad.Lib After dialling the number through your modem (using the ATD command as should be documented in your manual), wait for a message, usually telling you to hit a key. You'll then see the board's sign-on message prompting you for a name, with instructions as to what to do if you're a new user. This could mean simply hitting [Return], typing NEW, whatever.

"From this point, you'll get the opportunity to register as a full user of the board. You may need to do this before you can down load anything, and it's always a good idea anyway. If you get through the registration process, you'll find yourself at the board's main menu, free to browse. Registration is either free or darned cheap (a fiver or so), and it's well worth getting established on a good few boards. Okay? Good."

ton's 'painstaking transcription' (or shameless copying) of scripts from the TV series. Star Trek images: A Trekkie

paradise - endless lists of Trek image and text-files, as well as a stupid number of Trek samples. Programming corner: Support for a variety of languages, and some handy utilities to smooth the creative process

Falcon's Realm

© 01254 386151

With two Falcon030s, Falcon's Realm professes to cover all things Falcon. The Realm is the place to go for support from other Falcon users and lots of Falcon software

FolkeSTone

© 01303 249306

So what ever came out of Folkestone, apart from the ferry to

g File Po		fe
BAN	D CET IOX	67:
TIME SO Egyptian 344 B Egyptian 3 Monopitch 311	Nit setting rather tedous finding things to this office, Star Trek has worn this a years, a rearguard attempt by Tre Nick to introduce football into the under severe pressure from [ill, a wants to listen to Queen.	nten and mag is nd no one
구 교	regarding Bick's painful break-up w girlfriend (see the other screensho sate, new theories regarding medieval fingshi for introduced in order to testiate people and sultremed debates.	th his ex- t). At this p will have to
DMC	•	1.14



Calais? The long-lived FolkeSTone BBS earnt its popularity through its fanatical ST support...

Net access: It's not the Internet, but Folkestone is on FidoNET, NeST and AtariNET, giving you access almost any BBS network with the minimum of fuss

Atari Explorer On-line: An electronic Atari news fanzine, which is also available over AtariNET. Contains all the latest news on Atari and their activities.

BBS software: If Andy's words on setting up your own BBS (page 22) inspire you, there's sound technical support here, and a bundle of software to help you on your way.

STatic2

A truly terrifying board. Attempting to guess just how much is stored

most hardened mathematician insane. The list of different file areas alone takes several screens to scroll though, and covers just about every topic on most formats. Among the 40-odd Atari file sections: CD-ROM: Software and information files supporting CD-ROMs and their users, plus software archives, which are readily accessible on-line. Games: STatic featured the best selection of games that

we saw for users wanting a good blast. You'll find at least 50 good games before you start looking. Total utility support: Extra

files for everything from Calamus to Cyber animations, screen savers, even calculators. The list really is endless.

Desktop BBS

© 01782 541305

Although it's almost a rival board to Ad.Lib, you should take a look at Desktop. Probably the most unstructured file list of all time, but the more technical side of the ST is covered in great depth, with compacters, programming notes, maths

engines and the like. Also: Sci-fi: An enormous selection of interviews, fanzines, picture files and sound samples from popular sci-fi series such as DS9, TNG, B5, and other less popular TV shows

Cyberspace: Desktop runs the kind of unusual, offbeat conferences you'd normally only find people enthusing about over the Internet. You've probably heard fervent tales of foot fetishists and UFO abduction victims letting it all hang out on the Internet, and Desktop has to be the closest BBS equivalent. A lively area, worth a browse. Calamus: Extra Calamus files and

handy hints here, and you can share tips with a host of other Calamus users and experts.

Goodman: Desktop is the official bulletin board for Goodman PDL, offering a selection of the library's software plus on-line ordering and the latest Goodman news.

OVELY LONG LIS

If you're into the idea of visiting new boards each night, you might like a list of all the boards available. You can obtain one from Desktop BBS = 01782 541305. Their zone nodelist gives you information on literally hundreds of different boards, catering for any taste. Don't worry about the fact it's called a zone nodelist - that's simply a fancy term for a board list that runs on FideNET.

We can't print the list in its entirety, but here are a few more numbers to try...

Aspects II	0161 708 9330
ICP Inter BBS	0161 928 9191
The Hairy Troll	0151 604 1921
Penfold's BBS	0161 202 4762
Astronomers Den	01942 831925
Gnome	01925 861133
The Abyss	01282 866835
UK Healthlink	01942 722984
Virtual Reality	01925 826710
StarFleet HQ	0151 420 6272
STRANGE***daze**	0274 481363
HardRock BBS	0114 245 9571
Faulty Towers	01235 535113
Caffeine BBS	01252 545138
The InterZone	0181 244 0106
Starbase One	0171 738 7225
Pyrotechnix BBS	0181 390 4701
Spong!	01249 817704
Temple Of Dreams	01642 674088

The Tavern

□ 081 445 6514

When browsing through boards you'll notice that some are bigger than others. Among the grandaddies of ST boards, alongside Ad.Lib and Desktop sits the Tavern BBS, a board that covers absolutely anything and everything... Religion: Among Tavern's CD

sions of religious texts, from the orthodox to the downright odd. Clip-art: Essentially just monochrome picture files, this stuff is like gold dust to anyone that's getting into DTP and wants some pretty illustrations to brighten up their

archives you'll find electronic ver-

pages. Stacks of stuff. Electronic books: The Tavern also sports a large electronic library for those of you who are tired of reading convenient paper prose, and would prefer to lie in bed with a ton of computer equipment on vour lap, Lovely!

□ 01315 569<u>734</u>

and available here could send the

• Use a standard compression system, such as Zip. No one'll thank you for saving that tasty program in a format they just can't use.

• If your file is over 700K, break it up into chunks. Not everyone has a hard drive, and those storing it on disk will need this leeway.

• You can defuse almost any situation with a well-placed smiley :-)

• Don't swear or abuse people. Unless they request it. of course. That's different.

• If the message base enables you to quote a message when replying to it, do so. This makes life much easier for people who couldn't otherwise remember what the first message was about. Like us, for example.

Remember that what you're sending can be read publicly. If you want to say something sensitive or downright private to one person in particular then you should send it privately. Most boards have a little e-mail system that works in the same way as the message base but privately, so use that instead.

SysOp chats

There will come a time when, while you're using the board on-line, the SysOp will break in for a chat. A chat mode will take the form of a lineby-line text entry system, and you'll take it in turns to type. There are a few rules you should bear in mind in this situations:

• The SysOp always types first.

● Follow what you type with a few carriage returns - two will do. This lets the person you're chatting with know it's their turn.

Never type while the other person is typing.

Want to start a BBS?





Yeah? Andy Curtis shows you how. And he should know. After all, he's been running Ad.Lib, ST Format's recommended bulletin

board, for three years now.

aving seen what BBSs have to offer over the last couple of pages, you may well now be interested in running your own BBS.

However, starting a BBS sounds like it's akin to scaling Mount Everest single-handed – theoretically possible, but you wouldn't attempt it for fear of failure. In fact, it's much easier than you might expect. It does require a lot of time and commitment, but in practice all you need is a suitable

BBS program, your ST, a modem and a hard drive.

So what do I do?

Don't let the size of the task get to you. Follow these simple steps.

1 Get hold of the hardware you need. Check your system against the items list in our panel below and add in what you don't have.

2 Decide on a BBS program to use. Log on to BBSs using the different packages and see which you like best as a user. Talk to the

much information as you can. Many systems offer a demo package – if you like the system, get hold of it.

3 Read all the READ.ME files or instructions for the program, then install it to your hard drive.

4 Go through every text-file installed to your BBS and edit it to your specs – make the systems.

SysOps and glean as

tem look your own.

5 Try a few local logins and see what it looks

Unless you're totally boring and staffy, you'll want to include an on-line games area. There are leads of BBS games available and most BBS systems can run them. Users can battle against other users in space adventures, Vistaam War simulators and a host of other settings, Unfortunately, many of these games have been 'SysQl'

like. You'll probably spend the next few days working on all the files and menus to get them to look right, but that's all part of the fun. 6 Ask a friend to call the BBS. When they log on, pat yourself on

the back. You're now a SysOp.

7 Don't be afraid to ask the help of other SysOps. Many things you

need to know aren't written down and you'll need to ask. They've all been in your shoes at one time.

Which package is for me? Choosing your BBS software is the tricky part. Bear in mind that if your BBS is successful you're going to be using the same software for

some considerable time, so considerations like how easy it is to get hold of and what it costs are not quite so important as they seem in the short term. What is important is that you get the right software for you and your forthcoming users.

The three key sections of your BBS are the login procedure, mes-



■ LED has been around for a while but hasn't yet been bettered. It hooks in with your networked mail bases and roads the messages direct. You can use it to read and reply to messages, send private not mail. The route messages and a host of other things. You'll be lost without it.

HARDWARE ISSUES

You'll need a few other hardware items to run a BBS successfully. The specifications of all four pieces of equipment have a fundamental influence on what you are able to offer on your BBS.

- 1 A phone line. Vital. Ideally you need a dedicated BBS line running a BBS on your voice line on limited hours isn't a satisfactory long-term solution. BT currently charge £117 to install an extra telephone line to your house, after which it costs you the normal line rental plus any outgoing calls. This is expensive initially, but worth the expense. If a cable company is offering a phone service in your area then go for this option, you can save no end of money.
- 2 A hard drive. You just won't be able to run a competent BBS system without one of these. As well as file storage for downloads, you have to consider the BBS and associated files as well as on-line games, BBS utilities, message bases and a whole host of other things. With prices of hard drives coming down all the time there are loads of great deals out there, and we'd recommend that you get at least 200MBytes for a small to medium sized BBS.
- 3 A modem. No escaping this one. The prices of 14,400baud modems are coming down all the time and this is the sort of modem you will need to run your BBS anything slower is impractical. You may want to go for a souped-up 28,800 baud V.34 model, but these are still fairly pricey

at around £300-450. Expect to pay around £150 for a decent 14,400 V.32bis.

C Your ST. You can run a standard ST with no enhancements, but you'll find a few upgrades useful. First, 4MBytes of memory ensures that all the programs you wish to run from within the BBS have sufficient space. If you can afford an accelerator to speed up the processor on your ST this pays dividends in the time taken to create large archives on your BBS. The less time a user spends waiting for a file list to be created or a message packet to pack, the better. You may also want to upgrade the serial port to handle up to 38,400 baud – indeed, you'll need to do this if you intend to run a V.34 modem, but don't worry, it's a relatively simple DIY job.





HELPLINE Technical helplineduring office hours.

CABLE Free parallel Centronics with all printers.

ACCESSORIES

connection cable supplied

RIBBONS

PRICES INCLUDE VAT SP-1900 Plus Black Fabric - £5.46 - RIB 8018 Black Carbon - £8.64 - RIB 8025

SL90/92/95/96 Black Carbon - £8.99 - RIB 8292 Black Fabric - £6.43 - RIB 8294 SL95/96

Colour -£11.25 - RIB 8298

SPECIAL OFFER! AUTO SHEET FEEDER FOR SP1900PLUS

SL90/92/95/96 Autofeed up to 80 single sheets without reloading. ONLY

£25.49 £29.95

Seikosha SL-96

24 pin - Dot Matrix

240cps SDraft, 84cps LQ

42K Printer Buffer

2 Scalable Fonts + 8 Bitmap Fonts

Parallel Interface

Graphics Resolution: 360 x 360 dpi

• Epson·LQ870 Emulation Colour **Function**

 Colour Windows Driver as Standard

 Colour Printing as Standard (Black Ribbon Optional)

Friction Feed/Push Tractor

Optional Auto Sheet Feeder

ON-SITE WARRANTY 1 YR - ONLY £10+VAT - POS 8515.



PRINTER DRIVER For extra high quality output. Features include

 Up to 256 Shades of Grey
 Enhanced Print Speeds Definable Dither Routines
 16-point Colour Adjustment ch 2/3 GUI

Graphics/Paper Size, Mar

AMIGA

£130 OFF RRP

SEIKOSHA SL-96

PRINTER RRP FREE CABLE £8.47 TOTAL VALUE: £257.47 SAVING: £130.66

SILICA PRICE: £126.81



FEEDER

SEE

NOW ONLY £126.81 + VAT = REE DELIVERY IN UK MAINLAND



• 192cps Draft, 48cps NLQ 1K Printer Buffer + 2 Fonts FREE CABLE

 Parallel Interface Graphics Resolution: 144 x 72dpi

· Epson and IBM Emulation (Windows compatible using Epson FX850 drivers included as standard in Windows 3.1.) Automatic Sheet Feeder Option

 Auto Paper Load, Paper Parking FREE cable and delivery from Silica

£73 OFF RRP £149.00 FREE CABLE TOTAL VALUE: £157.47 SAVING: £73.21
SILICA PRICE: £84.26

A FULL PRODUCT RANGE:
 All of your computer requirements from

WE PRICE MATCH:
On a "Same product - Same price" basis

ccept most major credit cards, cash.

(APR 23.8% - written quotes on request).

VOLUME DISCOUNTS AVAILABLE:
Business, Education and Governmen
Tel: 0181-308 0888.

MAIL ORDER: FREE DELIVERY in UK mainland on orders over £40+VAT. Small administration charge (£2.50+VAT) on orders under £40+VAT.

22 STORES NATIONWIDE.
 "Mini Stores carry a selected range only but p can be ordered in the stores via Mail Order

• FREE CATALOGUES.

PREVIOUS SILICA PRICE £84



• 80 Column 240cps SD, 192cps D, 84cps LQ 20K Buffer + 9 Fonts

Parallel Interface

 Seikosha SL-90 Plus

> Graphics Resolution: 360 x 360dpi Epson LQ850 Emulation

· Windows Driver as Standard Semi-Automatic Sheet Feeder, Paper

Parking, Optional Automatic CSF

FREE cable and delivery from Silica

FREE CABLE

£104 OFF RRP £189.00 FREE CABLE €8.47 TOTAL VALUE: £197.47

£92 SILICA PRICE: £92.76

PREVIOUS £129

220J

THE SILICA



DEBENE AMS

ESTABLISHED 17 YEARS: We have a proven track record in p PART OF A £50M A YEAR COMPANY: With over 300 staff - We are solid and reliable EXPERIENCED STAFF:
 All fully trained in 'Customer Care'.

 TECHNICAL SUPPORT HELPLINE:
 FREE help and advice from a team of experts.

SOUTHEND

MAIL ORDER 0181-309 1111 BRISTO penhams - 15er Report, St. David's Way

On 1222 341576

penhams - Inse Report, 27 High Street

Denhams - (2nd Report, 11-31 North End

D181-688 4455

penhams - (3nd Report, 11-31 North End

D181-688 4455 CARDIFF CHELMSFORD CROYDON GLASGOW harders - den von §F Argin Sterte 114-1221 100882 and 114-1221 100 GUILDFORD HARROW HULL Debenhams - (2nd Floor), Millibrook Debenhams - (2nd Floor), Station Road Debenhams - (2nd Floor), Prospect Street IPSWICH LUNDON LONDON LONDON LUTON MANCHESTER Debenhams
PLYMOUTH Debenhams
ROMFORD Debenhams SHEFFIELD The Moor 0114-276 8611 Meadowhall Ctre SHEFFIELD Det
SIDCUP Sili
SOUTHAMPTON Det 0114-256 9779

(2nd Floor). High Street 01702 462426 ms - (for Floor). Lakeside Centre 01708 863587

To: Silica, STFOR-0395-220, Silica House, Hatherley Rd, Sidcup, Kent, DA14 4DX PLEASE SEND A FREE SEIKOSHA BROCHURE Mr/Mrs/Miss/Ms· Initials· COMPUTE SHOPPER Postcode:

HOPPER 194 Award

Tel (Home): Tel (Work): Which computer(s), if any, do you own? sage bases and file transfer areas. As you test out each package as a user see how they rate in your eyes. How easy is your first login? Does the system confuse you? Are the menus simple to follow? Is it easy to download files? Do you have to wait for long periods each time you access a new function? Questions like these will help you to build up a picture of the kind of software you want to run.

In reality, most BBS packages cost between £40 and £60, so cost isn't much of an issue. The most important thing to look for in any BBS package is support. If the author produces upgrades to the program and listens to his users then you're on a good footing. Read our potted descriptions of each package and one should stand out as fulfilling your needs.

Anxieties!

You may be worried that no one will log on after you've gone to all

E Like Octopus, RATSoft has a scripting language is which you can program just about anything. In this example, Frank Chariton has crafted a friendly logo script. If your BBS system has a scripting language

ESSENTIAL BBS CONTACTS

SysOps are known for helping each other out, and you're bound to have questions. Give these a call.

Dave Meaker and Martin Stacey at The Chameleon BBS

this trouble, but you're likely to be

pleasantly surprised. There are a

there and they'll be interested in

the 'New BBS on the Block'. The

most important thing initially is just

to be there and to gradually collect files that enhance your appeal. You

may want to specialise or be a gen-

with network mailing and chat with Atari users all over the

You can also get involved

world. This will attract users who want to take

advantage of your mail

messages in networked

soon know of your exis-

don't overdo it with the

uine interest can quickly turn to annoyance if,

adverts. People's gen-

everywhere they turn

there is a 200 line advert for your BBS!

link - just leave a few

bases and people will

tence. One word of

warning, however,

eral interest BBS - it's up to you.

lot of Atari comms enthusiasts out

networking files.
The Chameleon BBS

2 01454 881095
Internet:
<messy@walusoft.cen-

tron.com>

Daron Brewood Re: NeST and AtariNET networking. NeST Netmail: 90:90/0.0 Internet:
<dbrewood@nest.demon.

Kevin Osborne at The Fortress BBS Re: Octopus BBS Software The Fortress BBS = 0181 244 9825 Internet: <Kevin.Osborne@fortress .mettav.exnet.com>

Steve Hughey
Re: RATSoft/ST
P.O. Box391
Alta Loma, CA 91701
BBS: = 001 909 481
1927 (from the UK)
UK Support BBS: Ad.Lib
= 0191 370 2659

I I's important to keep message base size under control when running a BSS. If oo let the messages pile up without delating the old ones then your drive will see te full to overflowing. Often your meil tossing program will be able to compress

Networked mailing

An increasingly important part of any BBS is connection to one or more of the message networks – national, European, worldwide or just a link with your best mate. The major networks for Atari interest are NeST, AtariNET, FishNET and, of course, the fast emerging SausageNET. These networks are all run by the users – that's you if you join. You may be the end link in a chain, or you may be a mail hub, supplying mail for other BBSs.

NeST and AtariNET are two closely linked networks covering broadly the same topics. NeST has its emphasis in Northern Europe whilst AtariNET has its emphasis in the USA. Don't be surprised to see messages on AtariNET from Atari HQ in Sunnyvale! FishNET and SausageNET are more relaxed UK networks where the emphasis is on light-hearted chat. You'll find the ST FORMAT message echo on the FishNET if you want to join in the chat with us.

BBS SOFTWARE

The BBS program you choose will determine how powerful and flexible it is for you as SysOp of a BBS, and it dictates what the BBS users will be presented with when they log on.

QuickBBS

Written in GFA Basic 3.5, QBBS incorporates a wealth of advanced features including on-line archiving, language checking and global file search in all areas. If you set an afternoon aside you should be able to get QBBS working nicely by teatime. It includes an 'out of the box' setup which is quite good enough to set you on your way. The advanced menu editor offers support for common terminal modes including ANSI and 16-colour mode. QBBS is easily configurable to run external programs and to interface with external file transfer protocols. The biggest limitation placed upon QBBS is the language in which it is written, making screen output slower than its competitors, although even this is being addressed.

The details: developed in the UK by Dave Meaker and Martin Stacey of WALU Software. You can get a demo key by logging on to a BBS in Holland (where the original author lives). New registration sites are planned for the UK and



■ QBBS supports the ANSI terminal emulation as well as VT52 and ASCII. With more ST terminal packages supporting the ANSI standard the way is opened up for more pleasing graphics screens as seen on PC BBSs.

USA later in the year. Demo keys last for 60 days, after which you must wait 30 days before ordering a new demo key. You may have up to four keys in total. If and when you decide to register, the cost is around £50 depending on current exchange rates.

Octopus BBS

Octopus is relatively new to our shores and it's already making an impact. Its main feature (and what a feature!) is multitasking compatibility: it runs under MagiC effortlessly provided you use the GSZRZ file transfer protocols (shareware, available from all good BBSs). The BBS system is probably the hardest to set up because it relies exclusively on a user-defined configuration file and a script file to control the actual BBS, both of which are only editable with a text editor. You'll need to look carefully at the examples given to work out how to give your BBS the perfect look and feel. Stick with your task though and the results can be impressive. If you have experience of programming in C or Basic this could well be the system for you.

The details: written and developed by Koos Kuil. You can get hold of a demo version by contacting Kevin Osborne at The Fortress BBS.



■ Most BBS programmers can't resist putting a nice big ego-boosting screen into their creation. Mr Kull is no exception with his *Octopus* BBS system. Many BBSs carry the software you'll need to join these networks, and most SysOps will do their level best to help you out. Once you've set up for one, it's simple to add others – you merely add the extra details to your configuration files. To join these networks you need the following software, all of which is carried by The Chameleon BBS.

1 A BBS software package capable of carrying FIDO-style message bases. RATSoft, QBBS or Octopus

are all fine.

2 A front end program to intercept mail or BBS calls and make outgoing calls. *BinkleyTerm* ST is free, well tried and tested, and is the only real option for *RATSoft* users. *Semper* is shareware and features a GEM interface and loads of features. It's worth registering, at £25.

3 A mail program to decompact

3 A mail program to decompact and install messages as well as pack the new ones. IOS is free and does the job well enough but is slow and difficult to set up. Jetmail, the shareware option, is fast, efficient and brimming with clever



IARGON BUSTERS

BBS: A host system, which other comms users can call for files, messages and, hopefully, fun.

On-line archiving: Archives are single, compressed data files, which can contain many files. Packages are archived on a BBS to make download time as short as possible. Many BBSs can create these archives while you're logged on to the system, hence, on-line archiving.

Language Checking: A language check generally means the insertion of capital letters where required. If you were to enter 'andy curtis' the language check would change this to 'Andy Curtis'. Very kind.

Global file search: The ability to search for a file on a BBS by entering a file mask or keyword. Once found the BBS should offer you an opportunity to download the file.

Advanced Menu Editor: The QBBS alternative to playing around with text-files for menus. It's easy to use, but some people find it a little limiting.

Terminal Mode or Translation: Most BBSs will be able to adapt to the type of software you're logging in with. The common three are VT52, ANSI and

BTNC comes with most networked mail packages, and will compile the nodelists you receive ready for use by BinkleyTerm and your BBS.

You'll also need to apply for a node number for each network you join. Get in touch with a SysOp of a BBS carrying the networks you need and he/she will put you in touch with the network co-ordinator. Daron Brewood co-ordinates NeST in the UK, and can help with AtariNET node numbers. Dave Meaker is co-ordinator for FishNET.

Networking involves a lot of set-up work and a fair amount of

plain ASCII. Most Atari terminals support the VT52 standard with four colours, but many now also support ANSI with four or sixteen colours – which means you can be much more creative with your screens. If you're unsure, select ASCII or tty and you can be sure not to get a screen full of trash.

File Transfer Protocols: Programs that actually download the files for you. The two most common are XYZ.TTP and GSZRZ. You can set your BBS up to run with either - or both

Multitasking Compatibility: The ability to run under MagiC or any other multitasking system.

Script File: A text-file written in your BBS' own language, which can be tailored to add special features to your BBS, such as an on-line insults generator.

Key Files: Those magic groups of letters and numbers that render shareware and commercial software valid and registered.

'Out of the box': As far as BBSs are concerned, this is the state of the BBS files when they reach you. Some systems come with a nice neat install program while others are just a load of archived files.

cash registering the programs you use, but it is rewarding. Your mail is packed automatically during the night and scheduled events see that all the message transfers are done before you wake up in the morning. And your users will love you for it!

Go for it!

Setting up a BBS costs a few quid, and takes a lot of time, but users do take the time to thank you and as you see your BBS expand, it's very hard to resist feeling proud that you created it. **stf**

mailing software would explode.
As new BBSs join, possibly

yours, new nodelists are sent out. BTNC adds the new information in to your setup and readies the system for mailing to the new nodes.

tricks. It's around £30, depending

SysOp access to each base. LED is

the only option - it's readily avail-

5 A nodelist compiler, Nodelists

tell you the location, in mailing

terms, of every other BBS in the

Network. Without them, your

able with no key money to pay.

on the current exchange rate.

4 A message reader to enable full

If you buy the package it's around £55 depending on the exchange rate. There are plans for a UK support site to deal with registrations.

RATSoft/ST

RATSoft has been around for a few years now. It has a more structured environment than Octopus, while still employing a scripting language to give you, as SysOp, freedom to expand and customise. You can be up and running with RATSoft 20 minutes after opening the box, but it might take you weeks to get it looking and



Il in any BBS program you'll need to set up different user levels to control access to sections of the BBS, particularly new users. ProBBS (uses you this user config program. Loads of options to configure here...



■ Some basic parameters for RATSoft can be set with this easy-to-use GEM program. Programs like this take a lot of the guessing out of BBS configuration because they write the data-file for you.

feeling "just right". Features include an on-line spell-checker, advanced file batch-mark facilities, on-line humorous banners and a host of other features designed to make your users feel at home. There are GEM'ed programs for a plethora of extra functions, including one to find 'orphaned' files and another to apply a user mask to a predefined group of users.

The details: written and developed in California by Steve Hughey of Rodent Labs Software. There's no demo version available, but one is promised and may be available later in the year so if you want to see RATSoft in action you're limited to logging on to the growing number RATSoft BBSs or visiting a RATSoft SysOp and seeing how the package works first hand. RAT-

Soft 2.1a is commercial, rather than shareware, and with full printed manual costs about £50.

ProBBS

ProBBS is now PD because it's no longer supported, which means that it's a good package to start with because you can just download it, with nothing to pay. Installation requires a front end mailer such as BinkleyTerm and a command line interpreter such as TOMShell to run the BBS from. You may find it a little tough to set up, but it is a viable BBS system and well worth considering if cash is a problem.

The details: *ProBBS*, which is a fully featured BBS system, is freeware. You can download it from I'll Try That Once BBS on ≈ 01483 765378, SysOp, Mark Taylor. The file is called PROBBS18.ZIP.

BBS System	Current Support	Out of the Box Ease	Features	Overall Feel
QBB5	Yes	75%	7895	79%
Octopus	Yes	5998	83%	81%
RATSoft	Yes	8195	85%	83%

SMOOTH **OPERATORS**

Bored with TOS? Fancy a snazzy multitasking alternative, but confused about which new operating system to choose? Peter Crush puts Geneva and MagiC to the test...

HELLO. OPERATOR

All computers need an operating system, so they can, er... operate. The operating system provides a basic environment which runs programs, copies files, controls disk operations and peripheral devices, and does all the other things computers need to do.

Although the very first STs had to load this operating system from disk like most other machines, soon TOS was provided on a chip inside, so as soon as you switched on you were ready to

go, with no time or memory lost in loading the operating system. New and better versions of TOS have been released for the ST over the years, the latest being v2.06, and TOS 4 for the Falcon. To install these you need to open up your machine and replace the chips - this is best done professionally unless you're really competent. But the recent rush of brand new software-based operating systems just goes to show how things go round in circles. Instead of being on chips they're loaded from disk.

e honest, when you switch on your ST you probably don't consider its operating system, do you? But it's crucial to the way your ST works, and it's one of the fields in which an enormous amount of improvement has recently been made. All STs need an operating system just to get them running take a look at the panel below to see exactly what else an operating system does.

With most makes of computer the operating system has to be loaded in from disk before you can do anything but, luckily for ST owners, The Operating System (TOS) is present in the machine's chips and is ready straight away. TOS is perfectly sufficient for most ST users, but it's getting on a bit now, and although Atari have updated it, your ST or Falcon has potential for greater things if equipped with a newer, more capable operating system.

You can now replace your ST's operating system without resorting to open heart surgery on your ST's internal hardware. Two replacement operating systems, Geneva and MagiC, have been released and are purely softwarebased, loading into memory like any other program. They enable you to run your existing software faster and at the same time.

THE HEAD TO HEAD TESTS

Tasks & & E File Options GENEVA

System requirements

Will your new operating system work on your setup? For example, MagiC and Geneva both require a double-sided floppy drive system as a minimum, so check out what's needed to make sure you're not going to be disappointed.



■ MagiC theoretically runs on any ST, STE or TT but needs a 2MByte system to multitask. It runs in all resolutions, and a hard drive is recommended. MagiC takes up 300K of RAM Geneva File Options

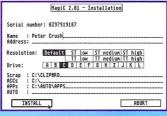
when resident.

■ Geneva runs in all resolutions on any ST, STE or TT, and functions on the Falcon too (unlike MagiC). It works on 512K machines, but

at least 1MByte and a hard drive would be sensible. Geneva takes only 160K of RAM when resident.

Setting up

How easy is it to install your alternative operating system? Do you need to have much technical expertise or understanding of programming? Thankfully, no.



■ MagiC has its own installation program, which requires you to select the drive to which the files will be copied. It also sets up a folder from which any

Install Quit

programs you wish to auto-load will run and multitask.

■ Geneva's installation program is also easy to use, taking you step by step with appropriate prompts. You may have to re-order your Auto folder afterwards, but

Compatibility

Any problems? Older ST programs were written before multitasking was out, and may only run in single mode, but most newer software works without problems.

■ Using MagiC we found that 1st Word Plus, Calamus 1.09, Protext and other notable programs weren't



'multitasking friendly'. The solutions can be either patch programs or dropping into single-tasking



■ Geneva is generally stable and handles just about anything thrown at it. A 'problem' program is Papyrus, but three cheers for HiSoft, who've just released a Geneva-compatible upgrade of our favourite DTP prog.



Geneva

Multitasking Application Environment

by Dan Hilga

right & 1993 Gribnif Soft

Release 883 Dec 31 1993

ALL SYSTEMS GO

MagiC Price: £59.95 From: System Solutions ₹ 01753 832212 Reviewed and rated: STF 60, 94%

A total operating system replacement written in 100 per cent machine code for optimum speed, MagiC completely over writes TOS for fast pre-emptive multitasking. It uses 'time slicing', which means it assigns the ST to the largest processing job while you can still operate other programs. MagiC runs on all standard ST. STE and TT models. but not on the Falcon, and you'll need 2MBytes of RAM to run it to its best advantage. Auto folder programs and other software load as normal once MagiC is installed. Any application can be interrupted to reveal the manager screen, which shows you the exact memory usage of every program currently running, and

memory can be freed up by 'deleting' programs. MagiC comes with its own desktop. although something like Ease or NeoDesk is recommended to extract the optimum power. Despite the fact that MagiC is incompatible with some ST programs it offers a great deal, especially with the recent arrival of Ease. MagiC, which originates from Germany, was released mid-1994. It's fully translated into English, and its UK distributors are Systems Solutions.



Geneva Price: £59 From: Compo Software **☎ 01487 773582** Reviewed and rated: STF 55, 93%

Geneva, which runs on any ST, STE, TT or Falcon, is a serious contender as far as multitasking operating systems go. Supplying a replacement version of the ST's **AES (Application Environment** Services), it controls windows. dialog boxes and menus, but doesn't replace the part of GEM that displays the Desktop icons you're used to. Geneva runs both **GEM** programs and those that are MultiTOS-compatible, and enables most TOS programs to be run, and you can have up to 256 GEM windows open at once. Geneva utilises 'co-operative multitasking rather than the 'pre-

■ MagiC, as used by David Copperfield to fly around Earls Court. Or something.

■ We may have opted out of the **European Social** Chapter, but we still appear to observe the Geneva

emptive' type used by MagiC. If you use an incompatible

Registered for: Convention Peter Crush #888881387 program, you

can simply exit Geneva and return to the ST's standard GEM Desktop, and the program can be loaded from there. To use Geneva effectively, at least 1MByte of RAM is required, a hard drive is useful, and alternative Desktops such as NeoDesk can be used to advantage. Released here in early-1994, Geneva originates from Gribnif Software, USA, and was written by Dan Wilga of NeoDesk fame. It comes complete with technical support from Compo.

Multiwhat?

If you're used to simply running one program at a time, the thought of 'multitasking' might be alien at first. To illustrate the potential power of multitasking, consider this scenario. While you write away with your word processing program, your desktop publishing program prints several documents,

and you simultaneously convert some image files into a new format using ImageCopy 3. And while all this is going on, your modem could be on-line, downloading stuff from your favourite bulletin board.

Each program runs concurrently, but you can switch between them at will. Of course, to do as much as in this example you'd

need loads of RAM - although each program is sharing the processor's time, they all need their usual amount of memory. If you use your ST for lots of different 'serious' applications, and you consider yourself a power user, then a multitasking operating system is just what you've been waiting for. But

The jury's back in

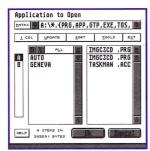
Take a look at the head to head tests to see how Geneva and MagiC compare on a feature by feature basis. Both of the contenders are impressive. MagiC is fast and slick, but until a Falcon version appears it's only usable on STs and TTs. Meanwhile, Geneva already runs on the whole Atari

Speed

Do you like life in the fast lane? After all, one of the reasons for buying a multitasking operating system is to be able to work faster.



■ MagiC impresses with its zippiness. It actually runs most ST software faster than standard TOS, even if it's multitasking. A CPX Desk Accessory, which is provided with it, gives you control over time-slicing.



■ Geneva doesn't claim to be such a speed merchant. and gives you no control over this, but you shouldn't notice much difference in the speed of your software, although it's actually running slightly slower.

Power

Just what can these new operating systems do? What kind of power and facilities do they add to

which one?

■ MagiC can run up to 16 programs simultaneously, memory permitting. However, this includes six Desk



Accessories (DAs), leaving 'only' ten other programs. If you like, you can have up to 64 windows open at once.



■ Geneva supports up to 256 windows and places no u can load as many as you wish and at any time

Desktops

For best results from the operating system you need a suitable desktop, so forget the ST's standard Desktop - it can't be used for multitasking.



■ MagiC comes with MagxDesk, which isn't bad when you considering the fact that it's free and is similar in features and power to TOS 2.06's Desktop. But your best bet is Ease, which is specially programmed to work perfectly with MagiC.



■ Geneva needs NeoDesk 3.04 to run to its full multitasking ability, althou it can be used without a deskton if memory or money is tight. Your best bet is to use NeoDesk 4, which really complements it beautifully.

NEODESK AND EASE

Although both MagiC and Geneva come with their own desktops, you'll get much more from them if you run them with the commercial desktops designed to complement them.

Ease (complements MagiC) Price: £49.95 From: System Solutions □ 01753 832212

range of computers and although it isn't as fast as MagiC it takes up less RAM, making it usable on the humblest setup

A new release of Geneva is expected soon, together with an update for NeoDesk 4, while System Solutions have just released Fase the deskton designed to run with MagiC (we'll have a full review next month).

Multitasking can open up new horizons for both you and your ST. Until you try it for yourself it's difficult to appreciate the sheer convenience and power of these operating systems. Read the indepth reviews of both products for more info, but make sure you check the compatibility of your existing programs with System Solutions and Compo before you plump for either. It could be the best sixty quid you'll ever spend on your ST setup. stf

Watch out for a full review of Ease next month.

NeoDesk 4

(complements Geneva) Price: £59 (upgrade from v3 £25) From: Compo Software ₽ 01487 773582 Reviewed and rated: STF 64, 90%

■ You don't need two pairs of hands any more - MultiTOS can do many ST jobs simultaneously.

MULTITOS

MultiTOS is Atari's own software-based replacement operating system for their Motorola 68030-based machines (which means the Falcon and the TT). MultiTOS differs from other multitasking software because it actually runs all tasks at once using high speed switching between them (others normally let you work on the top application while the bottom one

freezes). MultiTOS' 'adaptive prioritisation' makes multitask operations more efficient, and it's also been written to take advantage of a feature of the 68030

processor called 'memory protection', which enables several programs to run concurrently without interfering with each other, so that if one crashes the rest of the system continues without problems. Machines with older processors (68000, 68010 and 68020) don't have built-in memory protection, so running MultiTOS on an STFM or STE is a slight gamble with some software.

MultiTOS

Price: £49.95 From: HiSoft □ 01525 718181 Reviewed and rated: STF 49, 75%

FEATURES COMPARISON TABLE

ORTICLE A

Operating system	MagiC		Geneva	
System requirements	2MByte ST/STE/TT	***	1MByte ST/STE/TT/Falcon	****
Setting up	Easy enough	****	Pretty easy	****
Documentation	Satisfactory	***	Good	****
Compatibility	Good	****	Good	****
Speed	Very fast	****	Fast enough	***
Power	Powerful	****	Very powerful	****
Desktop	MagxDesk included	****	Can work without	***
Extra Features	Enough	***	More	****
File Selectors	Uninspiring	**	Exciting	****
Ease of use	Very	****	Extremely	****

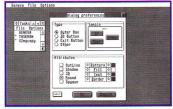
THE HEAD TO HEAD TESTS (CONTINUED)

Extra features

It's not just raw power that counts; all those other little refinements make a difference too.



■ MagiC can access this Manager Screen at any time by pressing the [Alternate] [Control] [Esc] key combination, so if a program has locked up or there's a dialog on screen you're still in control.



■ Geneva has many bells and whistles, like this jingly, Window-appearance adjustment thingy. You can enjoy many a long hour playing around with them.

File selectors,

File selecting is an important matter when you're into serious ST use, and each operating system comes with its own new version. What are they like?



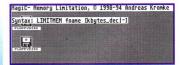
■ MagiC's file selector is basic. It does the job, but it's no improvement over Atari's TOS 1.4 item selector. You can't replace it with UIS 3, but luckily Ease comes with a much better selector.



good as *UIS 3*, if not better in many way For example, it enables multiple selections that a number of files/programs can be loade

Fase of use

Friendliness, a quality sadly lacking into today's harsh new world. And as if to restore your faith in human goodness, along come MagiC and Geneva. Ain't that great?



■ MagiC provides a familiar work environment, but with the added bonus of multitasking. Some extra non-GEM utility programs supplied with MagiC aren't quite as user-friendly though.



■ Geneva has the advantage of inbuilt on-line hypertext help, which can be displayed on screen when required. It's even easier to use with NeoDesk 4. SILICA ARE NOW IN 18 BRANCHES OF DEBENHAMS SEE BOTTOM PANEL FOR DETAILS

OWNER OFFERS

Great offers on a selected range of software, peripherals and accessories. Plus, if you are thinking of upgrading to a Falcon, these are the lowest prices ever seen from Silica!

14" HIGH RES MONO MONITOR FOR THE ATARI ST & FALCON



- 14" HI-RESOLUTION MONO MONITOR WORKS IN ST HI-RES MODE (640X400) WITH ATARI ST AND FALCON RANGES
- AIAMI 51 AND FALCON HANGES
 STEREO SOUND AVAILABLE THROUGH
 OPTIONAL SCREENBEAT SPEAKERS
 (REF: SPK 7260 SILICA PRICE: £14,99)
 VLIMF LOW RADIATION SMALL FOOTPRINT
 SUPPLIED WITH TILT & SWIVEL BASE
- SUPPLIED WITH TILL & SWIVEL BAS EASY ACCESS TO CONTROLS INCLUDES CABLE FOR ATARI ST-E-FALCON REQUIRES AN EXTRA ADAF REF: CAB 5772 £9

OFTWARE LAA0900 DRUM UNIT - ATARI SL804 LASER

SPA1074 DMA IC - ST-FM/MEGA ST Controller chip for high speed hard drive port.

SAVE £20! Previously £149.95



ment drum unit. Lasts approx. 8/9000 con

SPA5432 TOS 2.06 ROM INT. UPGRADE - ST Operating System Upgrade for any ST-e. Improves deskto

SPA5448 T-BOARD 68 INC. TOS 2.06 - ST-E

SSA0652 4T/FX-MULTITRACK RECORDING S/M Falcon realtime mixer. Sequencer controllable, 4-track to hard

SSC0332 **CUBASE LITE**Beginners' MIDI software. Realtime functions through graphic into

SSF2672 FASTCOM 2 - when purchased with any other product Communications package. Integrated ASCII/Viewdata functions

SSL2642 LDW POWER SPREADSHEET V1
Lotus 1-2-3 v2 compatible. GEM/Lotus interchangable interfa

Expansion board for Falcon 030. Max. addressable 14Mb

SSH9752 HYPERCHART
Presentation graphics system. Takes info direct from existing data

SST1222 **TECHNOBOX DRAFTER 2**High precision drawing package. Colour at 640 x 400 pixel resolution

rrent ST BASIC programming language. Inc. all commands RAM8100 4mb/14mb RAM BOARD (PORULATED) - FALCON

al TOS 2.06 upgrade. Inc socket for acce

SSC0412 C-LAB COMPLETE PACKAGE
Music presentation pack with Notator 3.1. Unitor 2

A SMPTE/EBU synchronizer, Reads & writes time codes in SSE4632 EMAGIC NOTATOR SL

SSC0242 C-LAB NOTATOR/UNITOR

MIDI sequencer, score edit & print out manage

STM7400 ST BASIC SOURCE BOOK

" GREYSCALE MONITOR FOR THE ATARI ST & FALCON



- 12" GREYSCALE MONITOR
- STEREO SPEAKERS BUILT-IN VOLUME, BRIGHTNESS, CONTRAST CONTROLS
 TILT & SWIVEL BASE AVAILABLE
- SAVE £20! P69

OFFERS!

£19.95

£34.95

£49.95

£199.00

£69.00

£2.50

£9.95

£9.95

£29.95

£2.50

£39.95

£14.95

£163.69 £139.00

£33.24

E39.00

P90.99

£299.00

£99.00

£4.95

£24.00

F24.95

£49.95

E9.00

£49.95

£19.95

£549:00 £349.00

E839:00 £499.00

£299:00 £199.00

FROM £39 IDEAL FOR

GRAPHICS

UP TO

OFF RRP

CPU: Motorola 68030 operating at 16MH

 BUS: 32-bit data; 32-bit address
 FPU: Optional Motorola 68881/2 - 16мн; RAM: 1, 4, 14Mb configurations
 ROM: 512K

Digital Signal Processor:

Motorola 56001 DSP running at 32MHz
 16MIPS performance at 32MHz
 32K 16-bit Static RAM

Interfaces, Ports & Expansion Slots: Internal direct processor slot
 SCSI-2 Port with Direct Memory Access

High-speed LocalTalk/AppleTalk compatible LAN port

Connector for VGA, composite video, RF (cable supplied), or broadcast analogue RGB (monitor output



. Stereo mic. input/Stereo audio out - 35mm INCREDIBLE POWER At the centre of the Falcon 030 lie two powerful hearts: the super fast 68030 processor which runs 4 million instructions per second and the Motorola DSP 5601 processor.

Two 9-pin joystick connectors
 Two 15-pin enhanced digital/analog

Data Storage:

1.44ws Floppy Disk Drive
Internal IDE Hard Drive Option
(127 or 209ws HD versions available)

MS-DOS format compatibility Graphics:

VGA: 640 x 480 256 colou

True colour 16-bit mode: display up to 65,536 colours from a 262,144 palette Accepts ext. video sync signal for genlocking - up to 65,536 possible colours from a palette of 262,144
 Hardware-assisted horizontal fine scrolling BLiTTER graphics processo

Sound Eight 16-bit digital audio DMA record and playback channels (up to 50kHz sampling)
 Stereo 16-bit DMA input & output

SDMA sound/DMA co-processo

System Software:

and dro

 Icon-based graphics user interface with self-explanatory command functions
 Multi-tasking operating system with inter-process communication (MultiTOS)
 Online below. On-line help

NewDesk desktop and extensible-control panel allows customisation

be plugged a microphone, a Walkman, or a hi-fl system. To reproduce the sound, a convertor mixes the eight 10-bit channels, sound at a sampling frequency of up to 50khz, better than CD quality. The Digital Signal Processor with directlo-disk capability, means that the Falcon can store sound viole, on hard disk and play them hack in real time.

the Motorola DSP 5601 processor. Working together, they give processing speeds up to 10 times quicker than any other multimedia system at a comparable price. The Falcon 030 also boasts an impressive array of interfaces for linking peripherals.

Iniking peripherais.

THE IMPACT OF COLOUR

The Falcon 030 produces images indistinguishable from a real picture displayed on your TV. Every pixel on screen can be shown in a different colour and 65,536 colours can be displayed at once, from a palette of 252,144, producing a through colour displayed at once, from a palette of 252,144, producing a through the highest quality.

SUPERB VIDEO The Falcon can be used to create special effects, overlay pictures, lighten any that are too dark, even get rid of the unfocussed bits. Video editing and special effect, techniques are both easy and affordable.

CD QUALITY AUDIO
The Falcon 030 comes complete
with a stereo input into which can

back in real time.

FULL RANGE OF INTERFACES SCSI-2, LAN & MIDI Interfaces

2 PROCESSORS

Motorola 68030, 16MHz, 32-bit Processor + Unique 32MHz DSP (Digital Signal Processor)

CD QUALITY STEREO SOUND

8 x 16-bit Digital Audio DMA Channels Stereo 16-bit DMA Audio Input/Output

BRILLIANT GRAPHICS LIKE REAL PICTURES ON TV

1 94 4

IDEAL FOR

71 1111 111

Applicate / Planting

1ss RAM Oss HD 4ss RAM Oss HD Aus RAM 127us HD Aus RAM 200ss HD 14mb RAM One HD 14mb RAM 200mb HD 2599 £799 £1099 £1699 W E1199 899 £999

MONITOR CABLE ADAPTORS: • VGA 556 • ATARI 556 • COMPOSITE 556 • £956 EACH



CALCULATORS

- Large 8 character LCD display • Up to 32 steps can be retraced and recontrolled
- Durable folding case

@ POCKET SIZE 4.95 INC VAT - XXX 1920

@ CREDIT CARD SIZE £3.95 INC VAT - XXX 18

THURROCK





£19.99



LOGITECH PILOT MOUSE

- Quality 2 button mouse Fully ST + Falcon compatible Free Pipemania game
- Free Accessories Disk
- Previously E14-99





DEBENH

AMS

• ESTABLISHED 17 YEARS:

PART OF A £50M A YEAR COMPANY: With over 300 staff - We are solid and reliable

EXPERIENCED STAFF:
 All fully trained in 'Customi

Am runy trained in "Gustomer Care".

TECHNICAL SUPPORT HELPLINE:
FREE help and advice from a team of expe

A FULL PRODUCT RANGE:
All of your computer requirements from
one supplier.

. WE PRICE MATCH ct - Same price" basis.

• FREE CATALOGUES PAYMENT: ajor credit cards, cash

VOLUME DISCOUNTS AVAILABLE: Business, Education and Government Tel: 0181-308 0888.

 MAIL ORDER:
 FREE DELIVERY in UK mainland on orders over £40+VAT. Small administration charge (£2.50+VAT) on orders under £40+VAT. 21 STORES NATIONWIDE.
 "Mini Stores carry a selected range only but can be ordered in the stores via Mail Order.

MAIL ORDER 0181-309 1111

PLUS BRANCHES AT: BRISTOL ton 0117-929 1021 Debenhams - Iss Roon, St. David's Way 01222 341576
Debenhams - Iss Roon, 27 High Street 01245 355511
Debenhams - Iss Roon, 27 High Street 01245 355511
Debenhams - Iss Roon, 97 Argyle Street 0141-221 0088 CARDIF CHELMSFORD CROYDON GLASGOW GUILDFORD HARROW HULL IPSWICH LONDON LUTON
 Debenhams - (1st Roor), Arndale Centre
 01582 21201

 Debenhams - (1st Roor), Market Street
 0161-832 8666

 Debenhams - (1ste Roor), Royal Parade
 01752 266666
 MANCHESTER Dehan PLYMOUTH ROMFORD Debenhams - (3rd Floor), Market Place Debenhams - (3rd Floor), The Moor 01708 766066 SHEEFIELD 0114-276 8611 SHEFFIELD Debenhams - (L. Ground), Meadowhall Ctre 0114-256 9779 SIDCHE SOUTHAMPTON Det SOUTHEND Keddies - (2nd Roor), High Street

COMPUTER SHOPPER 1994 Awards WINNER Best Software

To: Silica, STFOR-0395-226, Silica House, Hatherley Rd, Sidcup, Kent, DA14 4DX PLEASE SEND INFORMATION ON THE ATARI FALCON Postcode: Tel (Home): Tel (Work): ... Which computer(s), if any, do you own?

REVIEW

"Its morphing, manipulation and animation routines are powerful enough to put a **Silicon Graphics** Indy workstation to shame." What are we talking about? APEX media, the stunning new **Falcon-only** graphics and animation package.





ow, it's not often that Clive gets excited about a new piece of software, but that's what he said about APEX media in last month's ProTOS show report.

Although the Falcon is capable of graphical miracles in comparison to the ST, so far it's lacked the software to exploit its abilities. Until now.

APEX is an animation package in that it enables you to string together a sequence of images in fast succession to create the illusion of movement, but there's much more to it than that. It's also an art package (it can draw or alter frames), it's a morphing package (for those extra visual effects and movements that can't be easily drawn), and it's a digitizer (it can transfer video sequences to disk). All of these utilities are included in

the one application, accessible at the click of an on-screen button.

Load it up

The first thing you notice about APEX is that it doesn't use TOS, let alone GEM. Rather than being a problem, this enables it to increase the Falcon's performance no end, because it doesn't have to bother with restrictive and unnecessary processes. As a result APEX is the only package on the Falcon that can handle true-colour, 24bit images (most other packages can only work with 15-bit images maximum). And it can work with these images at much greater speeds, displaying and calculating with an almost embarrassing rapidity. Even at resolutions like 768x512, true-colour images flick past with the ease of a

deity. APEX is also perfectly happy using images with less colours, dealing with everything down to monochrome.

In fact, the APEX system has a grace all of its own – it's easier to use, prettier and more flexible than anything that uses the standard TOS/CEM combinations. But that's just the beginning of its abilities...

How it works

Whereas other art packages restrict the size of the picture you're editing to the physical size of your screen, and the resolution to that of the current screen mode, APEX works with a virtual screen of larger dimensions than the screen image. This

means you can edit images of a much greater size, scrolling around them instead of viewing them in their entirety at once. APEX media is split up into eight sections: drawing tools, cell

manipulation tools, a colour workstation, a video system, non-linear drawing tools, image filters, distortion systems and a text system. Though these are in separate tool palettes, they are designed to be used together – the simple

access system enables you to mix and match effects and techniques easily, without having to continually switch and re-hoot software.

The drawing tools offer the standard art package functions: lines, fills, polygons, sprays, that sort of thing, which make it easily as powerful as

"The simple access

match effects and

techniques easily"

system enables

you to mix and

your average art package like Deluxe Paint. It also contains non-linear drawing tools, which deal with things like hue, contrast and brightness, as well as colour masks and area

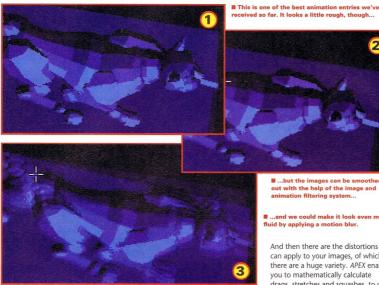
operations. Yes, APEX certainly caters for people who want to 'roll their own', comparing favourably with other dedicated art packages.

Given that APEX makes the most of the true-colour system, a colour workstation section is only to be expected. You can edit, mix, graduate and sort colours, either as RGB (red, green and blue), CMYK (cyan, magenta and yellow), or HSB (hue, saturation and brightness) shades. This lends weight to the package, enabling you to work with absolutely any colour quickly and accurately.





media



But there's more to hand-drawn animation than simply sketching your frames. The cell manipulation system enables you to use cartoon animation techniques on your hand drawings. Using this you can treat frames or chunks of frames as cells - rotating, flipping, layering and sliding with an ease that Walt Disney would happily thaw for.

Making movies

Of course, you may not want to draw your own animations, which is where the digitising section comes into play. Though APEX might not be quite as

advanced as dedicated digitisers, it has all the features you might need. It can grab animations or stills, from just about any variation of video protocol (widescreen, MHz changes, Super-VHS, and others), with a variety of shutters, enabling you to do things like take extended shutter pictures.

The film and image filters give you a powerful range of tools to use on your digitised images - you can remove motion blur, jagged edges, bad light and anything else that might otherwise turn your crisp, wobbling mess.

sharp animation into an out-of-focus, > 006

...but the images can be smoothed out with the help of the image and animation filtering system...

...and we could make it look even more fluid by applying a motion blur.

And then there are the distortions you can apply to your images, of which there are a huge variety. APEX enables you to mathematically calculate drags, stretches and squashes, to give some effective and natural distortions. And if you're into heavily overused effects, you can use APEX's distortion system to morph images into other images, and create some deeply disturbing animations.

String 'em together

These eight sections for creating your images, taken individually or as a whole, are impressive. Even taking into account the Falcon's own resolution and colour capabilities, APEX far exceeds any other package of its type. Amalgamate those eight sections into one package and the results are stunning: every tool you're ever likely to need is included and runs with smooth efficiency. The package as a whole stretches the Falcon in

■ The colour workstation, helping you to blend those subtle tones with ease.

ways that no one's explored before.

But designing and editing frames is only one part of APEX. It also features a perfectly proficient animation system for stringing your final frames together. Animation control panels are much of a muchness, there being little to distinguish between them other than the general grace with which the whole package is presented. With APEX you can sequence stills, fiddle with speeds, change directions (forward, reverse, bouncing) and save out your final files in all standard animation formats (those that aren't catered for within APEX are handled using diddy utilities, which are also provided).

And finally...

The documentation that comes with APEX is excellent, the healthily thick manual a reassuring weight for times of confusion. And should you ever actually come to read its contents (no, some people actually do), you'll find out what you need to know quickly and concisely from its clear text and diagrams.

As the emphasis of APEX is on who people who want to produce animations, rather than Falcon veterans, a large chunk of the manual is given over to tutorials, which take you through all the basics of the package and progress to more advanced techniques in an eminently clear, understandable yet intelligent style.

APEX media is an excellent animation and art package. It's beauti fully presented, expertly written, fast, effective, and capable. Buy this for your Falcon. Alternatively, buy a Falcon for this. stf

SIMON FORRESTER

Yup, it's Falcon-only all

Nothing's more annoying than spending money on a powerful machine only to find that there's no software available that takes advantage of it. Although you can find demos that show off the Falcon's ability, most of the useful utilities are still held back because they're STEcompatible and therefore restricted

to the STE's capabilities. It's only recently that we've started to see Fal con-specific software with the guts to take the Falcon in directions the ST can't follow.

There comes a stage where the Falcon has to burn off the ST if its software is to fully exploit what is a powerful machine. APEX isn't an art package or some clever image manipulation system to tinker with - it's a professional animation package, capable of professional results, the sort of thing you'd find on a Mac or a PC. This is the first real piece of Falcon software that offers serious format support, and we'll be seeing more like it in the future

APEX media

£119.95 Titan Designs □ 0121 693 6669 Falcon-only

■ Professional results

■ Easy to use yet powerful user interface ■ Strong documentation

Lows

■ Sorry, pardon? Comment

It would have scored even higher, but I feel sure Black Scorpions will top even this

Touch-Up

"You simply set it

running and leave

achieve effective

it to it. You can

results on your

first attempt"

Scans are messy things. They tend to come out covered in black speckles and dodgy shades. You need the latest version of *Touch-Up*, a package that enables you to do just that.

2.5

canning an image is more complicated than you might expect—if you've tried it, you'll know. If you want to achieve clean, tidy scans without getting embroiled in complicated variables like frequencies, timing and paper, you need Touch-Up, which enables even the artistically illiterate to turn the roughest scan into a masterpiece of monochrome, erm, artwork.

Touch-Up is simply an art package dedicated for use with scans. Its tools, filters, palettes and processes are designed for tidying, highlighting, and generally manipulating scanned images (although effectively you could use any other monochrome image). It can also replace your traditional scanning software if you have a standard scanner, such as those made by Migraph, AlfaData, Golden Image. Interestingly, according to the manual, "If you have a Marstek scanner or your scanner interface has the words 'This side up' printed on the top of the green circuit board" then you can also use the Touch-Up software, just on a different setting...

What does it do?

The most recent update of *Touch-Up* was version 1.8, which scored 85% back in issue 40. Its score reflected the fact that it was loaded with powerful features for re-filling bad patterns, tidying up large expanses of

grubby dots, and ironing out those hand-scanned wobbles. It featured a set of standard art tools as well as filters for emboldening, thinning and tweening. Featuring a GEM interface, Touch-Up 1.8 made all these features

appear familiar and easy to use, and version 2.5 follows in its path.

As you'd expect, this new version of *Touch-Up* features several enhancements. It now makes better and faster use of the memory inside your machine. If

you have 4MBytes of RAM, then the program can now make full use of it, and it also features a caching system which enables you to do larger scans even on smaller machines.

And what else?

To make sure you get optimal results when you're actually at the scanning stage, before you begin any image processing, *Touch-Up's* scanning system has been improved. Version 2.5 gives you more control over DPI (scan resolution), scan lengths (physical and digital size), different interfaces (for use with more scanners) and measurement (whether you're working in inches or millimetres).

The next big addition to the package is keening (great word), a process that removes those grainy few pixels that have clumped together for no reason. It works by tracking down small, insignificant lumps of pixels

and removing them completely. This obviously isn't suitable for some shaded images, but it comes into its own when clearing up line images. The feature is also fully definable – you can choose

exactly how harsh the keen is, whether it's effective on black or white and whether it works from the edges inwards.

Touch-Up can also now save TIFFs without trouble, rotate pages without those occasional crashes, and flip pages without creating too much extra white space – all of which are bugs that were inherent in the older version of the program and really had no excuse for existing in the first place. And there have been several other enhancements to make the package easier to use: keyboard short cuts, progress bars, Falcon-compatibility, increased areas for Slant and Lasso tools, and easier clip box sizing.

And something that's really great about this package (like OCR, MiGraph's other release this month) is that you simply set it running and leave it to it. You can achieve surprisingly effective results on your first attempt, especially using such obviously-named menu options as 'Clean Up'. And although you can use it while knowing virtually nothing about it, there are also lots of more fiddly elements, which you'll get to know the more you use it.

This is an excellent tool if you're interested in manipulating and tidying scanned images. The price tag may be a little high, but if you have a definite need to tidy up those scans, Touch-Up is the best program you could use. stf

SIMON FORRESTER



£35 Golden Image = 0181 900 9291

□ 0181 900 9291

Highs
□ Does its iob

- Easy-to-use interface
- Doesn't terrify you with jargon
- Lows
 Black and white
 only
 - High price

80%

DON'T FORGET, LIFT WITH YOUR LEGS











®

♦ E



Ever wanted to convert printed copy into ASCII text? Optical character recognition software, your ST and a scanner could do it all for you. Sort of.

"Forget those

dreams about

creating electronic

versions of your

favourite books"

ptical Character Recognition. In plain English that's the process by which a computer reads printed text. It does this by working out the shape of each character and calculating exactly what that character is. To put it another way, you could scan a page of text and have your ST convert it into an ASCII file for you. After all, WPs are just programs that turn ASCII files into hard copy, and this is a program to reverse the process.

Although they're using something slightly more powerful than an

Atari ST, The Post Office does exactly the same thing each letter is scanned, and the address is worked out using an OCR system, enabling mail to be sorted electronically. It saves all the hassle of a little munchkin

having to read the address and shove the envelope in the right pigeon hole.

This only works with standard characters, which means that you won't be able to scan hand-written text, but an OCR system is now available for your ST, courtesy of MiGraph and Golden Image (the UK distributor). There are a few things you'll need to use this package effectively: A scanner: be it a flatbed or hand scanner, you'll need something to create the original image files with which you'll be working.

At least 2MBytes of memory: you'll have problems using those larger image files if you don't.

A hard drive: to store those bulky image files. This isn't essential, but it'll make your life much easier. And of course, you'll need your optical character recognition software...

See Janet's ball

The package itself is well-presented, installing like a dream and with no problems whatsoever. All the dialog boxes, options and features are beautifully laid out, dialog boxes appearing and disappearing without clashing or crashing. In high resolution (which is what you really should be running it in), it demonstrates exactly how software should be presented - putting ease of use and clarity before sexy graphics.

Another of OCR's strengths is its flexibility and the extent to which you can control it.

You can slow it down, taking a little longer over each exact representation. or get it to skip through the text, substituting unrecognised characters

with wildcard symbols, which you can find and correct at a later date.

See Spot run

The OCR system also has the ability to teach itself. When running in Interactive Learning mode, instead of taking either a wildly inaccurate guess or leaving a question mark in the place

of characters that it doesn't recog-

nise, it asks for your help.

The system doesn't have to learn everything from scratch, though. It comes ready to run with 20 standard fonts, which is a wide enough range to cover anything you're likely to see printed anywhere. And you can, of course, train it to handle many more.

And it really is that easy in practice. Just scan your page and set the process running, occasionally helping the package out when it gets stuck on a word or a symbol. If you have anything other than straight text on your page then you can take the process further and mark out exactly where the text sits on more compli-

electronic versions of your favourite

cated pages.

See Jack's six-gun Any piece of software that learns to read is going to run slowly. You can forget those dreams about creating

Generally, the only time you'll use the Scan Settings dialog box is when you need to change the scan length or dpi. However, it will appear on its own when you change the scanner dpi to a value that will no longer allow you to use the current scan length. In this case, when it appears, it will reflect the current dpi setting, and the length value will be automatically set to the maximum length allowable for that dpi.

■ The obvious test is to give OCR some chunks of its own manual, which it handles with ease, despite the tightly packed serif font it's been printed in.

OCR: TEST_400.IMG

Das Programm erkannt, was unten umarenzt

OCR: ASCII

erk?nnt, was durch mindestens ei?e leere (weiße) Linie oben und ?nt?n umgrenzt wir? und mindestens 5 Pixel hoch ist (Ich neh?e an, daß nie?and auf die Idee kom?t, solch kleine Buchstaben (<5 Pixel Höhe) erkennen zu wo?len). Auf diese Weise kann das Programm unter Umständen

> ■ The package comes with a few files to get started on. Neither you or the ST has to understand German, either.

books, because each page takes around five minutes to process, and if you try to speed the process up you lose quality in your final result. You'll also have to consider the logistics of scanning, storing and manipulating lots of large image files. The lesson to be learnt? Don't OCR any books.

It goes without saying that OCR is a package with a limited field of use. There aren't many people with a genuine need for an optical character recognition system. But if there's an OCR-shaped gap in your software collection, you'll be pleased with what it has to offer - it's certainly competent enough to perform its tasks with little error. A niche thing, perhaps. stf

SIMON FORRESTER

OCR

£49.95 Golden Image ☎ 0181 900 9291 Scanner and 2MBytes of RAM needed

Hard drive recommended Highs

- Does its job well ■ Comes self-taught with
- 20 fonts ■ Copes with slanted text
- Lows
- Memory-intensive



Budget range PD Disks ONLY \$1.00 Same day service, quality virus free disks. PLEASE ADD 50p P&P ON ORDERS UNDER \$5.00 Overseas customers (outside Europe) please add 50p per disl



P.O. Box No. 2. Heanor Derbyshire, DE75 7YP

Telephone or Fax: 0773 761944

or 0773 605010

24 hour despatch on all orders No waiting around for disks to arrive!!

ALL DISKS BELOW ARE ONLY £1.50 UNLESS OTHERWISE STATED

GAMES

ARCADE

G.366 DAVE MUNSIE GAMES: 9 games from the master progra

G.355 WING LORD: Aerial duelling game in the style of the classic "Joust" S/W

G.352 JEWEL BUGGY: Arcade diamond mining game.

G.380 STARBALL: Pinball game arguably the best PD game on the STI G 381 MAX (1Mh): Help Max find his girlfriend. A 'cute' groade platform game

G.333 SUPER PSYCHO KART: High speed platform game to rescue piglets (1Mb S/W)

G.316 H-MEC 2: The Ultimate Pac Man? (1Mb STE or Falcon)

G 28A ROCKEALL, SPECIAL EDITION: Tunnelling /diamond collecting puzzle game

G.281 PSYCHO PIG: Platform shoot 'em-up with Rambo esque pig. (2 disks £3.00) S/W G.279 OPERATION GARFIELD: Frantic Operation Wolf type shoot em-up action (STE)

G 268 MEGALINE: 1Mb Tron light cycles game for 1-4 players (STE only)

G.250 CYBERNETICS: Good, challenging Defender type arcade game.

G.80 TETRIS & PILE UP: Two very good versions of the Tetris arcade game G.171 HACMAN II: 1 Megabyte version of Pacman, 100 new levels

G.221 GRAV 2: Follow up to highly praised Oids type rotate and thrust arcade game G.110 LLAMATRON: 100 levels of fast arcade action with wicked sound FX. [S/W]

G.150 COLUMNS: An impressive relative of the Tetris tumbling block game (1Mb)

G.201 BLATI Tetris style three in a row, falling blocks with many added feature

FANTASY/ROLE PLAY

G.351 TOWERS: First person view role playing fantasy adventure game (2 disks £3) G.308 WALLS OF ILLUSION: The ultimate Dungeonmaster clone with English instruc

G 370 MINDMFIT : Fantasy adventure with an overhead view

G.343 BLUDGEON: Salo Fantasy adventure using the Bludgeon combat system (S/W)

G.288 DARKLYTE: Space Crusade type draids wargame

G.262 ALIENSI: Space Marines v Aliens Strategy combat game.

G.115 MYSTIC WELL: Complete "Dungeonmaster" style adventure game

PUZZLE

G.387 SPACESWEEPER: A challenging "Minesweeper" game in three dimensions

G.315 SKULLS: Addictive up to date reworking of Landmines/Minefield (1Mb STE)

G.306 LOGIC PROBLEMS II: Three more logic problems from Ben Weston

G.311 JIGSAW: A computerised jigsow puzzle. (1Mb)

G.280 COLOUR CLASH: Adventure/maze game with puzzles by Animalsoft. S/W

G.269 QUIZMASTER: Multi-choice answer general knowledge quiz. (STE only)

ADVENTURES

G 356 ENDURANCE: A futuristic virtual reality as

G.321 INVESTIGATION (2 disks/£3.00): Graphic adventure in the style of Sierra On-Line

G.200 ANARCHY ACADEMY: 3D graphic adventure to blow up the school! G 140 A NIGHT ON THE TOWN: An adventure with the apportunity to meet the girl

of your dreams and.... well, the rest is up to y

G. 222 GRANDAD AND THE QUEST ...: 3D graphic adventure by lan Scott. Shareware 1MI G.303 GRANDAD AND THE SEARCH FOR THE SANDWICHES: Sequel to Quest for

the Vest (1Mb 2 disks/£3.00)

G.385 OKUBS REVENGE: A text adventure in a fantasy setting.

G.156 THE AWE CHASM: An adult adventure featuring Snatch and Crunch (over 18's only)

G.167 SUSAN: An adult adventure (over 18's only)

G.91 QUEST FOR THE HOLY GRAIL: Pythonesque madcap humou

G.202 UNNKULIAN UNDERWORLD: Highly rated large scale text fantasy adv

STRATEGY & OTHERS

G 390 INTERNATIONAL MANAGER: European Nations/World Cup Management game

G.391 ANCIENT GAME OF GO: Two computer versions of the Oriental game (Grugo, Amigo) G.344 CHESS MATE: A chess/draughts game analysis tool (S/W)

G.332 CAESAR: Strategy game set around the Mediterranean in 200BC (S/W)

G.330 GNU CHESS: French chess playing program for all levels

G.388 STRATAGEM: Two player strategy world war game. (2 disks/£3.00)

G.329 PEGASUS: A massive space strategy game. Seek out and colonise plane (1Mb 2 disks £3.00)

G.131 STAR TREK - THE GAME: Defeat the Klingon threat to the galaxy. (1Mb)

G.386 STAR TREK - KLINGON WARS: A starship Enterprise battle simulation. (1Mb)

G.287 THE COARSE ANGLER: Angling simulation game (1Mb)

G.237 CHAOS: Madcap game of battling wizards by Martin Brownlow (1Mb or 5Mb)

G.324 IMPERIAL CONQUEST: A complex ancient Mediterranean game of conquest (S/W)

G.325 SOCCER MANAGEMENT: Complex simulation of soccer management (S/W)

G.217 THE MAZE: 3 D adventure game loosely based on "The Crystal Maze"

G.173 PENGUINS: Move your penguins around the screen "Lemmng" fashio.

G.10 VEGAS: Roulette, poker, blackjock and slots.. without the Nevada sandl

LICENCEWARE GAMES

.104

CONDUISTIL Bettle bigger sequel to the best PO God game (E3.00)
WAR OVER THE REICH Take owe Perithis Bother Common in WMII ([3.00)
WORLD AT WAR: Economic/military strategy world war game (E3.00)
BIOHAZARD: FULL version of the sci. if "Dungenomaster" clone ([1M.53.00],
GRAND PRIX MANGER: "Grand Fire management sin. Employ drivers,
mechanics, etc. test cars, then race in a full grand prix season! (E2.50) 87

mechanics, etc. lets cars, men race in a ruit grand pix sedamit personal STICRN 94; ETS] Alleis meet Gaundle for superb blacing action. (APD Licencowne game of the year for 1994 [coder L.91 for STRM version] (IS.00) DARKLYTE II: [1 Mb]. Sequel to highly traded Space Cruade type game (E2.50) WCRD WIZARD: Word puzzle game with a gamble feature from Nice Bytes

110 66

163.00]
UNICES CAP #1: Four super puzzle games: Cultrageous Fortner,
Mostimates, Frame of Mind and Cryptogram. (23.00)
LOUISES (Mb 5112) Puzzle game of Gyuding the Zuffers to shake (53.00)
CULTERS (1Mb 5112) Puzzle game of guiding the Zuffers to shake (53.00)
HEALTIBEACK tighty oddictive shope ploring game. (33.00)
LOGE POSIBEAS is Benivitative to both more challenging puzzles (53.00)
THE CURSE OF AZBEL Fentory trading/ordenitive game (2 disk/s/s.00)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50)
NICE SYTES #1: Gradword, or word game & Regu. os the Special game (52.50) secret walls, etc [£3.00]

ENERGETIX: Puzzle game from Nice Bytes. Save the Nuclear Reactor [£2.50]

MURDER ON THE ORION EXPRESS: Murder solving game set on an L 52

ar cruiser (£3.00) DEAD OR ALIVE...?: Large complex and challenging text adventure STONE COLD SOBER: An adventure game with graphics (£4.00)

BUDGIE U.K. (only £1.50 each)

BU.119 FOOTBALL TACTICIAN 1: The original £19.95 version!
BU.111 INTERNATIONAL CRICKET II: Animated 3D game (1Mb)
BU.50 SPACE INVADERS: Classic arcade action by Robert Leong

8U.30 MACE INVALUES: Classic accordance action by score using 8U.90 MACE IT: Possibly him most addictive gene were devised 8U.80 HORSE RACING SIM: Quality sim from the sale ring to the track 8U.30 QUEST FOR GALAXIA: The "Gallaxians" return by your ST 8U.70 PACMAN ST: The definitive version by Robert leaning 8U.71 DARK WARS: Role playing adventure with a 3D view

MUSIC

YAMAHA PSS: Patch editor and facility to print tablature r

S.144 EKSEQ 1: A rack, 240ppqn sequencer with many features S.145 OPTRONIX MUZAK: Rip and play music from other progra

NOISETRACKER: Soundtracker .MOD player with eight starter for MAD MAX CHIP MUSIC: 35 pieces of sound chip music from Ma

7 MAD MAX CHIP MUSIC Spipeces of sound chip music from Mod Max.

A ACCOMPANIAST: 16 Voice Henry Cosh sequencer (full instructions on disk)

A ACCHINE IR: Impressive Swiss multi window, multi-task sequencer (1Mb)

PROGRAMMING

GFA BASIC V2: Full version of longuage with betrict & compiler!

(N.B. Bits did. is not FD: L.A. P.D. have permission to distribute it)

SPSTIE VMDRS: Not commod for game without using GFA V3-P. diskL/67.00]

BANN/CRID 2: Three dimensional object creator and viewer program

SOZOBON C. A compiler C compiler with documentation

NENLAWASE Male your own means with music. spite and circuiting message

P.24 P.33 ZX SPECTRUM EMULATOR: Emulate the old Speccy on your ST/STE (1Mb)

68000 PROGRAMMING COURSE: 10 "How to do it"

OBDIOU PROGRAMMING COURS: 10 How to do it obecoment may GFA EXPERT, Massive text float and help routines for GFA-based. 3.0 D/S C ADVENTURE TOOL KIT; Write professional quality adventures in C STOS ADVENTURE CREATOR: Create your own text adventures with east

UTILITIES

IJ 66 BEFORE DAWN: Animated screen saver that will use your own a

U. 62 MENU-HACKER: Replace a picture in almost any menu/demo/game/intro

U. 67 ST TOOLS: An exhaustive collection of Atari ST utiliti

11 20 FASTCOPY 3: Excellent disk copier for cover disks U. 53 TERADESK V1.36: Replocement desktop for the ST/STE (1Mb)

U. 48 PREMIER PACKERS: 13 of the best program packers, plus a de-packer. D/S

11 42 PICTURE HUNTER: Rips picture screens from other programs. U. 47 PROBE ST: Handy utility, grabs music/graphics, disk/memory editor. et

U. 52 VAULT & TURTLE: Fast hard disk back-up utilities

ART & GRAPHICS

AUTO-STEREOGRAM: (1Mb) Create your own 3D Magic Eye pictures (£3.00)

VISUAL ILLUSIONS: A collection of 24 magic eye 3D pic GEMVIEW: Load, view, convert just about any picture format (1Mb)

FRACTAL ENGINE 2.1: Multi-functional fractal image generate A 79

ARTIST FREEHAND: Excellent ort package, multiple screens (£3.00) CRACK ART: Demo version of the excellent German art program.

KOZMIC 4: Lastest version of the stunning psychedelic pattern creator POLYFILM by Martin Brownlow. Make films from multiple 3D polygon objects

ART OF DUNGEONS & DRAGONS: Superb collection of pics from A 62 Dragonlance D/S

A. 44 FANTASY SUDESHOW: Spectrum 512 pictures on fantasy theme (over 16's only) 126, L27, L28 TYPE WRITE CUP ART: 4 disk sets of quality clip art in IMG

format, £10,00 per set

MISCELLANEOUS

103 LEXICON (£3.00): Ideal program for word game fanatics. Solve crosswords

onograms etc.

M.155 ROUTE FINDER: Route finding program for England, Wales and Scotland

M.161 THE GARDENER: A special database for gardening enflusions

M.167 DIABERICS DATABASE: A useful program for anyone who is diabetic.

M.197 AR WARROR: Fight sim with World Worl of aircraft

ADDRESS BOOK: Neat and easy to use database for names and addresses (£2.50)

CIRCUIT: Easy to use electrical circuit diagram producing program (£2.50)

STITCH MATRIX: Pattern making program for knitting mochines.

NORTHERN & EQUATORIAL STAR ATLAS: Superb serious astronomy program S/W M.111

THE BIBLE: King James authorised version. 3 disks (£4.50) FORM-FINDER: Proven horse race analysis and predict

M. 81 NEWSDISK: Construct your own newsletter and magazine disks
M. 100 GERMAN TRANSLATORS: Three programs to translate German text to English

GENNAL (NANSCALVOS: Intelleg programs to transitive German text in c FILOFACT: Electronic filofax - diarry, calendar, alarms, addresses etc. GENEALOGY: 2 programs for the family historians to trace their foreber YOUR SECOND ATARI ST MANUAL: Text files about your ST M 26

WORD PUZZLE: Stuck with word games? Then this disk may help M. 30 EXTRA WORD UST: 70,000 extra words to use with disk M17

BUSINESS

W. 21 MARCEL: Super word processor with built in spell checker
M.106 ACCOUNT-ABILITY: Filly featured accounts program. 10 accounts. 2,00
M.148 INVOICE MASTER: Excellent invoicing system for small businesses

M. 13 OPUS 2000: A superb spreadsheet program (1Mb)

M. 83 M. 23 INVENTORY PRO: A stock control system

DOUBLE SENTRY: Impressive accounts package for the small company (no VAT) FAST BASE: A powerful and flexible database.

W. 3 FIRST WORD: Word processor that set the standard for others to follow.

EDUCATIONAL

EDUCATIONAL

2 SUPER SPEIL Teaching games for the 4 to 9 year old (E2.50)

L 37 SUPER FUN: More teaching games for the 4 to 9 year old (E2.50)

G 266 WITCHES, MCE & FARIY TALES: Games for younger users.

G 38 NOAH'S AKC Called the animoly, to be your old deliver for ordish tool with the control of the con

M. 16 KUJZ COMPILATION: Nat orapit, until, water, seein, cannib, cannib and stoy... all on one disk!
M. 31 SHEWRECK: Socie his stricken marrier by answering maths questions.
PRO-27 EAUX LEARNING MATHS: 2-by Philip Ronkin for 9-12 years
L. 01 KOROT MATHS: Moths futur for children ages 6+
L. 02 MOON LETIESS: Spelling game for ages 5+ (12-95)
L. 04 KOROT WORDS: Hangman in a modern format (FZ-95)
L. 05 ALB BLOCKED UP. Methematrol puzzles for the young (EZ-95)
L. 10 DROP DOWN WORDS: Spelling/memory game for youngsters (EZ-95)
L. 11 ZMATHS KINN. Mosh for children 4 by years; (EZ-95)
M. 20 G.C.S.E. STUDY ADS: Help with Algebra. Trippenmenty and Geometry
H. BLANTARINE Excellent areas to use, autonomy program.

M. 20 G.S.E. STUDY ALOS: High with Algabro, Trigonometry and Geometry
M. 1 RANNETABULE Scalled, easy to use, autonomy program
M. 153 WORDD WAR II: Home front study pock for Sec. school work () disks £4.50)
M. 41 GEGGRAPH TUTOR: SIROPE: Foot and figures on European countries S/W
M. 60 EARTH OF ARESDER!: Herealighe her forestly assessment of c) disks £4.50]
M.114 FRANCALS 3.4. Ereach language totar programs
M. 108 EARTH OF MISSENT Facility argument on Roman films. () disks £4.50]
M.123 CILA WORLD FACTBOOK: Tost and figures on countries. () disks £4.50)

COMMUNICATIONS

L. 82 BBS DIRECTORY: Money saving directory of UK BBS's (£3.00) C. 22 TEDDYTERM: A superb multi-function communications program
C. 7 VANTERM V.4: Excellent multi-function

C. 7 VANTERM V.4: Excellent multi-function comms program M. 138 MORSE CODE TUTOR: Practice and perfect your skills

BUDGET PRICE DISKS - ONLY £1.00 each! FIGHTING SAIL: Naval Battles B. 51 COLOSSAL CAVE: Original adv

 B. 39
 ASTEROIDS: A loving restoration
 B. 15 ROLL N NUDGE: Fruit Machine

 B. 20
 HACMAN: Pacman action
 B. 36 8 BALL POOL: bar game simula

 B. 27
 FROGGY: The arcade classic
 B. 50 STAR TREK: Save the Federation

FREE CATALOGUE

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.

Alternatively send us \$1.00 and we'll send you the same catalogue and free programs on one of our disks. (Please quote STF4)

PRINTED CATALOGUE

Now available, listing hundreds of PD/Shareware/ Licenceware titles. Only £1.00 including P&P or

> 50p if ordered with disks. Please state if you have a Falcon

DESIGNERS/ENGINEERS

Are you sure your new design will work?

Save money and avoid embarrassment... Build a Finite Element computer model with new

FEIII DESTONER

To check it won't break, burst or bend out of shape!

- · Simple menu-driven interface
- · Preprocessor for easy model building.
- · Elastic, plastic and thermal analyses of the model.
- Beam, plate, shell, 2D plane and 3D solid elements.
- · Postprocessor for graphical display of results.
- · Built-in text editor
- · Output to picture file, text file or printer.
- · Suitable for beginners and experts alike.



Atari ST version introductory offer - only £95 (demo disk £1.50)

exclusively from:



JG Design Services PO Box 14856, Falkirk SCOTLAND FK1 5EP Tel: 0324 638815

MERLI

P O Box 77, Stroud, Glos GL6 9YD Tel: 01453 882793

Rated at 98% in ST Revi 94% in ST format. Price £24.95

Public Domain, Shareware and Licenceware All Disks are £1.25 unless otherwise stated.

RE003 Conquest 2. This excellent licenceware followup to Conquest finds you and your tribe stranded on an island. Survive and grow. £3.00

MPD2248 . . . Voices! A new disk magazine. Issue 1 features articles from customising a Colt .45 to UFO sightings. Issue 2 will be printed and will be available from Merlin.

MPD2286 Rumbo. A new arcade game which seems to play like Mario but much much easier.

MPD2250 . . . Boom! A brilliant action adventure game with true colour and DSP routines which make this Doom meets R-Type game excellent. Falcon only (3 disks) £3.75.

tantas Tic prices

Games

3D POOL 3D POOL ANOTHER WORLD (1MB) BATTLEHAWKS 1942 BULLYS SPORTING DARTS (1MB) CADAVER & THE PAYOFF CALIFORNIA GAMES II CANNON FODDER CHAMPIONSHIP MGR END SEASON COLONEL'S BEQUEST (1MB) CRIME CITY CROSSBOW - THE LEGEND OF TELL

8-75

12.95

8.75

24-95

14-95

24.05

11-40

11-40

1495 1495

11-40

21.95

8-75

11-40

11-40

6.96

12.95

30-30

14.95

1495 1495

8-75 X-OUT

6.06 XENON II

12-95

12.95

12-95

12-95

8-75

1140

8-75

12-30

12-95

696

WINTER GOLD

Z-OUT ZAK MCKRACKEN

ADI ENGLISH (12-13 or 13-14)

ADI FRENCH (11-12 or 12-13)

ANSWER BACK JUNIOR QUIZ (6-11)

ADI ENGLISH (13-14)

ADJ FRENCH (13-14)

BETTER MATHS (12-16)

MICRO ENGLISH (&GCSE)

MICRO MATHS (11-GCSE

MICRO SCIENCE (8-GCSE)

MICRO FRENCH (BEGINNERS-GCSE)

MICRO GERMAN (BEGINNERS-GCSE-

FRENCH MISTRESS

ITALIAN TUTOR

BLISINESS)

WORLD CLASS LEADERBOARD

Educational

696 CRUISE FOR A CORPSE 12:95 11:40 CYBERCON III CYBERSPACE (1MB) 2945 DALEK ATTACK DEMON BLUE 696 DIZZY PANIC 696

DREADNOLIGHTS (1MR) DREADNOUGHTS - BISMARCK DREADNOUGHTS - IRONCLADS ELITE II - FRONTIER (1MB)

EPIC ESPANA - THE GAMES '92 EUROPEAN FOOTBALL CHAMP F-15 STRIKE EAGLE II F-15 STEALTH FIGHTER F-29 RETALIATOR FANTASY WORLD DIZZY FLIMBO'S QUEST FOOTBALL MANAGER 3 FUTURE WARS GHOULS 'N' GHOSTS GRAHAM TAYLOR'S SOCCER

HARDBALL HOYLES BOOK OF GAMES - VOL 1 HOY ES BOOK OF GAMES - VOL 2 IMPOSSIBLE MISSION 2 INDIANNA JONES & FATE ATL (ACT) INDIANNA JONES & L. CRUSADE (ADV) 12:95 INTELLIGENT STRATEGY GAMES 5

INTERNATIONAL SOCCER CHALLENGE 8-75 ISHAR 3 **ITALY 1990** JIMMY WHITE'S SNOOKER KIDS RULE OK

KINGS QUEST 1 KINGS QUEST 2 KINGS QUEST 3 KINGS OUEST 4 KNIGHTS OF THE SKY (1MB) LAST NINJA III LED STORM LEISURE SUIT LARRY 1 LEISURE SUIT LARRY 2

LEISURE SUIT LARRY 3 LURE OF THE TEMPTRESS MILITANK PLATOON MANIAC MANSION MEGA TWINS

MERCS MIDWINTER MIDWINTER II (1MB) MOONWALKER MIDDED NINJA REMIX NODDY'S PLAYTIME (3+)

OPERATION STEALTH ORIENTAL GAMES OUTRUN EUROPA PANZA KICK BOYING PINBALL MAGIC PIRATES

PLAYDAYS (3-8) POLICE QUEST 1
POLICE QUEST 2 POPEYE 2 POPEYE 3 POPULOUS II (1MB)

> OPENING HOURS MAIL ORDER & SHOP

Mon-Fri Saturday 10am-7om 10am-4nm WHAT YOU SEE IS WHAT YOU PAY -NO HIDDEN

CHARGES

01**7**1 608 0624

Cheques & Postal Orders to: DataGEM Retail Ltd Department STF 23 Pitfield Street, London N1 6HB

PREMIER MANAGER 2 (1MB) PROTEXT V4.3 (1MB)
REACH FOR THE SKIES (1MB) 12-95 REALMS. 11.40 RICK DANGEROUS I RICK DANGEROUS II 8-75 ROBIN HOOD (1MB) 11-40 BOBINSON'S REQUIEM 27-75 BOBOCOD 875 RODLAND 8-75 SAVAGE SECRET OF MONKEY ISLAND (1MB) 14-95 SENSIBLE SOCCER INT'L EDITION 16-85 HADOWORLDS (1MB) SHUTTLE 12.95 SIMPSONS BART VS THE WORLD 21.05 SOOTY & SWEEP 696 SOOTYS FUN WITH NUMBERS (UNDER 7) 696 SPACE OLIEST 1 SPACE QUEST 2 SPACE OLIEST 3 14.95 875 SPEEDBALL 2 STARDUST STARGLIDER II 8.75 STREETFIGHTER STREETFIGHTER II (1MB) 12.95 STRIDER 6-96 8-75 STRIKER 8-75 STUN BUNNER 6.96 SUPER LEAGUE MANAGER (1MB) SUPER MONACO G.P. SHIPPEMACY TACTICAL MANAGER - ENGLISH (1MB)

8.75 New Lower Prices 11-40 21-95 All our disks are ful TACTICAL MANAGER - ITALIAN TACTICAL MANAGER - SCOTTISH guaranteed and TENNIS CUP 2 THE MUNSTERS THEIR FINEST HOUR

Disk Boxes THEIR FINEST MISSIONS VOL. 1 THOMAS FUN WITH WORDS (UNDER 7) THOMAS THE TANK ENGINE THOMAS'S BIG RACE (4-8) 1140 8-75 6-96 6-96 TRACKSUIT MANAGER TURRICAN 696 696 TURRICAN II

12-95

875 696

8.75

11.95

9.99

11.95

11.95

21.50

21.50

21.50

4.95 12 95 100 6.80 110 13.95

3.5" Disks

DSDD DSHD

4.25

7.95

14 95

25 99

49.95

124.95

10

20

50

200

500

1000

5.95

10.95

21 95

39 95

76.95

164 95

239.95 319.95

NEXT WEEKDAY DELIVERY AVAILABLE

JUST ADD £6.25 TO ORDER TOTAL

Miscellaneous

Workcentre Head Cleaner (3.5") Mouse Mat
Parallel port extension cable
Parallel printer cable (5m)
Roboshiti (auto Mouse/Joystick switch)
Joystick & Mouse Extension Cable (6")
Extends the two ports from under the so you can see where to plug them

Dust Covers

Joysticks

Frewheel-digital Gravis Gamepad Maverick 1M AF (QS138F) Megastar A/F (SV133) MegaGrip II MegaStick II MegaStick II
Navigator A/F
Python 1M (QS137F)
Quicklyo I Turbo (SV121)
Quickshot II
Quickshot II turbo
Speedking A/F
Starlighter 1 pad
Supercharger (SV123)
The Bug (black or green)
Topstar (SV127)
Zipatick A/F

Printer Ribbons

STAR LC10/20/100 black (LC9) STAR LC10/20/100 colour (LC9CL) STAR LC200 black (ZX9) STAR LC24 series black (Z24) STAR LC24-200XB-24 series col

ALL PRICES INCLUDE UK POSTAGE AND VAT AND ARE EFFECTIVE UNTIL 31ST MARCH 1995

Debuc

ST FORMAT examines BSS-Debug, a Falcon programming aid that certainly has a sting in its tail...

■ he Black Scorpion group, already famous in Atari circles for their ground-breaking Falcon software, have done it again with BSS-Debug, a Falcon-only debugger that crunches its way through 68030 machine code and boasts a range of useful functions.

BSS use this product as an inhouse development tool, and many prospective Falcon programmers will no doubt be keen to get their hands on one of the utilities that helped create APEX media. But what intrinsic use does it have? If you aren't a programmer, a hacker or a technophile, don't bother reading on, but if you have an interest in designing, developing or just exploring their Falcon software then you'll benefit from BSS-Debug.

How do you do it?

Like other BSS products, BSS-Debug doesn't use GEM. Instead it uses its own customised window environment, which looks like GEM but is much faster. It's also not entirely mouse-driven, but then, tasks like scrolling through a text window are faster using the arrow keys. The speed and responsiveness resulting from this design are the first things you notice when you load this rather slick utility.

Each function of the debugger is displayed in a separate text window, enabling you to rearrange the display as you like. Left-

BSS-Debug sits invisibly behind programs while they run, even in different screen resolutions.

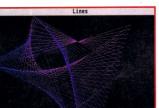
HOLH MENU

A completely gratuitous cat shot, just to draw the eye. Don't complain, it could've been a llama.

clicking the window selects it, and right-clicking pops up a menu listing all the options for that function. There are also a group of general purpose settings for the debugger.

Reverse engineering

The ethos of BSS-Debug is that it enables you to examine the workings of a program while it's running, rather than studying the initial source code. For that reason, it runs invisibly to the program being executed. This means, for example, that you can switch between BSS-Debug and a program running in a GEM window at the click of a button. It also means you can debug game programs that run in totally different resolutions. The tools the debugger provides can help you understand the active workings of your own programs, or indeed someone else's, but don't imagine it does all the work for you. You'll need fairly detailed knowledge about the internals of your machine, and an understanding of programming techniques before you can really get to





grips with the rigours of machine code development.

Even if you know your silicon onions, using BSS-Debug requires patience to set up just the way you want it. There are many system parameters, which can be altered at a very low level, and these take time to navigate. The speed of the interface helps, but there are a few surprising design omissions. All file and path names for loading and saving have to

be typed at the keyboard. A GEM-like file selector would be more convenient, and save you having to remember exactly where your files are and what they are called. Another conundrum is the lack of printing facilities. Sometimes a printout is indispensable for working away from the machine, or keeping track of several related programs. These features

will be incorporated in future releases

Debuggers are even scarcer than other types of software on the Falcon, and BSS-Debug has the double-edged distinction of being the first, and thus best by default. But the professional build quality and fast operation will take some beating. With just a few extra features, it would encourage other talented programmers to put it to good use. stf

DUG ARMSTRONG

Jargon busters

Source Code: The original program, usually a text-file containing high or low level instructions in a language, such as C, Pascal, or Assembly. ates an equivalent set of machinelevel numeric instructions known as object code

Linker: This takes an object code file and links it with standard pre-built Executable Code: The final version of

stand-alone application. Assembler: Similar to a compiler, but produces executable machine code directly from low-level assembly language source code.

Disassembler: The opposite of an assembler! Takes an executable file

and retro-translates it back to assembly language source code. cutable program in a controlled environment with various diagnostic features. BSS-Debug, for example. Memory Map: A listing of the conthe form of hexadecimal numbers and/or ASCII characters MC68000: The CPU, which lies at the heart of all STs 68030: The CPUI in the Falcon faster and with more advanced features than the MC68000.

BSS-Debug

£39.95 Titan Designs ☎ 0121 414 1630

Falcon with colour display required.

- Very fast
- Efficient interface ■ Many powerful features
- Lows
- No printing facility ■ Documentation could be
- more detailed What Else?

■ Nothing else quite

□ 0115 945 5250

- like it for the Falcon X-Debug for the ST £24.95 FaST Club



Tools of the trade

■ The BSS-Debug menu system uses a custom interface for speed and readability. RELOCATE (R) INTELLIGENT COPY(I) SAVE BINARY (S) PREFERENCES (P) SEARCH HEMORY (6) SEARCH MEXT (N)

Each function is contained in a fast-Disassembler: Accepts any executable file and reproduces the equivalent assembler code listing. This reveals the underlying logic of a stream of unintelligible numbers. From here the program can be run with breakpoints which intelligently control the process, executing small segments of code or repeating until certain conditions are met. Memory Dump: A display of any memory block's contents in an ordered fashion. This function also

allows the inspection of memory Watch: Displays the contents of labelled memory addresses. That's program variables to you and me CPU: Here, the contents of the CPU registers are displayed, with recent changes highlighted. Labels: A list of all named labels and their memory address locations. ASCII: If the sight of so much pure, logical machine code is giving you Vulcan's eyebrow, squint at the ASCII source code file where it all started. Could be illuminating.

ARDUT 388 DEBUG

LEAVE DEBUGGER (Esc)



FUTURE STARTS WITH A GUARANTE THE WORLD'S Atan's Jaguar offers more power than any other system. It is totally futureproof with the power of virtual reality and remote gameplay via modem expected during next year.

CONSOLE

- 64-BIT DATA BUS
- 5 Processors
- 2мь 32-віт RAM
- Spectacular 32-BIT Graphics
- Unique 360° Gameplay
- 3D Game Worlds with No Restrictions
- 16.7 Million Colours
- CD Quality Stereo Sound
- 17 Button Controller
- Plugs Straight into a TV

Free Cybermorph Game















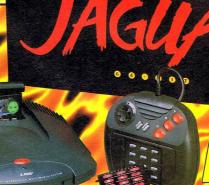
Alien v Predator - JGS 1122 Brutal Sports Football - JGS 1532 Bubsy the Bobcat - JGS 1581 Buosy fire Booker - JGS 1981 Chequered Flag - JGS 1761 Club Drive - JGS 1794 Crescent Galaxy - JGS 1852 Doom - Special Edition JGS 2282 Dragon - Bruce Lee Story - JGS 2272 Evolution - Dino Dudes - JGS 2462 Loss Celdias uses sees - JGS 2462 Iron Soldier - IGS 4011 NOW 649 Kasumi Ninja - JGS 4502 Raiden - JGS 6722 Tempest 2000 - JGS 7472 NOW €49 Wolfenstein 3D - JGS 8932 Zool 2 - JGS 9312 NOW NOW Syndicate - JGS 7301 JAN '95 Theme Park - JGS 7501 JAN '95 Cannon Fodder - JGS1704 Charles Barkley Basketball - JGS 1741 FEB '95 Creature Shock - JCD 2341 Demolition Man - JGS 2142 FEB '95 FEB '95 Flashback - JGS 2971 FEB '95 Rayman - igs 8801 FFR '95 Rise of the Robots - JGS 6942 E49 TBC TBC TBC TBC Troy Aikman Football - JGS 7831 MAR '95 JUN '95 EARLY '95 PowerDrive - JGS 6521 Battlezone 2000 - JGS 1341 Battlemorph - JCD 1201 EARLY 95 TBC Blue Lightning - JCD 1531 Hardball III - JGS 3841 EARLY 95 TBC

Tiny Toon Adventures - JGS 7592 EARLY '95 £49 ACCESSORIES

Composite Monitor Cable - JGA 4327 £16.99 Jaguar Controller - JGA 2000 £19.99 RF Switch Box inc Cable - JGA 4871 £16.99 Scart Cable - JGA 4200 £9.99 CD-ROM Add-On - JAG 1164 FEB 95 £149 FMV Module APR '95 £199 VR Headset LATE 95 TBC

COMING IN





SUPER CONSOLE! AHEAD OF THE PACK

Change play perspective. View gaming areas from above, left, right, behind or in front.

EXPECTED DURING '95 LINK UP WITH 'CATBOX'
The optional extra Catbox plugs into the back of your Jaguar,
enabling you to connect a wide vanety of add-ons simultaneously, Facilities include the ability to link up to 32 Jaguars
together for multi-player games such as Doom and Club Drive.

CD-ROM FILMS & UNBELIEVABLE GAMES

VIRTUAL REALITY'S COMING

Tap the power and speed of CD-ROM with Atari's Jaguar add-on (expected Feb 95). Play bigger 3D games, standard addio CDs and films (with optional extra FMV module - expected Apr '95). The CD-ROM drive also includes a virtual light system, which

creates an interactive light show in time with CD audio output

WHITUAL HEALITY'S COMING Watch spaceships whirl around your head, laser bolts slice past you, sounds of destruction fill your head as you become part of the game. Jaguar's virtual reality helmet is expected in 1995.

In the world of Jaguar, distance means nothing, Play against Jaguar owners in New York, France, Greenland or even Australia, Plug in your optional virtual reality helmet, and do battle in cyberspace with players from around the world.

CONNECT WITH A WORLD-WIDE NETWORK

PLAY FROM ANY VIEW

. ZOOM IN FOR CLOSE UP ACTION Jaguar allows you to zoom in on any part of a game's play area SAVE STATE OF PLAY
Store those high score tables and game positions in special random access memory stored on the cartridge.



PLUS CYBERMORPH GAME

JAGUAR CONSOLE + CONTROLLER

INCLUDING VAT - JAG 1064

FREE DELIVERY MAINLAND

THE SILICA

EARLY 95 E44 EARLY 95 TBC EARLY 95 £49

Before you decide WHEN to buy, we suggested you consider WHERE to buy and protect your investment with a purchase from Silica. With a purchase from Silica. With provide all the extra help, advice and new your product information you may need both now and in the future. Visit one of our stores, or return this coupon ow and begin to experience the "Silica Service".





ESTABLISHED 17 YEARS We have a proven track record in professiona computer sales.

computer sales.

PART OF A ESOM A YEAR COMPANY:
With over 300 staff - We are solid and reliable.

EXPERIENCED STAFF:
All fully trained in 'Customer Care'.

 TECHNICAL SUPPORT HELPLINE:
FREE help and advice from a team of experts A FULL PRODUCT RANGE: All of your computer requirement

 WE PRICE MATCH:
On a "Same product - Same price" basis. • FREE CATALOGUES.

PAYMENT:
We accept most major credit cards, cash, cheque or monthly terms
(APR 28.85 - writine quotes on request).

VOLUME DISCOUNTS AVAILABLE: Business, Education and Government. Tel: 0181-308 0888.

over £40+VAT. Small administration charge (£2.50+VAT) on orders under £40+VAT.

21 STORES NATIONWIDE.
 *Mini Stores carry a selected range only but products can be ordered in the stores via Mail Order

MAIL ORDER 0181-309 1111

PLUS BRANCHES AT: SILICA, SILICA Debenhams - (2nd Ricor), 11-31 North End 0181-688 4455 Debenhams - (5nd Ricor), 97 Argyle Street 0141-221 0088 GUII DEORD 01483 301300 Debenhams - (2nd Roon). Station Road 0181-427 4300 Debenhams - (2nd Roon). Prospect Street 01482 25151 0181-427 4300 HARROW HULL IPSWICH | Debenhams - (2nd Floor), Westgate Street | 01473 221313 | Silica - 52 Tottenham Court Road | 0171-580 4000 | LUNDUN Debenhams - (3rd Floor), 334 Oxford St 0171-580 3000 01582 21201 LUTON Debenhams - (1st Roor). Arndale Centre MANCHESTER Debenhams - (3rd Floor), Market Street 0161-832 8666 PLYMOUTH Debenhams - (3rd Floor), Royal Parade 01752 266666 ROMFORD Debenhams - (3rd Floor), Market Place 01708 766066 Debenhams - (3rd Roor), The Moor SHEFFIELD 0114-276 8611 Debenhams - (L.Ground), Meadowhall Ctre

COMPUTER SHOPPER WINNER

PLEASE SEND INFORMATION ON THE ATARI JAGUAR Mr/Mrs/Miss/Ms: Initials: ... Postcode: .. Tel (Home): ... Tel (Work): Which computer(s), if any, do you own?

E&OE - Advertised prices and specifications may change - Please return the counce for the lates

16/32 SYSTEMS PRESENTS: FOR FALCON OWNERS







:PINBALL DREAMS

Steel Talons and Evolution Dino Dudes due for release January 95



16/32 Systems, 173 High Street, Strood, Kent ME2 4TW Tel: 01634 710788





Calamus 1.09n

1Mb Ram, Hi-Res Monitor & Double Sided Disk Drive Calamus 1.09n is the only choice for those who want to get into serious desktop publishing on a budget. Other programs have come and gone but Calamus 1,09n still remains to be the market leader.

Calamus 1.09n will create professional documents using a multitude of construction tools. A fast text editor contained in its own window simplifies the inputting and editing of documents, placing Calamus 1.09n in a class of its own. Calamus 1.09n is easy to learn and use with its pull down menus, icons and on-line help functions, plus a complete and easy to follow manual

Calamus SL

2Mb RAM, Hi-Res Monitor, Double Sided Disk Drive & Hard Disk Calamus SL allows you to expand your DTP ideas into colour production work and with new commands, create a more flexible working environment for your

Outline Art v3

2Mb RAM, Hi-Res Monitor & Double Sided Disk Drive Another addition to complement the Calamus family is Outline Art v3 which is a vector graphics package with which you can add tinted shades to fonts and also create your own graphic objects for inclusion into Calamus.

EUROPE LIMITED

30a School Road Tilehurst, Reading Berkshire RG3 5AN

Telephone +44 (0)1734-452416 Fax +44 (0)1734-451239

Stereo CAD

£29.95

Any Atari with Colour TV/Monitor

Create your own stunning 3D Stereogram images. Let your mind loose with the drawing tools to create excellent 3D graphics. Your only limitation is your mind!

Rainbow

Falcon with Colour TV/Monitor

A True Colour art package that expands the Falcon. With its quick choice colour palette and icons you can create stunning graphics quickly. With its built in Photo Studio there are over 80 tools and effects to choose from

Obsession

£24.95

ST-E & Falcon 1Mb Ram & Colour TV/Monitor The best Pinball game ever for the Atari!!



All prices include VAT & Delivery within the UK. VAT Regd. No: 363437155 Please make all Cheques/Postal Orders payable to "JCA EUROPE LTD"

PUBLIC DOMAIN & SHAREWARE

for the Atari ST series of computers including the Falcon. Send a blank disk and S.A.E. for our catalogue on disk which contains text files in detail of all our pd/shareware disks.

HD Interna Drive Kit

Tired of running out of space on all those double-density 3.5-inch floppies? You need a highdensity drive. Analogic have come up with a little hardware project for you...

ay back in the mists of time (issue 54 to be exact), we ran a tutorial on how to install the Bitz high-density 1.4MByte disk drive in place of the internal double-density drive your ST comes with as standard. More recently, Analogic have released their own version of the upgrade, romantically called the ST HD Mod, and it

costs a highly reasonable £59.95 -£10 less than the Bitz drive.

Once again, the kit contains everything you need: a HD 3.5-inch drive unit, accompanied by a small piece of circuitry which tells the ST

that it's using a high-density drive and doubles the speed at which the disk controller chip runs (to 16MHz).

So if the price is right, which it is, and the benefits of a HD drive are obvious, which they are, then what's the drawback? Well, you have to install it yourself. This entails taking your machine apart, attacking the case to widen the existing drive hole

to cope with a differently shaped drive facade, and plugging the new drive into the sockets vacated by the old one (this drive sits in place of the original drive). You then install the odd, technical-looking piece of PCB (Printed Circuit Board) with which the drive is equipped. This entails pulling back a leg on the floppy disk controller chip and soldering the wires from the PCB to

"If you don't know

iron is, you should

what a soldering

find a technician

to carry out this

installation"

other chip legs, and to various other components on the main board of your ST. This is where you might run into problems Soldering computer components is never

easy, particularly because the heat from a soldering iron can short important chips and other components, and we'd seriously recommend that you invest in a heat sink.

It's at this stage that we recommend you take part in the ST FORMAT test. If you don't know what a soldering iron is, and you've never even heard of a heat sink, you should find

with no worries.

a qualified technician to carry out this installation and hand over your money knowing it's for the best. Alternatively, if you're confident, follow the tutorial in issue 54 (and if you missed it, back issues is on page 79) and have a go at installing the drive yourself, although we take absolutely no responsibility for those of you who end up destroying your machines in the attempt.

Assuming you survive the installation, you should now have a working high-density drive on your ST. The next problem you face is formatting high density disks. If your version of TOS is anything up to 1.62, you can use the Bitzcopy formatting software, supplied with the kit. If you have an STE with TOS 2.06 then there is a High Density Format option available from the Desktop, Easy, eh?

Yes! Yes! Yes!

Once you have your HD drive installed, what can you use it for? Well, there are all kinds of way in which owning a HD drive improves your computing power. HD disks can hold twice as much information as double-density - 1.4MBytes rather than 720K. The benefits of this extend to every package that uses a disk drive: you can process longer samples, create bigger text-files, store longer animations, in fact, if you can

store it on a disk, you can store more of it on a high-density disk.

Then there's the fact that your ST can now access high-density PC disks. It'll also make your life easier if you're using a PC emulator - most PC software comes on HD disks these days. And you can still use your double-density disks.



■ The extra piece of circuit board, ready to go into the President's brain.

So... so... so...

This has to be a welcome modification to your ST, bringing it more up to date and into line with other computer systems. The TEAC drive is of a high quality, and the equipment seems slightly more robust that the standard Atari drive. Installation is the main stumbling block if you're a bumbling amateur, but for the technically minded it shouldn't be a problem. If you are unsure about installing it yourself, watch out for a solderless version which Analogic are promising for the near future. It'll cost you an extra £10, but it'll reduce the chances of you melting your computer.

Alternatively, there's always the Elco kit from System Solutions, but it costs £10 more and solderless versions are not available. If you're looking for a high-density drive, Analogic's HD Mod looks to be a great option. stf

SIMON FORRESTER



☎ 0181 546 9575 **Highs**

- All the obvious benefits of having a HD drive
- High quality construction
- Complex installation
- Not the best manual
- Elco HD drive kit £59 99 from System Solutions

What else? = 01753 832212. Also involves soldering



■ The thought of sawing holes in you casing turns my stomach (and we'll take no responsibility for it, either).









With the calibre of recent PD game releases it's only fair that they get a section to themselves. Nick Peers selects only the best. He's that kinda guy.

GRAND PRIX MANAGER

FLOPPYSHOP DISK FWS14C (£2.50)

THIS FLOPPYWARE TITLE CLAIMS TO simulate the rigours of managing a Formula One racing team, which means that if you're a budding Michael Schumacher or Damon Hill you'll find that this game isn't for you. And if this simulation is anything to go by, the management side of Formula One is deeply uninteresting.

It's difficult to feel involved in a game that features screens filled with tables of statistics so boring that even Frank Williams would blanch at them. If you're not choosing drivers, you're picking chassis experts and engineers, but it's all predictable - the more expensive people you choose, the better a team you'll get and the more you'll win. Surprise, surprise.

And when you finally get to the race, you're given the option to bet on who's going to win. Forgive me for being a cynic, but do Formula One racing teams usually bet on the outcome of Grand Prix races? And would you honestly expect the likes of Lotus to bet on their own drivers when it's obvious that they don't have a hope against Benetton and Williams? The race is fairly vapid too, your only involvement being to make the decision on when to bring the cars in for a pitstop.

In the good old days of the Speccy you could get hold of an earlier, simpler version of this game, which was much more fun simply because you didn't have to get bogged down in statistics. If you love

Çar Race 1 Lap 23/72 5 10 3 11 2345678 Messages Nakajima Cars 26 Tyres

numbers you might get some enjoyment out of this program, otherwise avoid it like, like... like a runaway car. STF RATING: 54%

Grand Prix Manager in all its revved up glory. Now you too can experiment with chassis, engines and even nuts and bolts. Fun, huh? (I didn't think so either, and I'm completely mad.)

STELLAR PD **DISK MENU 17**

SEVEN GAMES GRACE STELLAR PD'S latest neat compilation of games, this one leaning heavily towards the shoot-'em-up addict, once again. Even the 3D Construction Kit game, Anarchy Academy (STF 38, 73%) challenges you to destroy your

■ The frenetic Location Universe 2. For those of you who are colour blind, Sarah would like to say that this is pink, purple and blue. Not baby blue. Ta, Sarah.

deserted school within a time limit. Unfortunately, being a 3DCK game it's a little slow, although well constructed. (Geddit? Sorry...)

Match Maker is a Dave Cobbledick puzzler in which you match

tiles from a hidden arid before time runs out. Dave is a puzzle creator extraordinaire, and Match Maker continues in the same vein as most of his previous games. Location Universe 2 is a SEUCK game with

■ Linda Ladybird was getting just a mite (ho ho! - Karen) annoyed with all the unwanted attention from the ants. It would be the last time she wore 'Attract-An-Ant' perfume.



pretty graphics, but nothing to lift it above other SEUCK releases - fun for five minutes if nothing else. Atax, which scored 73% in issue 34, is another vertically scrolling shoot-'em-up, while Viking 3, which scored 80% in STF 64, is an addictive Drop Zone/Moon Lander cross.

Believe it or not, Kittypuk does exactly what its name implies - it enables two players to play computer air hockey using a cat for a puck - you score goals by firing kitty into your opponent's net. Simplistic, but fun if you yearn for those ancient Binatone TV games systems.

The final game, Insecticide, is a compelling cross between Centipede and Daleks, in which you control a laser-toting ladybird, and must protect yourself from waves of insects intent on catching and devouring



othe month

ON ES 2 AND TOMTA

DISK PWR 475

PACMAN ON ES 2 AND TOMTAR ARE both 1MByte STE-only games. Tomtar is a violent little number in which you stand on one side of the screen blasting merry hell at the Tomtars little critters who are multiplying like nobody's business and converging on you at speed from behind a tree.

Occasionally an ogre appears and chucks Tomtars directly at you. Shoot him, and you're on the next level. It's all your typical simple, vio-



If you have an STE, but no Pacma clone, then you need Pacman on Es 2.

lent, mindless fun with lots of nicely detailed graphics, and you can soon find yourself becoming completely and utterly addicted to it.

Similar mindless fun is provided by loading up Pacman on Es 2. While it retains the classic gameplay of the original game, some wildly colourful graphics and excellent sampled sound (such as a Family Fortunes buzzer when you die and a Roadrunner "meep meep" when you get a power pill) update the game about as much as is possible. This version differs from the original Pacman clone (STF 57, 88%) by offering a two-player option, in which you and a buddy (who plays a Pacman in specs) compete. There are even bonuses to be won, which slow your friend. And there are 100 gruelling levels to battle through.

PARYER THO

This is a superb disk. Each game is excellent in its own right, and together they represent absolutely hours of snarling at people to leave you alone, you're busy.

STF RATING: 90%

Go on, blast those poor defenceless Tomtars, You sick, sick person.

DISK PWR 707

THIS RELEASE IS A COMBINATION OF demo intro and game. The demo intro is a classic example of how demos should be constructed, featuring a relatively simple concept in gaming (noughts and crosses) being weaved seamlessly into the usual demo fare of abstract images, dancey sound and scrolly messages. The music even veers into the occasional vocal chorus, reminiscent of the Old Spice advert

The game itself is played to the accompaniment of country music surely a first for a game of this type? Initially you play straightforward noughts and crosses against your ST, but as you move to higher levels of play the grid starts to spin round, getting faster as you progress through the three levels. You can quickly become disorientated by a spinning grid, which makes this a particularly effective way of separating out the levels in terms of difficulty.

If you want the slickest, most difficult game of ST noughts and crosses, this is the one for you. If you hate noughts and crosses, you might still enjoy the demo, or even the country music.

STF RATING: 76%

TRANSPARENT DREAMS PDL

FRUITY IS A PASSABLE RENDITION OF This disk is yet another Serea fruit machine - no more, no less. It nade compilation that offers excelfeatures big, bold graphics, which are lent value for money, and you're unfortunately let down by the poor bound to lose at least a few hours beepy sound effects, and it offers little playing it... (Much like you did this entertainment other than watching month, eh, Nick? - Jill) the numbers spin round. The game

STERATING: 84%

you. It's a simple case of blasting them away as they converge on your

position, while pausing to admire the

detailed if slightly sparse graphics.



really needs more options to make it stand out from countless other fruit machine simulators available in the Public Domain

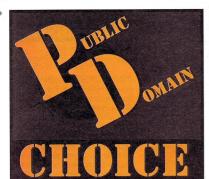
Match It, on the other hand, is a well-thought out variant of Mah Jongg in which you remove up to 144 tiles from a two-dimensional grid to proceed to the next level. The catch is that you can only click on similar or identical tiles that are either adjacent or connectable by a line with no more than two edges. It's a compelling game, and the inclusion of different levels and passwords gives it a longevity that other Mah Jongg games on the ST don't offer.

If you're a puzzle fan, you should get hold of this disk for Match It alone. Fruity's an added bonus that you might play occasionally. STF RATING: 78%

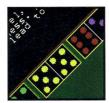
Match It. Mums get addicted to this e. Mine goes berserk if she can't



■ Noughts and Mad Crosses is a Gallic creation. The cartoon of Lucky Luke is a bit of a giveaway, seeing as he was dreamt up by the creator of Asterix.







Looking for some serious bargains to improve the performance of your ST? Join Nick Peers on his endless quest to do the very same.

MUSIC

MODEST

AD.LIB PD

MODEST IS A MOD FILE ORGANISER, which enables you to create glorified lists of your MOD files, Just load in all your MOD files, and Modest automatically catalogues them for you, storing filename, song name and some information on the MOD file itself. This is useful because MOD files often have their filenames changed, which can mean you end up with the same file under several different names. Modest automatically groups them all under one alias, based on an analysis of the file itself rather than its name.

Not only does this give you a dedicated database for keeping information on all your MOD files, but it also helps if you want to swap MOD files with a friend. Rather than painstakingly listening to each MOD file in turn, it can tell you which files you have that are the same, despite

FILENAME	SONGNAME	INFO		
AIRWOLF.MOD	airwolf	st-06:explosion		
DRWHO.MOD	doctor who	st-01:popsnare2 ST-01:funbass		
LASTHERO.MOD	Zui Hou Yi Ge Da Xia	ŠT-01:sixtease by the Beyond.		
STARWARS.MOD	starwars	st-04:ex800bass st-07:milkyway		
THEME007.MOD	themes from 007	converted by is jhsa@cc.tut.fi		
FIREFOX.MOD	m.o.n by firefox	st-92:tubestring st-92:organ3		

having different names. You'll have to register it if you want to save or print anything, but it's well worth it, especially if you're serious about cataloguing all your MOD files.

STF RATING: 80%

■ Modest graces this month's Wonder Disk, so subscribers can try it out for themselves. What do you mean, you're not a subscriber?

TOP TEN

Transparent Dreams PDL

- 1 Jet Bike Challenge
- 2 GEM-View 3
- 3 Ozbornz Module disk 2
- 4 Ozbornz Module disk 1
- 5 Space Searcher 2
- 6 Fruity/Match It

- 7 Crazy Samples Disk
- 8 Centipede
- 9 Snacman
- 10 Utilities disk

Transparent Dreams can be contacted at: 59 Renton Road Wythenshawe, Manchester, M22 9TQ. Call = 0161 437 7474 for the latest details of their range, neatly contained in their latest catalogue disk.

OZBORNZ MODULES 3

TRANSPARENT DREAMS PDL DISK MOD 3

HURRAHI SOME DECENT MOD tunes, at last! This opens with a solid rendition of Duane Eddy's Peter Gunn, then moves on to the Hill Street Blues theme, which is recognisable and pleasant enough. Of the remaining five tunes, Toccata is the most memorable, evoking images of mad church

organists. This is a disk for those of you who have a short tolerance for dance tunes (20 seconds at a struggle), and you'll need your own MOD player.

Top tip: if you have an STE, try linking your computer up to your hi-fi using a standard phono lead. Your ST can sound pretty funky when the music's coming at you through 40-watt speakers!

STF RATING: 78%

Wot No Utilities?

There are no utilities this month, but don't fear. Next month Nick starts his 'Fine-tuning your ST' series, in which he covers all the utilities you'll ever need, and how to set your ST up to perfection.

Incert mode

Typeface...

Formatting...

File Lists...

Save setup...

Program exit...

Overwrite mode @Insert

GEM Clipboard On GEM Clipboard Off

Screen elements...

Miscellaneous...

Abbreviations...

Error messages...



FALCON

■ Everest – one of a long line of excellent text editors for the ST and Falcon.

FALCON UTILITIES

FLOPPYSHOP DISK F4555

TEN VARIED UTILITIES GRACE THIS disk. The highlight is version 3.3 of Everest (STF 60, 85%), which is an incredibly compatible text editor, running on all setups with minimal fuss—it even supports GDOS fonts. Text editors like this create plain ASCII files and are often much faster and easier to use than the inbuilt text editors you get with programs like Calamus and Papyrus Gold.

Voxmail, a demo of which is provided on the disk, turns your Falcon into a telephone answering machine. The full version costs \$60 and comes complete with all the hardware attachments you'll need to connect the telephone, while using the Falcon's built-in direct-to-disk

technology to record your messages. Cheaper than an answerphone. Icon Edit

enables you to create colour icons for use on your Falcon's desktop, but its use is restricted to 80-column, 16-colour VGA mode, which you're likely to find restrictive. Gamefix is much like Backwards, attempting to make ST games

run on the Falcon. Browser is yet another text-file reader.

The other program of note is OCR, which is optical character recognition software. This scans IMG

(F1) D:\LEAPTRY
supposed to have heard. "Escort the ca

Thank God, Sam thought. Now I don't have figure out where the ready room is ... ensign took his arm. She was a pretty features, but the bumpy growth across toffputting as the complexion of the man

_Where _are_ you, Al?_

The ensign gently guided Sam to a door this angle, it was obvious that the are kind. In fact, Sam was beginning to ha he was on a spaceship.

The door slid open as Sam and the bumpy-nosed ensign approached it. "Would you like me to stay?" she asked.

EVEREST File Block Search Window Parameters Info

drawings and looks for text, turning it into a text-file. It's an interesting concept, but not a particularly powerful package, and slow in use.

The inclusion of *Everest 3.3* makes this a highly worthwhile and

excellent value-for-money package if you're looking for a good PD text editor, and you can treat the other nine utilities as a bonus – you might need them one day after all.

STF RATING: 89%

Insert

MS

to to

the

even

as lier.

From

some

that

EVEN MORE FALCON UTILITIES

FLOPPYSHOP DISK F4632

NO LESS THAN 22 UTILITIES GRACE this disk, covering a spectrum of taste and requirements. The problem with this sort of compilation is that it just isn't specific enough, leaving you wondering whether it's worth buying a whole HD disk for one small program. But anyway, to cover the highlights...

There's a replacement file selector, Box Kite, which enables you to select which INF file you load. Using this you can boot up your Falcon with different desktop layouts. Choose INF is a German bar-code creator, and there's a small screensaver entitled Fuss.

There are also two programs that enable you to convert one archived file (ARC or LZH) to the other. The updated version of ARC2LZH comes with a comprehensive and user-

■ After a program to convert ARC to LZH files quickly? Here it is.

friendly Options screen that takes the fuss out of the whole process. There's also PC Mouse which enables you, for whatever reason, to use PC mice with your Falcon. Finally, SM Blast is included, giving you enhanced display options if you have a monochrome monitor.

There's something for everyone here, and each program does its
job competently enough. If you're
desperate for a new file selector and
bar-code creator, look no further. If
you want a host of other utilities,
you might be better off just getting
hold of a PD library catalogue disk
and scanning through it to find
exactly what you want.

STF RATING: 71%

MAGNET 9/GULLBACH

FLOPPYSHOP DISK F4581

THESE THREE DEMOS VARY IN style and quality. Magnet 9 is the best, featuring ambient swirtly graphics, which offer a respite from the psychedelic stuff we've reviewed recently. The music isn't all New Age though – the mood is shattered by the sound of guitars blasting away to Anarchy in the UK (thanks to Andy O, our resident punk rock guru, for that piece of information). Excellent stuff, but no Brian May solo...

Gullbach returns you to the dance music theme, with nicely constructed, if sparse, graphics (the little gorilla tramping across the screen is a particular team favourite). The final demo, 68xInter, is simply a picture constructed back in 1993 for a GFX competition in Germany. It might have taken 15 hours to render, but it still takes up far too much disk space (720K). If you're a Sex Pistols fan, buy this disk for the Magnet 9 sequence. Otherwise it doesn't offer anything radically new.

STF RATING: 65%



Hmm. What's this then? Well, your guess is as good as mine. Answers on a postcard please...



MISCELLANEOUS

CHINESE HOROSCOPE AND

GOODMANS PDL DISK GD560

A GOLDEN OLDIE OF A DISK THIS. If you're into astrology you'll love it of course, but even if you're a sceptic it still offers a few hours of mindless fun. Chinese Horoscope gives you the option of producing one of two horoscopes, based on either animals or stars. The horoscope based on animals is easy to produce - just enter your time and date of birth and the program produces a personality profile based on whether you were born in the Year of the Rat or Dragon or Donkey or whatever. The stellar horoscope is much more complicated, and requires an intricate knowledge of the night sky, something that the disk doesn't provide. Although other sources are recommended, it would have been helpful if the program could have done the hard work for you.

I Ching is another matter entirely. You type in a question, and the program answers by throwing three coins six times and coming up with a 'profound' saying. For example, when we asked about the future for ST FORMAT over the coming year it replied: "When the corn is ripe, it must be harvested. Look into yourself anew, and take stock. Inaction and complacency harden the arteries." Sounds about right. It's easy to take programs like this apart – there are a finite number of responses depending on how the coins fall – but it's good clean fun.

Rounding off the disk are two programs: Numbers, which calculates what numbers play an influence on your life, and Domines, which is STFM-only, although you can get it to work if you use STOS Fix (a version of which graced last month's Cover Disk). You simply pick three dominoes at random, and receive your horoscope in return.

It's all weird but wonderful fun, and if it really does secure Birmingham City FC success this season then it'll have been well worth the paltry asking price!

STF RATING: 79%

DOUBLE FOUR Social events are well starred, but in the work sphere, do not commit yourself unless your work is related to the arts. DOUBLE FIUE A change for the better is in the air. This may be a move of house, job or relationship. Do not resist change. SIX / THREE This portends travel, either for pleasure or business. Any thoughts of emigration will lead to success. MOUSE

■ My last *Dominoes* reading told me that weddings would be involved in my near future. So who's getting married, and where's my invitation?

UFOLOGY

STELLAR PD DISK MISC10

NOW THIS REALLY IS BIZARRE. This disk consists of 15 text-files covering the author's view of the universe and the existence of UFOs. It opens with his personal beliefs, then develops some 'radical' (or loony, depending on your point of view) theories about UFOs and their role in the world.

For example, he believes that UFOs are "the Keepers or Guardians of the world" and that "they have been instrumental in its creation", and goes on to claim that the real purpose of UFOs has been hidden from us from the world's authorities. It all continues in much the same vein: just think paranoid fundamentalism and run screaming in the other direction. Might be briefly entertaining, particularly to cynics.

STF RATING: 38%

PD ROUND-UP

Missed a back issue? Want to know when we reviewed a particular piece of PD in the last few months? Then look no further than this definitive guide to PD reviews over the past four issues, in ratings order.

Title	PD Library	Type	Issue	Rating
Munch	Ad Lib PD	Art	64	93%
Dynabusters+	AWF PD	Game	65	92%
Award Maker Plus	Tumblevane PDL	Utility	66	91%
Speed of Light v3.5	Floppyshop	Art	67	90%
Clip Art Collection	Floppyshop	Art	67	88%
HP Support Disk 2	Floppyshop	Utility	64	87%
Falcon Utilities	Floppyshop	Falcon	65	86%
Route Finder 2.0	Cover Disk 66	Utility	66	86%
Golden Dawn Menu 15	STellar PD	Game	67	85%
ST Beermat	Organised Chaos L/Ware	Diskmag	64	84%
Oh no!! More Froggies	Floppyshop	Demo	67	83%
Kozmic 4	Goodmans PD	Utility	66	81%
Ultimate STE Megademo	Floppyshop	Demo	66	81%
Family Tree 2.1	Merlin PD	Utility	65	80%
Golden Dawn Menu 10	STellar PD	Game	64	80%
Power Magazine 16	Power PD	Diskmag	64	80%
Cycedelic Knockout Demo	Floppyshop	Falcon	67	79%
Novadisk 2	James Bird	Diskmag	64	76%
Scorewriters	Tumblevane PDL	Music	66	76%
The PD Collection	Transparent Dreams	Utility	67	76%
Darts 180	Merlin PD	Game	65	75%
PEG Pictures	Floppyshop	Falcon	67	75%
magelab	Goodmans PD	Utility	65	74%
Frantick	Goodmans PD	Game	66	73%
Psion-ST Transfer Software	Goodmans PD	Utility	67	71%
Lotus Document Displayer	Chris Sharp	Utility	64	70%
The TIFF Demo	Floppyshop	Demo	65	70%
Archivers	Goodmans PD	Utility	67	70%
Violent Death	Transparent Dreams	Game	66	68%
ntro Maker 1.5	Floppyshop	Utility	67	68%
Big Top Type	Floppyshop	Education		67%
Atari Museum	Merlin PD	Misc.	65	66%
STellar MOD Collection	STellar PD	Music	66	65%
ST Vegas	Who's PD	Game	67	65%
MOD Files	Floppyshop	Music	67	61%
Ozbornz Module 1	Transparent Dreams	Music	64	60%
Ozbornz Module 2	Transparent Dreams	Music	64	50%
Zuffers	Power PD	Game	66	60%
Golden Dawn Menu 9	STellar PD	Game	64	55%
Overscan Invaders	Floppyshop	Game	67	55%
Club Culture Mix Pack 2	STellar PD	Demo	66	51%
Lindemo and War	Goodmans PD	Game	67	50%
let Bike Challenge	Transparent Dreams	Game	65	48% 40%
World Cup 1966 Demo	GL-PD	Demo	64	
Fly Over Fantasy	Floppyshop	Demo	66	25%

See page 73 for a list of all PD libraries. Although we've listed the libraries who sent in the disks for review here, most of the programs should be available from a selection of libraries.

RAE TUTOR

FLOPPYSHOP DISK UTL4609

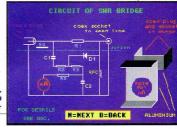
IF YOU'RE A BUDDING AMATEUR radio enthusiast, you have to attain a RAE City & Guilds certificate to enable you to become a licensed radio amateur. This suite of programs should help you do just that, the disk containing a demo of the programs (registration for the full suite costs £15).

Two syllabuses are supplied. The first deals with licensing conditions, transmitter interference and electromagnetic compatibility, each of which is split into eight component parts, although the demo version restricts you to one choice only. The second syllabus deals with the actual basics of the radio, with seven sections featuring operating radios, electronic theory and transmitters and others. Again, the demo version restricts you to one piece of information from the many available on each topic.

If you understand diagrams like this, you're probably halfway towards getting your amateur radio licence. Rounding the disk off are two slide shows of clear, concise figurative diagrams. There are 60 in the full version, but only eight in the demo. To help you remember the material, the author has made it impossible to print any of the tutorials or diagrams, so you have to copy his own notes from the screen. This might work but watch out for eye strain and take plenty of breaks.

Coded in STOS, the program is not TOS 2.06 compatible as it stands but does work using STOS Fix (which we gave away on Cover Disk 67). It's well put together and should be an invaluable aid to all you budding amateur radio enthusiasts. seff

STF RATING: 76%



FIXED PRICE ONLY £42.99 Incl. (520/1040 ST'S ONLY)

- * Price includes PART, LABOUR, DELIVERY & VAT
- * 90 Day warranty on all repairs
- * 24 Hour turn-around on most repairs

* All upgrades purchased from us fitted free with repair

- * Includes FULL DIAGNOSTICS, SERVICE AND SOAK test
- * If drive or keyboard need replacing add £10

SPECIAL OFFERS

ATARI STFM Motherboard (fully populated)	£49.00
ATARI STe Motherboard (fully populated 1/2 meg RAM)	£52.88
STe/FM KEYBOARD (UK VERSION)	£39.00
POWER SUPPLY UNITS (e/FM)	£34.99

Compatible Internal Drive

CHIPS & SPARES

MMU IC (FM)	£19.95	Video Shifter (FM)	£18.00
DMA IC (FM)	£15.00	Video Shifter (e)	£36.00
GLUE IC (FM)	£19.95	68000 CPU (FM)	£9.80
1770 FDC (e/FM)	£13.60	68000 CPU (e)	£12.40
GLUE IC (e)	€49.00	CASES (e/FM)	£7.80
68901 IC (e/FM)	£23.50	Memory Upgrades	P.O.A
Add £1.00 P&P on chips, £2	.50 P&P on drives &	R PSUs. We reserve the	right to refuse repairs

* * * * * ATTENTION ALL DEALERS *

Credit facility available. SEND FOR FREE INFORMATION PACK TODAY

rvice HOTLINE (0533) 47005

DART Computer Services (SF) 105 London Road LEICESTER LE2 0PF





Est. 13 Years

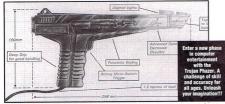
£36.20

The Guild of Master Crafts

SPECIAL OFFER

THE TROJAN PHAZER GUN (FOR THE ATARI ST/STE)

Enter a new phase of computer entertainment with the Trojan Lightphazer. Unleash your imagination and take up the challenge of the two action-packed games included in the pack:



SKEET SHOOT: Travel the world and attempt to complete "The International Pro Skeet Shoot". Try to better your score, or compete against a friend in your bid to become World

ORBITAL DESTROYER: Reach for your Pulse Laser and blast the aliens as you fight to save the planet Earth! Be careful, your ammunition supply is limited - If you run out the Earth will be doomed.

RRP £39.99 OUR PRICE £12.99 + £2.50 P.P ADDITIONAL PHAZER GAMES:- FIRE STAR RRP \$49.99 OUR PRICE £6.99

ENFORCER RRP £19:99 OUR PRICE £6.99 PHAZER GUNS ALSO AVAILABLE FOR THE COMMODORE AMIGA (ALL MODELS) RRP £39:99

OUR PRICE £14.99, THE AMSTRAD 464/6128 RRP £29.99 OUR PRICE £12.99 AND THE SPECTRUM + 24/34 RRP \$29-99 DUR PRICE \$12.99 PLEASE ADD £2.50 FOR POSTAGE AND PACKING FOR THE ABOVE ITEMS

All orders by return: Cheques/Visa/Access/POs

TRADING POST

Victoria Road, Shifnal, Shropshire TF11 8AF Tel/Fax (01952) 462135

el: 01463 EVERGLADE^{Tel:} 01463 240168 EVERGLADE 240168 68 TELEORD ST. INVERNESS, IV3 5LS

	Atari ST Budget Software	Leisure Suit Larry 2 D/S £11.95			
	D/S= Double sided Disks	Leisure Suit Larry 3 D/S £11.95			
	3D Pool D/S £8.75	Loom (XL) (512K)£12.95			
	Action Fighter £6.99	Lotus Esprit-Trilogy £14.95			
	Another World D/S (1Mb) £11.95	Lotus 1, 2 & 3			
	Battle of Britain F.Mission Vol 1£9.99	M1 Tank Platoon D/S£8.99			
(1)	Bumper Quad Pack £4.95	Manhunter in New York £12.99			
14	Jaws/Grand Prix/High Steel/	Maniac Mansions £10.95			
11	Crossbow-Legend of William Tell	Midwinter £10.95			
M	Cadaver/Pay Off D/S (512K)£12.95	Midwinter 2 Flames of Free£14.95			
	California Games 1 £6.99	Operation Stealth £11.95			
	Skateboarding/Foot Bag/BMX Bike	Police Quest 2 £12.95			
-	Racing/Surfing/Rollerskating/Flying Disk	Populous II (1Mb) £12.95			
M	Captain Dynamo £6.95	Premier Manager 2 (1Mb) £17.99			
	Colonel's Bequest D/S £12.99	Reach for the Skies £10.95			
N	Crackdown	Realms £10.95			
	Cruise for a Corpse D/S (512K) .£12.95	Simpsons Vs The Space Mutants .£8.95			
10	Cybercon 3 D/S (1Mb) £10.95	Skidz			
(1)	Dizzy Prince of The Yolk Folk £6.99 Elite II - Frontier (1Mb) £19.95	Shuttle £10.95			
0	Epic (512K) £11.95	Space Quest (1Mb) £12.99			
4	F-15 Strike Eagle II D/S (1Mb)£19.95	Space Quest III £12.95			
Bud	F-29 Retaliator (1Mb)£9.99	Speedball II D/S (512K) £8.75			
	Future Wars D/S £10.95	ST Dragon£6.99			
H	Heroquest£7.99	Striker D/S £7.99			
""	Hoyles Book of Games Vol 1 D/S .£11.29	Super Monaco G.P £8.75			
	Hoyles Book of Games Vol 2 D/S .£11.29	Tennis Cup 2 D/S (512K) £8.75			
	Impossible Mission 2 £6.95	Thomas the Tank Engine 2 £11.79			
IA	Indiana Jones & Last Crusade	Treasure Island Dizzy £4.95			
	(Arcade Game) D/S £6.95	X-Out			
	Indiana Jones & Last Crusade				
tari	(Graphic Adventure) D/S £12.95	Xenon II			
15	Indiana Jones & Fate of Atlantis .£8.75	Zak Mckraken & Alien			
	Ishar 3 £26.95				
	Jack Nicklaus Golf £6.95	Mindbenders D/S £10.95			
	James Pond (512K) £6.95	Obsession (1mb) (Demo)£2.99			
	Kings Quest 4 £12.95	MOUSE MATS			
	Knight of the Sky (XL) D/S (1Mb) £12.95 Last Ninja III £9.95	Colour Blue, Red or Black £1.99			
	ITEMS SUBJECT TO AVAILABILITY. PRICES SUBJECT TO CHANGE WITHOUT NOTICE. P&P IS FREE OVER £5.00 OTHERWISE 50P FOR P&P.				

EUROPE £2 PER TITLE. REST OF THE WORLD £3.50 PER TITLE

(Dept 1), 6 West Road, Emsworth, Hampshire PO 10 7JT Telephone: Emsworth (0243) 370600

	GAMES AND	ADVENTURE	5
GM 027: GM 097: GM 101: GM 111: GM 114: GM 119: GM 115: GM 124:	Monopoly Fatemaster Psycho Pig 2 (2 disks) The Glass Butlock of Thorg Course Angler Insectroid The Obscure Naturalist The Klingon War (Star Trek™) 1 Meg	GM 135: GM 136: GM 137: GM 138: ADV 028: ADV 009: ADV 032:	Dave Munsie Game Collection 9 great games on 1 disk HMEC Pacman Clone MAX - a mod platform game Darts 180 A Night on the Town PORK 2 Christian Adventure Heavy Bunch/Investigation
GM 133: GM 134:	Snacman (Pacman clone) Starball	ADV 052: ADV 035:	Deena Deena

	MOSIC AND MIDI	DI EGIME D
MUM 24:	Alchime Jr, Sequencer + 200 tracks mono	PACK O
MUM 53:	Kawai K1<>K2, Hi-res, 1 Mb	ANY 5 DISKS
MUM 55: MUM 56:	Yamaha SY22 Editor, Hi-res, 1 Mb Guitar Professional, learn those chords	PLEASE PHONE FO
MUM 58:	Poland 'D' sprips Sound Banks	
MUM 63:	Score Perfect - At last a score writing programme which	h works in all resolutions Meg

SPECIAL STARTER PACK OFFER ANY 5 DISKS £6.99 HELPLINE FROM 8.30am - 11.30ar PLEASE PHONE FOR DETAILS

Budget Software

	ART AND		
AAG 29:	Paintpot, best half meg package	AAG 54:	Cosmic 4 Pyschedelic Art
AAG 31:	Metafile Format Objects	AAG 55:	Cosmic Slide Show
AAG 35:	Creative Titles, Video titler	AAG 57:	Photochrome Version 3
AAG 39:	Atari Image Manager V1.96, 2 disks	AAG 58:	
AAG 38:	Crackart V1.36 Full English Manual 1Mb	3 Disk Set -	Wedding Clipart £4.00
AAG 60:	Creative Titles 2 - 1 Meg Version	AAG 61:	HP Chrome - print pics on HP deskjet
	EDUCAT	IONAL	

	EDUCA	TIONAL	
AC 01: AC 11: AC 02: AC 18: AC 20:	Maths Test for the under 10's Maths Made Easy Body Search, Basic Human Anatomy The World (Quiz) Telltale chemistry, GCSE Levels A, B, C	EAC 21: EAC 06: EAC 29: EAC 09: EAC 37:	CIA Wold Fadbook, Info on over 240 counties, 4 disks Shipwreck (Mathis Cartoon) Workout. A learning aid Chunnel (French/English) GCSE Maths
AC 19:	Planetarium WORD PROC	ESSING & D)TP

ST Writer Flite WPD 01: WPD 19: Printing Press + 15 new fonts

AC 17.	WORD PROC	ESSING & D	IP .
VPD 01: VPD 19: VPD 23: VPD 03:	ST Writer Elite Printing Press + 15 new fonts DB Writer Typing Tutor	WPD 22: WPD 24: WPD 35:	Printing Press extras DB Writer support disk Marcelle – The Word Processor
	" UTI	LITIES	
JTA 28:	Award Maker, now with 286 listed awards awards and instructions, create your own certificates	UTA 53: UTA 06:	German Translate, 27,000 words Fastcopy III + 3 more
JTA 34:	DB Master, create your own database	UTA 48:	Sagrotan Virus Killer

70,000 word spell checker UTA 01: Hitchhickers Utils with Dock Displayer 3 UTA 51:

Latest Update December 94
Full catalogue disk for £1.00 or 50p with order
Disk prices: £1.75 each. Postage included

Bloodhouse's latest offering is one of the best-looking games this year. Simon claws through the make-up to find out about the game lurking underneath.

Id games never die - they just come back five years later with better graphics on the next generation of hardware. Unfortunately, game designers never really caught on to the idea that while you can make a game look as wonderful as you like, you still have to include little things like gameplay. You have to be careful to keep the game's attraction intact - it's all too easy to ruin a game like Asteroids, for example.

impressions,

appears to

have fallen

Stardust

your opinion. Venture on through any of the other 29 levels however, and you soon realise there's a great deal more to Stardust than a quick game of Asteroids ... The game takes the standard Asteroids format: an overhead view of your ship, which offers rotation On first and thrust controls, and

fires at slowly falling objects in zero-G space on a wraparound screen. The only real gameplay differ-

into the familiar trap of reproduc-

ing an old game with a flash new

nothing to the gameplay. Indeed,

the first level does little to change

presentation but adding absolutely

ence is that everything is much larger, effectively making the area of play smaller - so every rock in Stardust is permanently in your face, demanding to be dealt with.



Having merrily played through level one of Asteroids, admittedly with

It was when Derek showed me the battle plan in his maths book that I realised this asn't exactly a profe

"The graphics are

raytraced and the

colours must have

been chosen by

close to him)"

God (or someone

graphics to salivate over, your STE suddenly remembers it's running Stardust. Suddenly, '90s game techniques click smoothly into place. This really comes into effect when

you reach the end of the first world. Instead of the odd mothership bumbling aimlessly across the top of the screen, as you'd expect, an enormous droid appears from nowhere and sweeps the

screen of... well, you, basically. After you've defeated it, you switch perspective, moving into a warp section in which you fly down the long tunnel to the start of the second world. These warp tunnels

link the five Stardust worlds, each littered with deadly mines, boulders and blades. Some can be destroyed, but others sit solidly, ripping away your energy as the

> texture-mapped walls of the tunnel slip quickly by. All you can do is shoot them or avoid them.

> Stardust looks flippin' gorgeous. The graphics are superbly raytraced, the animation is smoother

than you'll ever have seen before. and the colours must have been chosen by God (or someone very close to him). Although the backdrops are essentially just stills that add nothing to the gameplay, each

Weaponry

Although Stardust doesn't strike you as a tactical game, the addition of extra weaponry adds interest. As well as the three-way gun you begin with, which is good for general-purpose boulder destruction, you slowly build up an array of weapons, powering them up as you play. Not surprisingly, the bad guys you meet tax your ability to select the right weapon for the job, but anyway.

COMPLETED

3-way: your standard gun. Fires three bullets together, which slowly separate, giving both range and blanket. Bouncer: bullets that not only damage their target, but bounce off, hitting anything else in their way.

Plasma: a continual, far-reaching stream of plasma bolts. Does fast damage to anything that stays still long enough.

Flamer: a flame-thrower. Excellent for immersing things in fire although it doesn't quite have the same range as the other weapons.

Burster: an excellent way to kill those big, slow bad guys. Charge up the burster and fire it for big hits (but bear in mind that they do take a fair old while to charge).

Rockets: these are additional to your selected weapon, firing homing missiles from the sides of your ship to hit anything on screen.







■ The mission briefs, giving vital e on exactly what you c kill. They also help to break the

ders for the soul to realise that with a little patience and a lot

"Stardust really

is a fine tribute

as well as an

to an old classic,

excellent game in

you can work out how to kill particular baddies

who've rubbed you out every time they've caught sight of you. Every time

its own right" you get used to what you're supposed to be doing you bump into something new. This can make the game seem a little inaccessible, but it also gives Stardust enormous

longevity. You never get bored, because as soon as you manage to beat everything you've come across so far you suddenly encounter a new contender, who naturally appears equally unfathomable and merciless.

> Inaccurately na they're too busy spitting

a-special-bonus-secret-mission sublevels

So the big question here is whether Stardust manages to rework an old gameplay concept and still come up with something new. To their credit, Bloodhouse have taken a solid original concept and come up with a hundred and one modifications, making for an even better game. The bal-

ance of reflex and technique is perfect, each new encounter drawing on a different skill. If Stardust

has a bad point, it's the difficulty curve. Although you can record

your position, using the level code system, you always re-enter the game with the same number of lives as you had when you received





agent that those penthouse flats were out to go rapidly down in price.

it. If you end up approaching the third level with only one life, you'll only ever have one life unless you find another code.

But pish to such minor gripes. Stardust really is a fine tribute to an old classic, as well as an excellent game in its own right. It feels good, it looks great, and it's easily big enough to keep you playing for a long time - after all, there are 30 levels plus additional warp tunnels and optional special missions.

Stardust is the latest in a recent line of excellent, not-so-corporate releases, and it's one you must get. Not only will it show off your machine, but it'll blow your mind as well. stf

SIMON FORRESTER

teristics, movements, weak spots

As well as the standard Asteroid-style levels and the warp tunnel sections linking each world, there are a few extra bonus levels added to give the game even more spice. The first encounter of this kind appears once you've completed every level of the second world. Set underwater, you jump into your ship and explore an enormous cavern network, the fragmented walls pulsating organically as you fly past. The objective of the level is purely personal gain - it's littered with extra lives and power-ups, and becomes a race against time as your fuel level slowly drops, and is only sparingly revived by the occasional fuel pod.

provides utterly beautiful scenery

the level selection turns into an

upbeat techno track that comple-

perfectly. Events are punctuated

you have to play with the sound

And then, of course, there are the

bad guys. Whether they're aster-

oids, rockets, giant cogs from the

planet Schlop or whatever they're

all spectacularly drawn, animated

and exploded. The sheer variety of

enemies far exceeds expectations,

attraction - every level offers a new

which can only add to Stardust's

enemy, each with its own charac-

with a few words of sampled speech, making this a game that

Baddies to die for

ments the crazy, laser-toting action

The subdued music during

for your epic battle.

up. Loud.



Stardust

£25.99 Daze

≖ 0171 372 7435 STE, Falcon and

compatibles

1MByte minimum required

■ It's Asteroids!

■ With bosses

■ And warp tunnels

■ And extra weapon: ■ And special

missions ■ And everything!

■ Erm..

The world's first decent pinba computer game has finally appeared on the Falcon. Fly through space, become a rock star, travel the Wild West railroad, experience your wors nightmares and fulfil your Pinball Dreams. Dodgy, eh?

a long time coming. The nal Amiga version of Pinball Dreams appeared back in 1992 and now, nearly three years later, it's finally arrived on the Falcon. Yep, just the Falcon. Not the ST, e ZX81 and not even (cue orror) the Spectrum! Starball and the original e were tailored for the inball Dreams is the ecific pinball game. hat it's going to blast wo to infinity in terms of s, sound, speed and, oh, everything. Surely? Erm, well except that it isn't, largely because it doesn't utilise the Falcon's inbuilt technology. But I'm getting ahead of myself. Let me give you the full story...



As with Obsession, up to eight players can get involved in any one game, which means you can take your eight-way battles to extra heights. There are differences, though. Unlike the five balls you get in Obsession, Pinball Dreams

"Could easily have

been converted for

graphics lack the

the STE... The

of Obsession"

gives you just three chances to rack up the highest score possible (and thus lord it over all your mates). Such crowing is all part of the vibrancy and colour game, of course, and it' no doubt largely respon

sible for that universal impulse to have "just one more go" that makes pinball so addictive as a competitive sport

All of the tables are similar in appearance and concept. There are all the bog-standard bonuses that you tend to find on most tables, including a 'jackpot' feature common to all four. However, as with the STE version of Obsession there's no multiball option, so don't hold your breath waiting for three balls to start bouncing around the table at any one time because they won't. Pity that, especially as the Falcon version of Obsession, which is due any minute now, promises that very feature.

Lift Off!

The first table, 'Ignition', is based loosely on rocketships and the like. After a few minutes' play it becomes clear where Obsession got its inspiration - comments like 'Lost in Space' (which appear when you lose your ball) are sharply reminiscent of the 'You're Out!' message on the Bats 'n' Balls table featured in UDS' release

Lights, camera,

Like Obsession, Pinball Dreams features four themed tables for you to bang your balls around. In ascending order of difficulty they are Ignition, Steel Wheels, Beat-Box and Nightmare.

Actually, as Pinball Dreams came first, it's fairer to say that Obsession followed the trend.

The game comes on a single high-density disk (there's no swapping to be done here) and you can install it on your hard drive, which obviously speeds up the loading process. This means you spend more time playing the game rather than tapping your feet impatiently waiting for it to load.

Light Europe, USA and World Tours in turn Ball trap: collect all lit bonuses

Collect lit Tour bonuses, or jackpot with the World Tou

Light all arrows to enable LP/CD/MC and bonus modifiers

Enables European chart

Raises European chart when hit

Light all arrows to enable single, then maxi

Light all arrows to enable MOVIE bonus

Enables USA Chart

10. Light all three stars to increase bonus



already given away its Western origins, there's a Country soundtrack to remind you of its theme. Yee-ha!

Lighting up all the letters that make up the word 'fuel' enables you to blast off around the planets of course, you have to flip the ball all the way up the left ramp first. Otherwise, it's business as usual as far as the bonuses are concerned - lighting up 'warp' adds to your bonus multiplier while getting all of the letters of 'ignition' gives you the jackpot, which can be increased by hitting other bonuses.

The Ignition table is designed to be the easiest of the four, but it still presents a challenge and works well. If nothing else it serves as a gentle introduction to playing Pinball Dreams which is, of course, its ultimate aim.

Trainspotting

The second table takes you back to the days of the Old West and, in particular, the railroads. Points are easy to rack up here. You see, while the instructions state that you need to hit the left and centre ramp alternately within five seconds of each other to score a million points, you can actually get those points simply by knocking the ball twice around the same ramp - provided you do it within the time limit. Considering that each ramp can only be accessed by one flipper, the challenge of juggling flippers to hit the ball up both ramps within five seconds is lost, removing the whole point of the bonus.

Grumbles aside, Steel Wheels is still fun to play, although the fact that points can be scored so easily does detract from it slightly. That said, if you like scoring millions of points with no effort whatsoever, you'll probably love it.

Rock Chicks

The third table is based around the world of rock, and your attempt to conquer it by scoring a number one hit in both Europe and the USA. This is my personal favourite, if only because I harbour a secret desire to become a massive rock star and change the world as a result. Either that or become a dinosaur making tens of millions of dollars in 20 years' time by doing reunion concerts in America.

Various bonuses exist, enabling you to release singles, videos, albums and even movies. At the same time you're trying to rise up the European and American charts while cashing in on Euro-pean, American and finally World tours. Hitting number one in either chart scores you a massive five million points and reful, you

and, if you're not careful, you can find yourself consumed with a desire to make it as a star, along with a sad belief that playing pinball will bring you closer to your dream.

Freddy Kreuger The final table is called

'Nightmare', which has much to do with its difficulty. Unless you practise accurate shots (you know, those where the ball goes somewhere other than between your flippers), you die all too quickly. The two major bonuses

involve lighting up each of the 'graveyard' letters in turn by hitting all the RIP targets. This activates the mystery spin feature, which randomly determines whether you score extra points, get the jackpot or even receive an extra ball. The

second big bonus, which is worth five million points, is awarded every time you hit the left and right ramps in the 30 second period after reaching midnight, which is reached by advancing the timer, which you can do by hitting the ball on to a flash-

Nightmare is the tough-est table of the lot, but, like the others, you can quickly become addicted to it.

21st Century?

Pinball Dreams is an extremely competent conversion of the Amiga original, so if you're a pinball fan

with an obsessive desire to collect all the pinball games available you won't be disappointed. It hooks you like all games should and the hours literally fly by as you promise yourself "just one more go'

Nevertheless, it's a shame that the game doesn't aspire to be anything other than a faithful conversion. It doesn't stretch the Falcon's impressive capabilities, and, truth be known, it could easily have been converted for the STE. It's a more accurate rendition of pinball han Obsession, in that the tables are less 'gimmicky' and mission-ori-entated, but considering that the table designs are a major factor in Obsession's success, Pinball Dreams misses out somewhat.

The graphics are completely faithful to the original Amiga 1200 version, which sadly means they lack the vibrancy and colour of Obsession – in fact, their hues cast guite a dour shade over the proceedings at times. The music and sound effects are good, but again they don't exactly make great use of the Falcon's hardware.

Pinball Dreams has been superseded on all formats since it



ry, or just those

■ We have lift-off! Cruise the solar system with Pinball
Dreams' first table. But don't get lost in space

first appeared all those years ago (Pinball Illusions and Pinball Fantasies have taken the crown on the non-Atari computers, while Obsession reigns supreme on the STE), but it's still good fun and worth investing in, especially if you love pinball and can't wait for UDS to release a data disk full of new Obsession tables. stf

NICK PEERS

Pinball Dreams

£24 21st Century Entertainment Distributed by 16/32 Systems = 01634 710788 Falcon only (RGB) Hard drive installable

- Addictive
- Faithful conversion of the original...

- ...but perhaps too 80%
- Doesn't push the Falcon in any way



Pinball Dreams. Fro k any one of the fo (And I thought it served no useful ose whatsoever – Karen)

When we heard Kixx had rereleased the first of their Space Quest graphic adventure games on budget, we sent our very own hero out there to save the world from gaming ignorance.

oger Wilco is the chief sanitation engineer (aka the janitor) on the starship Arcada. His mission: to scrub the dirty decks... to replace burnt-out lightbulbs... TO BOLDLY GO WHERE NO MAN HAS SWEPT THE FLOOR!

That's how the packaging reads, the gag painstakingly pointed out in capitals then rammed down your throat with an exclamation mark. It's then converted into a few other languages, just to be on the safe side (und sich tapfer dorthin wagen, wo niemand je guputzt hat!). Yup, Space Quest is novel, convenient, a graphic adventure in the Monkey Island vein - a bloke wandering around accompanied by a host of cheap gags.

You play Roger Wilco, the aforementioned bloke, who's working on the Arcada when, luckily, it happens to be hijacked by Sarien stormtroopers. Not so lucky for Roger perhaps, but it makes for a

slightly more interesting game than a few hours of floor sweeping would.



Space Quest is a 3D adventure, in which you use a mouse to direct Roger around the large blue steel ship, littered with the dead and the dying. However, given that this is the first in a series of

five games, you'd expect to see problems or inconsistencies in the control system, and as it transpires they're even more pronounced than you would expect.

For example, the mouse-based point 'n' click system for moving around is only used for walking - any other actions must be initiated using the classic

text adventure method of typing in commands. This could easily have been avoided with a few icons, or active text areas, and is annoying in itself. This problem is compounded by the fact that when you are using text, the responses don't hang around on screen, instead appear-

ing and disappearing in boxes. Then there are the problems that arise when you come up against obstacles. Steering Roger around a concrete corpse or convincing him to skip around that door jam can really be a problem, especially when you're in a hurry. All of this makes problem solving

more difficult than it needs to be. because as well as all the time you spend finding objects and solving puzzles, there's the extra time

spent painfully steering toward the object you're trying to manipulate then being told you're not close enough. Space Quest would almost be easier to play if it had been programmed as a purely textual program rather than a graphic

adventure, despite all its jokes, intrigue and puzzles.



■ While the professor lay dead on the floor, Jeff decided to take a look through the music collection.

This is a problem that Monkey Island solves by presenting itself as more of a movie than a game - you just tell the ST vaguely where you want to go, and it delivers you to exactly the right spot. Space Quest, on the other hand, insists that you carry out all the petty lining up and steering yourself. Which means that you're reduced to getting stuck to walls and wondering why Roger won't move when there's quite patently nothing in his way, and why, when the ship's been overrun with marauding space aliens, he can't muster anything above a slow plod.

A good point

Of course, Space Quest does have its good points, the first being the humour which, though tiring at times, certainly helps lighten the tone of the game.

Hmm Back to the had points An adventure

■ Though all your indicators are working perfectly, I'm afraid I'm going to have to impound your ship because it clearly only has two buttons.

of this kind needs size. It's probably



Sound: on

because of its extraneous graphic interface that Space Quest has too few locations. And within those locations there are so few features. If you examine a corpse in a text adventure, you come across the standard wallet, pass card, and maybe even a gun. In Space Quest people die alone and naked - the emphasis doesn't lie in objects, but then, the emphasis doesn't seem to lie anywhere else, either.

Space Quest rides on the fact that it's a graphic adventure, while forgoing essentials like puzzles and intrique. Unfortunately, for a graphic adventure the graphics aren't any good, nor is the sound. It's a game in which you're reduced to wandering around ships and alien planets, wondering where everything is, then dying a sudden and unpredictable death. Fun. stf

SIMON FORRESTER



■ The bad guy walks on to the screen, and kills you before you have time to dodge. The game ends. That's fair.

Space Quest

£9.99 Kixx XL **≖ 0121 625 311**

■ It's fun for a while

■ A few things to explore...

■ Puzzles aren't even vaguely taxing

■ Little to see and do



■ Though it was fully functioning, Jeff couldn't shake the feeling that he looked a little silly in the cat suit. Then he noticed that the airlock was open. Goodbye, Jeff.

SPELBOUND

The quality tester played the game for a couple of minutes, then nodded with satisfaction.

"Absolutely nothing new there. Unleash it upon the market immediately."

he 16-bit computer revolution was responsible for a wealth of 3D games, massive text adventures, graphic adventures and strategy games. It also introduced a new breed of game: the ST platformer, which was instantly recognisable as making absolutely no use of the 16-bit computer's abilities. The ST platformer isn't a rare breed. A certain level of programmer seniity has been reached, at which the idea of yet another cutesy bloke running

sional object brightens up the place, as do the wobbly bad guys, who weave their predictable, brainless patterns across platforms. From this point on, you should prepare to be annoyed.

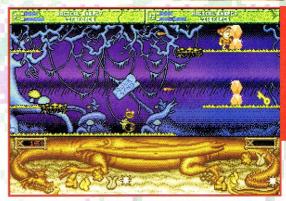
Brocolli

The control system is a masterpiece of odd joystick designation: up and down moves lifts, not your little wizard. Other actions, such as jumping and manipulating objects, are controlled by the <Fire> button.

To take a run up and jump, you have to hold a diagonal and hit <Fire>, an uneccesarily complex way to time any manoeuvre.

even think about progressing any further you need to get the hang of the way the game moves. Lifts move erratic distances, then stop, leaving you ploughing off the edge into blackness when

you thought you were still travelling upwards. Weapons describe arcs of motion seemingly designed with safety in mind, falling short before they do any damage. Aiming is a matter of standing the correct distance from your moving target and repeatedly hitting <Fire>



Ill There are a number of standard plots computer game authors insist on using in their work. Magical rescue attempts – a plot only really properly explored by Cecco in the Stormiord series – never work quite as well as they should.

until the baddie walks into the rock's path.

There are other weapons. As your manna (magic power) increases, you can use a variety of weapons, from icy blast spells to fire walls to gems. But while these extra weapons can only be used properly when your manna is high enough, there's no indication of exactly what 'high enough' actually means. Attempt them with insufficient manna and the weapon misfires, an event

represented by a whirlwind

engulfing Sortice.

This is a platformer with absolutely nothing new about it. One of those games that makes you suspect there's a computer somewhere churning these out by the hard-drive load, changing the level design fractionally and adding a different set of cutesy graphics. All the programmer needs to do is think of the twist to 'spice up' the gameplay. Spellbound's concession to gameplay is a two-player option, enabling Sortice's brother

Cerorapp to join in the simultaneous two-player fun. Psygnosis have also recognised the need for a game like this to degenerate into a fist-fight, so the ability to shoot the other player has been included. Essentially, though, the two-player option simply enables two people to get bored together, as opposed to taking it in turns.

The only area in which this game excels is monotony. You're either standing on a lift, working around a simple obstacle or falling. The fact that you can only carry one

object at a time makes the levels yet more repetitive; you have to traipse through them all over again to find the key that you couldn't collect because you were weighed down with the massive encumbrance of the first key.

Despite its obvious lack of originality as far as gameplay is concerned, Spellbound's well presented. It looks polished, if a little dull, and the sounds aren't offensive, but if you're looking for a demo of what your ST can achieve look elsewhere. stf

SIMON FORRESTER

■ He can magically throw rocks! Gasp! He can magically throw bits of metal! Gasp! He can, oh, what's the point? I've seen more magic on a Paul Daniels show.

around another set of platforms seems like a great one.

Spellbound is one of those platformers. It features Sortice the Wizard, and his attempt to rescue Poinat, his friend, by journeying through eight worlds with cheerful names such as the 'dingy dungeons of death and destruction', 'subterranean slime pits of doom' and 'domain of ghostly goings on'.

The scene opens with Sortice standing on the left of a left-toright scrolling level, built up of thin platforms, lifts and gaps. The occa-

Illfts and gaps. The occaIll Moet Arthur. He spends his time snoozing at thebottom of the screen, whereas the player snoozing the first his player for the screen in front of it.



Spellbound

£19.99 Psygnosis
= 0151 709 5755

Highs

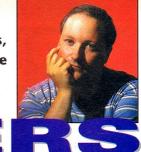
■ Two-player action

■ Two-player a

■ Dull ■ Dull 40%

pag

The new, improved ST Answers, in which we go into much more detail to give you even better answers to your questions.



Games on the Falcon

I use a 1MByte STE and I'm thinking of upgrading to a Falcon030. Will any of my old ST games, like Rainbow Islands,

Bubble Bobble and Scrabble, work on the Falcon? And will my BASIC programs with PRG file extensions work? Samuel J Carroll, Blackpool, Lancs Programs created with STOS or GFA Basic are not very compatible with the Falcon and usually crash.

There's good

news and bad

All programs gener-

Mystery Mega STE switches



I have several Atari STs including a Mega STE 4/80. Inside the Mega STE,

in front of the SIMM slots, are a row of DIP switches and a pair of empty sockets just to their right. I believe one switch enables the Desktop to be held in memory and the others control different boot-up options. I'm a bit wary of experimenting with the switches, so could you tell me what they and the empty sockets are for?

Peter Lee, Cheltenham

I've taken a quick look inside our Mega STE to refresh my memory. Yes, there is a bank of eight DIP switches in front of the SIMM sockets. Unfortunately I don't have a clue what they're for, although it's unlikely that any of them would 'enable the



■ Mystery switches in the Mega STE, at the bottom right of the motherboard. Do you know what they are for? Anyone? Please! We're completely stuck.

Desktop' as you suggest. More importantly, no one I contacted in the ST trade has a clue what the switches are for either - including Atari. I've contacted Atari US and I'm waiting for the specs for the Mega STE to arrive by post - hopefully this will determine what the switches are for.

In our Mega STE, there are no empty sockets to the right of the DIP switches. There's a couple of empty places on the motherboard where surface-mounted chips can be soldered just to the right of the SIMM sockets.



BIG ICONS?

When I boot up in medium resolution using TOS 2.06 and the DESKICON.RSC file from Cover Disk 48, I can get four icons vertically down the Desktop. However, if I modify the DESKICON.RSC file in any way, using Makeicon and Icon Juggler (also on Cover Disk 48), I can only get three icons vertically. I get this problem whether I boot from floppy or

hard drive. Is this a problem with the software or with TOS 2.06? Kevin Wade, Isle of Wight

lems on the Falcon.

Editing the icons in the DESKI-CON.RSC file shouldn't make any difference to the way the icons are displayed on screen. The display information for the Desktop icons is contained in the

Desk File Edit

CodeHead Icon Juggler - A:\DESKICON\ICONS\DESKICON.RSC

Total: 100 | Selected: 0 | Paste: 0

MIDI file















SEA

■ Once you've designed your icons for TOS 2.06, you need to sort them out. Which is exactly what Icon Juggler does for you. Clever stuff

Desk Files Icons CHMMS Erase Icon Сору Erase Mask Contou Shade Color of Icon

■ Go design crazy with Makeicon from Cover Disk 48. You can also use it to create icons for KAOSDesk, which was on last month's Cover Disk

NEWDESK.INF file, which isn't affected by either Makeicon or Icon Juggler

There are a couple of things you can check. First make sure you use the 'Save Desktop' command from the Options menu when you've rearranged your Desktop layout. If you don't save the info then you simply get the original icon layout when you re-boot your ST Alternatively, your NEWDESK.INF file

may be corrupt. Drag it to the bin and create a new NEWDESK.INF using the 'Save Desktop' command. If it's too large, the NEWDESK.INF file sometimes becomes corrupt.

Finally, make sure that your DESKI-CON.RSC file is less than 64K - TOS 2.06 can't cope with it if it's any larger. It's a good idea to restrict the number of icons in the DESKICON.RSC file to about 150.



It's certainly unusual for people to have any problems with System Solution's MiniS hard drives. They're the most reliable hard drives around.

Hopefully with those full specifications from Atari US I should be able to let you know next month.

Hard drive horror

I am having trouble with my 270MByte MiniS hard drive, which I've only had for a couple of months. I think I have a corrupted boot sector, which has led to my Drive C partition disappearing. When I open the drive window I get the message '0 bytes in 0 items' in the information bar. When I use *Diskspace* 1.07 to check the drive it tells me that the correct amount of space is available. And other software tells me that the FATs are different. I now have to boot my hard drive from floppy disk

On my other partitions I have problems like illegal cluster links, too many subdirectories and invalid subdirectories. Is there any software that can fix these problems? I've contacted System Solutions, but they simply advised me to reformat the complete drive. Surely this is a bit harsh?

Susan Carey, London SE25

every time.

Unfortunately, Susan, it looks as though the data on partition C is gone for good. There's little or nothing you can do to fix the problem and recover your data. And judging from your other comments, it looks as though you may lose the data on your other partitions if you aren't careful.

I know it's a pain, but you'll have back up your partitions to a large heap

of floppy disks and reformat your hard drive using your ICD software. It's the only solution, I'm afraid. If you still have problems with the drive after reformatting it may be because of a physical problem with the drive itself. Contact System Solutions & 01753 832212 and they should replace the drive if it is less than a year old.

Get Diamond Edge from HiSoft AVR (£49.95 & 01525 718181). It's the best hard drive diagnostic and repair software you can get for your ST. Use Diamond Edge for a weekly diagnostic report and if you find any problems then you can fix them immediately. I always use Diamond Edge at least once a week to check my hard drive – after all, the data on it is vital.

You can also use Diamond Edge to format your hard drive, make back-up copies of your data and undelete accidentally erased files. It's a great tool.

Oh, by the way. According to the printout you sent me you have one partition of 26,336 bytes and five of 100,494 bytes. This means that you have a 516MByte drive, not a 270MByte drive – unless the data is really screwed up.

Cheap and nasty



I've been having a lot of trouble recently with my Internal disk drive. It

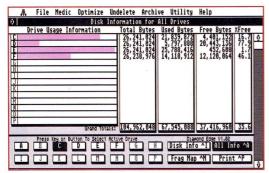
refuses to read certain disks, and flags them as being faulty. The bizarre thing is that my external drive can read the disks with no problems.

I was about to replace the internal drive when I realised that all the disks I was having trouble with were cheap, unbranded disks. Since I've transferred the data to new, branded disks I haven't had any trouble.

What puzzles me is that the dodgy disks were read easily by Drive B, but reported as being faulty by Drive A. What's the reason for this? Brian Douglas, Morecambe, Lancs

A

Well, the main problem you had was with cheap,



■ Get yourself a copy of Diamond Edge from HiSoft/AVR and use it regularly! It's the best hard drive fault finding and repair program you can get for your ST.



■ Obsession. When a game designer says a game is STE-only, he means it, I'm afraid!

unbranded disks. You've solved that problem yourself. If your ST is an older model then it's possible that the read/write head in the disk drive is slightly out of alignment. This means that it's harder for the drive to read data from disks that were formatted before the head went out of whack, or in another drive, but your external drive can read them perfectly.

Similarly, if the data on a disk is slightly damaged or corrupt it's harder for an out-of-alignment drive to read the data than a perfectly aligned drive. You may find that you start to have trouble reading disks again in the future. If that happens, you should consider getting a replacement internal drive for your ST. We've reviewed a high density internal drive kit on page 39.

Having a blitter bother



If I had a blitter chip in my 4MByte STFM would it enable me to run STE-only

games like *Grandad* and *Obsession?*Does fitting the blitter chip change an STFM into an STE?

D J Barnett, Stoke-on-Trent

No, having a blitter chip installed in your STFM doesn't magically turn it into an STE. After all, if you put a Mondeo engine into a Mini, the Mini doesn't become a Mondeo. When games and other software are labelled 'STE-only' it means it only runs on the STE or better. The software won't run on older systems like the STFM.

Upgrade crazy

I have a 520STFM which I want to turn into a Falcon030. Then I want to turn it into a Lighthouse Tower and add a CD-ROM drive and 14MBytes of RAM. Is this possible, and if so, where do I get everything from and what will

Darren Brown, Brighton

it all cost?

Eh? (Checks date on letter to see if it's an April fool joke.) Sorry, Darren, you can't change your STFM into a Falcon030, but you can change your STFM for a Falcon030.

To get everything you want for your upgrade, call System Solutions on

■ 01753 832212 and tell them exactly



Loads of luurvly Falcon stuff. And no matter how much you pay me, I won't tell you to buy a Mac and use MagiC Mac instead. So there. (Pointed comment Clive? - Karen)

what you want. They'll doubtless be happy to quote you a price for the system you describe.

Here's a rough quide to the prices. A Falcon030 with 14MBvtes of RAM. 14-inch mono monitor and 1 GByte hard drive costs around £1,800. The Lighthouse Tower case costs about £200 and an Apple 300e CD-ROM drive costs about £290 for the Falcon030. That's a grand total of £2,290. And the best part of the deal is that you don't have to aet rid of your STFM.

Dead ST

I have a 1040STE which stopped working when I was loading a picture. I

have checked the power cable and the fuse in the plug and they are okay. There is still no power getting through to the ST, and the power light doesn't come on

Lawrence Stromski, Barnstable, Devon

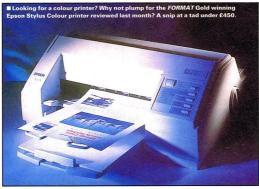
It sounds as though you have a problem with the power supply unit (PSU) inside your ST. It could be as simple as an internal fuse blowing or the whole PSU may have failed. You need to get a replacement PSU or have your STE examined by a repair centre.

Analogic Computers have an excellent repair service for £59.95 and a next day courier collection service for an extra £6. Give them a ring on ☎ 0181 546 9575 and explain the problem. They'll be happy to give you advice.

In living colour



I've just got a 1040STE and a Philips 8833Mk2 colour monitor. I want to buy a



colour printer, but I've been told that no printer drivers are available for colour printers and the STE. Is this true? What colour printer would you recommend I buy?

James Quinn, Omagh, Co Tyrone

While it may be true that many early paint programs for the ST don't support colour printing, most of the new paint packages - such as True Paint - do. Even if you have an older program like Degas Elite or NeoChrome, you can always use Imagecopy Colour 3.5 CD (which scored 93% last month) to print in colour. It's available from FaST Club = 0115 945 5250 for £34 95

It must be stressed that Imagecopy only enables you to print graphics files - you can't use it to print word processor or FTP files in colour. If you use software that's compatible with SpeedoGDOS 5.0 (from Compo Software = 01487 773582), like Papyrus Gold and AtariWorks, you can

use the SpeedoGDOS printer drivers to generate colour output. The drawback

least 2MBytes of RAM installed to use it. It's difficult to recommend one colour printer over another. All of the Star range of colour printers are very good, as is the Canon BI600 colour and

with SpeedoGDOS is that you need at

the Hewlett Packard 500C. It's up to you whether you need dot matrix or inkjet output. The 24-pin dot matrix printers produce very good output, but not quite up to inkjet standard. Inkjet output, however, can be messy if you pick up the hard copy before the ink is dry.

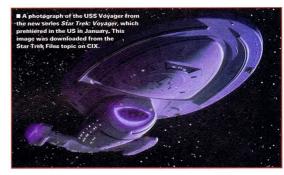
Give First Computer Centre a call on a 0113 231 9444. They have a range of colour printers available, which start at £145 for the Star LC240C 24pin colour printer.

Expensive BBS

I know what a bulletin board system is, but when I logged on to CIX it asked me for my credit card number. I thought BBS services were free.

Vernor Vinge, Erdington, Birmingham

CIX stands for the Compulink Information eXchange – it's not a standard BBS. CIX is a commercial on-line service offering millions of items of data on thousands of subjects. There



THE MACHINE GHOST

I'm having a small problem with my mouse. When I'm at the Desktop or in response. When I move it down the pointer goes up, and when I move it up the pointer moves down. I have tried three different mice but the operations. I think I have a problem with my ST - can you help? Karl Gosling, Sudbury, Suffolk

You've just perfectly described the actions of the Ghost virus. It copies itself to ten disks before reversing the vertical mouse pointer operations, which is why it seems to most of the unprotected disks in your collection are probably infected.

as the Ghost virus hasn't infected any of your commercial game disks. If it has, the the virus has destroyed the boot informa-

There is however a solution to your prob lem. Turn to the ST FORMAT Reade Offers on page 69 and order Ultimate Virus Killer (UVK6) for the bargain price of £9.95, then use UVK to go through your software collection disk by disk and erase the Ghost virus. Be sure to check every disk, because if you miss one disk you could re-infect the lot.

Whatever you do, don't use UVK to check commercial game disks that currently

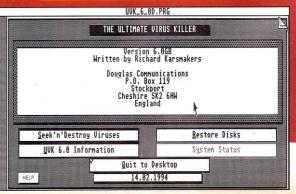
work. If you immunise a game disk you can destroy it as effectively as a virus does. Luckily, UVK can repair any game disks the virus has damaged, and it's updated every three months.

your complete software collection - and it's a long, boring job - follow these ten tips to prevent re-infection..

■ It's dead easy to use UVK6. Just point, click and destroy all known germs.

1. Keep all disks write-protected until you need to save data on to them.

- 2. Buy Ultimate Virus Killer 6 from Reader Offers (page 69). Now.
- 3. If you can't afford UVK 6 (it's only a tenner!) then get a PD virus killer. 4. Check all new disks you get from your friends or PD libraries. You never know
- what may be lurking on them. 5 Remember that some viruses can infect your hard drive.
- 6. Thinking "it'll never happen to me" is just asking for it.
- 7. Never use a virus killer on a commercial game disk, 'cos you'll erase it.
- 8. Always back up important floppies.
- 9. If you don't have a commercial backup program use Back Up, which is
- included on the Cover Disk every month. 10. Never use a virus killer that just
- blanks the boot sector. Many programs store code in the boot sector.



SOFTWARE	Error number	Message	
Por.	1	General error	
	2	Drive not ready	
	3	Unknown command	
353	4	CRC error-disk checksum wrong	
	5	Bad request	
	6	Seek error-track not found	
	7	Unknown media-boot sector wrong	
1000	8	Sector not found	
	9	Out of paper	
	10	Write fault	
	11	Read fault	
	12	General error 12	
-	13	Disk write-protected	
	14	Media change detected	
	15	Unknown device	
-	16	Bad sector (verify)	
	17	Insert other disk (request)	
	32	Invalid function number	
	33	File not found	
	34	Path not found	
1	35	Too many open files	
	36	Access denied	
	37	Invalid handle	
L	39	Out of memory	
m	40	Invalid memory block address	
70	46	Invalid drive specification	
-	49	No more files	
HOSE TOS ERRORS IN FUL	64	GEMDOS range error-seek wrong?	
	65	GEMDOS internal error	
F	66	Invalid executable file format	
200	67	Memory block growth failure	

is a standard quarterly charge and charges for the time you spend on-line. This means that you're charged by the minute for the time you spend connected to CIX, and you also have to pay the phone bill for the time you spend connected. Using CIX during off-peak periods will keep the cost of your phone hills down

Many people think CIX is a part of the Internet but it's not: it's a completely independent service. However, you can use CIX in a limited way if you want to access certain features of the Internet using a gateway – a link between CIX and the Internet. Using the gateway, you can send e-mail to and receive email from the Net, use ftp mail and access Usenet newsgroups.

CIX is a very useful service, offering plenty of official on-line help and support from software houses. There are also hundreds of special interest areas ranaina from music to science fiction and TV. Whatever your interest, there's probably an area on CIX devoted to it.

If you want to connect to a free BBS, why not try AdLib? It's run by Andy Curtis and Frank Charlton and has special ST FORMAT support and chat areas. The BBS runs on an ST at speeds of up to 14,400baud, 24 hours a day. You can connect to the AdLib BBS by dialling ≈ 0191 370 2659 with your modem.

Who gives a TOS?



I've been getting weird messages from my ST when using some pro-

grams. What are TOS Error #34 and

TOS Error #39? What do they mean? Where can I find a list of the TOS errors? I'm quite new to using computers and I'm completely baffled by these strange messages.

M Davies, Newton-le-Willows, Merseyside

The TOS Error messages are there to let you know that your ST has a problem with the software it's running. Unfortunately, the ST user manual doesn't actually tell you what the error messages mean.

TOS Error #34 means 'Path not found', which means your ST has become confused and can't find the directory path it was expecting to use. This usually occurs after swapping disks when you're at the Desktop. The directory information is supposed to be updated whenever you swap disks, but sometimes it doesn't notice that the disks have been swapped. Pressing the <Esc> key at the Desktop after changing disks forces your ST to read the drive.

TOS Error #39 means 'Out of memory', which is often another directory-related problem. This time your ST is trying to store more copies of the directory information than it has room for. When it tries to store more directory information in the area of memory assigned to store this information, it can't, and gives you the 'Out of memory' alert. The fix for this problem is to order the Folder 100 program from any PD library and install it in your Auto folder. This program increases the amount of memory available to store directory information.



Install your own Audio Out port on your STFM using our DIY feature from issue 62. Oh yes, we certainly revel in our techie-ness here at ST FORMAT.

Sound output



Is there any way I can connect external speakers to my STFM? I need the

speakers so I can listen to MOD files properly in stereo. I'm not worried about having to take my ST apart or do any soldering.

Karl Gosling, Sudbury, Suffolk

You can add external phono sockets to your STFM using the DIY project featured in ST FORMAT 62 (turn to page 79 if you missed it). Performing the upgrade should take about 45 minutes.

The only problem is that the sound output is restricted to mono because the STFM just doesn't have stereo capability. You could always link two phono sockets in parallel or use a phono line splitter to give you two (mono) connections.

Memory, not disk drives!



Calamus 1.09N?

I have a 520STE and I'm getting an external 1MByte drive. When I get the drive, does this mean that I can then run 1MByte software like

Bruce Gibson, Bellshill, Lanarkshire

Sorry, Bruce, but adding a 1 MByte external drive doesn't increase the memory of your STE. The software you refer to requires 1MByte of memory chips installed, not an external double-sided disk drive. Remember that your STE already has a 1 MByte internal

double-sided disk drive. You can increase the memory in your STE to 1MByte by adding two 256K SIMMs - small memory boards that plug into two empty sockets inside your machine. Call Compo Software ≈ 01487 773582 and ask them about their STE SIMM memory upgrades and explain that you want to increase the RAM in your STE to 1MByte. The upgrade kit only costs £9.99 and comes complete with full fitting instructions. The whole upgrade takes about 25 minutes to install.

Second drive



I'm thinking of buying an external disk drive but I'm not sure how to install the

new disk drive icon on to my ST's Desktop. Do I need to install it using a special GEM Desktop menu? Will I still get the message 'Insert Disk B into Drive A' in the same way as I do now when I use Drive B for file copying? Paul Levy, Newport, Gwent

The GEM Desktop always displays two disk drive icons even if the internal drive is the only disk drive connected. If there isn't an external drive connected you get the 'Insert Disk B into Drive A' message you mentioned when you click on the Drive B icon. This is because the operating system acts as if there are always two disk drives connected. When you click on the Drive B icon on a single-drive system the operating system asks for the Drive B disk to be inserted. This 'virtual' Drive B is present in the operating system to make it easier to copy files from one floppy disk to another on a single-drive system.

All you have to do to install an external disk drive is connect it to the external drive port. When you power up your external disk drive and your ST - in that order - you can access a floppy disk in the external drive by simply clicking on the Drive B icon on the Desktop.

There's no need to install the drive using any software. The operating system of your ST automatically detects when a second drive has been connected to it, and will automatically route all Drive B disk access directly to it. That's all there is to it! stf

AND FINALLY...

No, not a strangely shaped vegetable or a dog that says "Sausages". Just a plea for help from Ken Smart in Derby and another from Robert Lambert from West Newbury in the US.

Ken says: "I'm looking for information about a hard drive controller: the Atari ST 506 I/F made by PCML Ltd, 1987. If any ST FORMAT reader has any information I would be happy to reimburse them for any help they can give me." Well, there

you have it. If you can help Ken then drop him a line at: 130 Boulton Lane, Alvaston, Derby DE24 0FG.

Robert Lambert is a new ST owner living in the US. He has several STs and wants to know if there are any ST user groups he can contact in the USA. If you know of any, let us know at ST FORMAT, or write to Robert at: 470R Main Street. West Newbury, MA 01950, USA.

Send your ST Answers questions, hints and tips to Clive either by e-mailing him at: cparker@futurenet.co.uk or clive@netmag.cityscape.co.uk or post them directly to: ST Answers, ST FORMAT, 30 Monmouth Street, Bath, Avon, BA1 2BW.



Our resident assembly expert, Tony Wagstaff, straps on his Gucci chaps and prepares to ride off into the distant data planes, his horse kicking up clouds of logic as it thunders across the horizon.

Assembly Pointers

File facts

Can you tell me how I check whether or not a file exists? If it does, how do I then find out its size and date, and whether it is read only or not?

R Shore, Darlington

There are various ways of checking for the existence of a file. Using the Gemdos Fsfirst call is one of them, and since this also returns the file's attributes, including date and file size, you might as well use it.

The information is returned in a structure called the DTA or Disk Transfer Address. The first thing that must be done is to set up our own DTA, using the Fsetdta call. If we don't, then Fsfirst function will overwrite some important system information, and that could land us in deep trouble. And you don't want that.

rsreset
rsvd rs.b 21
fattr rs.b 1
ftime rs.w 1
fdate rs.w 1
fsize rs.l 1
fname rs.b 14
sizeof_dta rs.w 0
sizeof_dta rs.w 0
move.l #Dta,-(sp)

■ Zero-5 is a good demonstration of just what you can do in machine code. It also helps to pretty the page up a bit.

GRIGER:

G

move.w #\$1A,-(sp) trap #1 Fsetdta addg.1 #6,sp

bss

Dtads.b sizeof_dta

The above listing shows the format of the DTA. The first 21 bytes are reserved, the next byte holds the file attributes, bit 0 indicates a read-only file if set, bit 1 a hidden file, bit 2 a system file, bit 3 a volume label, bit 4 a subdirectory and bit 5 indicates the archive bit is set. The next long holds the time and date, followed by the file size. Finally comes the filename itself.

Once you've relocated the DTA you can call Fsfirst. This takes two parameters, the address of the path of the file (if you only specify the filename, without the path and drive, then the current directory will be assumed), and a word value, with the same format as the file attributes. Fsfirst will only return information about those files that have one or more of the attributes specified in this second parameter. A listing using Fsfirst looks like box one. If the search is successful, d0 will contain zero, otherwise a negative GEMDOS error, which is how you check for the file's existence. This will be -33 if the file couldn't be found, or -34 if the path couldn't be found.

It's worth knowing that you can use the * and ? wildcards in the file specification. Used in conjunction with the Fsnext call, you can search for a number of files in a directory. Say the filepath is D:\FoLDER***, calling Fsfirst returns the first file in the \FOLDER\ directory, check d0 for zero to see if one exists. If successful, you can then call Fsnext over and over, until it returns non-zero in d0, for a complete listing, as in box two.

If you have any questions about assembly programming, send your queries to Tony Wagstaff at: twagstaff@cix.compulink.co.uk Now you use Fsnext to look for the next file, as in box three.

Register corruption

I want to accept key input for a filename, print each key press on the screen, then store the key in (a0) to use later to load the file. However, I can't figure out how to move the key into (a0) after I've printed it to the screen.

Malcolm, bolton.ac.uk

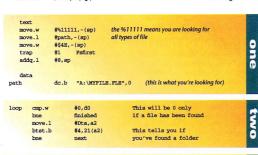
Malcolm is using the Gemdos call Cconout to print each keypress to the screen, after he's collected the keypress in d0. An important point to remember about Gemdos calls is that they use registers a0-a2 and d0-d2, so the values they hold are likely to be different after the trap command.

Since they are corrupted in this way, they are not much use fo rising values. This means that the value of the keypress needs to be moved out of d0, and an address register other than a0-a2 needs to be used as the filename pointer instead.

Perhaps an easier way of inputting a string in this way would be to use the Gemdos Cconrs call, because this automatically echoes the keypresses to the screen, and handles backspaces, deletes, and so on, as well as being able to specify the maximum number of keypresses. Better still for inputting a filename, use the AES file selector with the fsel input call.



■ We love technical grabs, we do – this one's of X-Debug, an essential coding tool, reviewed in issue 66.



#\$4F,-(sp)

#2,sp

addq.1

next



Mac Marsden has been answering your GFA queries for years now, so this month we gave him the chance to impart a few hints and tips that you should follow when programming in any language, particularly GFA Basic.

GFA Answers

o you know a little about GFA Basic. You've struggled for months - perhaps years - on little bitty routines, and now you're wondering how to put it all together? The answer may surprise you - turn off your computer! Yes I know it seems like a backward step, but in the long run it makes everything easier.

What you need to do is sit down and create an outline of what your program is to do. In the diagram called 'The Initial Idea' you can see a small flow chart showing the way the program works, and it's from this small beginning that the final program will spring into life. For the example, what the program actually does isn't important.

I've called the procedure in the example LOGO, and you can see that it's an introduction screen to the program (see the 'Expanding LOGO' diagram). In the expanded window you can see that I've noted down everything that I want to occur in the procedure, and again, it's still written in plain English. The next step is to write out the code for the procedure on paper, working out screen co-ordinates and the placement of all text and prompts. This could be written as we've shown in box one.

Now you can type in the procedure, knowing that the text output will be placed in exactly the correct position the first time the

UNTIL K\$>""

RETURN

program runs, and that you're not going to have to spend hours altering the co-ordinates of the PRINT AT commands to get things right. As you can see in 'The completed LOGO screen', the final output is where we require it to be.

It's a good idea to use a grid showing the pixel and text column layout of the screen under a sheet of plastic. This enables you to mark positions for your current program, then wipe it clean ready to design the layout of your next program. This really does make programming easier and less time-consuming.

Keeping track

What happens a year after you've written your program and a friend wants a customised version of it for himself? Well, if you haven't annotated your program it can be surprisingly difficult to remember what the code actually does.

It's for this reason that you should note what each section and each variable does by using REM statements within the program. Yes, it's another of those annoving jobs that you usually can't be bothered with, but you probably won't remember what your code does otherwise, particularly if it's a large and complicated program. Getting into the habit of making REM statements will also help you in the future, especially if you're thinking of becoming a professional proTAGO MATN MENU END PROCEDURE LOGO ' NO COLOUR CHANGE REQUIRED, USING DEFAULT HI-RES PRINT AT(28,10); "ST FORMAT'S - NEW TEXT EDITOR" PRINT AT(33,12); "Author: Mac Marsden" PRINT AT(10,15); "This program is shareware with some functions disabled, PRINT AT(10,16); "like a full working copy please send \$15 to anyone at ST PRINT AT(30,20); "Press any key to continue." A\$=" REPEAT A\$=INKEY\$ UNTIL A\$>"" CLS RETURN PROCEDURE MAIN MENU PLACE YOUR CODE HERE

grammer - no matter which lanquage you choose to work in.

Take a look at the example in box two and you can see that even a small piece of code is easy to follow if it's annotated and labelled. But while it's much easier to see what the code does if notes have been added, it's pointless annotating commands like: CLS or: PRINT AT(10,20); "Press any key to start program." because these commands are obvious and don't require further explanation.

More hints

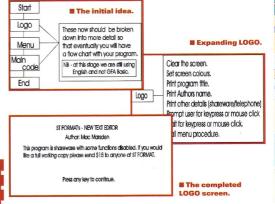
While designing and coding your program keep all the bits of paper you've used either stapled together or in a folder, no matter how small and insignificant they may seem. The smallest note you made at the time you wrote the program could become the most important piece of paper in the world if you can't find it. Also, keep back-up disks of your source code with your documentation as well as in your back-up disk box. Now the fun begins...



Okay, that's got your full and undivided attention. If you

or send me an e-mail at: mac@mentor.demon.co.uk

would like me to look into a GFA Basic problem in more detail





■ A Sugar Cubes logo, which we downloaded from the Internet.

There's loads of stuff like this out there if you take the trouble to find it.

Andy Curtis, our music guru extraordinaire and Ad.Lib SysOp, this month dips his toes into the frenzied world of music and MIDI on the Internet.

Music & MIDI

he Internet is a vast resource for all kinds of data and a great way to exchange information in general, but what does it have on offer for us musicians? Ready yourself for a once-only, whistle-stop tour of music resources for you and your ST on the Internet.

Newsgroups

As you may be aware, newsgroups on the Internet can contain files as well as messages. This is achieved by UUEncoding file archives so that they can be transmitted as plain text. The UUE files can then be easily converted by using Esscode on your ST. Let's have a look at the newsgroups available.

alt.binaries.sounds.music

Excerpts from a wide variety of music, including chart music and albums, all in the form of sound samples. These are often in WAV format but Soundlab on your ST will cope with them effortlessly.

alt.binaries.sounds.mods

We downloaded a few MODs from here and they made great listening. Play them back on your ST using Juke Box or U_Track.

alt.binaries.sounds.midi

Just what it promises: loads of MIDI files to grab and load into your sequencer. Be sure to contribute



your creations as well – that's what the Internet is all about.

alt.music.? & rec.music.?

These are two big series of newsgroups. Between them they cover almost every aspect of music and MIDI discussion. Some groups are dedicated to a particular artist, some to a style of music and others to specific software.

alt.steinberg.cubase

All about, er... Cubase. Remember that Cubase is available for a number of different computers and not all the comments will directly relate to the version of Cubase you have.

Mailing lists

A mailing list is much like a newsgroup, only it uses the Internet e-mail system. Once you have subscribed to the mailing list you will receive all the messages people write, but as personal e-mail. One example of a good mailing list to be on if you have an interest in Cubase is the Cubase-users mailing list. You can subscribe by sending e-mail to: <a href="mailto:rmailto:cmailto

You should get a reply back very quickly because this is an automated server. Along with the reply telling you that you've been added to the list you will also receive a FAQ (Frequently Asked Questions) list for your information.

FTP sites

There is a wealth of MIDI files, lyrics files, pictures and other music-related stuff to be found on the Internet. Here's a quick taster.

ftp.mcc.ac.uk

This is the site for the latest Notator

■ A pic we found on ftp.uwp.edu. 808 State live on, if only in cyberspace.

Light Patch List	M TOWNSON
1 Acoust Piano 24 Bandneon 47 Harp 70 English Horn 93 Pad Bowed 116 WoodB	lck
2 Bright Piano 25 NylonGuitar 48 Timpani 71 Bassoon 94 Pad Metal 117 TaikoD	um
3 Elec Grand 26 AcoustGuitar 49 Strings 72 Clarinet 95 Pad Halo 118 Melod	om
4 Honk Tonk 27 Jazz Guitar 50 Slow String 73 Piccolo 96 Pad Sweep 119 Syn Dri	ım
5 Rhodes Elec 28 El GuitrStrat 51 Synth Str1 74 Flute 97 Ice Rain 120 RevCyr	nbl
6 Elec Piano2 29 El GuitrMute 52 Synth Str2 75 Recorder 98 SoundTrack 121 FX-Fret	S
7 Harpsichord 30 OverDriveGt 53 Choir Aahs 76 Pan Flute 99 Crystal 122 FXBrea	th
8 Clav 31 Distort Guitar 54 Voice Oohs 77 Blow Bottle 100 Atmosphere 123 SeaSho	re
9 Celeste 32 Harmonics 55 Synth Voice 78 Shakuhachi 101 Brightness 124 Tweet	
10 GlocknSpiel 33 AcoustBass 56 Orch Hit 79 Whistle 102 Goblin 125 Telepho	ne
11 Music Box 34 FingerBass 57 Trumpet 80 Ocarina 103 EchoSweep 126 Helicop	t
12 Vibraphone 35 PickedBass 58 Trombone 81 SquareWave 104 Sci Fi 127 Applaus	se
13 Marimba 36 FretlessBass59 Tuba 82 Saw Wave 105 Sitar 128 Gun Sh	ot
14 Xylophone 37 Slap Bass1 60 Mute Trumpt 83 Calliope 106 Banjo DRUM #S	
15 TubularBell 38 Slap Bass2 61 French Horn 84 Chiff Lead 107 Shamisen 1 Standard	
16 Santur 39 Syn Bass 1 62 Brass Sect 85 Charang 108 Koto 9 Room	
17 Home Organ 40 Syn Bass2 63 Syn Brass1 86 Voice Lead 109 Kalimba 17 Power	
18 Jazz Organ 41 Violin 64 Syn Brass2 87 Fifth Lead 110 Bagpipe 25 Electroni	C
19 Rock Organ 42 Viola 65 Soprano Sax 88 Bass / Lead 111 Fiddle 26 Rap Tr80	8
20 ChurchOrgan 43 Cello 66 Alto Sax 89 Pad Bell 112 Shanai 33 Jazz	
21 Reed Organ 44 ContraBass 67 Tenor Sax 90 Pad Slow 113 Tinkle 41 Brush	
22 Accordian 45 Tremolo Str 68 Baritone 91 Poly Syn 114 Agogo	
23 Harmonica 46 Pizzicato 69 Oboe 92 Pad Voice 115 SteelDrum Ok	

and Cubase upgrades. Look in the directories /pub/emagic and /pub/cubase respectively. There's also a whole load of midifiles here in the directory /pub/midimisc/smf.

src.doc.ic.ac.uk

Here you can find all the files from the vast University of Michigan archive, except they're on a UK server that's easy to access. Here are the paths you need to use:

/computing/systems/atari/umic h/Music

MIDI and music utilities for your ST.

/computing/systems/atari/umic h/sound/sounds Sound sample files.

ftp.uwp.edu directory /pub/music

This is a great site for all things musical. Check out the pictures we downloaded from here, but also take time to explore the FAQs, reviews, song lyrics and press releases. They're worth it.

ftp.funet.fi directory /pub/sounds/midi

If you want stacks of MIDI files then here's the place to be. You would be

■ A complete program number list of GM sounds. Now you know exactly which sound is indicated by each GM program number.

well advised to download the index file first, because the contents of many of the files aren't obvious from the file names.

A word about MIDI files

Often, you'll be presented with a list of tracks and given no indication which instrument or voice should play for each one. If you have a General MIDI synthesizer or module then the sounds are assigned for you. We've included a list of GM (General MIDI) program change numbers and voices to help you set up your sequencer for GM file play-back if you don't happen to have a GM instrument. They're in the picture just above this column – so get your magnifying glass out!

If you have any MIDI and music queries or information, you can e-mail Andy Curtis at: acurtis@theshack.demon.co.uk, or send your queries by snail mail to ST FORMAT.



In the absence of a mailbag bulging with STOS questions. Frank Charlton branches off to answer some of the comms questions you've asked since we ran our big Internet feature in issue 65. Next month STOS will be back too.

alt.queries.net

Caught in the net

I've just got an Internet account with Demon after reading the article in STF 65, but I've been having problems with the KA9Q software supplied. When it runs, it starts to dial my modem, and I hear the modem make a connection, but I don't see anything on screen other than a NET> prompt. What do I actually do?

Duncan Andison, Whickham

KA9Q is a multi-session program - it launches the modem dialler then moves to another session. This means you don't actually see what's going on. It's easily solved though. As soon as you hear your modem's dialler kick in press [F10] then [Return]. This switches KA9Q to the session that's dialling, and you should see the normal connect strings from the modem displayed. As soon as you've seen the string HELLO returned by Demon's host computer, press [F10] again (or wait a bit) for another NET> prompt, and away you go.

PC modems

A friend has just given me a PC modem to use with my old PC, but I would rather use it with my beloved STE, since that has a hard drive, Can I hook it up to my ST or am I doomed to use my old and slow PC? Linda Li, Wetherby

Since you don't say if it's an internal or external modem you have, it depends. If it's an external modem - a separate boxed unit with its own power supply and cables - then the answer is yes. All you need is a standard RS232 cable to connect it to the serial port on your ST. If it's a PC internal modem, looking like a small circuit board without a box,

We haven't covered any STOS questions this month, but don't stop sending in your STOS queries. Send 'em to us and Frank'll do his utmost to answer them in the pithy style for which he's noted.

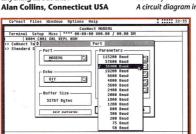


■ External modems are getting cheaper, 28,800 is the latest standard. Keep an eye out for this US Robotics Sportster.

then you can't. Internal modems interface with the PC's expansion sockets inside the machine, and get their power and RS232 connections from there - there's no way to connect them to your ST. Use it with the PC or sell it and buy a cheap external modem.

Serial killer

I notice that modems supporting the new V.Fast and V.34 speeds of 28,800 are getting cheaper now. I'd like to use one with my ST, but I've noticed that the serial port only goes as high as 19,200. I was told there's a way round this, but that it involves a DIY circuit. Do you know anything about this?



The lovely Avalon shell for BBS network points, available from your

favourite ST BBS

There is a hardware modification you can make which gives your ST a serial port capable of 38,400. It does involve soldering, as well as cutting a leg on one of the STs chips, so it isn't for the faint-hearted. The parts you need cost about a fiver, and can be picked up from any electronics store like Maplin. A circuit diagram in IMG format shows

you what to do, and most BBS systems will have it, or if you have Internet access you can ftp the file from

It can be done. A serial port running at 38,400 can be yours. Oh yes.

ftp.demon.co.uk/pub/atari/utility/38000portmod.lzh. You'll need a compatible serial-port driver like HSModem (from the same ftp site) and a comms package that supports it, such as CoNnect or STarcall.

What's the point?

I want to set up a point system so I can collect messages from Networks like NeST and AtariNet from my local BBS, and read and reply to them off-line to save money. My SysOp is willing to help me, but I don't know what I need.

Paris Fattabeis, Athens

A point system is sort of a mini-BBS with only one user, and is more complex to run than using an offline reader. You'll need: a mailer program, such as BinkleyTerm or Semper, to collect and deliver the mail from the BBS; a 'mail tosser' to process the mail into a format you can use, such as IOS or JetMail; and a mes-

sage reader like LED. Your SysOp can find these programs for you, and I don't have anywhere near enough space here to cover the complexities of setting them up, sadly.

What you might also want to consider is a 'shell' program to make it all easier, such as the wonderful AVALON. Users in message echoes such as the NeST Comms echo will certainly help you - I lurk in there myself - and once you're going, you'll find it's a rewarding way of keeping in touch with the 'nets. stf

Contacts

Internet

frank@tachyon.demon.co.uk NeST 90:100/308.2 **AtariNet** 51:6/208.2 **FidoNet** 2:256/502.28

TWIST 2:

HOW TO COMBINE DATABASES

Nick Peers demonstrates that combining databases in the powerful yet easy-to-use *Twist 2* isn't as difficult as it might seem. The smug git!

et's be honest. Twist 2 (STF 65, 83%) lost Brownie points because when it comes to actually combining two databases, the program and the manual just don't tally. You might have followed the manual to a tee, but you still find yourself left cursing when one of the two files refuses to play by the book. Combining or linking two databases enables you to keep different sorts of information in different databases, but pull information from files in one database into linked files in another.

In the example below, we use two separate databases entitled COVRDSKS.DB and PDREVWS.DB. The first contains information about what software has been featured on our Cover Disks, while the second contains info on all the PD software we've ever reviewed. When linked together they enable the user (in other words, Cover

Disk Editors everywhere) to find out whether any Cover Disk software has ever been reviewed in Public Sector and, if it has, in which issue, and what mark it received.

So without further ado, load up your copy of *Twist 2* and get the two files you want to link ready for action. Before you know it, your database will be even more useful than you ever dreamed possible!

If, by some strange tangle of fate, you haven't got a copy of *Twist 2*, give HiSoft a call on \Rightarrow 01525 718181. It's only £59.95, so don't delay, buy it today! **stf**

LINKING TWO FILES TOGETHER













Having given away the powerful *KAOSDesk* on last month's Cover Disk, Nick Peers shows you how to set it up exactly as you want it.

Rands sk Files Show Sort Options HAME 81:12 Filospyst sk Filospyst sk Filospyst sk Files Show Sort Options HAME 81:12 Filospyst sk F

CUSTOMISE YOUR KAOSDESK DESKTOP!

he beauty of any desktop is the way you can configure it to work better for you. We're pretty choosy about what we'll put on our Cover Disks, but we gave away KAOSDesk 2.1 last month because it takes the bog-standard ST desktop and adds enough features to make you wonder how you ever survived without it. There are too many to list them all, but you can, for example, format disks to your chosen number of sectors and tracks, and it enables you to use new keyboard short cuts for things like getting around your desktop and opening files. For example, you can switch between different drives by holding down <Control>,<Shift> and the drive letter.

Here, we're going to concentrate on how you can configure the desktop itself. Like the standard Atari Desktop, KAOSDesk enables you to create, move and remove desktop icons for all your drives, floppy, hard or RAMdisk. But you can also store programs on your KAOSDesk desktop, enabling you access without searching through drives and folders. Here's how.

How do I assign a program to an icon?

If your desktop looks bland, inject variety into it by assigning icons to filenames, enabling you to distinguish between different types of programs (databases, utilities and word processors, for example). It's such a straightforward process that it belies its usefulness.

Load in your favourite word processor or text editor, then import NAMES.TXT from inside the KAOS-DESK folder. This simple text-file contains the data that assians your

programs and file extensions to your chosen icons. To assign a file to an icon, just type in the relevant filename under the icon you wish to assign it to. For example, you could assign Smash Hit from last month's Cover Disk to a game icon by entering its filename, SMASHHIT (minus the .PRG extension) under the relevant icon (GAMES.ICP in this care)

Once you've made all your alterations, save NAMES.TXT as an ASCII file and quit your text editor. To bring the changes into effect, double-click on MKICONS.TOS in the KAOSDESK folder to update the resource file, then exit KAOSDESK. When you next run KAOSDesk, your alterations will be incorporated and all your favourite programs will be accessible directly from the desktop – much more userfriendly, eh?

How do I go about designing my own icon?

If you're unhappy with the program and file icons that are supplied with KAOSDesk, you choosy blighter, then design your own using Icon Edit. Double-click on ICNEDIT.PRG to load the program and you'll be presented with a screen containina two grids: one for program icons, the other for file and data icons. You can either create new icons from scratch or import one of the 60 icons provided and amend them to suit your personal tastes. You might want to create a football-style icon for your Dr Fox's Football Annual Demo program from Cover Disk 65, for example, or you could even design it around your favourite side's team badge... (Don't even think about mentioning Birmingham City - Karen)

To insert a pixel on to the grid, click on the grid with the left mouse button, and remove any mistakes by



■ Using a standard text editor or word processor such as Marcel you can assign icons to filenames easily.

clicking both mouse buttons at once. You can then save your creations as ICP or ICD files, which can then be incorporated into your custom desktop by inserting them into the NAMES.TXT file. We've explained that bit already...



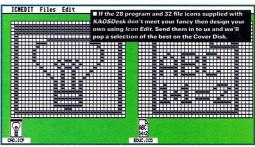
The customisation doesn't end there! You can choose whether you want your files whether you want your files of three sizes of text. And if you choose to display them as text then you can also decide whether you want to remove the information showing file size, date and time of creation, which would enable you to cram more files on screen.

You can even create a mask to restrict the file types that are displayed

on screen. Select 'Mask' from the Sort menu then, when prompted, select the filename you want to restrict your display to. Entering *.PRG, for example, will only display files with a PRG extension, while KAOSDESK, * will display all files that are named KAOSDESK, regardless of their file extension.

Your desktop, now fully configured, might look like our example. It's attractive, your favourite programs are within easy reach, and each comes with its own distinctive icon. Before finishing, remember to select 'Save Desktop' from the Options menu to etch your changes in magnetic media, and when you next boot KAOSDesk your personalised desktop will be waiting and ready for action.

So, there you have it. If, by some ridiculous quirk of fate you missed last month's issue and the Cover Disk with KAOSDesk 2.1 on it, turn to page 79 to order it now. seff



AtariNOS know-how

You've called Demon Internet, shelled out your dosh, got yourself an Internet account and downloaded the AtariNOS software. It's all very powerful, but how do you use it to hook up to the Net? Simon Forrester explains in words of one syllable, in the first instalment of a two-part series on using AtariNOS.

CATCH UP!

Maybe you haven't heard of the Internet. Maybe the world of free information at the speed of light passed you by. Maybe the idea of cheap, fast electronic mail didn't enter your head. If you want to ioin in with thousands of other ST users from the far reaches of this septic orb, you want to be on the Net. If you want to get on to the Internet using your ST, you'll need a few things:

- O A copy of STF 65 for the won-
- derful Internet feature. An ST, with a hard drive.
- O A modem.
- A phone line.
- A subscription to Demon Internet, costing £15 plus £11 monthly charge. Call Demon on a 0181 349 0063 for more information and the chance to part
- with some cash. The Internet software Demon

supply. It's a file called ATARI-NOS.TOS, which you download to your hard drive and unpack, then run INSTALL.TOS.

Bear in mind that this is an activity that doesn't come cheap. As well as the Demon costs (which are a very fair price), you still have to survive those phone bills spent on-line. You've been warned, and we've been ST FORMAT. Good night.

ack in issue 65 we explained in some detail how to get yourself on to the Internet, via Demon Internet (if you missed it, see the 'Catch up!' panel just below). However, the AtariNOS software isn't the most well-documented, explanatory software in the world. So, having covered the what, where, when, which and who of the Internet, now it's time for the how...

Your software

AtariNOS is the official Atari package for Demon Internet, supporting almost every function you can access through Demon from the comfort of your ST. In fact, the only thing it doesn't fully support is the World Wide Web (although you can use the e-mail function to get hold of Web pages as ASCII text more about that next month).

When you receive AtariNOS you'll almost definitely feel totally lost. The package comes in the form of several small programs, none of which is particularly easy to use. It also contains an enormous folder with over a megabyte of documentation, not all of which relates directly to you. However, if you do have a few days to spare and you don't value your eyesight then you could flick through DEMON.TXT, KA9QNOS.TXT, SUP-PORT.FAQ and WELCOME.TXT. ZEN.TXT should help you out with any general Internet problems.

Using Demon software means that instead of dealing with an unfriendly scrolling on-line ASCII display, you can work within the cosy environment of your own software off-line. You can ring up the system to send mail you've already written off-line, and receive

Demon Internet Access Software for the Atari ST Main Menu

- Logon to Demon Usenet News Electronic Mail News Utilities Edit Configuration Command Shell
- X. Exit To Desktop Enter choice:
- The main menu, which you're destined to see so much of while you go about your Internet business.
- AtariNOS is actually based on a program originally designed for accessing the Internet by radio

- MET) domain ? valid subcommands: addserver dropserver list maxwait query qtype retry suffix st artdms stopdms trace cache MET) #
- You can see a list of the parameters that should follow a command by entering a [?] in their place. This is handy for quick reference.

NET > ? Based on KA90 NOS by Phil Karn - Demon Internet Services V2.12 Convright 1991 Phil Karn. Parts copyright 1992, 1993 Demon Internet & Members Support: mail internet@demon.net or phone 081 343 3881 acdefhimporrsst

	1	abort	asystat
t	attach	cd	clear
lose lialer	disconnect	delete	detach
lialer	dir	domain	echo
ol	escape	exit	finger
key	ftp	help	hop
ostname	icmp	ifconfig	inline
P	kick	log	mbox
emory	mkdir	more	nntp
aram	ping	PPP	ps
wd	record	remote	rename
eset	rip	rsh	rlogin
mdir	route	session	shell
mtp	socket	source	sourceb
tart	stop	tip	telnet
est	time	tip	trace
dp	upload	?	

Atari NOS V0.41, May 22 1994 by David Nash - dnash@chaos.demon.co.uk Based on KA90 NOS by Phil Karn - Demon Internet Services V2.12 Copyright 1991 Phil Karn. Parts copyright 1992, 1993 Demon Internet & Members Load address AE618

commands with a question mark. As you can see, we haven't covered all the commands listed here. but we have covered all those that you'll need.

incoming mail which you can then read off-line later. By enabling you to do so much off-line AtariNOS saves you money, and you're less likely to make mistakes on-line, because everything you do is finalised before the Demon number is dialled.

Getting started

You don't need to know how to use every program supplied in the package, because they all run from one core program, which is called

DEMON.PRG. Just run DEMON.PRG (double-click) and after a screen of text you're presented with a main menu. This features six options:

- Log on to Demon (go live, online, directly communicating with the Demon computer).
- Use Usenet (log on to newsgroups, which we'll explain in more detail next issue).
- Fiddle with electronic mail (it's an off-line reader, again explained more next issue).
- Use newsgroups (also explained next issue).
- Alter your own preferences (coming up shortly).
- Jump into the incredibly unfriendly command shell (which we'll cover just after the bit about altering your preferences).

Alter your preferences

The first thing you need to do is alter your preferences, by hitting [E]. It's at this stage that you tell the package how to log on to Demon, including which Demon server to log on to. Make sure at

"When you receive

AtariNOS vou'll

almost definitely

feel totally lost..."

this point that you have your official Demon documentation in front of you (you know, that bit of paper they sent you when you signed up), so that you can enter the following details. A lot

of what you're about to read refers to my address as an example to help you, my address being

hairy@stformat.demon.co.uk. You'll be setting up...

IP address: This is that four-segment number, the final two digits of which you learnt when you performed your cold logon (see the panel just below).

Nodename: This is a reference to the second part of your e-mail address. For my address, this would be stformat.

User ID: The very first chunk of your address. In terms of my address, this is the hairy part.

User name: Your real name, mine being Simon Forrester.

Organisation: Pretty irrelevant. but mine's Future Publishing. Editor: This refers to the kind of

FAIRLY TEPID PORRIDGE

File Transfer Protocol, or ftp, is probably the only scary thing you'll come across when using the Internet. When you use the ftp command, you follow it with the name of a server to connect to, for example:

atari.archive.umich.edu/atari/. You can now chat directly with a computer, and give it commands to carry out on its own time. These commands are:

ir used on its own requests a full list of the server's current contents to be sent to you. If followed by a path, it gives a directory of that specific path and, if the pathname is then followed by a file name, the directory received is saved as that file on your hard drive. get requests the file with the name you state, so get wibble.prg pulls wibble.prg over

the Net to your ST and saves it to your hard drive. State a second filename to rename the file before it's saved.

get is an abbreviation for multiple get and enables you to

state several filenames to be transferred. You can use wildcards here to take several files at once (for example, use *.prg to take every file with a .PRG suffix in that subdirectory). put & mput work in the same way as the get commands but in reverse. They're for weird sickos who actually want to send files to these sites in return for the thousands of megabytes they've stolen. But really, it's a good idea to upload whatever you can in the way of information. People have taken the time to upload the software you've just scabbed, so it's only fair to do the same in return - that's what keeps the Internet going. verbose should be followed by a number from 0 to 3, responding to how much feedback you'd like: 0 only gives error mes sages, 1 asks for a quick summary every time a transfer takes place, 2 (default) gives error, summary and progress messages, and 3 makes the thing chat about what it's doing till

software you're using to access

Demon, Best leave it alone, really, Demon number: This is the nearest Demon phone number to you (they supply you with a list). We're using the Bristol number, as we're only about 20 miles away. Sit down with a map of Britain if necessary it'll certainly cut down on those phone bills, which could be vital.

Dial command: The command you need to send to your modem to order it to dial a number. If your modem is flagged as being Havescompatible then you'll need the letters 'ATDT', which is the Hayes code for dialling. If your modem uses a different command set, refer to your manual. Most will use ATDT, though.

it's blue in the face.

Password: Like I'm about to tell you mine. This is not your chance to set your password - you should already have done that on your cold logon. At this stage you need to enter the correct password for your software to log on to Demon correctly under your identity.

Log on!

Once you've set up your preferences you can log on to Demon by pressing [A]. At this point, your modem will dial the number you set up earlier, and you'll be connected to a Demon machine, ready

COLD LOGON

When you receive your Demon bits 'n' pieces for the first time you'll be instructed to call the Demon number without any special software running, using a simple ASCII comms package such as TeddyTerm, Fizzydizz, or any of the other comms pack-

ages you're used to. When you call, you'll be asked for your Demon address details, and given the chance to set your password, as well as pick up the final two figures of your IP address. MAKE A NOTE of those important details..

parameter has no effect in unconnected mode. The default value of paclen is 256 bytes.

79.2.2. Maxframe ontrols the number of I-frames that net.exe may send on an AX.25 connection before it must stop and wait for an akknowledgement. Since the AX.25 LAPB sequence number field is 3 since with the AX.25 LAPB sequence number field is 3 since unconnected-mode (datagram) MX.25 uses UI frames that do not have sequence numbers, this parameter does not apply to the default value of maxframe in net.exe is 1.

9.3. IP and TCP Parameters

9.3.1 MIT davinum Transmission Unit) is an interface parameter III davinum Transmission Unit) is an interface parameter 11 its the size of the largest IP datagram that it may die. IP datagrams routed to an interface that are larger its MITU are each split into two on more fragments. Each fraghas its own IP header and is handled by the network as If it is held by the IP layer until all of the other fragments beling to the original datagram have arrived. Then they are reas bled by

File View Options 0 32 items:
5919 13/05/94
1185 16/05/94
1185 16/05/94
1369 87/87/93
13725 81/86/94
13725 81/86/94
135270 11/12/93
25144 28/85/94
55316 85/82/94
158552 16/85/94
187879 38/85/94 1586428 bytes used in POP FAQ POP FAME
POP3 TXT
PROBLEM TXT
SERVICES TXT
SITES
SNEHS DXT
SNEHS DXT
SNEHSHST TXT
SUPPORT TXT
SHEREF TXT
HELCOME TXT
TXT
HELCOME TXT DOC TXT TXT FAC TXT TXT TXT ZEN ٥

■ With over 1MByte of documentation, you might like a quick guide. If any, make sure you read DEMON.TXT, KA9QNOS.TXT, WELCOME.TXT and ZEN.TXT. Then feel very glad we took the time to explain them to you in English.

The original AtariNOS documentation isn't exactly easy reading. This is about a thousandth of it.

It may be a petty point, but we'll stress it - the NOS folder absolutely must sit in the root directory

2			*******************							②
10	31318 Ь	ytes	used	in	45	items.				
	E LLAMA	ZAP				24/10/94	10:08	am		↔
	M NOS					08/12/94	07:41	am		-
1	₩ OLDBI	TS				27/10/83	02:57	pm		******
	⊗ OXYD					27/10/83	03:45	pm		
	E PIXEL					02/11/83	09:56	am		v.
¢										Z

to do that ftping (see the panel to the left, called 'Fairly tepid porridge' for some reason), domain naming, which we'll cover next month, and other on-line tasks.

From this point on, you'll be plonked into a particularly unfriendly command line mode. You can get to a full list of commands by hitting [?] followed by [Return], but there are a few commands that are really useful...

Command!

The following commands can all be used in the Demon command mode. Those that are followed by parameters (details) will be explained fully,

but make sure you remember that parameters are separated by spaces, not commas.

abort kills a session whether it's tidy or not. It's similar to close, except that it'll kill anything currently in progress.

cd displays the current folder directory, unless you follow it with a new path, in which case it changes the current folder.

clear clears the screen. close finishes a particular session - an ftp session for instance.

delete deletes a file in the current working directory.

dir gives a directory in the form of a new session. You can state a different path if you wish, which obtains a directory of that folder without switching to it in the way that CD would.

eol following this command with either UNIX or standard defines the behaviour of carriage returns,

telling them to be either a line feed or an ASCII value of 13. escane displays the hexadecimal value of the character cur-

rently in use as the escape character. An escape character is needed to

switch between sessions. You really don't have to worry about this one too much.

exit escapes and takes you back to the main menu.

finger followed by identification (such as hairy@stformat) sets up a new session with the server. For more information on sessions, see the panel just below.

ftp opens a direct conversation channel with an ftp server on a new session. Once again, see the panel on the previous page.

THINGS TO REMEMBER

Make sure your NOS folder is sitting in the root directory of your hard drive, or you'll come across all sorts of silly errors. Don't ever hang up halfway through a session. Always make sure you finish what you're doing and exit by closing your final session.

menu. If you load up the sec tions separately, you'll get into all sorts of confusions.

Always work from the main

You can get help on anything by e-mailing internet@demon.net or, if you can't get e-mail working, by calling = 0181 349 0063.

We haven't covered every aspect of Demon and the Internet here - we simply don't have the space. However, this month, as part of the new improved ST Answers, we've introduced a comms column, in which Frank Charlton (who works for Demon) answers your comms questions. Address any of your comms questions to ST Answers at: ST FORMAT, 30 Monmouth Street, Bath, Avon, BA1 2BW, or send an e-mail to Frank at: frank@tachyon.demon.co.uk and he'll happily answer your questions in print. Okay?

log followed by a filename logs your sessions to a file. When this is followed by the word stop the logging process will end for that particular session.

mkdir creates a new folder inside the current one. This command must be followed by the folder name to work.

more followed by a filename displays that file to the screen, pausing regularly to give you time to read everything. You can then hit the Spacebar to see the next screen, or [Q] to stop viewing. rename enables you to rename files by stating the old name followed by the new name immedi-

ately after the command. Another normal filing command. reset will reset a specified session if you give a number, or the current session if no number is given.

rmdir deletes a directory in the same way as mkdir creates one. session switches to a specific session number, or displays a list of current sessions if no number is given to switch to.

telnet starts a Telnet session with the host specified as a parameter.

upload opens a specified file and reads it up the line. For example, you could save a list of commands as an ASCII file then 'upload' them, which would have the same results as typing them directly.

? displays the list of available commands, including these.

Once you've understood these commands you know enough about the different commands of the Demon interface to survive most facets of the Internet. The best way to learn about them from here on is to get in there and play around. Have fun.

E-mail. Usenet and newsgroups

Next month, we'll be covering the three remaining sections of the main menu. If you want to try out these options before then you can select them and see a comprehensive list of the commands that are available to you by hitting [?]. And if you can work out what I'm going to say next month before I do, you could probably do me out of a job. Coo. stf

alias cp input rm verbatim	author dir interact rmdir word	cat echo ls set		cd exit mkdir system	cls help nv unalias	condense history ren unset
.TOM files gosub return	goto	ifa		ifs	ifv	resume
Special var 8.,99 ^ dcdwatch keystat ^ pause ^ == read o	anygem f margin prompt ^ verbosity	fif28 men A quick volume		date ^ font nolabel resolution ^ width	disk ^ force owrite shortdir	dcd ^ key ^ PATH status
Special cha	< s \		;			

■ You don't even want to ask what all this is about. To tell you the truth, I'm not too sure I could tell you. Certainly not in the space of one caption.

```
Demon Internet Access Software for the Atari ST
                                                                                                                                                                                                            Configuration Menu
                                                                                                                                                        IP Address: 0.8.8.8
IP Address: 0.8.8.8
IP Address: 0.8.8.8
IS Address: 0.8.8
IS Add
                                                                                                                                                    Password: mypas
Edit Function Keys
Edit Signature File
                                                                                                              S. Save Configuration
X. Return to Main Menu
                                                                                                              Enter choice:
```

A LONG, EXHAUSTING SESSION

"By enabling you to

do so much off-line,

AtariNOS saves vou

money, and you're

less likely to make

mistakes on-line*

The easy way to understand sessions is to compare them to multitasking operating systems like MagiC or Geneva. Although you can only think about one thing at once, the ST can carry out several operations seemingly at the same time

In a multitasking system you'd switch between applications, whereas with AtariNOS you switch between sessions, enabling you to keep different activities separate.

Say you were talking to an ftp site, requesting a file. Instead of waiting for a reply before you could do anything else, you could switch to a different session and do something else while waiting for a file to be sent. With AtariNOS this extends to just about everything you'd want to do on the Net. The session system uses several simple commands, among which are session (the main switching command), abort and close

```
BLE:
sed mail to a user
send mail from a file to a user
forward message to a user
reply to a message
show message
save message without headers
mark message as deleted
gotto next, message
gotto next, message
list headers starting at msg
(change mailbox sages)
list headers starting at msg
(change mailbox)
exit without updating
his help text
to current message
me, default to mbox.txt
COMMANDS AVAILABLE:
m user file sen
t user file sen
f user [msg] for
r [msg] rep
ENTER sho
   h
 [msg] - message
[file] - file na
mbox - mailbox
Press a key...■
```

■ Those e-mail commands, along with the helpful notes. We'll be covering more of this next issue. Watch this space for ST FORMAT's complete quide to the world of e-mail

The configuration menu, into which you enter your details, remembering to press [S] when you're done to save them.

Warehouse Clearance!

ATARI ST/STE DISK SOFTWARE
PERSONAL FINANCE MANAGER£19.99
PERSONAL FINANCE MANAGER£19.99 GFA RAYTRACE (create your own animated 3D world)£19.99
UTILITIES PLUS£19.99
STOS THE GAMES CREATOR (with manual)£12.99
STOS COMPILER (with manual)£12.99
GAMES GALORE (4 great games written using
STOS & compressor)£12.99
STOS 3D (with manual)£12.99
STOS SPRITES 600 (with manual)£12.99
STOS MAESTRO (with manual)£12.99
HOTWIRE (allows you to assign 'Hot Keys' for
up to 54 programs)£9.99
up to 54 programs)
VIRUS KILLER (kills 20 ST viruses)£3.00
TIME (space, magic & mystery. The epic journey in time)£6.99
HEREWITH THE CLUES (murder, mystery & suspense)£6.99
PREMIER COLLECTION (Exolon, Netherworld,
Zynapps & Nebulus)
MOONSHINE RACERS (action-packed chase thriller)£7.00
HOME ACCOUNTS (you'll wonder how you ever
managed without it)£9.99
STF GRAPHICS COLLECTION£2.00
STF ANIMASTER (disk and book)£3.99
MAXIFILE (file management supertool!)£9.99
GFA BASIC 3.5 INTERPRETER£14.99
STORMBALL (sports sensation of the 21st century)£9.99
GAZZA 2 (the official Paul Gascoigne soccer simulation)£6.99
INTERPHASE (dreams of the future)£9.99

AMSTRAD 464/6128 AND 464+/6128+ TOGETHER WITH AMIGA AND PC'S AND OF COURSE ATARI ST/STE'S! All orders sent by return: Cheques/Visa/Access/PO's

PRICES INCLUDE VAT, POSTAGE AND PACKING

ASK TO BE INCLUDED ON OUR REGULAR MAILING LIST

WE ALSO STOCK ITEMS FOR THE SPECTRUM, COMMODORE 64,

TRADING POST VICTORIA ROAD, SHIFNAL, SHROPSHIRE TF11 8AF

TELEPHONE/FAX (01952) 462135

LOWEST PRICED TOP QUALITY RIBBONS, INKJETS, TONERS & DISKS

Printer Ribbons

	BLACK	1 off	2+	5+	10+	BLACK	1 off	2+	5+ 10+
	Amstrad DMP 2000/3000	2.80	2.65	2.45	2.25	Panasonic KXP1123/1124/1140	3.46	3.31	3.11 2.91
	Amstrad DMP 4000	3.66	3.51	3.31	3.11	Panasonic KXP1080/1180/90/1592	2.89	2.74	2.54 2.34
ı	Amstrad PCW8256/8512/LQ3500	2.85	2.70	2.50	2.30	Panasonic KXP2123/2180	4.95	4.80	4.60 4.40
ı	Brother M1009/1024/1109/1209	3.90	3.75	3.55	3.35	Seikosha SL90/92/95	5.70	5.55	5.35 5.15
ı	Citizen 120D/LSP10/Swift 24/9	2.85	2.70	2.50	2.30	Star LC10/20/100	2.29	2.14	1.94 1.84
ı	Commodore MPS1220/1230	4.50	4.35	4.15	3.95	Star LC200	3.00	2.85	2.65 2.45
ı	Epson LQ100	4.10	3.95	3.75	3.55	Star LC24-10/200	2.86	2.71	2.51 2.31
ı	Epson LQ400/500/800/850	3.45	3.30	3.10	2.90	Taxan Kaga KP810/815/910/915	3.14	2.99	2.79 2.59
ı	Epson FX/MX/RX80/FX/LX800		2.75	2.55	2.35	COLOUR	1 off	2+	5+ 10+
ı	Epson FX/MX/RX100/FX/MX 1000	3.36	3.21	3.01	2.81	Citizen Swift 24	11.95	11.80	11.6011.20
ı	Epson LX80/86/90	2.12	1.97	1.77	1.67	Panasonic KXP2123/2180	10.63	10.48	11.60 9.88
ı	Mannesmann Tally 80/81	3.90	3.75	3.55	3.35	Star LC10/20/100	6.00	5.85	5.65 5.25
ı	NEC Pinwriter P2200	3.03	2.88			Star LC200	9.78	9.63	9.43 9.03
ı	OKI ML182/183/192/193/195	3.17	3.02	2.82	2.62	Star LC24-10/200	9.63	9.48	9.28 8.88
ı		Ri	ng I	or	Ribl	oons Not Listed.			

Ring us and WE WILL BEAT all other Ribbon prices

31/2"	DISKS	& DISK	<u>Boxes</u>	Inkjets, Ink Refills	& Ioners
	DS/DI	DS/HD		Canon BJ-10/20 Cartridge	17.54 each
	-	-		Commodore MPS1270 Cartridge	12.13 each
10 Disks	£5	£7	100 Cap.	HP Deskjet Cartridge (Double Cap)	24.24 each
25 Disks	£10	£14		HP Deskjet Tri-Colour Cartridge	28.89 each
			Disk Box	HP Thinkjet/Quietjet Cartridge	12.13 each
50 Disks	£16	£23	£5.99	HP Deskiet Tri-Colour Cartridge Refill	16.00 each
100 Disks	s £29	£43	with	Inkiet Pofille (Truin Packs) for Canon Pl	
250 Disks	s £65	£92	orders of	Deskjet. Available in Black, Cyan, Mager	
500 Disks		£175	£10+	Blue, Brown, Light Green, Dark Green a 1 Pack £11.00, 2+Packs £10.60 ea, 5+ Pa	
Preformatted	(MS-DOS)	disks available at	2n extra/disk	IID I WALE COLD	

Preformatted (MS-DOS) disks available at 2p extra/disk.

All Disks Certified 100% Error Free and

HP Laserjet II/III Toner Cartridge
HP Laserjet IIP/IIIP Toner Cartridge INCLUDE FREE Labels. Ring For Inkjets & Toners Not Listed. CPU & Monitor Dust Cover Monitor Dust Cover 80 Column Printer Dust Cover Amiga 500 Dust Cover Amiga 600 Dust Cover Amiga 1200 Dust Cover Miscellaneous Items Roll 1000 31/2" Disk Labels 8.99 2.99 31/2" Disk Cleaning Kit Parallel Printer Cable (1.8m)

All Prices INCLUDE VAT (@ 171/2%) & UK DELIVERY

Ring us or send cheques to: 01543 250377 Owl Associates Ltd, Dept 309, Owl House,

5 The Brambles, Lichfield, Staffs WS14 9SE Official Government & Educational orders welcome

ACTION SERVICE ADDAMS FAMILY ACATRAZ (NOT BOXED) BANGKOK NIGHTS

BUMPER PACK G, GRAND PRIX, HIGH STEEL, CROSSBOW) CAPTAIN PLANET CARRIER COMMAND

COLOSSUS CHESS COUNT DUCKULA 2 CYBERBALL DAILY DOUBLE HORSE RACING

NLY DOUBLE HORSE RACII
DALEK ATTACK
DEIA VU. I. AND 2
DELUXE STRIP POKER
DOUBLE DRAGON
DRAGON SPIRIT
ENGLAND (FOOTBALL)
FIRE HAWK
FIRST SAMURAI
GOLOGI

GEM X GOLD OF THE AZTEX GOLDEN OLDIES HEAD OVER HEELS HERO QUEST HI ICKI EBERRY HOLIND AHANGIR KHAN SQUASH



PACIFIC ISLANDS ..8.99 CHAMP MANAGER 93/94 POPULOUS/PROMISED LANDS ...9.99 CHAMPIONSHIP MANAGER POWERMONGER WWI 10.99 PREMIER MANAGER 2 .16-99 QUATTRO SPORTS CRYSTAL KINGDOM DIZZY8.00 REACH FOR THE SKIES .10-99 D DAY (1 MEG)9-99 RUGBY LEAGUE COACH IT MEGI 18 99 F29 RETALIATOR 9.9 SHOE PEOPLE JEARLY LEARNING SOFTWARE) 4-6 YEARS .. G TAYLOR SOCCER MANAGER8-99 STREETFIGHTER II (1 MEG) 8.99 GRAHAM GOOCH STRIKE FLEET WORLD CLASS CRICKET10-996.99 GRAHAM GOOCH SECOND INNINGS8-99 SUPREMACY . 10.99 WAR IN THE GULF9-99 KID GLOVES 25.997.99 MCDONALD LAND...6-99 MIG 29 FULCRUM5.99 PLAYDAYS 3-8 YRS.... 9.99

COMPLIATIONS

UNDER 6/6-8/OVER 8

......7.99

NODDY'S PLAYTIME 3YRS+ 16 99

COMPIL	ALIONS
ACTION MASTER	MAX
F16 COMBAT PILOT, WELLTRIS, TURBO OUTRUN.	TURRICAN II, ST DRAGON, SWIV, NIGHT SHIFT9-99
ITALIA 1990, DOUBLE DRAGON II	MOVIE PREMIER
BIG BOX 2	TURTLES, BACK TO THE FUTURE 2, GREMLINS 2,
BACK TO THE FUTURE 3, ISS, R-TYPE, SINBAD.	DAYS OF THUNDER 5.99
PREDATOR 2/TV SPORTS FOOTBALL, BOMBUZAL, RAMPAGE.	
KING OF CHICAGO, DEFENDERS OF THE EARTH10-99	SOCCER MANIA
BOARD GENIUS	FOOTBALL MANAGER 2, GAZZA, MICROPROSE SOCCER,
CLUEDO,SCRABBLE,RISK	FOOTBALL MANAGER WORLD CUP
CARTOON COLLECTION	SUPER ALLSTARS
TREASURE ISLAND, CJ'S ELEPHANT ANTICS, SPIKE, SLIGHTLY	ROBIN HOOD LEGEND QUEST, MAGICLAND DIZZY, CAPTAIL
MAGIC, SEYMOUR GOES THE HOLLYWOOD9.99	DYNAMO, CJ IN THE USA, STEG THE SLUG9.99
FLIGHT COMMAND	SUPER HEROES
ELIMINATOR, STRIKE FORCE HARRIER, SKY CHASE,	LAST NINJA 2, STRIDER 2, INDIANA JONES LAST CRUSADE,
LANCASTER SKYFOX 28-99	JAMES BOND/ SPY WHO LOVED ME. 5.99
FULL BLAST	THE DIZZY COLLECTION
FERRARI, CARRIER COMMAND, HIGHWAY PATROL, CHICAGO	FASTFOOD DIZZY/QUICKSNACK, FANTASY WORLD, TREASU
90, RICK DANGEROUS P475.99	ISLAND, MAGICLAND 9 99
HIGH ENERGY	THE GREATEST
NORTH & SOUTH, TIN TIN ON THE MOON,	JIMMY WHITE, LURE OF THE TEMPTRESS, SHUTTLE12-99
FIRE AND FORGET, TEENAGE QUEEN, HOSTAGES10-99	THE WINNING TEAM
KID PACK	
POSTMAN PAT, COUNT DUCKULA, THE MONSTERS6-99	APB, KLAX, CYBERBALL, VINDICATORS, ESCAPE FROM
KIDS RULE OK	THE PLANET OF THE ROBOT MONSTERS
POSTMAN PAT 3, POPEYE 2, SOOTY & SWEEP9.99	LOTUS TRILOGY
MAGNUM	LOTUS 1-2-3

£10.99

1 NORTH MARINE ROAD, SCARBOROUGH, NORTH YORKSHIRE YO12 7EY TEL: 01723 376586/01723 503299

CHOOSE ANY 3 OF TH

OF THE FOLLOW	ING FOR £10.00
EASE GIVE 1 ALTERNATIV	E
KAMIKAZI	SIMPSONS
KID GLOVES	SKATE WARS
KING OF CHICAGO	SKYHIGH STUNTMAN
LASER SQUAD	SNOWSTRIKE
LETHAL WEAPON	SOOTY + SWEEP
LORDS OF CHAOS	SPACE CRUSADE
LOTUS ESPRIT	SPACE HARRIER
MANCHESTER UNITED	SPORTING TRIANGLES
MANIX	STEG THE SLUG
MATCH OF THE DAY	ST DRAGON
MEAN MACHINE	STORMBALL
MIG 29	SUPER SCRAMBLE
MINDBENDER	SUPER SEYMOUR SAVES THE PLANE
MOONFALL	SUPER SKWEEK
MOTORBIKE MADNESS	SWITCHBLADE II
NEIGHBOURS	SWIV
NITRO BOOST	TEAM SUZUKI
ONE STEP BEYOND	TETRIS
OPERATION HORMUZ	
OVERLANDER PACMANIA/PACLAND	THE GAMES (1 MEG)
PETER BEARDSLEY (NOT STE)	THOMAS THE TANK ENGINE
PIT FIGHTER	TIMES CROSSWORDS
PIXIE & DIXIE	TOKI
POPEYE 2	TOP BANANA
POSTMAN PAT	TRACKSUIT MANAGER
POSTMAN PAT 3	TUSKER
POTSWORTH & CO	UNINVITED
PREDATOR	UTOPIA
EMIER MANAGER (NOT BOXED)	VIDEOKID
PUB TRIVIA OLIZ	WARP
QUICKSNACK DIZZY	WILLOW
RESOLUTION 101	WORKS TEAM RALLY
RISKY WOODS	WORLD CHAMP BOXING MANAGER
RODLAND	WORLD SOCCER
SCRAMBLED SPIRITS	WWF
MOUR GOES TO HOLLYWOOD	WWF 2
SHADOW DANCER	XENON
SHADOW GATE	
SIDEWINDER 2	COMPETITION PRO 5000
SIM CITY TERRAIN EDITOR	£5.00 EACH
X SOFTWARE DISKS	ELITE 2 (FRONTIER)

RAVE Midi Music Recording Studio £14.99

50 for £10-00 100 for £18-50 UK only

ROBINSONS REQUIEM £10-99 EACH, ANY 2 FOR £20-00

VISA



NIGEL MANSELL

Meet the

COMPANY
that started it all



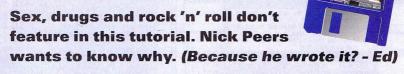
Edge chronicles the rise and fall and rise of **Atari**.

Discover the truth



Issue **eighteen** onsale now at selected newsagents

ST DISK CAT



o you have a disk collection stretching into the hundreds? Me too. Do you find yourself spending hours sifting through them, trying to find an obscure Desk Accessory that you could have sworn was on that disk with, er... Exactly. What you need is ST Disk Cat 5.2, which we gave away on Cover Disk 66. You just open it up, search for the file that you want, and it tells you exactly where to find it.

Now you might think that setting up a database of this magnitude involves hours of work of work, typing in every file, folder and disk name manually, but ST Disk Cat reads each disk, one by one, and stores the data in its own easy-to-access way. Then, once you've created your database, you can manipulate the data in all sorts of handy ways.

However, if you've tried printing the ST Disk Cat READ.ME file you've probably already run out of paper and patience. So we've condensed the essential facts into this tutorial. By the time you've read it you'll have catalogued all your disks and probably rediscovered a huge number of files. Before you know it your \$15 registration fee will be winging its way off to Canada in gratitude.

Creating your sections

When you load up ST Disk Cat for the first time it automatically creates a new database for you, which is loaded every time you run it in future. ST Disk Cat works by displaying the data at four levels: sections, disks, paths (or folders) and files, each of which is viewed in its own window.

You begin by creating sections. This is so that you can assign your disks to separate categories - you could catalogue all your Cover Disks in one section and have your word processors in another, for example.

To create a new section, select 'Add' from the Selection menu and give your subsection a name. You can also add a comment, which is displayed when you select 'Info' from the Selection menu. Click on the 'Multi' box and you can create more than one section at a time.

Adding disks to sections

Once you've created your first section, you can start to add disks to it. Select 'Add' from the Disk menu, and ST Disk Cat asks

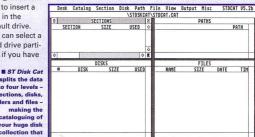
you to insert a disk in the default drive. You can select a hard drive partition if you have

splits the data into four levels sections, disks, folders and files making the cataloguing of your huge disk collection that

one. Again, select 'Multi' to catalogue several disks in succession. If you also select 'Alternate A then B' you can use two disk drives at once in the cataloguing process - just press [Return] to move between disks.

As each disk is read into the database, you can see the Paths and Files screens filling up with the information contained on that disk. Paths contains details of all the folders on the disk, and Files contains information on the files within the currently selected folder. Click on different folders in the Paths window to see their contents in the Files window. Selecting 'Info' from the Path or File menu gives you full details of the currently highlighted folder or file.

You can attach comments to each folder or file by clicking on 'Comment' in the relevant menu. This enables you to label folders and files



PUT YOUR RECORDS IN ORDER

There are four different ways of sorting your records. All are accessed from the View menu - just click on the option you want to select it. The options are:

Field Order: Gives you up to six different ways of ordering your four windows.

Field Sort: Enables you to select which field is the primary field for sorting. From here you can also decide whether you want to sort in ascending or descending order, and whether the program automatically sorts each section for you Field Enable: Another display option, with which you can

choose which fields are displayed in each window. Field Qualify: Most complex but most powerful. This enables you to select what records are displayed in each window. Working along the same principles as the 'Find' option, as described over the page, you can mask records according to name, date, size or even group. For example, you could restrict the 'Files' window to displaying program files only by entering '*.PRG' under File Name in the 'Field Qualifications

window. Or you can screen for programs of a certain size handy if you have 100K to spare on a disk and want to find programs to fill it.

erver.		SELECT F	IELD ORDER		H 0
	SECTION	DISK	PATH	FILE	
	NAME DATE	NAME DATE	NAME DATE	NAME DATE	OE
	NAME SIZES	NAME SIZES		NAME SIZE	
001 003 003 003 005 007 007	NAME COUNTS	NAME COUNTS	NAME COUNTS	NAME PATH	111
005 006 007		NAME SERIAL#		NAME GROUP	51
000	NAME COMMENT	[NAME COMMENT]	NAME COMMENT	NAME COMMENT	63 57 84
		NAME SECTION	NAME SECTION	NAME SECTION	105 100 100
	T OK			EXIT	389 329 146 887

ST Disk Cat enables you to sort your fields in a variety of ways. This screenshot shows you its default settings.

■ Adding disks to your database is straightforward. Follow the instructions, and insert the relevant disk when prompted. Everything else is done for you.

more clearly, to help you distinguish between them, or you can add silly comments if you like.

Viewing your files

Once you have your disks catalogued into a single database, you can configure exactly how Disk Cat displays your files, using the View menu. You can display your records in three ways. The default setting is 'Dependent', in which the Files window displays the files contained in whichever folder is highlighted in the Folders window. The Folders window contains those folders in the highlighted disk in the Disk window and so on. Click on a different section, disk or folder, and the other windows update automatically.

The second display option is 'Hierarchical', in which you resize the windows to leave one on screen, displaying either sections, disks, folders or files. If you doubleclick on the Sections window it's replaced it with a new Disks window displaying all the disks in that section. Click on a disk and it replaces the Disks window with a Paths window, displaying all the folders within that disk, and so on. To return to the previous level, click on the Close box icon in each

window. By having only one window on screen at a time, this method gives you more room to display your records.

The 'Flattened' view option enables you to view every file in the database (displayed in the Files window) or every folder in the database (displayed in the Folders window), and so on. This enables you to view every record of that level contained in the database, regardless of which disk or folder it resides in. You can then sort through these in various ways see the 'Put your records in order' panel for how to do this.

If the screen just isn't large enough to display all the records you want, you can resize the windows to your taste or display them in a smaller font by selecting 'Small Font' from the Misc menu.

Wibbly bits

Once you've created, sorted, qualified and displayed your records to appear exactly as you desire, you'll need to store this database setup ready for next time you load it. To do this, select 'Save Setup' from the Misc menu and make sure you save your file with a .HI or .MED extension, depending on the current resolution. When you next

LOST A FILE?

ST Disk Cat features some impres sive search options. One of the most important functions of a data hase is to search through all your records for a particular entry, or even word. You can search any of the four windows by selecting 'Find' from the File menu.

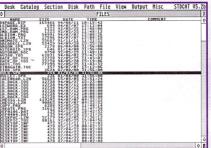
Next, enter the search text, You can use wildcarding, either to restrict the search to a particular filename or extension, or to list all files that don't contain the string you specified. You can elect to search any or all of the windows, and search either through names or comments, simply by clicking on the relevant icon in the 'Find Something' box.

Confused about wildcarding? Here are a few examples, all of which assume that you're only searching the Files section.



■ You can find any string using ST Disk Cat's powerful search options. Here we're searching the Section window for all instances of the word 'cover', regardless of case.

- *.PRG searches for all files with a PRG extension
- A* PRG searches for all files without a PRG extension
- .PI? searches for all files that aren't Degas pictures A* searches for all files beginning
- with the letter A ^*G searches for all files that don't end in the letter G



You can if you so desire, list every single file in your database, regardless of alphabetical order Like this, see?

boot the program, select 'Read Setup' to alter the way your database is filed and presented. Selecting 'Catalog Statistics' from the same menu informs you of the total amount of space free on all the disks in the database.

Should you have that many disks, you can have 100 sections per catalogue, 256 disks per section, 16 folder levels per disk and 999 files per folder

Finally, you can combine two databases by selecting 'Read' from the Catalog menu. This takes you to the file selector, where you select a second database to merge with the current one.

And finally...

Full instructions and registration details are contained in the STD-CAT.DOC file. Before you know it. all your disks will be neatly labelled and catalogued, and you won't even have to slot your disks into a disk drive to find out what's on them. Cor, eh? stf

FAST ATARI REPAIRS

FAULTY TROUBLESOME COMPUTER

SEND OR DELIVER TO THE EXPERTS FOR FAST RELIABLE REPAIR OF YOUR BELOVED ATARI ST * FREE GIFT WITH REPAIRS

FOR ONLY £44.00 INC *

WE ALSO REPAIR STE. Mega ST and Stacev

* FREE QUOTATION *

PLEASE TICK BOX Mouse Mat Mouse Holder Disk Head Cleaning Kit Software Game n

DRIVE OR KEYBOARD REPLACEMENT + £10

FAULTY PART EXCHANGE SERVICE PSU £24.99 KEYBOARDS £25.50 DISK DRIVES £25.50 HPGRADES STEM 1MB £39.99 STE 1Mb Simms £25 POS 2.06 POA

* COLLECTION AVAILABLE ANYWHERE IN THE UK.

144 TANNER STREET, TOWER BRIDGE, LONDON SEI 2HG. TEL: 071 252 3553

Joystick (Add £5)

ST FORMA Reader offers

STARDUST

DAZE MARKETING

Reviewed on page 46 of this issue, Stardust is one of the best arcade shoot-'em-ups you're likely to see on

an STE or Falcon. With unrivalled gameplay and graphics to sell your granny for, it's the essential addition to your game collection.

Description: Stardust RRP: £24.99 STF price: £19.99 Order no: STFSTAR





STOS 3D

The easy way to learn 3D programming. STOS 3D enables

Description: STOS 3D STF price: £9.99 Order no: STOS3D



ST FORMAT BINDER

ST FORMAT

Keep your prized collection of the world's most exquisite, comprehensive ST magazine safe from spills and stains in this quality binder.

Description: One binder STF price: £5.95 Order no: ST112 **Description: Two binders** STF price: £9.99 Order no: ST1122

WO FOR £9.99





UVK v6 DOUGLAS COMMUNICATIONS

A comprehensive virus killer that can repair over 700 commercial titles...

Description: Ultimate Virus Killer v6 RRP- £12 95 STF price: £9.95 Order no: STFUVK



THE BEST OF ST FORMAT

FUTURE PUBLISHING

Features, beginners' guides, huge jargon busters section, techie tips and reviews - plus optional disks. It's great!

Description: The Best of ST FORMAT with two disks STF price: was £15.40, now £9.99

Order no: ST BOOK D



GFA BASIC COLLECTION

GEA DATABECKER

GFA Interpreter, GFA Compiler and GFA Shell, all in one package for a mere £59.95 - a massive £20 off the RRP. It's the complete Basic solution for first-

time programmers and established coders. If you want to find out more about how to use GFA Basic, take a look at our tutorial series in issues 65. 66 and 67 (for those who missed them, back issues is on page 79.

Description: GFA **Basic** collection RRP: £79.95 STF price: £59.95 Order no: STFGFA

#JIKI	1 +1.48	
(She)[Hain Hemu	
trans lest bank trapains du Internation du SELCI optimizing Size SELCI parameters 27 bit BATHAN Chetking du NOR MEZI (Micking du Size Magisters Yes Frocedure types di Integer divide integer Integer mittply 27 bit BL MINISCO params 22 bit Blaz memory sage. di	Disk pause Hemory saving Delete object Symbol table. Source file Result Hain library. Additional Object	No
Lnio and Lnoviskam	nterg	late
lelp esource	Compile	Hake & Jest
Settings Other	Link	(xit

TOTAL ORDER VALUE Method of payment – please tick appropriate box	Name		
PostcodeTelephone Description Order no Price TOTAL ORDER VALUE Method of payment - please tick appropriate box			
TOTAL ORDER VALUE Method of payment – please tick appropriate box			
Method of payment – please tick appropriate box	Description	Order no	Price
	то	TAL ORDER VALUE	
☐ Access ☐ Visa ☐ Cheque ☐ PO			
	Credit card number	**	
Credit card number			

If you wish to order by credit card or have any queries, all you have to do is ring the Hotline on...

Please tick here if you do not wish to receive direct mail from other companies

□ Customer Services can be contacted on ☎ 01225 822510

SUBSCRIBE! SUBSCRIBE! SU

SUBSCRIBE NOW AND ALL THI

You know the story, so we're not going to patronise you by emphasising the many advantages of subscr... Ah. We are.



- Save up to £1.45 an issue!
- Free subscriber Wonder Disk packed with brilliant ST utilities and games every month!
- Free subscriber newsletter with full disk instructions and ST gossip every month!
- Total price protection for a year
- **Free delivery to your door**
- Airmail delivery outside the UK
- Free ST FORMAT binder worth £5.95 when you pay by Direct Debit!

FREE MOUSE 'N' MAT

Take out a subscription for *ST FORMAT* (Incorporating *ST Review*) this month, and we'll send you a FREE mouse and mat worth £12.99!

The mouse is fully ST-compatible and works at 260dpi resolution. Both buttons are fully micro-switched for maximum reliability and performance. And not just that, you also get a 'tastefully coloured' neoprene mouse mat to keep your mouse mechanism free of dust and dirt. They're both free if you take up our special offer this month.

Strictly limited offer while stocks last!

HOTLINE: 01225 822511

BSCRIBE! SUBSCRIBE! SUBS

S CAN BE YOURS...

THIS MONTH SUBSCRIBERS RECEIVE:

A WONDER DISK SEETHING WITH NINE HOT PROGRAMS...

DUCK DASH: save the eggs from the evil mutant lab animals in the game that looks good, sounds great and plays wonderfully.



■ Your task as Danny Duck is to rescue all the eggs from the bizarrely coloured farmyard. Just what experiments were being performed in that mountain laboratory?

MARCEL DICTIONARY: at last! The long-awaited dictionary to accompany Wonder Disk 62's Marcel word processor.





MODEST: keep track of those elusive MOD files with this indispensable shareware program. **TEXT ANALYZER:** give your text a Flesch rating with this useful utility. CFN LIST 2: stores details of all your Calamus fonts. **SCOPE:** oscilloscope for your STOS Maestro sampler. ABFORMAT: format disks in two drives simultaneously. **EXTNSEL2:** select which STOS extensions you want loaded on booting up STOS Basic. **EPSON TO BJ:** convert Epson 24-pin fonts for use on your Canon BJ printer.



■ Nick aims his writing at people of his own intelligence, as the *Text Readability Analyzer* demonstrates. That score means five-year-olds...

Postcode

..AND NEWSLETTER WITH FULL DISK INSTRUCTIONS

SUBSCRIPTIONS

Please enrol me as a subscriber to ST FORMAT (for 12 issues) from the next available issue at the all-in price of:

nom the next available	issue at the all-in price of.
Please tick relevant box:	
☐ £33 UK	☐ £30 UK Direct Debit
☐ £60.95 Europe (airmail)	☐ £90.95 Rest of world
Mr/Mrs/Miss/Ms:	
Address:	
l	
Tel:	EEC VAT No:
Method of payment	
☐ Direct Debit – go straight to the fo	orm below
☐ Cheque (payable to Future Publis	hing)
Please make out your cheque for the	
☐ Visa ☐ Access/Mastercard	
Credit card no:	
Date:Signature:	
Please tick if you would prefer not to receive no	
Offer closes 14 March 1995	STF/MAG/03/95
] 	14
Return the form (no stamp required) to:
ST FORMAT Subscripti (BS4900), Somerton, Sc	
(B34900), 30Merton, 3	omerset, rarrobn
DIDECT DEDIT INCT	RUCTIONS ID: 930763
	nd you save even more!
	the above order form. Direct Debit
	who have a UK based sterling bank are deducted annually in advance.
account. Direct Besit payments	are deducted difficulty in duverice.
This coupon instructs your bank or building	2. Account number:
society to make payments direct from your account. Please complete then send to: ST	
FORMAT Direct Debit Subscriptions, Future	3. Sort code:
Publishing Ltd. FREEPOST (BS4900), Somerton.	
Publishing Ltd, FREEPOST (BS4900), Somerton, Somerset TA11 6BR	
Somerset TA11 6BR (Banks and building societies may refuse to accept instructions to pay direct debits from	4. Account in the name of:
Somerset TA11 6BR (Banks and building societies may refuse to	4. Account in the name of:
Somerset TA11 BBR (Banks and building societies may refuse to accept instructions to pay direct debits from some types of accounts.) 1. Please write the full address of your branch	Instructions to bank/
Somerset TA11 6BR (Banks and building societies may refuse to accept instructions to pay direct debits from some types of accounts.) 1. Please write the full address	Instructions to bank/ building society Ill instructy up by direct debits from my account
Somerset TA11 BBR (Banks and building societies may refuse to accept instructions to pay direct debits from some types of accounts.) 1. Please write the full address of your branch To: The Manager at:	Instructions to bank/ building society I linstruct you to pay direct debits from my account at the request of Future Publishing Ltd. If he amounts are variable and may be debited on
Somerset TA11 BBR (Banks and building societies may refuse to accept instructions to pay direct debits from some types of accounts.) 1. Please write the full address of your branch	Instructions to bank/ building society I instruct you to pay direct debits from my account at the request of future Publishing Ltd.

■ I understand that if any direct debit is paid which breaks the terms of this instruction, you will make a

(8.45am to 6pm)

NEW! READER ADS

Totally free!

Sales

Panasonic KX-P1081 printer, impact dot matrix, with dust cover, little used, in excellent condition £45 for guick sale. Call 0172 712350

Atari STE 4MBytes complete with 40MByte HDD, second FDD, SM124 monitor, joystick, mouse, software and books £450. Call 01385 232542.

1MByte STE £100, Philips CM8833 colour monitor £75, Protex 40MByte external HDD £65, handscanner and software £40, 4 x 1MByte SIMMs upgrade for Atari £40, Word Perfet and Fleet Street Editor £35. Call 01442 872745 Alan, any time

STFM, 2MBytes RAM, external 3.5 DSDD, mouse, mat and joystick, programs, clip-art and games plus excellent Panasonic KXP1124 printer. £300. Buyer collects. Call Phil after 6pm on 01865 750382

180MByte hard drive with one CD controller card ling clock case and PSU by Gasteiner with are lead etc. £199. Phone after 6pm on 01582

SM144 Monitor - mono, high res for STS, tilt and swive stand, audio. £80 ono. Call 01798 343833 and ask for

Atari ST software sale (all boxed originals), Send SAE to Eddie (ST) 151 Balsusney Road, Kirkcaldy, KY2 5LH for

Citizen Swift 90C 9-pin dot matrix printer (colour). Only three months old £145. Lots of ST/STE games for sale. Call Kevin on 0181 5397200 after 4pm.

Master system for sale (compatible with all games) with seven games. Will sell games seperately for £10 each. Master system with seven games is £65, boxed, etc. Phone James on 01692 403917.

Atari 8-bit various, computers, drives, commercial and PD software, cassettes, disks, lightgun, boots, magazines. ICL 2400baud modem. Sell or swap for ST hardware. Phone John 01332 361536.

Atari STE 1MByte, with Hyperpaint, Music Maker 2. 1st Basic, 1st Word, ANI ST GCSE revision module, junior school module, play and learn module. Can be seen working £160. Phone Roy 01827 716406. Atari 520STFM with mouse and software. Needs new internal disk drive – £70. Phone Darren on 01992

Power Grevscale hand scanner and software £50. VIDI-ST (12) Digitiser £30. 1040STE upgraded to 2Meg over 100 disks inc utils, art, games, DTP, WP, musi £300 ono. Phone Mark on 0114 276 6831.

Falcon030 4Meg RAM/65 Meg internal drive SVGA colour monitor, printer, magazines, loads of software £700 - will split. Call 01257 425131.

4Meg STFM, 85Meg HD. External floppy drive, Phillips 8833 monitor, Atari 124 monitor, loads of software and manuals – £600 the lot. Phone 0121 4271757 after 6pm

2MByte STE, portable colour TV, joystick, mouse assorted business, music, graphic, games software, mags C/W cover disks. £225. Call Terry 0151 6069583. Atari 520STFM upgraded to 1040 specifications. Mouse, joystick, STOS basic and compiler, several games, all still boxed with full documentation. £120 ono. Call 01305

Legal box games for sale. Powermonger and WWI; Soccer Mania; Deuteros; Champ Manager; Bridge (Orar Sharif); Caesar; Megalomania and First Samurai. 25 each plus P&P. Call 01703 457566.

Atari STE520 upgraded to 1Meg. Mint condition plus software, all original discs and manual. Genuine offe writing please. Mr Young, 36 Station Road, Netley, Southampton, SO31 5AF.

For Sale Atari STE 1Meg and 520 – Powermonger, Megalomania; Championship Manager; Omar Sharif Bridge; Caesar; Deuteros; Soccer Mania. All for £30 or £5 each plus P&P. Call 01703 457566.

Atari SLM 804 laser printer. Good working condition £300 one or swap for multisync monitor. Mike 01480

Address:

Host adaptor card for using hard drive (SCSI) with an

READE

Atari STFM, upgraded to 1MByte to include 30 plus

Steinberg Pro 24 III with manual and dongle for ST £20. SIMMs (4 x 256 K) 1MByte for STE £10. Call 01273

TT030 computer, 2MByte RAM, 44MByte hard disk, 3.5inch floppy drive, PTC 1426 mutisync colour monitor mouse, manuals. £700. 01787 379741.

Epson internal 720K floppy disk drive £17.50. Atari SF314 external 720K floppy disk drive and PSU £22.50. Prices include P&P. Call 0116 266 5874.

Atari 520 STE upgraded to 1MByte. A mouse, two joysticks, Timeworks 2 and 2 WPS. Games inc – Sensible Soccer and Civilization. ST FORMAT issues 30-66 £150 ono. Call 01284 762466.

520STFM upgraded to 2.5Meg, Acorn colour monitor, second disk drive, loads of software, over 50 mags ar cover disks, mouse, joystick etc. £300 ono. Call 0191 586 9564 plus 30Meg H/Drive.

Atari1040 with high-res monitor. Excellent condition Bargain at £230. Tel 01884 256955. Ask for Tony. Atari TT, 32-bit computer, 4MBvtes, hard disk, colou or and software £800. Ring 01239 851783

Sega game gear, 5 games, carry case, AC adaptor, Cost over £200 new. Bargain £90. Tel 0114 250 7173.

Atari STFM, lots of software, joystick, mouse, magazines, good condition £120 ono. Tel 01142 507173.

Notator Logic Audio for the Falcon, £325. Cubase 3 £240. Both boxed as new. Ian 01702 616961.

GST C-Compiler, debugger, editor, manual £8. PC-Ditto £10, Blitz turbo £10. STAC £7, SEUCK £6. STOS £10. Many games including Lotus 3, Striker. I Hu Ash Road, Birmingham, B8 1DR, Tel 0121 328 8259

Atarl ST/E games for sale at bargain prices including SimCity £7, Populous £4, R-Type £5, Falcon and 2 mission discs £10, Lotus 3 £8. Send SAE to Jazz, 165 Ash Road, Birmingham, B8 1DR.

Morse, RTTY transceive for 520s £25 disc. Also CAE Novel for 4MByte Ataris £25 disc. Call 01297 23421. Mega ST, plus Phillips colour monitor. Extra drive Games, programming, Protext 5, business software ancillaries. Call 0151 643 9616.

Falcon 4Meg, 65Meg hard disk, NVDI, SpeedoGDOS, MuliTrOS, Ease, Devpac3, Stalker, coprocessor, few games, £550. 14 Meg board £300. Blow-Up Hard 2 £20. Andy 01435 882121 or 0171 9567075.

STAC and DEGAS Elite. All originals or swap for eomaster sound sampler or if you have eomaster for sale. Ring Keith on 01268 472325.

Original games. Superheros (4 games; Strider 2, The Spy Who Loved Me, Last Ninja 2, Indiana Jones and the Last Crusade) £7. Beyond the Ice Palace £2, North and South £4. (no manual for NandS). Phone Nick 0151 334

Atari compendium book – brand new – £25 plus P&P. Spectre 128 CDRT and system disks, no instructions £50 plus P&P. Tel 0116 291 3192 after 7pm.

Original games: Supercars £4, Pitaighter £5, Shadow Gates £6. Phone Nick 0151 3349728. AUR format 16-bit samples, 22KHz or 44KHz, £1.50 per

disk drum machine sets, synths, etc. Ring 01283 500944 for details

Videomaster colour digitiser for Atari Falcon, complet with RGB splitter, cost £100+ only £60. Phone 01268

Falcon030, 4Meg memory and 65Meg hard drive, and some software, as-new condition. £695 ono. Phone 01268 561066.

games, two joysticks, two mouse, power scanner, £275 ono. Phone Steve 01242 581878.

210Meg SCSI hard drive Gasteiner model with lead for Atari Falcon or will need link for STs, as-new condition £250. Phone 01268 561066.

ector £75, CalAssist SL £15. German PD CD-ROM £15. Phone 01268 561066.

Second-hand software, all boxed originals, for more details send SAE to Edward Smart, 30 Bury F Barrow Bury, St Edmunds, Suffolk, IP29 5AB

Clear Out! Lots to go, old and new eg Calamus 5 £60, scanner £50, Geneva £25, At Once Plus £35, Redacteu £20, Pro 29 £15 and many games. Brian 01539 723190. Atari SC1H35 Colour monitor almost new £155, second floppy drive with built-in PS 335 and cheap original software. Upgrade to 1Meg STE memory boards £5 ea. Phone 0161 3207415 or 0161 4426078.

STFM (2MBytes) external drive, CM8833 colour monitor 25+ games 1st Word Plus, Hyperpaint, mouse, joystick £250, Phone 01609 778761, Delivery possible within

Wanted

Wanted, Atari 520ST war games, any type in boardgame format, buy or swap. Also an able to put Spectrum games contact. Call 01252 510555. es into Atari format. Pl

Has anyone still got a copy of Star Command by SS1. If so phone me now 0181 2030475.

Wanted! Space Quest 1/3. Must be cheap! Phone Plymouth 779146 and when ringing say "Hi, I'm F Wilco, let's buy games". PS including save disks! John the Composer music/MIDI program. Write to me with an offer or info on where the program is available. Thanks. Keith Parker, 96 Sandhurst Road, Tunbridge

Wells Kent TN2 3DX Wanted: Civilization (good condition) and Barbarian (by Palace). Will pay reasonable sum of money. Phone Matt on 01452 301217 after 4pm.

A copy of these games (if possible) because the disk got old and the computer refuses to load them. They are Afterburner 2, R-Type, Super Hang-on and Quik and Silva, Contact Chaule, 21 Enfield Avenue, Preston.

Victoria 3072, Australia, Phone 03 470 2465 Wanted: Dynablasters, with manual and joystick extension for multiplayer. Send list if you have more cjust a letter for a chat – I'll reply to any – 11 Dedmere Rise, Marlow, Bucks, SL7 1PO.

Games wanted, will pay up to £8 each – for Space Quest I, Risky Woods, Fire and Ice, Parasol Stars, Sleepwalker, SKIDZ, Space Ace, Ishar Legend of t Sieepwalker, SKIDZ, Space Ace, Ishar Legend of the Fortress for Atari STFM. Call 01705 665043.

Wanted strategy games – no pirates please – for Atari STE 1Meg. Written list with game description please. Mr Young, 36 Station Road, Netley, Southhampton, SO31,

Wanted: DTP and word processing software and any extra fonts and clip-art for Atari STE setup. Also font editors eg Fontkit v4.1, etc (preferably with some documents please). Call 01438 714033.

ST games. Supersprint, Barbarian, Dungeon Master, Chaos Engine, Flight Sims, Pipemania, Fl, Silentservice Heimdall, Xenon 2, Rugby, Stuntcar Racer, U96 Starball, Hoyles, Cadaver Cheats, modems, printers. Top prices. Call 01526 834598.

Hard drive suitable for STFM wanted. Any size considered. Send details to: Mr A Green, 6 Middleber Drive, Northmoor Park, Wareham, Dorset BH20 4SD. Cash waiting!

Heroes compilation wanted. Barbarian 2, Running Man, Star Wars and Licence to Kill. Please phone David –

Number-crunching PRG to work out permutations (PD OK). Also book with examples of spreadsheet formulae Telephone Chris 01639 633715 (today will do!)

Desperate!! I need an Atari ST1040 immediately!! Anyone know where I can get one or who has one, then contact me please!! Call 01525 872649.

WANTED: Amiga 500, no games, but mo and manuals. Will pay up to £100. Call 0114 250 7173.

Cheap hard drive. Requirements: suitable for Atari Falcon, minimum capacity of 40MBytes and must be in perfect working order. All replies and offers anwered. Michael Cumpton, 28 Pen-an-Gwel, St Ives, Cornwall, TR26 1DI

Wanted: Oracle, Formfinder, Propunter and any other horse tipping software. Will buy or swap. Write to: PK116, Erenkoy 81062, Istanbul, Turkiye.

Urgently wanted, top prices paid. ST Games: Curse of the Azure Bonds, Elvira – Mistress of the Dark, Elvira 2, the Haws of Gereovs, Civilisation: Legends of Valour Call 0181 8826515.

Digita's cashbook combo accounts package for the STE. Must be in excellent condition with manual. Cash Must be in excellent condition with manual. (waiting. Plese ring after 5pm 01924 283179. Wanted: Dungeon Master, Elite. Also various

games for sale. Phone Raymond 01387 268821 after

Copy of APB (by Domark) for STE. Will buy at reasonable price under £10. Call 01326 40647. Issues 1 and 2 of ST Review with cover disks to complete my collection. Call 01924 452100.

Programs wanted for PDL – we pay for your programs. Send SSAE for a leaflet about what we want. Write to PAJ Software, PAJ House, Shaftesbury Avenue, Cheadle Hulme, Stockport, SK8 7DB.

WANTED: Sage Accountant plus program for the ST. Preferably boxed and with manual. Tel Russell on 01692

WANTED: The Curse of Azure Bonds, Hillsfar, Romdwar 2000, Bat 2 for STE, Buy or swap for other software or tips for Ultima 6, Frontier, Towers and other games. Call 048 58 511271 (Poland).

Desperately looking for Pro Tennis Tour 2. Swap or buy Call 0181 8529252.

Swap

Want to swap PD? I've got roughly 60 quality disks some with more than 3 PD programs on. To find out more call 01296 89059 6-9pm.

Interested in swapping software? Lots of games available. Especially interested in Dungeon Master/Chaos Strikes Back. T Higgins. 40 Sutherland Avenue London W9 2HO

Introducing JDPD, a great swap service, where you can get PD for the price of a disk. Send a SSAE and disk today to: J Davidson, Wood Farm House, Whichford, Shipston-On-Stour, Warks, CV36 5PG.

I want to swap my original boxed Microprose Golf for an original boxed copy of Populous. Phone Sion on 01994 448471 after 6pm.

ST contacts wanted to exchange PD software. Send a blank disk for catalogue to A Owen, 11 Castle View Est, Derrington, Nr Stafford, ST18 9NF.

Microdeal Quarter, Master Sound and Replay plus Sweer Sixteen accompliment – composer for notator scorewriter or similar software. Call 01327 341319.

Wanted: SimCity or Populous 2. Willing to buy or swap for New Zealand Story, Golden Axe, Pacmania Time Bandit or Bridge Player Galactica. Call 01734 262967 and ask for Alex (after 5pm weekdays).

Wanted Sensible Soccer or International Sensible Soccer for Civilization or Street Fighter 2. If interested contact Phillip Ramsay on 01270 255523.

Messages

Stellar diskzine if packed with reviews, news and free PD. Send £1 for issue 14 to: Mark Nobi Aston Road, Chipping Campden, Glos, GL55 6HR. HELP! Technician/engineer to find why my Daatascan scanner doesn't work. Call Chris 01639 633715. Signed,

Do you use the Cyber series for animations? I am looking for people to swap animations, ideas and information on how to get the best from these programs. Call 0170 2260235.

For a free copy of the new-look Power Disk mag — please just send a disk and SSAE and ask for Powe Mag to: James, 3 Salisbury Road, Maidstone, Kent, ME14 2TY.

NOVADISKS - Any submissions for Nova 5 must be received by Feb 1st when it will be released price £2 + SAE, James Bird, 91 Elm Tree Avenue, Derby, DE56

User Groups

Build your PD collection for virtually nothing. Demos, modul es, utilities, etc. all waiting to be swa Call 0117 967 2203

Get your PD for free by sending your list and a stamp to me for a list of over 600 disks of demos, modules, utilities, etc. Paul Womar, 27 Stonehill, Hanham, Bristol, BS15 3HP.

Third dimension – 3D Construction Kit user group disk mag only £1.50 monthly. Crammed with tutorials, datafiles, etc. Tony Hartley, 19 Kipling Close, Lockwood, Huddersfield, Yorkshire, HD4 5HA. Tel 01484 460888. Come on guys! Join Atari Update: The user group to be with. Send a letter to: 22 Brook Road, Shanklin, IOW, PO37 7LU for info.

200 CON 100 CO ST FORMAT READER AD ORDER FORM

elephone (inc new area code):
Vrite your ad in block capitals (maximum 30 words) in the space provided. Then ither out out the coupon or use a photocopy and send it in to: ST FORMAT Reader dds, 30 Monmouth Street, Bath, Avon, BA1 2BW.

Please tick: Sales Wanted Swap Messages User Groups Terms: ST FORMAT Reader Ads are accepted on the following conditions:1) No trade or commercial ads 2) The accuracy, position and timing of the ads cannot be guaranteed. 3) Anyone found using the ST FORMAT Reader Ad service to sell pirated software will be reported to the appropriate authorities. 4) We will only print your ad if you sign below I agree to abide by the conditions stated above.

ESSENTIAL CONTACTS

Accolade = 0181 977 0880 Advanced Graphics = 01942 488174 Arnor = 01733 68909 Atari UK = 01753 533344 Audiogenic Software = 0181 424 2244 Beaujolly = 01737 222003 Care Electronics = 01923 894064 Centresoft = 0121 625 3399 CGS ComputerBild = 0181 679 7307 Cheetah = 0161 707 7080 Codemasters = 01926 814132 Coktel Vision 2 00 331 46 30 99 57 Creative Sounds = 0117 9244395 Daze Marketing = 0171 372 7435 Digita = 01395 270273 Digital Integration ≈ 01276 684959 Dolphin Software = 01603 617602 Domark = 0181 780 2222 Douglas Communications **₽** 0161 456 9587 EMagic = 01462 480000 Empire ≈ 01268 541212 Empire/Readysoft = 01268 541126 Everglade (software, books etc) ₽ 01463 240168 Evesham Micros = 01386 765500 Fast Atari Repairs = 0171 252 3553 FaST Club = 0115 945 5250 First Computer Centre ☎ 0113 231 9444 Fujitsu = 0181 573 4444 Gadgets by Small **=** 00 1 303 791 6098 Gasteiner = 0181 345 6000 GFA Data Media = 01734 794941 Golden Image UK Ltd = 0181 900 9291 Harman Audio = 0181 207 5050 Hewlett Packard = 01344 369369 HiSoft/AVR = 01525 718181 ICD Inc = 00 1 815 968 2228 IDS # 0121 459 4340 ImageArt # 0181 767 4761

Impressions = 0171 351 2133 Infogrames = 0171 7388199 JCA Europe = 01734 452416 Kixx XL/US Gold = 0121 625 3311 Korg = 0181 427 5377 Kosmos Software = 01525 873942 Kuma = 01734 844335 Ladbroke Computing International ☎ 01772 203166 Lexicor Software (USA) T 00 508 792 6618 Lexicor Software (Europe) **= 00 43 1 36 75 92** Llamasoft = 01734 814478 Loriciel = 00 331 46 88 28 38 Meedmore = 0151 521 2202 Michtron = 00 1 313 334 5700 Microdeal = 01525 713671 MicroProse

□ 01454 329510 Millennium = 01223 844894 Mindscape = 01444 246333 Mirage = 01260 299909 Ocean/Hit Squad = 0161 832 6633

Panasonic = 01344 853195 Power Computing = 01234 843388 Pro Music = 01284 765765 Psygnosis = 0151 7095755 Q Logic = 01382 25311 Q Tek UK = 01382 200808 RC Simulations = 0117 955 0900 Renegade = 0171 481 9214 Roland = 01252 816181 Rombo = 01506 414631 Rubysoft = 0171 381 8998 Silica Systems = 0181 309 1111 Software Technology ≈ 0161 236 2515 Special Reserve = 01279 600204 Star Micronics = 01494 471111 System Solutions ≈ 01753 832212 Thalion = 0121 442 2050 The Third Dimension = 01484 460888 Titan Designs = 0121 414 1630 Titus Software 2 0171 700 2119 UBI Soft # 0181 343 9055 Virgin = 0181 960 2255 WeServe = 01705 647000 zzSoft = 01254 386192

E-MAIL ADDRESSES

Andy Curtis:
andy@theshack.demon.co.uk
CGS ComputerBild:
100042.2312@compuserve.com
Clive Parker:
cparker@futurenet.co.uk or
clive@netmag.cityscape.co.uk
Compo Software:
compo@cix.compulink.co.uk
Demon Internet: internet@demon.net
Frank Chartton:

frank@tachyon.demon.co.uk Gribnif Software: gribnif@genie.geis.com HiSoft: hisoft@cix.compulink.co.uk Lexicor Software Corporation: services@exicor.com

support@lexicor.com info@lexicor.com graphics@lexicor.com Mark S Smith: msh@dl.ac.uk ICD: icdinc@cenie.geis.com or icdinc@delphi.com net magazine: netmag.futurenet.co.uk Oregon Research: orres@teleport.com Sam Trameil, Atari: 75300.3443@ compuserve.com ST FORMAT: stf@futurenet.co.uk Trenton Webb: trenty@futurenet.co.uk Atari ftp sites: atari.archive.umich.edu/atari/ ftp.demon.co.uk/atari micros.hensa.ac.uk/micros/atari/ src.doc.ic.ac.uk/packages/atari/

Atari ST Usenet newsgroups: comp.sys.atari.advocacy comp.sys.atari.announce comp.sys.atari.st comp.sys.atari.st.tech

Atari Web sites:
Atari CD FAQ:
http://www.dl.ac.uk/MISC/ATARI/
CD FAQ
Atari ftp list:
http://www.dl.ac.uk/MISC/ATARI/
ftplist.txt
Atari Guide to Network Connectivity: http://www.dl.ac.uk/MISC/ATARI/
SLIP_FAQ
Atari TOS Desktop Survival kit:
http://www.dl.ac.uk/MISC/ATARI/
survival
Mark Smith's Atari Web Page:

http://www.dl.ac.uk/MISC/ATARI/ atari.html ST FORMAT: http://www.futurenet.co.uk/ computing/stformat.html

USER GROUPS

ATARI UPDATE & DYNAMIC PUBLICATIONS, 22 Brook Road, Isle of Wight PO37 7LU ATARI USER GROUP (SCOTLAND), 50 Jones Green, Knightsridge West, Livinaston EH54 8QB ATARI-YAMAHA USER, 49 Summerfield Road, Wythenshaw, Manchester M22 1AE ICTARI USER GROUP, 63 Woolsbridge Road, Ashley Heath, Ringwood, Hants BH24 2LX FALCON FACT FILE (FFF), 11 Pound Meadow, Whitchurch, Hampshire G28 7LG FALCON OWNERS GROUP (FOG), PO Box 353, Stafford ST17 9US PARATARI ST/TT/FALCON USERS GROUP, C./Nicholas Salmeron no 16, 20 Isqda, 47004 VALLADOLID Spain THE PANTHER OWNERS' GROUP c/o Michael Gray, 56 Whitley Crescent, Wigan, Lancs, WN1 2PP

PD LIBRARIES

ME2 4TW = 01634 710788
AD-LIB PD, 22 Alexandra St, Pelton Lane
Ends, Chester-le-Street, County Durham,
DH2 1NT = 0191 370 2496
A-ONLINE ATARI CEC, 1229 East Mohawk
Avenue, Tampa, FL 33604, USA
*00 813 237 1656
AGPD, c/o A Green, 6 Middlebere Drive,
Wareham, Dorset, BH20 45D
ASCARD PD, 20 Langdale Drive, Flanshaw, Wakefield, WF2 9EW
*01924 363059
ATARI USER CROUP (SCOTLAND), 50
Jones Green, Knightsbridge West, Livingstone, EH54 8QB = 01506 32521
AWF PDL, 123 Hazelwell Crescent,

16/32 PDL, 173 High Street, Strood, Kent

T 0121 458 4345 RAISALL PD 6 Rushton Close Balsall Common, Coventry CV6 7PA CHAOS PD = 01296 89059 CALEDONIA PDL, 250 Oldtown Road, Hilton, Inverness IV2 4PT = 01463 225736 DIGITAL DISK, Steve Hill, 162 Burley Grove, Downend, Bristol, BS16 500 FALCON OWNERS GROUP, 10 Oak Drive, Portishead, Bristol, Avon BS20 8QS ☎ 01275 843241 FaST CLUB, 2 Broadway, Nottingham NG11 1PS = 0115 941 0241 FERDY BLASET, Halleyweg 114,3318 CP Dordrecht, Netherlands = 00 3178 172 879 FLOPPYSHOP, PO Box 273, Aberdeen AB9 8SI = 01224 312756 GL-PD 62 Colwyn Ave, Winch Wen,

Swansea SA1 7EI = 01792 799762 GOODMAN PDL, 16 Conrad Close, Meir Hay Estate, Longton, Stoke on Trent, Staffs ST3 1SW = 01782 335650 LAPD, PO Box 2, Heanor, Derbyshire DE75 7YP = 01773 761944 MAGNETIC FIELDS, PO Box 118, Preston, Lancs PR2 2AW = 01772 881190 MERLIN PD, 11 Grange Close, Minchin hampton, Stroud, Glos GL6 9DF ☎ 01453 882793 NEW AGE PDL. PO Box 30. Leigh-on-Sea. Essex, SS9 4AD = 01702 480691 POWER PD, 3 Salisbury Road, Maidstone, Kent, ME14 2TY = 01622 763056 RIVERDENE PDL, 30a School Road, Tilehurst, Reading, Berkshire RG3 5AN **₽ 01734 452416**

SDPD Stephen Day, 11 Allington Mead, Bridport, Dorset DT6 5HF = 01308 427179 SOLENT SOFTWARE, 53 Rufus Gdns, Totton, Hants, SO40 8TA = 01703 868882 STELLAR PD. Newholme, Aston Road, Chipping Campden, Gloucestershire, GL55 6HR = 01386 840737 TRANSPARENT DREAMS PDL, 59 Renton Road, Wythenshawe, Manchester, M22 9TO = 0161 437 7474 TUMBLEVANE PDI 6 West Road Emsworth, Hampshire, PO10 7JT, **☎** 01243 370600 WARPZONE PDL, 53 Ropewalk, River St. St Judes, Bristol BS2 9EG = 0117 941 2021 WHO'S PDL, 5 Highmead, Plumstead, London SE18 2DH = 0181 473 1488

BUYING BY MAIL ORDER

Trading Standards Officer Some Street Any town Postsode

Stirchley, Birmingham B30 2QE

The number of bargains available through mail

order has never been greater - just follow our guide.

1. Before you send any money, ring the supplier to make sure the item you require is in stock. Ask questions about the company's policy on delivery and returns of faulty equipment. Make sure there are no hidden costs such as pestage and packaging. Find out when you can realistically expect to receive your goods.

2. Make sure you read the small print on ads.

Make sure you read the small print on ads.
 Beware of companies that don't include their

address on their adverts, or don't answer or return your calls.

4. By far the best method of payment is by

4. By far the best method of payment is by credit card. If you're ordering goods that come to more than £100 in total value, you are legally entitled to claim compensation from some credit companies if the retailer goes bust. Check your credit card company's policy. You can also try to get extra insurance in advance.

5. If you're not paying by credit card, pay by cheque. Never send cash. Avoid postal orders. 6. Alevays keep a record of your order, and make arre you keep it somewhere safe. If you're buying by credit card keep a note of the time of the order and ask for an order number. When ordering mything over the telephone, double-check

the price before you part with your money.
7. If you are sending a cheque keep a note of the cheque number, the date and the exact value.
Make sure you know the name and some details of the mail order company.

8. When you receive your goods, check them carefully. If anything is missing or faulty, contact the supplier immediately.

9. Order from the most recent issue of STF.

9. Order from the most recent issue of STF. 10. If a problem does arise, contact the supplier first. Calmly and politely tell them your problem. Most problems turn out to be minor hitches or misunderstandings, which can easily be resolved. If you think you have a genuine grievance, contact your local Trading Standards Officer. The number is in the phone book.

BUYER BEWARE

Inclusion in this list does not mear ST FORMAT endorses or recommends libraries, user groups or companies in any way.

If you run a PD library, or a user group/club, and you'd like it to be included in the list, please send details (and your latest catalogue if it's a PD library) to: The Directory, ST FORMAT, 30 Monmouth Street, Bath, Avon, BA1 2BW.

Captain Blunder, aka Simon Forrester, wades his way through piles of reader tips, and carefully selects this month's winning cheats. They're the ones that got stuck to his boot.

Game playing expert though he is, occasionally Simon could do with your help. So send your tips to: Gamebusters, ST FORMAT, 30 Monmouth St, Bath, Avon, BA1 2BW.

FIRST SAMURAI

£9.99 UBI SOFT

= 0181 343 9055

REVIEWED STF 61, 85%

Jody Smith, who assures us that he is in fact a feller, has provided a bundle of invaluable tips for First Samurai, recently re-released on budget by UBI Soft. His guide takes you through each level, with instructions not only how to get through, but also the best way to defeat each guardian.

Ancient Japan

Take the logs to the far right of the level (above the ground) and use them to form a bridge across the waterfall. Continue to the right.

This level's guardian is a dragon, and to defeat him you'll need axes or knives to throw. Stand on the convenient platform provided and throw them at any part of the dragon. When you run out of things to throw, try chopping and punching at the dragon's base.

Civilisation

The teleport at the top left of the playing area transports you

to an underground passage. The flames that you find here can be put out with the pails of water.

When you get through the flames, you come up against a Tribot. Your best tactic here is to corner it against the right-hand statue and continually hack at it, while ducking whenever it fires back at you. Knives would be handy here, although not essential.

Crystal caverns

Use the underground teleport to reach the island in the sky. Just to the right of this is a row of spikes, which can be crossed by using the rocks as stepping stones. Now head off to the right (lots of rightwards motion in this game, isn't there?).

Unfortunately, you're now approaching the spooks. You can't do much here – just stand on the right of the screen and throw whatever you have at them. When they charge, jump and slash as they close in. After a while, they get

■ Here comes the bad guy hatching his evil plot. Boo! Hiss! And all that.

bored and wander off home.

Teleport
labyrinth
To get to the first cavern you need to use
the teleport

directly above your starting position. Once in the cavern, walk to the right (avoiding the mine) until you come to a skeleton swordsman. Use the lightning on him to wake him up and make him attack you. Now, why on earth did you ever want to do that?

To defeat the skeleton you're going to need the knives. Once he's woken, run to the left, turn and shoot him. Throw your knives sparingly – once he starts blocking he carries on for a fair while. When

you run out of things to throw, charge into the skeleton, chopping rapidly, and occasionally jumping over him to attack from behind. Just don't retreat.





■ See that log? You'll need that, only it's protected by a fierce, fire-breathing, and expendable dragon. And you're carrying that sword...





■ Have you ever wondered how computer characters climb so well? In an exclusive interview on set, Sam Urai claimed "it's all in the wrists". Thank you, Sam.

Subway train Just continue to the right until you finish. If you want to collect a few goodies, try jumping while standing on the train's roof, and you should find nice things start to fall from the sky. Or try chopping at ceilings to get hold of even more goodies.

Derelict suburbs

6 The special items are now hidden, so chopping at ceilings often reveals them. Take this level's items (cherubs) to the far right at street level and use them to lift the sacks which are covering the man-

hole, then jump down to face the quardian.

And wish you hadn't. You're looking at a multiheaded monster, and he's not easy to kill. Try standing to its left and hacking while standing up. Kill any heads that grow before they break off and attack you. As this is the toughest guardian around,

you might like to try cheating your way out of it. And this is how.

The easy way to avoid this quardian completely is to make sure you only take two cherubs and a bell. When you ring the bell, only two sacks are taken, providing the perfect platform to jump over the barrel to the right and stroll straight off to level seven.

there. That's it.

This level's special items are snowflakes, which can be used to crystalise the spurts of water, which are scattered throughout the level. Once a spurt has been frozen, hit it until it shatters and you then get a

The guardian here is similar to the one on the first level, so stand on the convenient centre platform and jump while hacking at the lower body. If his head gets near, you should be able to knock it away without any trouble, stopping him from dribbling slime anywhere near you. If your energy level drops too much, use the food hamper that's to your left. Just

More derelict suburbs Use the diamonds to break the forcefields in the same fashion as you used the snowflakes on the previous level. Now you come up against the machine, so keep to the left of the thing and swipe at it. Use the platforms to get at the thing as it gets gradually higher. If you need any extra food or things to throw, you'll find them hidden above the forcefields to your left.

Elevator heights After collecting all nine floppy disks, go to the top right of the area and boot up the main terminal. Once this has been done, all

the monitor screens light up.

It's easy to get lost on this level, so the best thing to do is break any floors or ceilings that are already cracked, so that you can easily tell where you have already been. Secondly, make sure you smash any surveillance cameras, otherwise they'll give away your location to the bad guys.

If you manage to find your way through, you come up against the computer holograms. Hitting the large green button releases a hologram for you to kill. Only release another once the previous hologram has been nobbled, as you can't handle too many at once. The easiest way to kill them is to throw things at them, but as soon as they get anywhere near you just keep jumping and slashing.

Futuristic Japan The special items on this level are eight scrolls, which can be used at the very top of the playing area, where the backdrop is chequered like a chessboard for a nice surprise. Just to the right are stacks of goodies hidden in the ceilings, including food, bells, treasure, scrolls and power-ups. The lantern there helps you uncover them.

You now come up against the demon king. Ooh, goody. While the scrolls are being released, go to the far side and off the chessboard backdrop. If you stay on the chessboard he'll burst through and crush you to death.

The secret of the demon king is to destroy its eyes, so go for one of them. It takes a few attacks, but you should get it in the end.

You need to destroy both eyes to blind him totally, at which point he calls forth extra baddies to help him out. Try to ignore them and jump and hack at the demon king instead - the chances are that the baddies will get caught in the cross-fire anyway. Just keep going until the demon king explodes, and you've finished the game. Well done! Easy, wasn't it?



■ This is the angle of a samurai that you really don't want to see.

■ This is the opening scre affair flanked by tall, foreboding statues

FLOOD

£9.99 EA = 01753 549442

Andrew Reed of Tyne and Wear (Monkseaton, no less) has kindly supplied the complete set of level codes to this classic little game. The codes are:

GRIT ZING JING LIDO POOL HATE REED LIME QUID WING FLEE GIGA HEAD LOOP SING JOUX PINK GOGO LETS QUAD **BRIL EGGS HENS NAIL** SOAP FOAM MEEK

■ Ridley Scott's alien played a number of cameos, this time in the background.

fella. He send mission FROG YEAR QUIF codes. Codes we print. LONG WORD FRED Yeah. Me bad bananas. WINE GRIP TRAP Sorry - no - that's Captain THUD FRAK VINE Blood, isn't it? (Sorry? -JUMP NILL FOUR everyone else)

> 2 - AURIGA 3 - CEPHEUS

EPIC £19.99 OCEAN

☎ 0161 832 6633

4 - APUS 5 - MUSCA

6 - PYXIS

7 - CETUS 8 - FORNAX

9 - CAELUM 10 - CORVUS

We like this Andrew Reed But despite that, it looks blinkin' gorgeous, as you can see

A mélange of tips

This time, it's Richard Brown from Portishead, with some short tiplets:

Ghosts 'n' Type: Delboy during the credits for invincibility **Arkanoid Rev of** Doh: Type: Magenta on the title screen, then use [S] within the game to skip levels. **Double Dragon:** On the two-player game hold down both [Fire] buttons and press [Esc]. When the credits start acting strangely both characters have infinite lives.

Pouble Dragon 2: On the high-score chart, type: Are you calling my pint a puff? for infinite credits. the game and type: Thunderblade. Now you can press [G] for extra missiles, [N] for extra lives, [<] for the previous stage and [>] for the next one. If you don't win now, well...



■ "How does he hover on his burn, then?" the vultures wondered to each other.

Revenge of the Mutant Camels

16/32 PDL = 01634 710788

It's that Andrew Reed chap again! And he's sent us all these level codes for the Minter classic:

OLLANTAYTAMBO RAVEADELICA **NEWCASTLE EMLYN** THIS IS BASINGSTOKE OCCAM II



DYNABLASTERS

UBI SOFT = 0181 343 9055 STF 43, 92%

This Andrew Reed bloke just keeps on going, doesn't he? Positively Duracell-like, he is. For your playing pleasure, your digital delectation and your gaming gaiety, the playing codes you'll need for the one-player levels of this excellent bombastic, erm, game are as follows:

RKOVGEHK UUYKWGEU UKCZJGVG UWVKOPST RWHYJWLA

RKBVGMHE UUOVEVPU RAFAVONL UKFHEVHG **UOBHPOPA RBVCQTVR** RWANPTVZ UKZHWSAG UBNZOLUK UOGZMSGU **RWCYQNLR** UKNZPJUV **UBGZOMUH** МКСАРНАН MUNEPBCP **UKGOWPSG** UKNOWVSG **RWEZMOHK**

...and another

Peter Tuffin has graciously sent us a whole wodge of tipettes to help you out in your hours of need:

Bart vs Mutants: Type: cowabunga the first time you see the family (with the music playing) for infinite lives. On the nuclear plant level the floor codes are 14, 32, 11, 41, 21. veek: Hold down the Space bar and press [F2] on the title screen for a random level. Toki: During the introduction, press [Esc] before the man transforms, then type: poortoki. On the first level type: killer for infinite credits. If you press a function key, you're sent to the corresponding level.

Dragon Ninja: Type: ter-rific, then press [F3] for infinite lives or [H] to skip levels.

■ Toki, a man turned to a gorilla, in desperate search of his luuryly laydee.

Prince of Persia: Hold [Shift] and [H] to skip levels.

Axel's Magic Hammer: When you get the 'Continue' message, take the disk out of the drive and press the [Fire] button to restart without the blocks you have already destroyed.



COLOUR KITS for MONO PRINTERS

Ever wished you'd bought a colour printer instead of a mono one? Wouldn't it be nice to print out pictures in colour? Now you can with Amiga "FlexiKolor Kit". Each Atari FlexiKolor Kit comes complete with everything you need to print in colour, including superb software. The colour kit is simple to use, the ribbons fit exactly the same way as your black ribbons so it will not affect your guarantee. Also on all models listed below paper alignment is automatic, you do not have to manually align. PRINTS AS

GOOD AS COLOUR PRINTER. If your printer is not listed below then please phone. Atari FlexiKolor kits for Star LC10, LC20, all Star 24 Pin, Panasonic 1080/81/1123/1124. Epson FX80, LQ100, LQ400, LQ800 etc. Citizen 120D+, NEC

P6, P6+, Seikosha 1900+. Please note colour kits come complete with coloured ribbons and software.

COMPLETE KIT £39.95

FLEXIDUMP PLUS 3 THE COLOUR SOFTWARE FOR YOUR COLOUR PRINTER

NO MORE BANDING! NO MORE WHITE LINES!

Yes, it's true, the new Plus 3 will remove banding & white lines from dot matrix & bubblejet printers. Now you can have deskjet quality on dot matrix and bubblejet printers.

- * Balance control for picture enhancement
- * Select area to be printed
- * Select size to be printed
- ★ Page control
- * Colour sieve * Ink correction
- * Automatic poster mode for larger than A4
- * Gamma correction (fully adjustable and saveable)
- * Spooler for colour letterheads etc
- * Imports a large range of file types including (IMG) larger then screen size, tiny, Spectrum 512, IFF, Degas, Neo, IFF (Amiga), HAM (Amiga). Yes, you can even print Amiga pics.
- ★ Colour separation (Print colour on your Bubblejet/Deskjet)
 ★ Ideal for T-shirt printing
- * Now with anti aliasing, to get rid of those jagged edges
- * Large range of dithering (dot pattern) modes
- * Run in any resolution, view, manipulate and print in any other resolution
- ★ Colour catalogue function will print a miniature of each picture configurable between 1 to 8 across
- ★ Will drive 9 or 24 pin Star, Citizen, Swift, Panasonic, NEC. Epson, Canon, HP Deskjet 500C, 550C, Laserjet etc

STILL ONLY £39.95 inc

T-SHIRT PRINTING RIBBONS PRINT ON NORMAL PAPER IRON ON T-SHIRT

4 Colour Citizen Swift £2	29.9
4 Colour Citizen Swift (Reload)	14.9
4 Colour Star LC10	
4 Colour Star LC200 9 Pin £	99
4 Colour Star LC200 9 Pin (Reload) £	
4 Colour Star LC200 24 Pin £2	
4 Colour Star 24 Pin (Reload) £	
4 Colour Seikosha SL95 £2	20.0
4 Colour Seikosha SL95 (Reload) £	4.0
1 Colour Citizen 120D/Swift	11.9
1 Colour Star LC10£	11.9
1 Colour Star LC200 9 Pin	
1 Colour all Star 24 Pin £	11.9
1 Colour Epson FX80/LQ400/MX80 £	11.9
1 Colour Epson LX80£	11.9
1 Colour Epson FX100 £	11.9
1 Colour Panasonic KXP 1080 £	11.9
1 Colour Taxan/Canon 1080A	11.9
Heat Transfer Pens 5 large red/orange/yellow/green/blue.	
Large pens have a marker size nib £14.95	a si
Heat Transfer Pens 5 small red/orange/yellow/green/blue.	
6 11 1 6 11	-

How to order. Enclose cheques/PO made payable to: CARE ELECTRONICS or use Access/Visa

ALL PRICES INCLUDE VAT AND CARRIAGE Order Line 0923 894064 CARE ELECTRONICS

Dept STF, 15 Holland Gardens, Garston, Watford, Herts WD2 6JN

Tel: 0923 894064 Fax: 0923 672102 VISA

HP DESKJET CARTRIDGES

HP Deskjet Cartridge (double capacity)
HP Deskjet Tricolour Cartridge
HP Thinkjet/Quietjet/Commodore MPS 1270 Cartridge

PRINTER RIBBONS

Don't throw away your plastic printer ribbon cases when the ribbon wears out. Just take the top off, take out the old ribbon and reload it with a new one. It's simple Full instructions supplied. Black reloads from as little as 99p each

COLOUR PRINTER RIBBONS

| Reloads for most colour printers including | Star LC200 9 Pin 4 Colour (Normal Ink) | 5 Reloads £23.95 | 5 Reloads £23.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Colour (Normal Ink) | 5 Reloads £29.95 | Star 24 Pin 4 Pin

Green, Blue, Red for a wide range of printers.

Special re-ink for Panasonic printers, Star LC200 9-pin, Epson LQ100,

OKI 182-390, black bottle will re-ink 100+ ribbons£9.95

NO MESS INK REFILLS FOR HP DESKJET PAINTJET AND CANON BUBBLEJETS

"CARE THREE PACK" will refill HP51608A Cartridge 3 times. The Canon BC-01/SJ48 Cartridge 3 times. Three pack available in yellow, agenta, cyan, red, green, brown, purple, black £14.98 each "TRI-COLOUR PACK" 3 yellow, 3 magenta, 3 cyan refill £17.95 "CARE SIX PACK" will refill HP51608A Cartridge 6 times, the Canon BC/01 Cartridge 6 times 6 PURE BLACK REFILLS ONLY £24.95 Refills for a wider range of inkjets & bubblej Please state type when ordering

Print Head Recovery Fluid for unblocking inkjet/bubblejet cartridges, 18ml bottle £5.95

FROM THE PUBLISHERS (special prices, latest versions, full packages)

Easy Text Plus now only £9.99 inc p&p

Desktop Publishing package ver 1.4a. ST Format 89 For any ST(e) 520, or 1040. Runs in high/med res. Outstanding output to:

- Any 9/24 pin Epson dot-matrix printer
- This means most, if not all, modern printers
- CanonBJ10e/BJ10ex, and other inkjets
- including Epson Stylus
- Deskjets & lasers, 300*300 dpi

Create columns, word wrap, import & edit text Import Degas clip art, crop as required & place on page Complete with 88 page User Guide etc, etc

Please specify printer when ordering Easy Text Plus

Easy Text Professional now only £19.99 inc p&p

Desktop Publishing package. ST Format GOLD award. For any ST(e) 1040. Runs in high/med res. Requires 1 Meg of RAM Output as above. Graphics import: IMG, GEM, TNY, TN3 etc. Crop and resize. 16 preset vector objects, eg circle, star. 28 fill styles; editable DEGAS FIL format. 135 page User Guide, A5 ring binder. Import text; First Word, Protext, etc. Text runaround. Multiple pages: add/copy/move/delete pages: etc etc.

Easy Text Pro Vector now only £19.99 inc p&p

Desktop Publishing package, ver 2.0 - latest version runs in high/med res. Requires 2 Meg of RAM & a hard disk, or 2.5 megs of RAM & a RAM disk (provided). Also requires SpeedoGDOS 4 or 5, or NVDI ver 3 - must be purchased separately. For True Type font compatibility requires Speedo 5, or NVDI 3, Program specifications as above: plus text can be any point size, and can be rotated through any angle. For the very best in output - this program is the topsl

Introducing ATARI ST Machine Code - 405 page book & disk £14.99 incl first class postage in UK.

All prices include postage & packaging in UK. Airmail Europe add £3.00, rest of world add £5.00. Immediate despatch.

For full details or to order phone 01254 386192 9am-6pm Monday-Saturday. All major credit cards taken. Or write

zzSoft, 114 Sparth Road, Clayton Le Moors, Accrington, Lancashire BB5 5QD

FaST Club

7 Musters Road - Nottingham - NG2 7PP Tel: 0115-945-5250 - Fax: 0115-945-5305

... an indispensable tool ... streets ahead of its

competition... one of the most desirable utilities the Atari platform has ever seen.

Andrew Wright in ST Review #35

Imagecopy plus Textstyle just £29.95

☐ Imagecopy 3.5

- Copy images from screen and display images and slide shows in any ST/TT/Falcon video mode. Convert images between different formats. All
- common picture file formats are supported. Batch processing facility: convert or print batches of
- images. Also does catalogue pages of images.
- Thumbnail option that displays miniatures of a set of images in a window, great for creating catalogues.
- Nine zoom levels plus flip and rotate.
- Print pictures in black and white or colour on 9-pin, 24-pin, Stylus, Bubbleiet, DeskJet, and LaserJet, Sophisticated colour settings ensures that you get the very best results from your printer and the microweave printing option minimises unwanted banding.
- Prints catalogue pages with up to 40 or more pictures on a single page. Also prints multiple copies -great for letterheads, invitations, labels, signs, posters, greeting cards, etc.
- Rated at 93% in ST Review and ST Format and awarded Essential Buy and Format Gold awards.

Return program disk and payment for upgrades. From v 3.xx - £6.95; 2.xx - £15.95; 1.5x - £20.95; 1.xx -£24.95. Add £5 for upgrade to Imagecopy 3.5CD.

Imagecopy 3.5CD £34.95
Imagecopy 3.5 CD can also load Photo CD images

Textstule

□ Textstyle Enter your text into Textstyle, select a Calamus or GEM

font, add text effects and justification, and the resulting picture file can be imported into a whole range of packages. Great for generating headlines for wordprocessors like First Word Plus, Redacteur or Write ON; or use it with an art package such as



□ Textstyle

HyperPaint to make posters, banners, logos, greetings cards, etc. Thousands of uses. **FFRFF**

Order Imagecopy 3.5 and get Textstyle free!

FREE

☐ FaST Club Catalogue

Probably the most comprehensive catalogue for the ST. Details on hundreds of PD and Shareware disks and accessories, plus specifications of all of the commercial software products that we publish.

24-hour Catalogue Hotline 0115-945-5250

Ordering ... Tick the items you require and From: send us th paper, al to 4 days

send us this advert, a photocopy, or just a list on a sheet of paper, along with a cheque or Postal Order. Please allow up to 4 days for delivery. Sorry, we do not take credit card orders	
Delivery - £1.25, free on orders over £19. Overseas Orders	
Welcome - ask for Overseas Price List. Membership - You	
do not have to join or subscribe before buying from us.	
E&OE. All prices include VAT.	

Please Send Cheques/PO's (made out to Premier Mail Order) or Access/Visa/(Switch + Issue No) & Expiry Date to: Dept: STF03 9-10 THE CAPRICORN CENTRE, CRANES FARM ROAD, BASILDON, ESSEX SS14 3JJ.
Telephone orders: 01268-271172 Fax your order on: 01268-271173 Mon-Fri 9am-7pm Sat&Sun 10am-4pm. We are open 364 days a year

P&P and VAT included for all UK orders. Please add per item £2 P&P for Europe and £3.50 for the rest of the world. Next day service available UK only @ £4.00 per item. of going to press. Most titles are despatched same day, but can take up to 28 days. E&OE Please note: Some titles

A320 Airbus (Europa)22.99
A320 Airbus (USA)
Action Service
Addams Family8.99
Alien Storm9.99
Altered Beast 6.99 Another World 12.99
Back to the Future 8.99
Badlands6.99
Battle of Britain
Battlehawks 1942 10.99 Beach Volley 6.99
Blue Angels
Board Genius12.99
Bonanza Brothers
Booly 6.99 Brat 6.99
Blat
Bully's Sporting Darts8.99
Cabal 6.99
California Games 2 6.99
CANNON FODDEK19.99
Carl Lewis Challenge12.99
Carl DeWs Chairing 2.299 Championship Manager 93 16.99 Champ Manager End of Season 11.99 Chaos Engine 16.99 Chaos Engine 16.99 Chaos Engine 16.99 Chaos HQ (
Champ Manager End of Season 11.99
Chaos Engine16.99
Chase HQ6.99
Cluedo/Pick/Scrabble 12.00
Cisco Heat 6.99 Cluedo/Risk/Scrabble 12.99 Cohort 2 19.99
Colonels Bequest12.99
Conflict in Europe7.99
Crossbow
Count Duckula 6.99 Count Duckula 2 6.99
Cruise for a Corpse 12.99
Cybercon
Cybercon III 10.99 D Day - Dare You Relive It 22.99
Dalek Attack. 8,99 Daley Thompson's Olympic Chall. 6,99 Dragon Ninja 6,99
Daley Thompson's Olympic Chall6.99
Dragon Ninja
Dynasty Wals
ELITE 2 - FRONTIER19.99
Epic
European Champions 19,99 European Football Championship 10,99 European Superleague 8,99 EVI
European Football Championship10.99
European Superleague8.99
EXILE 19.99 EXTERMINATOR 17.99
F117.99
F15 Strike Eagle II 14.99 F16 Combat Pilot 8.99
F16 Combat Pilot8.99
F19 Stealthfighter
F29
Fallen Angel6.99
Fantasy World Dizzy 6.99 Final Assault 12.99
Flight Sim 2 Great Britain Scenery26.99
Flight Sim OLATOR 2
Flight Sim 2 USA No 9 Chicago 13 00

s may not be released at the	
Flight Sim 2 USA No 11 Detroit Flight Sim 2 USA No 12 New York Flight Sim 2 Western Europe Frenetic. Fusion	13.99
Flight Sim 2 USA No 12 New York	13.99
Flight Sim 2 Western Europe	13.99
Frenetic	7.00
Gauntlet 3	9 99
Gazza 2	6 99
Gnouls & Gnosts Gomoku Graham Gooch Cricket. Graham Gooch Second Innings. Gunship	6.99
Graham Gooch Cricket	19.99
Graham Gooch Second Innings	10.00
Hard Drivin	8 99
Hard Drivin	8 99
Hard Nova	8.99
Hardball	6 99
Harley Davidson Heroquest High Steel	7.99
Heroquest	7.99
High Steel	6.99
Hook Hoyles Book of Games 1 or 2	12.00
Huckleherry Hound	8 99
Huckleberry Hound Hudson Hawk Impossible Mission 2 Indiana Jones & Last Crusade Action Ishar 1 or 2 or 3	6.99
Impossible Mission 2	6.99
Indiana Jones & Last Crusade Action	6.99
Ishar 1 or 2 or 3	19.99
Ivanhoe Jack Nicklaus Greatest 18 Holes Jahangir Khan Squash	6.99
Jack Nicklaus Greatest 18 Holes	6.99
Jahangir Khan Squash	6.00
James Pond	6 00
James Pond. Jaws Jimmy White's Whirlwind Snooker. John Barnes Football. KICK OFF 2 Kids Rule OK King of Chicago Kings Quest 1 or 2 or 3 or 4 Kings Quest 1 or 2 or 3 or 4 Kings Quest 1 or 2 or 3 or 4 Kings Larry 1 or 2 or 3 LEMMINGS 2 - THE TRIBES. LEMMINGS 2 - THE TRIBES. Lemmings Double Pack Lethal Weapon Liberator.	12 99
John Barnes Football	6.99
KICK OFF 2	9.99
Kids Rule OK	12.99
King of Chicago	7.99
Kings Quest 1 or 2 or 3 or 4	12.99
Last Ninia 2	6 00
Leisure Suit Larry 1 or 2 or 3	12 99
LEMMINGS 2 - THE TRIBES	17.99
Lemmings Double Pack	19.99
Lethal Weapon	8.99
Liberator	4.99
Line of Fire Lombard RAC Rally Loom	9.99
Loom	12 00
Lotus Esprit Turbo Challenge LOTUS TRILOGY Lure of the Temptress M1 Tank Platoon Manchester United	7.99
LOTUS TRILOGY	19.99
Lure of the Temptress	12.99
M1 Tank Platoon'	12.99
Manchester United	6.99
Maniac Mansion	
Mercs	8.99
Metal Mutant	8 99
Microprose Soccer	6.99
Midwinter	10.99
Midwinter 2	14.99
MIG 29	10.99
Moonfall	7.99
Moonwalker	6.99
Munsters Narc	6.00
Navy Moves	6.99
Navy Moves New Zealand Story Nigel Mansell's World Championship	6.99
Nigel Mansell's World Championship	19.99

á	going to press. Most titles are ut	colt	atencu same uay
	Nightbreed 6.99	9 5	tardust
	Night Shift 10.99		torm Master
	Operation Harrier 8 90	2 0	treetfighter
	Operation Stealth	9 S	treetfighter 2
	Operation Stealth 11.99 Operation Thunderbolt 6.99 Operation Wolf 6.99	9 5	tridertrider 2
			triker
	Outrun Europa8.99	9 S	trikefleet
	Outrun Europa 8.99 PACIFIC ISLANDS 9.99 Parasol Stars 8.99	9 5	tun Runnertunt Car Racer
	Distinger 6 00	2 0	uper Hangon
	PINBALL MAGIC8.99	9 S	upercars
	Pirates	9 S	upercars 2uper Monaco Grand Prix
	Pitfighter 6.99 Pixie & Dixie 8.99	9 5	uper Monaco Grand Prix
	Platon 6.00	9 S	uper Space Invaders
	Police Quest 1 or 2	9 5	upremacywitchblade 2
	Popeye 2	9 S	witchblade 2
	Populous and Promised Lands 12.99	9 3 9 T	wiv. ACTICAL MANAGER
	Postman Pat 6.99 Postman Pat 3 6.99	9 Î	erminator 2
	Postman Pat 36.99	9 T	est Drive 2
	Powerdrome	9 T	etris
	Powerdrome. 7,99 Powermonger + WW1 Data Disk. 12,99 PREMIER MANAGER 2. 17,99	9 T	he Games
	Pro Tennis Tour6.99	9 T	he Patrician
	Puffy's Saga6.99	9 T	heir Finest Hour
	Pushover 8.99 R-Type 6.99	9 I	heir Finest Missions
	Rainbow Islands	9 T	hunderstrike
	Rambo 3	9 T	imeblaster
	RBI Two Baseball	9 T	ime Race NT Combat Mission
	Reach for the Skies 12.99 Renegade 6.99		N I Combat Mission oki
	Rick Dangerous 6.99	9 T	otal Recall
	Rick Dangerous 6.99 Rick Dangerous 2 8.99	9 T	racksuit Manager
	Risky Woods 8.99 Robinsons Requiem 19.99	9 T	ransarctica
	Rocket Ranger	9 T	rivial Pursuit
	Robocod 8 90	Q T	urbo Outrun
	Robocop 6.99 Robocop 2 6.99 Robocop 3 10.99	9 T	urrican
	Robocop 2	9 I	urrican 2
	Rubicon 9.99	9 T	urtles urtles World Tour
	Rubicon 9.99 RUGBY LEAGUE COACH 19.99	9 T	usker
	Run the Gauntlet6.99	9 L	Itimate Golf
	SCI	9 [JN Squadron Jtopia
	SDI 6.99	9 V	ictory Road
	Scrabble 20.99 SECRET OF MONKEY ISLAND 12.99	9 V	ovager
	SECRET OF MONKEY ISLAND12.99	9 1	Varlocks Quest Vindwalker
	Sensible Soccer 92/93 16.99 Sensible Soccer International 13.99 Sensible World of Soccer 19.99	9 V	Vinter Gold
	Sensible World of Soccer	9 V	Vizball
	Shadow Dancer7.99	9 V	Vizkid
	Shadowlands 8.99 Shinobi 7.99	9 V	Vorld Class Leaderboard VRECKERS
	Shufflepuck Cafe 6.99	9 V	VWF
	Shuttle 12.99	9 V	VWF VWF - European Rampage .
	Simpsons6.99	9 X	Cenon II
	Skychase 7.99 Smash TV 6.99	0 7	(-Out
	Snowstrike	9 Z	ak McKraken
	Spoty & Swaap 6.00	0	
	Space 1889	9	SPECIAL
	Space Quest 1 or 2 or 3	9	
	Space 1889 12.99 Space Crusade 8.99 Space Orusade 12.99 Space Outs 1 or 2 or 3 12.99 SPEEDBALL 2 8.99	9 0	Chaos Strikes Back
	Starblade	9 (harge of the Light Brigade.

	A STATE OF THE PARTY OF THE PAR
Stardust	16.99
Storm Master	8 99
Streetfighter Streetfighter 2	8 00
Compare Street 2	12.00
Streettighter 2	12.99
Strider Strider 2	
Strider 2	8.99
Striker	8 99
Strikefleet	6.90
Strikefleet Stun Runner	6.00
Stun Kunner	0.99
Stunt Car Racer	0.99
Super Hangon Supercars Supercars 2 Super Monaco Grand Prix	6.99
Supercars	8.99
Supercars 2	8 99
Super Monago Grand Priv	8 00
Super Monaco Grand Frix	0.00
Superski Z	8.99
Super Space Invaders	8.99
Supremacy	10.99
Super Si 2 Super Space Invaders Super Space Invaders Supremacy Switchblade 2	8.99
Swiy	8 00
SwivTACTICAL MANAGER	10.00
Test Drive 2	19.99
Terminator 2	6.99
Test Drive 2	6.99
Tetris 4	14.99
The Adventures of Robin Hood	12 00
The Adventures of Room Hood	10.00
Tetris. The Adventures of Robin Hood The Games. The Patrician.	10.99
The Patrician	19.99
Their Finest Hour	12.99
Their Finest Hour	9.99
Thomas the Tank Engine	0.00
Thunderstrike	7.00
Thunderstrike	
Timeblaster	4.99
Time Race	6.99
TNT Combat Mission	7.99
TNT Combat Mission	8.99
Total Recall Tracksuit Manager Transarctica Trauma	6.90
Trooksuit Managar	6.00
T	17.00
Transarctica	17.99
Trauma	6.99
Trivial Pursuit	6.99
Turbo Outrun	6.99
Turrican	6 90
Turrigan 2	6.00
Turtles. Turtles World Tour. Tusker. Ultimate Golf.	0.00
Turnes	9.99
Turtles World Tour	9.99
Tusker	6.99
Ultimate Golf	8.99
Utopia Victory Road	8 00
V: D	7.00
Victory Road	
Voyager	6.99
Warlocks Quest	7.99
Windwalker	
	7 99
Winter Gold	7.99
Windward Gold	7.99
Winter Gold	7.99 12.99 6.99
Winter Gold Wizball Wizkid	7.99 12.99 6.99 10.99
Winter Gold	7.99 12.99 6.99 10.99
Warlocks Quest Windwalker Winter Gold Wizball Wizkil World Class Leaderboard. WRECKERS.	7.99 12.99 6.99 10.99
Winter Gold Wizball Wizkid World Class Leaderboard WRECKERS	7.99 12.99 6.99 10.99
Winter Gold Wizball Wizkid World Class Leaderboard. WRECKERS. WWF	7.99 12.99 6.99 10.99
WWF - European Rampage	7.99 6.99 10.99 10.99 19.99 8.99
WWF - European Rampage	7.9912.996.9910.9910.9919.99
WWF - European Rampage	7.99 12.99 10.99 10.99 19.99 8.99 8.99
WRE CRERS. WWF - European Rampage Xenon II. X-Out. Z-Out. Zak McKraken.	7.99 12.99 10.99 10.99 19.99 8.99 8.99
WWF - European Rampage	7.99 12.99 10.99 10.99 19.99 8.99 8.99

12.99	
8 99	E-mark to
8.99	Better 1
6.99	Better S
6.99	Cave N
6.99	Fractio
6.99 8.99 8.99	Fun Sc
8 00	Magic
8.99	Maths
	Maths Maths
8.99	NODD
10.99	Picture
8.99 8.99 19.99	Playda
8.99	Reason
6.99 6.99 14.99 12.99 10.99	Sooty's The Th
6.99	Thoma
14.99	Tidy th
12.99	-
10.99	156 A
19.99	Secretaria de la constanta de
12.99	,
99 9.99 7.99 4.99	10
7 99	20
4.99	50
	100
7.99	
8.99	
6.99	10 @
6.99	
6 99	
6.99	
	Marie Services
6.99	10 Cap 40 Cap 50 Cap 80 Cap 100 Ca
6.99 9.99 9.99	40 Cap
9.99	80 Cap
6.99	100 Ca
8.99	Cheeta
6 00	Cheeta
8.99	Compe
8.99	Freewh
7 00	Gravis Gravis
6.99 7.99 7.99 12.99	Joystic
12.99	Joystic
6.99	Logic 3
10.99	Logic 3
10.99	Logic :
19.99	
8 00	Logic : Logic : Logic :
8.99 8 99	Mouse
8.99	Mouse
8.99	Mouse
8.99 8.99 6.99	Mouse Mouse Quickj Quickj
8.99 8 99	Mouse Mouse Quickj Quickj Quickj
8.99 8.99 6.99	Mouse Mouse Quickj Quickj Quickj Saitek
8.99 8.99 6.99	Mouse Mouse Quickj Quickj Quickj Saitek Screen
8.99 8.99 6.99	Mouse Mouse Quickj Quickj Quickj Saitek

Kick o	off 2 Winn	ing Taction	S		5.99
Psych	o Selection	n Soccer (Compilation	1	9.99
		EDIJO	ATION	A	
		EDUC	ATION.	AL	
	Contract of the Contract of th			and the same	A CONTRACTOR OF THE PARTY OF TH
Better	Maths (12	2-16)			13.99
Better	Spelling (8+)			13.99
Cave 1	Maze (8-1	2)			9.99
Fractio	on Goblin	s (8-13)			9.99
Fun S	chool 2 (-6	6) or (6-8)	or (8+)		6.99
Junior	Typist (5	-10)			10.99
Magic	: Maths (4	-8)			13.99
Maths	Dragons	(6-13)			10.99
Maths	Mania (8	-12)			13.99
NODI	DY'S PLA	YTIME	(3-7)		16.99
Pictur	e Fraction	s (7-10)			9.99
Playda	ays				16.99
Reaso	ning with	Trolls (5-	12)		10.99
Sooty	s Fun wit	h Number	S		13.99
The T	hree Bears	5 (5-10)			13.99
Thom	as's Fun v	ith Word	s		13.99
Tidy t	ne House	(6-10)			9.99
T0000000		S E II DI	ank Dis	200	755525F
		ום יט.כ	ank Dis	005	
	Verbatim	Precision	Unbrande	d Recycleti	
10	£ 00	2.00	2.50	2.00	
10	5.99	3.99	3.50 6.50	2.99	
20	11.50	7.50	6.50	5.50	

27.50 17.50 16.25 12.50 52.50 32.50 29.99 22.50 RECYCLED DS/DD Low Density 2.99 20 @ 5.50 50 @ 12.50 100 @ 22.50

JOYSTICKS &

	ACCESSURIES	
	10 Capacity 3.5" Disk Box 40 Capacity 3.5" Disk Box. 50 Capacity 3.5" Disk Box. 80 Capacity 3.5" Disk Box. 100 Capacity 3.5" Disk Box.	1.99
	40 Capacity 3.5" Disk Box	4.99
	50 Capacity 3.5" Disk Box	5.99
	80 Capacity 3.5" Disk Box	6.99
	100 Capacity 3.5" Disk Box	7.99
	Cheetan 123+	
	Cheetah Bug	11.99
	Competition Pro Extra	14.99
	Freewheel Steering Wheel	24.99
	Gravis Advanced Switch Joystick	22.99
	Gravis Gamepad	15.99
	Joystick Y Splitter	4.99
	Joystick Extension Cable	6.99
	Logic 3 Delta-Ray Autofire - JT156 Logic 3 Quattro GT Autofire - JT155 Logic 3 Quatro - JT154	10.99
	Logic 3 Quattro GT Autofire - JT155	10.99
	Logic 3 Quatro - JT154	8.99
	Logic 3 Logipad - JT160	11.99
	Mouse	
	Mousehouse	
	Mousemat	1.99
	Quickjoy Topstar	17.99
	Quickjoy Jetfighter	10.99
	Quickjoy Pedals	17.99
ı	Saitek Megagrip II Autofire - MX220	10.99
ı	Saitek Megagrip II Autofire - MX220 Screenbeat 3 Speakers - SB203 Screenbeat Mains Adapter	12.99
ı	Screenbeat Mains Adapter	
	Suncom Tac 2	
	Suncom Slik Stick	
	Wico "Q" Stick	4.99

CHAOS P.D.

NEW DISK PRICES IN OPERATI

DSDD PRICES		DSF	ID PRICES
10	€4.00	10	€4.50
20	£7-50	20	£8.00
50	£15.00	50	£19.00
100	€28-00	100	£36-00
200	£54.00	200	£70.00
500	£130.00	500	£170.00
1000	£255-00	1000	£335-00
5000	£1250-00	5000	£1650.00
5 FREE	ST PD GAMES	WITH EV	ERY 50 DSDD

ALL PD GAMES STILL £1

ALL DISKS HAVE FREE LABELS AND FREE POSTAGE AND PACKAGING IN THE UK ALL DSDD DISKS ARE PRE-FORMATTED TO THE ST AND INCLUDE 5 FREE GAMES PER 50. IN THE UNLIKELY EVENT OF ANY FAULTS, WE ARE HAPPY TO REPLACE THEM, BUY FROM CHAOS P.D. WITH CONFIDENCE

FOR HOW TO ORDER CALL (01296) 89059 FROM 6-9PM NSWER MACHINE ALL OTHER TIMES (WE WILL PHONE BACK)

For a fast, efficient and friendly service, join the growing band of customers who have been committed to the Ascillum.

DISK PRICES

1-5 disks £1·25 6+ disks £1·00 Any 12 disks for £10·00 - only 88p each!

CATALOGUE

Please send two 25p stamps for disk catalogue complete with free P.D Software

34 Earlswood Gardens, Clayhill, Ilford, Essex IG5 0DF

For the best P.D., you need the best P.D.L. You need....



Power P.D. 3 Salisbury Road, Maidstone, Kent ME14 2TY Tel: (01622) 763056

(IDNIE TY

Per disk including P&P! No minimum order or hidden charges (£1.49 per disk out of U.K.)

For the ultimate disk catalogue with **FREE** P.D., just send a disk and S.A.E.

Same day despatch, friendly service Always willing to help. Years of experience - pure dedication

as a service rather than a business.

ADVERTISERS INDEX

16/32 SYSTEMS38	
1ST COMPUTER CENTRE3	
ANALOGIC COMPUTERS14	LADBROKE COMPUTINGIBC
ASCIILUM78	MERLIN PD
BOOKS66	OWL ASSOCIATES65
CARE ELECTRONICS77	POWER PDL78
CHAOS PD	
DART COMPUTERS60	SILICA SYSTEMS23, 29,37
DATAGEM LTD35	THE ST CLUB
EDGE45	
EVERGLADE60	TRADING POST60, 65
FAST ENGINEERING SERVICES .68	
GASTEINER TECHNOLOGIES LTD .17	
HI SOFTIFC	
INTERMEDIATES LTD10	WIZARD GAMES65
JCA EUROPE LTD38	ZZ SOFT77

ST FORM

Back Issues Plus

SPECIAL OFFER!

A FREE BINDER (WORTH OF THE PROPERTY OF THE



ISSUE 67

FEBRUARY 1995 Disk: Smash Hit and KAOSDesk 2.1 Inside: Pure Genius - explore your ST's to head; ProTOS show Reviewed: Obsession, Quill 2, Imagecopy Colour 3.5



ISSUE 66

JANUARY 1995 Disk: Stardust, Endurance, Route Finder and more Inside: All you need to know about animation; ST First Aid course; programming tutorials Reviewed: Zero-5, Metamorphosis...



ISSUE 65

DECEMBER 1994 Disk: Grafix, Jetpac, Arcade Classics and many more Inside: Plug your ST into head; GFA and Personal Pascal tutorials Reviewed: Twist 2, ScreenEye...



ISSUE 64

NOVEMBER 1994 Double Disk special: Personal Pascal, Starball, Grafiek and much more Inside: The future of the ST; full PD library round-up Reviewed: HERO, NeoDesk 4, Munch, Robinson's Requiem



ISSUE 63

OCTOBER 1994 Disk: Ouill and HERO demos and FORMAT Gold winners; coding for beginners Reviewed: Starball, Protext 6.5, Papyrus Gold and That's Write 3



ISSUE 62

SEPTEMBER 1994 and TUC Inside: Supercharge your ST special Reviewed: Rainbow, Xenomorf Nova card, MIDIarid Pro. Rorke's Drift...



ISSUE 61

AUGUST 1994 and Atari View 3.8 Inside: Serious software preview; art packages rated Reviewed: 3D Calc, Kobold, Diamond Back 3. HP Chrome 2.5



ISSUE 60

Disk: Snacman, DeskPic, Sam 2 Disk, Diskfree and Music Mon 2 demo Inside: Next generation of ST games; WPs sorted; file handling; Exposé Reviewed: MagiC, DA's Vector Pro...

CLASSIC ST FORMAT

£4 EACH

Did you miss an old ST FORMAT? Is there a Cover Disk you need? Then just tick the issue number(s) you want on the order form below

and post it - you don't even have to pay the postage if you're in the UK. If you don't want to take advantage of our special offer of three

issues plus free binder for £10, you can still order a binder separately for £5.95, or two for £9.99. Just make sure you tick the right box...

	-
Name	
Address	
PostcodeTelephone	
TOTAL ORDER VALUE	3/95
Method of payment - please tick Access Visa Cheque PO Please make all cheques payable to Future Publishing Limited.	STE
Credit card number	
Expiry date	

Please send me the following back issues:

□ 42	□ 43	□ 44	□ 45	□ 46	□ 47	□ 48
□ 49	□ 50	□ 51	□ 52	□ 53	□ 55	□ 56
□ 57	□ 58	□ 59	□ 60	□ 61	□ 62	□ 63
□ 64	□ 65	□ 66	□ 67			

☐ One ST FORMAT binder for £5.95 ☐ Two ST FORMAT binders for £9.99

Call Customer Services on a 01225 822510 for availability of any other back issues. Customers outside the UK please add £4 for overseas delivery.

SEND THIS FORM TO: ST FORMAT Back Issues, Future Publishing, FREEPOST (BS4900), Somerton, Somerset, TA11 6BR, You don't even need a stamp if you post it in the UK! Please tick this box if you do not wish to receive direct mail from other companies

Or call 📅 01225 822511 and have your credit card ready

FEEDBACK

From an ST murderer to a weighty discussion about ST FORMAT's resident wobblers, it's all here in this funny old collection of pages they're already calling Feedback. Karen Levell takes the paper cuts like only a woman can...

Memory to die for?

I'm writing this letter as one of both praise and warning to a certain category of ST users. My letter is about the infamous Marpet upgrade kit (ST FORMAT 62).

First of all I'd like to compliment Marpet on a great service in relation to on-line help and speedy posting. But now to my complaint/warning. I posted away to get a 2.5MByte upgrade for an STFM from Marpet. I read the manual from start to finish and kept it open during the 'operation'. Everything was fine until I came to soldering a chip over the videoshifter chip. Basically, to cut a long story short, my ST then died a horrible death and has since cost me £180 to get fixed.



From this you can probably gather that I'm no techie whizz, and it was more than likely my fault. However, after this 'experience' I'd advise anyone who's hoping to buy one of these little nightmares to make absolutely sure that they know their ST inside out and are a dab hand at soldering.

I think my ST is a brilliant piece of equipment, and matched with your mag it is perfect. Keep up the excellent work.

Keith Preston, Co Meath

stf: So, you're a self-confessed ST murderer, eh? Seriously, though, we're sorry to hear about all your troubles – fitting SIMMs can be tricky and we'd agree that you should certainly think carefully before attempting to fit them your-

self. You needn't give up on the idea of expanding your memory though, because most companies are happy to provide a fitting service for a small fee. Marpet © 01423 712600 for instance, will fit their RAM upgrades to your ST for £20 (with an extra £20 courier charge for customers who need to 'post' their ST).

Fatty Format!

P

I feel moved by your impassioned plea to enter the RVF vs RF900R debate. While the for-

mer clearly wins hands down in the 'having more 'V's' department, it is transparently clear to me that the latter is both longer and, this is the clincher, includes not one but three numerals. A clear mandate for the RF900R I believe.

And while I'm on the subject, I would also like to express my outrage at the lack of plump people on your staff (since the sad poaching of Clive 'Panda' Parker by the loathsome .NETball Monthly). I honestly cannot believe that the 'larger' computer users' needs are being met when you show support for such a weightist policy. As you are now under the protective wing of Pearson Inc, perhaps you could persuade that great big wobbly Atari fan Gary Bushell on to the team? (And if he doesn't like his Atari, tell him to send it to me being a dole scrounger I can't afford one at the mo.)

Oh, and in response to your query in STF 66, no, I don't wear huge trainers, enormous baggy trousers, and yes, I am fully aware of exactly which way round a baseball cap goes.

A Brasire, Walthamstow



stf: Dear Brasire (or may I call you Bra?), motorbikes are eminently complicated things, and we all heaved an enormous sigh of relief to be getting some constructive criticism and clear buying advice at last. You seemed to gloss over the F features a bit though—surely not a lack of research?

As far as our weightist policy goes, Simon was extremely upset at your comments. He has been working steadily on his beer gut for the last three years and was understandably shaken (or is that wobbled) by your dismissive attitude.



■ Just wait till we take the cork out. So maybe we touched it up a lot. A bit. A little. Okay, so maybe we didn't.

ALL IN THE MIND

I'm writing to tell you about 'Figments of an Imagination', a new
company that aims to improve
upon and promote Atari software by providing a way of combeining the talents of home-based
programmers, artists, musicians
and designers. Figments will
enable people to contribute
enable deas to finished pro-

jects, and give them access to a large central database of material for future projects.

We'll also act as a conventional software house by promoting and advertising software, as well as linking the best people in a given field with projects for both the commercial and shareware markets – but without any of

the restrictions imposed by the usual 'in house' approach. By providing additional services – post-sales support, a 'freelance agency' service for existing software producers and a helpline for our members – we intend to bridge the gap between clubs and software houses.

Membership is free, and profits from the sales of a title are shared between members who have supplied work for it. Danny Martin, Kent

stf: It's great to see this kind of positive approach, and we wish you luck. You earn yourself this month's £25 for your imagination and initiative. If you want to join Figments write to: Figments of an Imagination, 10 Bloomfield Road, Bromley, Kent BR2 9RZ.



Lies, all lies!



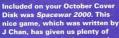
There are nasty rumours that ST FORMAT is going to merge back with Amiga Format.

Come on, we've had enough mergers already with ST Action, ST User and now ST Review going. What's the point of joining with a mag for a different make of computer? John Hayward, Portsmouth

stf: Absolutely none whatsoever, which is why we have no plans to do so. I don't know where you do your gossiping, but someone

would appear to be pulling your chuffer.





enjoyment. As it's shareware I sent off £5 to the author, who wrote back saying that mine was the only registration fee he

received. He also added that he won't be writing further programs for the ST... **Brian Matthews, SW London**

stf: This sort of thing really gets me mad! Surely, Brian isn't the only one who uses this game regularly. It's little wonder programmers are leaving the ST scene when the support from users is so pitiful. If you want a future full of new and

exciting ST software, support the programmers now! Send off your fivers and let's see if we can convince J Chan to stay with the ST.

Look, if you're playing this game, send your friends about your honesty, but you'll also help ensure the ST shareware scene continues for many years to come.

Here to stay



During 1994 a number of PDLs and magazines have taken the road to oblivion. Some will be

missed, in particular those that did at least try to benefit ST users. But some of the big names who have 'gone' have treated customers disgustingly, particularly their subscribers, who at least ensured them a guaranteed income.

I myself have been caught out four times during the previous 12 months, and have lost money in at least two cases. I'm still waiting for the results of the other two - but I'm told by the magazine's parent company that they have now passed my subscription over to ST FORMAT and Future Publishing.

Of course no one has asked me (a) if I wanted that or (b) whether I already subscribe to your mag. I do subscribe already, but a quick word with your Customer Relations Office put me in the picture about how the other mags' subscriptions will be carried over.

But what guarantee do we have that our subscriptions will be safe? If you go there doesn't seem to be anyone ready to carry on and take over.

Derek Hunt, Cardiff

stf: I sympathise with your problems, Derek, but you can rest assured that ST FORMAT will be here for a long, long time to come (we're talking in terms of years, here). The recent merging of ST Review and ST FORMAT is just one example of how Future Publishing is continuing to invest in the ST market. To further reassure you, though, all Future Publishing magazines are covered by the same policy: if we are unable to supply the magazine because of closure any outstanding monies will be refunded. Guaranteed.

If anyone has any questions about the 'carrying over' of ST User and ST Review subscriptions please call our Customer Services department on 01225 822510. stf

I'm beginning to hate you, Trenton. First I saw you as being okay and quite a worthy replacement for Paula, but now I've changed my mind. All previous editors have been keen and perfectly willing to satisfy their reader's needs and adapt ST FORMAT for them. You,

How many letters have you had asking for Jaguar coverage? Paula Richards ensured that the Jaguar had a decent section devoted to it, and as soon as you shortened it you received complaints. The solution? Extend the coverage again. But instead you went and cut all Jaguar coverage entirely, replying to further complaints by telling us to bugger off and buy Edge or some other magazine. It's not really on, is it? **Jody Smith, Woodbridge**

stf: Hold on, let's take these points in turn. All Future Publishing editors work to satisfy their readers' needs. When Paula was editor she felt that ST

FORMAT's readers wanted a Jaguar section, but by the time Trenton took over there was an awful lot of anti-Jag mail coming into the office. Naturally, he tried to fulfil these reader's needs by axing Jaguar coverage, because by that time other console mags were covering the machine.

So when you ask how many letters we've had asking for Jaguar coverage, I'd reply that over the whole history of the machine we've had about as many as we have asking us to stop covering it.

Clearly this is something that many of you feel strongly about, and in an effort to resolve this ongoing dispute we'll be carrying a full reader questionnaire in the next issue. This, among other things, will pose the question 'Do you want to see Jaguar coverage in ST FORMAT?' We'll go with whatever the results of they poll say - that's a fair method. So if you feel passionately about the Jaguar, fill in and return next month's questionnaire

EXT MONTH

The Survival Guide: we help you through the trauma of ST tragedy, and explain how to pick up the pieces when it all goes horribly wrong!



Tune in: we show you how to set up your own sound studio, and reveal the best hardware and software for would-be musicians!

Reviews: 14MByte Falcon Upgrade Kit, InShape 2, Beginners' Guide to 3 STOS Basic, Video Supreme 2, Shadow of the Beast 2, Llamazap and... Team! (We hope.) BRHZIL

PLUS!

ST Answers is growing again. Next month sees the first of our new comms-dedicated problem pages - get your questions in now!

April issue of ST FORMAT on sale Tuesday 14 March

TWILIGHT ZONE

This month's digital daubing comes from Matt Bearpark of Harpenden, who's used his ST to produce this rather cute little tree-frog. Frankly, we're impressed not only with Matt's graphic ability, but also with the excellent way in which he's used the tools available to him. This isn't some thing we can teach you, though - he's just abnormal. Cheers, Matt.



■ Cleverly, Matt's used a dithering technique to give a better shading, blending colours together to smooth the graduation from one colour to the next.



were right for the picture.

Matt started by drawing the Here you can see the front legs and frog's outline using Freehand and upper body gaining texture, once again Curve tools. He also spent time thanks to the Zoom option. Texture is making sure the colour palettes incredibly important in pictures like these, adding depth and perspective.





And here's the finished picture, looking all the better for Matt's small adjustments. He's tidied up a few mistakes that he made earlier. and corrected the odd stray line.

DON'T MISS OUT ON ST FORMAT

WINNER

There's an easy way to quarantee your copy of ST FORMAT every month. Simply fill out the form below and take it to your local newsagent, and they'll keep you a copy each month as soon as it hits the shelves. You don't have to pay anything in advance, you'll get a pristine copy, and you'll never have problems finding the maga-



Cut out this form (or a photocopy) and hand it to your newsagent Please reserve/deliver ST FORMAT each month, beginning with the April issue, which is on sale Tuesday 14 March 1995.

zine again. Go on, do it now,

while you remember.

Name and title

Phone number:

To the newsagent: ST FORMAT is published by Future Publishing = 01225 442244 (Circulation)

RESERVE YOUR COPY NOW!

INTERACTIVITY AHOY!

WE WANT ST FORMAT TO COVER the things you want to read about, and what better way to do that than to ask you to write it?

No, we're not offering fulltime jobs, but we are looking for your input. If you have a specialist ST-related hobby - programming, music, hardware DIY projects, whatever - and you've come up with any useful routines, tricks or even tutorials that the rest of our readers would find useful and interesting, this is your chance to shine! But take note, we're talking advanced,

here - if you don't know your stuff inside out, then we're not going to be interested.

Send your project marked 'Reader contributions' to us at: ST FORMAT, 30 Monmouth Street, Bath, Avon, BA1 2BW. We'd prefer your copy to be between 500 and 1,500 words, typed. Include anything else you think is relevant programming routines, ideas, pictures, whatever. If it's useful then we'll print it, and we might even scrape together a relevant prize of some kind. Okay? Get to it then...

BLOODY VALENTINE

THIS ISSUE SHOULD ARRIVE ON the shelves of your friendly neighbourhood newsagent on Tuesday 14 February, Valentine's Day, distribution and schedules permitting. So as the sun set on another issue, it seemed relevant to ingenuously poll the team as to who they'll be sending their hopeful Valentine cards to this year. And we never said we wouldn't print the names... (Yes you did! - everyone else)

Nick Peers: Deanna Troi ("and her voluminous hips") Karen Levell: Jean-Luc Picard ("the way he pulls his tunic Sarah Sherley-Price: Arnold Rimmer ("waddaguy")
Andy Ounstead: Michelle Pfeiffer ("what a sweetie") Jillian Werb: the blond security guard at Stonehenge (circa 1989) Simon Forrester: himself ("because no one else will")





33 Ormskirk Rd, Preston, Lancs, PR1 2OP

Ladbroke Computing International are one of the longest established home computer dealers 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 customers informed. Although our prices are not always the cheapest we do endeavour to offer consistently good service and backup.

All prices/specifications are correct at copy date 19/01/95 (while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery.

How to Pay

You can order by mail, Cheques/Postal Orders made payable to Ladbroke Computing. Or give your credit card details over the phone.

Delivery

Postal delivery is available on small items under £40 (Normally £3, phone for details). Add £7 for courier delivery. Next working day delivery on mainland UK subject to stock (£20 for Saturday delivery).

Open Mon-Sat 9.30am to 5.00pm. Ladbroke Computing Ltd trading as Ladbroke Computing International.

Fax: (0772) 561071 Tel: 9.00am-5.30pm (5 Lines)

10772) 203160

Printers



Star

Star LC100 Colour	£119.99
Star LC240C	£149.99
Starjet SJ48 Bubblejet	£189.99
SJ48 Ink Cartridge	£20.99

Citizen

Citizen ABC 24pin Colour £179.99

Hewlett Packard

HP Deskjet 520	£259.99
HP Deskjet 550 Colour	£429.99
HP Deskiet 320	£239.99

£499.99

Ricoh LP1200

2Mb RAM

- 400 Dpi
- 12 months on site warranty

Add £3 for Centronics cable and £7 for next working day courier delivery.

Data Pulse Plu

- Very quiet, no fan necessary.
- Dual SCSI Port
- Internal Power Supply
- Device number selector
- 2Mb PD Software free

Hard Drives

- All Data-Pulse Plus Hard Drives are fully Autobooting Autoparking and are formatted, partitioned and tested before despatch, ready to 'plug in and go'.
- Full metal case measuring 250mm x 290mm x 58mm (wdh), ideal for monitor stand.
- Only brand new, highest quality mechanisms used (we do not use refurbished or second-hand mechanisms).
- All drives come with full 12months warranty and free expert help and advice over the phone.
- Configured with SCSI port for FALCON compatibility etc.

 Data-Pulse + 260Mb
 £279.99

 SPECIAL OFFER
 \$349.99

 DATA-PULSE + 353Mb
 £349.99

 Data-Pulse + 532Mb
 £399.99

 Data-Pulse + 1Gb
 £699.99

 Prices include ICD LINK 2 for the ST

3.5" External Drive

Ladbroke's 3.5" External Floppy drive. Includes own external power supply.

£57.99

SIMMS Upgrades

 All RAM upgrades come packaged with full fitting instructions/test disk.

512K SIMM's STE	£4.99
2Mb SIMM's STE	£42.99
4Mb SIMM'S	£82.99
2 x SIPP to SIMM adap	tors £3.00

Hand Scanner

Zydec Hand Scanner

- 100,200,300,400 Dpi Resolution
- 1 Letter mode, 3 photo modes.
- 105mm scanning head.

Zydec Hand Scanner ST £99.99



High quality 290 dpi mouse with microswitched buttons ST/AM.

£8.99

Marpet Upgrades

Marpet upgrades for the ST are 'plug in' and require no soldering. They are compatible with most motherboard layouts and come with full fitting instructions. These boards accept SIMM boards and are upgradeable at a later date. Please check that MMU and Shifter are 'socketed' before ordering.

Unpopulated Marpet board £22.00 See SIMM prices below.

PC Emulators



- Full installation instructions.
- XT or AT Emulation
- Check configuration before ordering.

PC Speed STFM (XT)	£49.99
PC Speed STE (XT)	£49.99
AT Speed STFM (8MHz)	£139.00
Falcon Speed	£POA

Repair Services

The Only ATARI Authorised Repair Centre in the UK

Our Atari trained technicians can repair ST's in minimum time at competitive rates. We can arrange for fully insured courier pickup and return delivery of your machine to ensure its 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, any extra parts are chargeable.

Quotation	£15.00
Minimum repair charge	£35.25
Same day service	£15.00
STFM(E) PSU	£29.99
1Mb Internal Drive	£19.99
TOS 2.06 + Switch STFM	£54.99
TOS 2.06 + Switch STE	£54.99

Courier Pickup £11.00
Courier return £7.00

Phone for price and availability of ST spares.

Monitors



ST Mono Monitor £99.99 High quality 14" SVGA Monitor with ST adaptor (includes sound). Fully compatible with all ST Hi-Res Programmes with tilt/swivel. 17" Multisync Monitor. £559.99

17" Multisync Monitor. £559.99
.26 dot pitch. £759.99

.31 dot pitch. £759.99

Golour SVGA Monitor £239.99

High quality colour SVGA Monitor.

High quality colour SVGA Monitor, 28 dot pitch includes Falcon adaptor. Microvitee 1438 MultiSync 2289.99
The Microvitee Multi-Sync displays ST Low, Medium, High resolutions using ST switch box, compatible with FALCON & FALCON screen blaster using FALCON VGA adaptor.

 ST Multisync switchbox
 £14.99

 Falcon VGA Adaptor
 £9.99

 Falcon ST monitor Adptr
 £9.99

 Philips SCART to ST/STE
 £9.99

 8833 MKII to ST/STE
 £9.99

On this month's...

ST
FORMAT



COVER DISK

SENSATIONAL PROGRAMS

MAGIC STORYBOOK

Write your own stories then bring them to life with animated graphics and sound. Perfect for kids and adults alike.



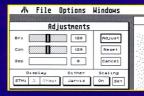


BBS DIRECTORY

Cut down those phone bills! Check out where BBSs are based in the UK before you call them.



PICSWITCH 1.01



View, dither and print pics, produced in up to 20 image formats.

STOSSER

Display text-files, pictures and music using this essential STOS utility from the author of the stonking HERO.



nor of the Stonking MERC

TAQUIN

Puzzle-sliding fun from across the Channel. Weird stuff!



JUMBLE-UP



Create and solve your own jigsaws using any NEO or Degas pic. Hours of fun.

AUTOBORT

Prevent programs from auto-booting with this small but handy utility.

PLUS!!! Back Up and Menu programs