

# STUSER



DISKS



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ACTION

PLUS: Jargon busting guide and life beyond games





The Data Pulse Plus range of drives features a custom designed case with integral PSU. The metal case is ideal for use as a monitor stand

All Data Pulse Plus Drives now come configured with industry standard 50 way SCSI Centronics plugs which allows connection of the ICD LINK for use on the ST or a SCSI II cable for use on the Falcon oto

To ensure the highest possible reliability, the drives are tested at every stage of assembly by skilled

technicians

All drives are ready to 'Plug in When you first boot up your hard drive you will find a wealth of Public Domain Utilities which have been selected by our support staff.

All Data Pulse Plus Drives include 12 months warranty and free phone advice and support by genuine Data Pulse Plus users

The low power consumption of these Autoparking Autobooting mechanisms means that they can operate well within their safe operational temperature ranges without the need for fan cooling. This coupled with the design of the case sults in probably the quietest Hard Drive range available for the ST.

Flontical drives are a reliable. high density, replacement media drive for the ST or Falcon. Due to an optical positioning system the Floptical drive is capable of storing 21Mb of data on one 3.5" Floptical disk. The drive can also read/write 720K and 1.44Mb HD disks.

Re-Writeable Optical drives are a Multisync Monitor

The Microvitec 1440 is a multisync

monitor compatible with both the

Atari ST and the Falcon. Utilising

the ST switch box it is possible to

display all three ST resolutions on

the same monitor. Also compatible

"Microvitec 1440... Highly

recommended"-Atari ST User

This high quality SVGA colour

monitor comes complete with Falcon adaptor. The .28 dot pitch gives the

highest quality picture (Falcon will

only display 256 colours in high

with screen blaster for the Falcon.

£399.99

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29.99

29.99

29.99

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620 00

69 99

Microvitec 1440

Falcon VGA adaptor

Dataview .28 SVGA

8833 MkII STE cable

SCART STE cable

SCART STFM cable

8833 MkII STFM cable

resolutions).

ST Switch Box

#### "Data Pulse is astonishingly fast"-Andrew Wright, ST User

new addition to the Datapulse range, offering staggering density with hard drive speed, Each 3.5" optical disk stores 128Mb with access time of 30ms and a data transfer rate of 600K per second

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170Mb with Floptical	2590.00
D/P +128Mb Optical	£710.00
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for main drive unit only	Add ICD

LINK for use with ST	or SCSI
cable for use with FA	LCON
ICD LINK (ST)	289.99
SCSI Cable (Falcon)	£39.99
128Mb Optical Disk	£35.00
21Mh Flontical Dick	622.00

#### Scart TV's

Samsung C15030AN £249.99 The Samsung C15030AN is a 20" NICAM digital stereo TV with SCART input for high quality display of computer output. It also features remote control, on screen displays, Auto tuning system and Fastex access to Teletext (requires SCART lead).

Samsung C13352X £179.99 The Samsung C13352X is a 14" SCART input TV with remote control and on-screen displays (requires SCART lead).





Citizen Swift 240 Colour £270.00 Citizen Swift 90 Colour £175.00 Swift 9 Black Ribbon €5.00 Swift 24 Black Ribbon 68.00 Swift 24 Colour Ribbon £14.00

IP De	skjet 510	£299.00
IP De	skjet 550 Colour	£599.00
IP DJ	Double Cap. Ink Ca	art. £25.00

- Seikosha OP104 £549.00 512K RAM (Exp to 2.5Mb) HP Laserjet IIP emulation
  - 14 resident fonts
- . 12 months on site warranty Seikosha 512K RAM upgrade £69.00 Seikosha Toner (2 units) £19.00 Seikosha Drum Unit £129.00

Add £3 for Centronics cable and £7 for next working day courier delivery



Dataview Mono ST £139.99 The Dataview Monochrome monitor comes complete with our custom designed adaptor. The adaptor also a 2.5mm output for better sound reproduction. The monitor/ adaptor combination is fully compatible with all ST high resolution programmes and includes a tilt/swivel stand

Philips 8833 MkII £199 99 The 8833MkII is a colour stereo monitor compatible with the ST. Includes 12 months on-site warranty, green screen, CVBS input displays low/medium resolution.

Star	
Star LC100 Colour	£165.00
LC100 Colour Ribbon	£7.00
LC100 Mono Ribbon	£5.00
Star LC20	£124.00
LC20 Ribbon	£5.00
Star LC24/100 Mono	£179.00
LC24/100 Ribbon	00.83
Starjet SJ48 Bubblejet	£210.00
SJ48 Sheet Feeder	£55.00
SJ48 Ink Cartridge	£19.00

Phone for extended warranties on Star printers. Add £3 for cable. Add £7 for next working day delivery.

#### Citizen

#### Hewlett Packard

Deskjet 510	£299.00	<ul> <li>360 dpi res</li> </ul>
P Deskjet 550 Colour P DJ Double Cap. Ink Cart.	£599.00 £25.00	Emulates E Proprinter 8
		Colour Ribbon

#### Lasers

Centronics/RS232C/RS422

€699.00 Ricoh LP1200

# Star

Star S.I144 The Star SJ144 is a Colour/Mono thermal wax transfer printer which gives glossy colour output on normal paper.

- 144 element print head
- Mono 3 pages per minute
- . Colour 1.4 pages per minute 360 dpi resolution
- Emulates Epson LQ 860, IBM Proprinter & NEC graphics

Mono Ribbon



612 00





Falcon 030 ■ 16MHz 32 hit 68030 Centra Processor, 16MHz Blitter, 32MHz

56001 Digital Signal Processor 1.44Mb 3.5" Floppy, up to 14Mb RAM. Displays 65536 colours from 262144 palette at 768 x 480 resolution

 8 Channel 16 bit, high quality Stereo sound sampling

FALCON 1Mb RAM No HD £499.00 FALCON 4Mb No HD 6699 00 FALCON 4Mb 64Mb HD £799.00 FALCON 4Mb 127Mb HD £899.00 FALCON 4Mb 209Mb HD £999 nn

#### **New Low Prices** STE Packs

1Mb 520 STE £199.99 2Mb STE £269.99 4Mb STE £339.99

3.5" External Drive Zvdec 3.5" External Floppy drive.

Includes own external power supply. £54.99

**Speed Mouse** 

High quality 300 dpi mouse with microswitched buttons ST/AM. £11.99

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 £28.00 See SIMM prices below Forget Me Clock II

# Aries Upgrades



Will fit any ST(F)(M) or Mega ST Extremely compact in house designed Multi-layer circuit board

ller than a credit card Upgradeable in stages from the base 512K to 2Mb then 4Mb

Solder in design for greater reliabili requires some technical knowledge)

ully tested prior to despatch All Aries RAM upgrade boards come packaged in a 10 capacity disk box, complete with full fitting etructions/test disk

512K Board £39 99 2Mh Board £89.99 4Mb Board £169 99 512K SIMM's STE 26.99 2Mb SIMM's STE 669 99 4Mb SIMM's STE £139.99 2 x SIPP to SIMM adaptors£3.00

### Software

Scanlite Accessory 620.00 Silhouette 1.4 £39.99 1st WordPlus £36.99 Timeworks 2 £39.99 Calamus 1.09N 699.99 £16.99 CalAssistant Cleanup ST £24.99 Diamond Back II £34.99 Diamond Edge £44.99

Script WP €69.99 We keep a full range of ST software in stock including Educational, Utilities and Games. Phone for prices

and availability Midistudio Master

240 PPO Midi Standard file format compatible, 100 tracks, Phrase arrangement. Very easy to use.

£19.99

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

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	£39.99
1Mb internal drive	£39.99
A/B Boot switch	€4.99
TOS 2.06 + Switch STFM	£65.00
TOS 2.06 + Switch STE	£65.00
Courier Pickup	£11.00
Courier Return	£7.00

Phone for price and availability of ST spares

#### Modems

Supra 2400 Baud Modem £74.99 2400 Baud, Auto answer, Auto dial. Budget Haves compatible introduction to the world of communications

Supra 2400 Plus £119.99 2400 Baud, Auto answer, Auto dial. Hayes compatible. MNP error correction, MNP 5 compression. All Supra modems include 5 years

# Accessories

warranty.

10 3.5" Bulk Disks €4.99 50 3.5" Bulk Disks €19.99 100 3.5" Bulk Disks £37.99 All disks come complete with labels.

Phone for carriage charges. 100 3.5" Disk Box £7.99 Mouse/Joystick Switch £11.99 Roboshift Autoswitch £19.99 Monitor Switch Box £19.99 Mouse Mat £2.00 Mouse/Joystick extension £4.99 PRO 5000 Joystick £7.00 Zipstick Joystick £11.99 Cheetah Bug Joystick £14 99

# DataNet Network



Datanet Network Hardware Cartridge based high speed

network solution Compatible with ST (F)(M). Mega ST, STE, Mega STE

**Powernet Network Software**  MultiTasking Network software allows applications to run on the server while drive and printer accesses take place in the background

Full Falcon compatibility using LanNet device

DataNet with PowerNet £69.99 LanNet with PowerNet 659 99 MidiNet with PowerNet £49.99 Prices quoted are for 1 Node Each computer attached to a Network

requires 1 Node. All prices exclude cabling DataNet requires 75 Ohm Coax, LanNet and MidiNet require twisted pair

# PC Emulators



 Run PC Software on your ST Full installation instructions XT or AT Emulation

PC Speed STFM or STE (XT) £49.99 AT Speed STFM (8MHz) £139.00 AT Speed C16 STFM £199.00

# Hand Scanner

- 100,200,300,400 Dpi Resolution 1 letter mode, 3 photo modes
- 105mm scanning head Includes Cartridge through port with switch hox Compatible with Touch Up 1.8
- Supplied with Scanlite Accessory. Compatible with any graphics package which supports accessories. Allows scanning directly into compatible packages. such as Silhouette and Megapaint II

#### Hand Scanner +Scanlite £99.99

Hand scanner supplied with Silhouette V1.4 Autotracing vector package (mono monitor only). Scan directly into Silhouette via Scanlite or import INTO SUIPOLIETE VIA SCANITE OF IMPORT IMG, DEGAS, TINY, MacPaint, GEM AND SGF bit image files. Exports IMG, GEM (1,3), SGF, DXF, EPS (Postscript) vector files.

#### Hand Scanner + Scanlite/ Silhouette £119.99

STOP PRESS Ricoh L P1200 Laser Printer 400 Dpi, 2Mb RAM 6 page per minute Now Only £699

Hewlett Packard Deskiet 500 Colour Now Only £299.99



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Ladbroke Computing International are one of the longest established home computer dealers in the U.K. We have developed an involves testing of all hardware prior to

customers informed. Although our price are not always the cheapest we do ndeavour to offer consistently goo service and backup. All prices are correct at copy date 18/10/93

(while stocks last), and are subject to change without prior notice. All prices include VAT but exclude delivery.

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over the phone

Delivery

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We preview a device that makes it easy to add personalised computer graphics and text to your videos

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#### O Disk offer

An exclusive Atari ST User offer giving readers the chance to buy the latest Protext with big savings

#### Missed an opportunity? Time's now running out for completing great Atari ST User CoverDisk software

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CHAIRMAN Derek Mookin MANAGING DIRECTOR Ion Bloomfield

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# CoverDis





Seeing double on the front cover this month? Don't book an appointment with the optician – it's an Atari ST User double disk bonanza

#### Disk One

On this disk we have a working demo of Protext 6 from Arnor, with enhanced features including the useful ability to import graphics

A folder full of disk utilities to make file manipulation and organisation much easier for floppy and hard drive users

#### Disk Two

Games galore, with an exclusive interactive demo of Dogfight, the latest sim from the masters of strategy games, MicroProse

#### PLUS

World Conquest and Midi Maze II -Two brilliant multi-computer games which allow you to link STs and battle with friends

The DISK starts on page 14



# Some Good News for Atari Programmers

There is plenty of good tidings for the Alart programming community has month. Two new books that contain a wealth of up-lo-date information and two new versions of our popular languages. Together, these developments breathe

# Modern Atari System Software

This invaluable book contains all the latest details of Aari's newest system software together with the bindings for Lattice C 560, Histoft BASIC 2 10 and Deeppes 310 - sessential for all services programmers who want to use these packages. Majoring on the FalcontOD, Modern Atari System Software contains sectestive discussion on programming this exciting new machine ... 256 pages, price £19.95.



# The Atari Compendium

Finally! This book, from Scott Sanders, provides the most comprehensive collection of information designed for every level of Atal programmer. It covers all Atari 680.0 computers from the \$208T up to the Falcon030 and includes a detailed reference for every function present in TOS 1.0 up to TOS 4, and beyond This is the book we've all been waiting for ... 840 pages, price £39.95.



# Devpac 3.10

We are pleased to announce the immediate availability of Devpac 3.10, our latest release of the acclaimed assembler /debugger package. Version 3.10 contains many improvements and enhancements as well as detailed support for the new Falcon(30.) Upgrades start from only £3 for our Cold Support customers, RRP remains at £79.95.

- ☑ Improved debugging and editor facilities including support for all Falcon resolutions
  - Editor now works in low-res on all versions of TOS!
- Falcon030 AES and XBIOS support (full details given in Modern Atari Sustem Software)
- Falcon030-specific libraries for the DSP/Video/Audio hardware
- Supplied with handy reference card giving editor and debugger keyboard shortcuts







# **BASIC 2.10**

Ideal for both the beginner and the seasoned programmer, HiSoft BASIC 2 combines ease-of-use with exceptional power and flexibility - the only BASIC that is still developed and supported in the UK. 2:10 contains many new features detailed in an extra 32-page manual - upgrades start from £19.95, RRP is £99.95.

- Extra include files for SpeedoGDOS™, MultiTOS™ and MiNT™
- Improved debugging and editor facilities including support for all Falcon resolutions
  - Major GEM Toolbox improvements incl dialogs with keyboard shortcuts and pop-ups
- Named compiler options for simplicity
- ✓ MultiTOS™ friendly dynamic heap option
- Falcon030 AES and DSP/Audio/Video support (full details given in Modern Atari System Software)

















All HiSoft products should be available from your local start computer shop. In case of difficulty, you can order treetly from HiSoft using your credit/debit card over the shone or by sending us a cheque/postal order. Overseas and thouse allowed a wife on the information in the control of t

# **Games makers pledge** Jaguar support SUPPORT has been growing this

month for Atari's revolutionary Jaguar games console, and the company have announced that some machines could go on sale in Britain before Christmas.

Atari intend to launch the system in the US cities New York and San Francisco durina November and originally said it would be early next year before it shipped in Europe.

But according to Atari's European spokesman Peter Walker, a high level of industry support has encouraged the company to attempt to get machines into select retailers much earlier. Walker said the firm were still

#### Jaquar developers

Anco Software Beyond Games Inc Dimension Technologies High Voltage Software Krisalis Software Loriciel Maxis Software Microids Midnight Software

Ocean Software Rebellion Software Retour 2048 Silmarils Telegames Tiertex Titus Tradewest Trimark Interactive US Gold

#### by John Butters

talking to high street stores such as Virgin Megastore and HMV Level One, but no final decision has been taken on who will stock the £199 Jaquar

Sources in the States, meanwhile, say that the game packed with the console will be either Crescent Galaxy or Cybermorph, though Atari ST User believes the latter to be more

Five games will be available for the machine in time for its US launch, and a further ten titles will be introduced by the end of January

More than 20 firms so far have signed agreements to develop for Jaguar, including Anco Software, Krisalis Software, Loriciel, Ocean Software, Titus and US Gold,

"Developer response to Jaguar has been overwhelming - we've accomplished what we set out to do by attracting the industry's top developers," said Atari president Sam Tramiel.



Tramiel: Attracting top developers to Jaguar

### **New Atari man** in Jaguar push

TERRENCE Valeski, a 22-year veteran in consumer electronics marketing, has joined Atari as director o marketing and advertising for

Jaguar. Valeski's immediate responsibility will be to manage the American roll out for Atari's new gaming system.

Before joining the firm, Valeski was founder and chief executive offi-cer of Intellivision, a leading home video game manufacturer in the 1980s. "Jaguar has truly leaped ahead of the competition in terms of quality, price and performance," said

Valeski. "My job will be to ensure that we attract the best and the brightest and to market aggressively through the channels of distribution.

You can expect to see some major shifts in the way Atari markets."



Jaguar: To see major shift in Atari marketing

# Playing safe with games fact sheet

A CHARITY funded by the Government to develop and promote the best technology for learning has drawn up a fact sheet aimed at parents of children who play computer and video games

The National Council for Educational Technology have reported on recent research carried out in the US on the effects of playing computer games. The report comes after media reports earlier this year alleging some games could cause epilepsy and anti-social behaviour, and includes advice from the British Epileptic Association.

According to the NCET, games offer several benefits to help children learn, and providing they are not played too much and are only one of the child's activities, the dangers are limited

Advice is given to combat the possibility of any health hazards while further research is carried out and a checklist is provided to test whether children are addicted to games. The report says that children should sit at least two feet from the screen in a well lit room and

avoid playing while tired. Other recommendations are that parents should help their children choose programs with an

educational value, ensure games do not contain violence and encourage playing in groups. They should talk to children about what happens in the software and use games as a starting point for other activities such as painting, drawing, acting or storytelling.

"There has been a lot of controversy around specific cases pointing to the addictive effect these games can have on young people," said NCET spokeswoman Ann Logan.

the possible benefits to children."

"Parents ought to be informed of the dangers and

 To receive a free copy of the fact sheet send an sae to the National Council for Educational Technology, Milburn Road, Science Park, Coventry CV4 7JJ.

# Direct sell will cut printer costs

PRINTER prices could soon fall following a decision by manufacturing giant Citizen to set up a division within the company to sell directly to the public. Citizen Direct will kick off by selling the

firm's first laser machine, the six-page per minute ProLaser 6000

It has a resolution of 600 dots per inch and will be sold by Citizen for £559, instead of its usual recommended retail price of £998

According to spokesman Tony Byng, savings on distributor and dealer margins will enable the company to sell products at highly competitive prices.

Machines sold by Citizen Direct will be

different from those distributed through thirdparty dealers and there are no plans to stock dot matrix models - at least for the time

"Our decision to offer the Citizen ProLaser 6000 via the direct selling route is a first for the industry," explained Citizen's marketing director Edward Huggins.

"No other printer manufacturer in our sector has taken the initiative to manage the

complete sales operation. "We believe this is the only way to meet the high expectations of customers who have already learned to buy their computers and software from direct suppliers."

### News briefs

## Brit club takes Omikron range

AN ATARI enthusiasts' club has just taken or British distribution of ST and Falcon software from German company Omikron

Dinastrom German company Omikron.
Under the deal, ST Club (0602 410241)
will sell a range of programs including multifunction utilities Mortimer and Mortimer
Deluxe, database Freeway and PixArt, a

The Omikron Basic range of programming languages and libraries will be available in German.

#### Video role for Atari

ATARI'S European managing director Bob Gleadow sees part of the company's future in the video entertainment market as well as games.

He says the two markets are converging and that, when launched, Jaguar's CD player will give the machine appeal to those wanting to play pop videos.

# Citizen meet colour demand

THE Swift 200C is the latest 24-pin colour dot matrix from Citizen which has been launched by the firm to meter customer demand for low cost, high qualities along printing.

by the firm to meet customer demand for low cost, high quality colour printing.

The £327 machine runs at 180 characters per second in draft mode and 72cps in its six letter quality fonts. It provides Epson 1Q500/850 emulation.

# Falcon expands its memory

FALCON owners can now expand their computer's memory to either 4Mb or 14Mb using a new RAM expansion from Silica

Unpopulated, the Actionsoft board costs £49.95. Memory chip prices are still fluctuating following disasters at production plants so buyers should contact the firm for up to date details.

# Emulation power on the way

BOARDS to enable Falcons to emulate 386 and 486 PCs are under development by Compo Software and are expected to go on

The 386 version will be upgradeable to a 486 should the user need the extra power, and improved colour modes will make it practical to run modern Windows

### Protar drives will be back

PROTAR hard drives are set to reappear in Britain following a deal just signed between the German manufacturer and London-based dealer Analogic (081-546 9575). The high quality ProFile drives disoppeared from the Atari market soon after the closure early this year of Protar's UK office, and it seemed unlikely that they would be seen again.

But Analogic say they have now been given all rights to the drives' software and hardware, and claim the new models will be exactly the same as those previously sold. Many of the parts will be supplied from Germany, and all drives will use Quantum mechanisms. They all feature SCSI and a disk crache.

The entry-level model will come with 85Mb of storage capacity and cost around £300 including delivery. Drives with 127Mb, 170Mb, 240Mb and 525Mb will also be available.



Protar: Drives set to reappear

#### Christmas advice and discounts

VISITORS to the Christmas International Computer Show in November will be able to see the latest computer hardware and software and talk to user groups for unbiased buying advice.

The show will focus on key computing applications including business, education, music, entertainment and multimedia, and reflect changes in the home and small busi-

reflect changes in the home and small business market.

For the less computer literate visitor there will be dedicated feature areas to illustrate

will be dedicated teature areas to illustrate the capabilities of the equipment available. According to the organiser Westminster Exhibitions, several of the 100 exhibitors will be supplying products – many of them for the ST and Falcon – at competitive prices.

Among the firms lined up to attend are HiSoft, CGS ComputerBild, System Solutions, Gasteiner Technologies, On Line, RC Simulations, Rombo and Silica Systems. Several other big name Atari supporters

are also expected, although they have yet to confirm their attendance.

The show takes place at London's Wembley Exhibition Centre on November 19 to 21. For advance tickets telephone 0222 512128

# Diary dates

11 to 14 November 1993 Future Entertainment Show (0225 442244) Venue: Olympia, London

A multi-format computer and console show.

#### 13 November 1993 All Micro Show 7

All Micro Show / Organiser: Sharward Service (0473 272002) Venue: Bingley Hall, Staffs Last year's event saw 60 stands, some with ST products.

#### 19 to 21 November 1993 International Computer Show

Organiser: Westminster
Exhibitions
(081-549 3444)
Venue: Wembley, London

Discounted software and hardware plus product releases.

#### 5 December 1993 Atari Show Birmingham Organiser: Titan Design (021-414 1630)

Venue: National Motorcycle Museum, Birmingham Demonstrations of the latest serious software and hardware for Atari computers.

#### 12 December 1993 Atari Show North

Organiser: Compo Software (0480 891819) Venue: Haydock Park Racecourse Major players in the professional Atari market gather at this porthern venue.

#### **OVERSEAS**

#### 15 to 19 November 1993 Comdex Fall

Venue: Las Vegas, Nevada A business computing show, sometimes with Atari presence.

#### 16 to 23 March 1994 CeBit

Venue: Hanover, Germany (010 49 511 890) Europe's largest information technology show. Often the launch pad for new Atari hardware.

# If your company is organising a show relevant to the ST/Falcon and it's not listed, please let us know so we can include the information in the diary.

# System :

#### FLY LIKE THE WIND ...

NVDI replaces the Atari display routines. Screen updates with NVDI are 3-10 times faster. Works with all TOS versions on all Atari ST, MegaST, TT and for the Falcon. MultiTOS and SpeedoGDOScompatible.

"Scrolling through a long text file in 1st Word Plus took half the time ... Calamus, Calligrapher and Wordflair also showed a marked improvement ... Compatibility is remarkable and we have yet to find a program that is not compatible with NVDI. a must for all ST and Falcon owners" ST Peview Issue 16 August 1993.

NVDI Version 2.5 - £49.95

#### Hard Drives

"Extremely nice looking..." Professional Quality SCSI Hard Drives Systems, 40 -2600 Megabytes from £299. "This is the fastest of the drives reviewed and is superbly engineered, not to mention great value for ST User, Issue 90, August 1993. money\*



#### Falcon SCSI Hard Drives

Ideal for hard-disk recording 1000Mb, 10ms, 5 yr warranty - £1199 330Mb plug-in-and-go - £569 For other capacities please phone

#### **High Res Monitors**

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"Essential Buy, 90%" STReview, May 93



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Kit price still only £79.95 inc VAT

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the MegaST and ST(FM) computers.
Performance and price are sensational. The T28 with a 28MHz clock is 3.5 times faster and the T36 with a 36MHz clock is 4.5 times faster than the original ST's clock. The use of the original 68000 processor guarantees near perfect compatibilty. CPU cacheing is switchable for added compatibility with the cartridge port devices. DTP, Graphics Software and Cubase show a fantastic speed increase Compared with a standard ST without Blitter.

Gemberch v3 12 gives the following results: ST(FM) T28 373% 100% Graphics 100% 949% 1007% Average 100% 763% 890% The combination of the T28/T36 and NVDI

transforms the humble ST into a powerful graphics workstation - a dream come true for all those who want more speed at ar affordable price. To celebrate the release of this exciting new product we will give away a free copy of NVDI with every T28 and T36

Hurryl Offer is valid only until 30/9/1993. T28 Accelerator, 28MHz, 64kb Cache £199 T36 Accelerator, 36MHz, 64kb Cache £299

To order and for further information telephone or write to:

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Windsor, SL4 1SE Fax: 0753-830344 Mail Order Telephone

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#### The Falcon Column much of your old kit will work on it? Or do

you just feel tempted and want to know how much a complete system would cost? For advice and a personal quote phone

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# **Germany gears** up for Jaguar

THE only remaining Atari magazine in Germany has just published an extensive fourpage interview with Bob Gleadow who, in addition to being the head of Atari UK, is also the CEO at Atari Germany

Here are a few interesting highlights. The total number of Falcons sold until summer in all of Europe is between 13,000 and 14,000 units, 40 per cent of which were sold in Germany alone.

There are several new Falcon specific games in production: Two in France(Ishar II and Transarctical and one. Llama Zone, in the UK, where another three unnamed games are currently also being developed.

The other new hardware, the Jaquar, will be available in Germany - and presumably the rest of Europe - from January next year. The marketing reorganisation - known in the UK as the "key dealer program" - has been completed in Germany as well resulting in a smaller number of dealers, but these are more committed and get extra support from Atari

This includes extensive training at Atari-organised seminars

It was revealed that the centralised distribution from Rotterdam, Holland (as previously reported in EuroNews) was also partially due to a favourable offer from the Dutch government resulting in considerable savings to Atari

Gleadow showed interest in the TT-clone developed by GE-Soft (see elsewhere in this report) regards possible TOS licensing

He also said that Atari will be interested in granting a licence to anyone who develops a new 68060 TT or wishes to start production of the Mega ST independently

Regarding Atari's presence at CeBit in Germany - the biggest computer show in the world - the negotiations are currently underway.

CeBit was apparently reorganised and Atari would have to share a hall with Commodore, Apple and "God knows who" in what is to be know as the Multimedia Hall



The consolidation of Atari Germany continues. The head of German support, Normen Kowalewski, has been transferred to Atari headquarters in Sunnyvale, USA. Once again this proves the importance to Atari of Europe in general, and Germany in particular.

As a result of this move all German support has been taken over by the International Support Centre under Wilfred Kilwinger at Atari Benelux.

In addition to Germany and Benelux the International Support Centre is also responsible for Switzerland and Eastern Europe.
In another positive move Atari
have officially announced the immi-

nent release of the developer CD. It will be available in the last couple of weeks to everyone at a price of of weeks to everyone at a pitce of \$150. Among others the CD contains all Atari Developer Kit soft-ware, MultiTOS, SpeedoGDOS, Atari Works and DSP tools.

The CD will be accompanied by a floppy disk with all necessary CD-ROM drivers (the software needed to read the CD). This is particularly attractive for Falcon owners because a CD-ROM drive connects directly to its SCSI-II port. Other STs require a hardware adaptor.

#### Last of the classics

MEGAPAINT by Tommy Software is a classic among combined vector/pixel drawing packages. The latest version, Megapaint II ST Convertible, is also the last for the

It comes with a Windows CAD package called CAD/DRAW which can be used to further process vector graphics created on the Atari

In that sense, Convertible has been conceived by the manufacturer as a transient version. However, with its new features, it is still a very attractive program for users who wish to remain faithful to the ST

All graphic functions in v6 were rewritten to support new third-party graphic cards. All set-ups now support 600dpi resolution and the

program contains new printer drivers

Megapaint II ST Convertible CAD/DRAW for Windows and both manuals are all available in English for DM299 (£120). The orders should be placed directly with Tommy Software, Selchower Str. 32, 12049 Berlin, Germany.



# TT pretender

AS previously reported in Eurotalk (October), a German company called GE-Soft are developing a TI-compatible clone. The design is basically finished with production scheduled to commence in the next few weeks.

The new computer, named Eagle, is marketed as a "smart alternative to the  $\Pi$ ". If its specs are anything to go by the Eagle does indeed fly high: 50MHz 68030 with the board running at 50MHz as well; two VME bus slots; a 68040 slot; a PC case-sized motherboard with matching peripheral slots; DMA out; Midi; ROM ports and ST high, TT medium and TT high screen resolutions

The manufacturer is hoping for both software and hardware support by independent developers in producing new operating systems, ISDN cards and even high-end graphic cards.

The Eagle will be housed in a stylish black box - similar in appearance to the NeXT cube. GE-Soft are currently in negotiations with Atari regarding TOS licensing. Failing that, a TOScompatible operating system called MAGIX developed in Germany will be used instead.

The price of the Eagle has not been set yet but is expected to be in the DM4,000 to DM5,000 range (£1,600 to £2,000). GE-Soft are at Postfach 1324, 53823 Troisdorf,

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#### Atari Calculator

This large display desk calculator from Atari will solve all your mathematical problems in no time at

Whether you're a programmer, home worker or keeping track of your home accounts, it will make an ideal partner for your ST.

Its features include addition, subtraction, multiplication and division, as well as pi, per cent and 32-

There are memory and mark up facilities and just in case you forget, an automatic power off will save battery life.

sten auto recall.

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#### Atari Robotics

Control battery-operated robots such as Lego from your ST with this powerful and easy-to-use package. It contains an interface card and software, both designed for

use by people without electronics experience.

The manual takes users from the basics through to building sophisticated models, with the help of clear diagrams

and examples.



Analogic Computers (U.K.) Unit 6, Ashway Centre, TEL: 081-546-9575

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Two exclusive program demos await you on this month's double CoverDisk bonanza. So what are you waiting for? Slam in the disk and check them out

# disks



Protext now has the ability to impor

# **Protext v6**

control codes

Arnor's top notch wordprocessor just got even more powerful. Load this exclusive demo to see just what it can do

To get Protext up and running, copy PROTEXT.PRG and X\_DATA.TOS to a formated blank disk. The X\_DATA.TOS file is an archived file containing essential data files and has to be extracted before running Protext.

Simply double click on the X\_DATA.TOS file and extraction will commence. Upon completion, you may then delete X\_DATA.TOS from the disk as it is no longer required. You can then run PROTEXT.PRG.

In this demo, you are limited to documents not exceeding 2k, and the dictionary and thesaurus have been omitted.

Those of you familiar with the program will no doubt be aware of the outstanding speed with which it processes text. Such speed has made it popular among many people.

This level of performance is achieved, in part, due to Protext's choice of not using GEM to its full extent. If you are new to Protext, don't expect to see the familiar GEM windows and menus, Protext has its own menu system.

Also, don't expect a wysiwyg (what you see is what you get) display in which text styles

Protext reader offer

Turn to page 20 for an
unmissable offer!

Programmed by: Arnor Configuration: All STs with 1Mb - medium or high resolution Filenames: PROTEXT.PRG - executable

file, X\_DATA.TOS Self extracting archive

(underline, bold and so on) are displayed. Any
text styles are placed in the text body as printer

Some people may wonder how Protext can stand up to other wordprocessors offering full wysiwyg displays and the familiar GEM environment. Well, it does pretty well, thank you very much.

Its success across a large number of computers, such as Amigas, PC-compatibles, Amstrad PCWs and Acorn Archimedes, is testament to its acceptance by both Joe public and industry professionals.

Another excellent feature which makes Protest very popular is its extensive range of printer drivers. There's nothing more fusitating than buying a wordprocessor only to find your printer's output is doing strange things because there isn't a dedicated driver for your particular printer model.

Protext overcomes this by including hundreds of printer drivers which can easily be installed. This demo version however, has a limited selection of the most popular printers only, due to lack of space on the CoverDisk.

Version 6 of Protext features some powerful additions. The most drastic is its ability to import picture files in either IMG, PCX, GIF and IFF file formats. These can be placed anywhere on a page and can also be scaled up or down.

However, you cannot see the picture onscreen. Instead, a printer control code is

14 Atari ST User December 1993

placed at the specified position which informs the printer to output the picture at that point, Still it does mean that company logos and artistic letterheads can now be incorporated into Protext documents.

There are many other features available, too many to mention here. Suffice to say that it is ready and waiting on the CoverDisk for you to explore. There is also an extremely good online and interactive Help facility, which you can take advantage of to get more detail on some of the program's features.

#### Protext 6 features

- Graphics import
- Interactive Help support Improved speed
- PostScript
- Many more printer drivers
- Font spacing
- Colour printer support
- And more...

# Dogfight

Get airborne and enjoy this fully playable demo of MicroProse's latest flight and fight simulation with various aircraft to choose from

The files within the archived file X DOG.TOS must all be extracted to the root directory (that is, not in a folder) of a floppy disk with a standard nine sectors per track format. Hard drive installation is not possible.

It must be fair comment that if you are playing a good military flight simulator, chances are it is from those talented guys and gals at MicroProse. They just seem to be the most prolific when it comes to ST simulations.

Their latest flight and fight action comes in the form of Dogfight, a game which allows the most hardened of pilots to try out their battle

skills with other aviators. A rather neat feature about this game is that there is a What If? scenario which allows you to pitch a Harrier jet against a German Fokker

Programmed by: MicroProse Configuration: All STs - low resolution Filenames: X DOG.TOS -Self extracting archive

triplane. Great fun I can tell vou In this demo version, you only can access

the What If? mode and there are three planes to choose from - Spitfire, Sea Harrier and the aforementioned and unfortunate Fokker triplane. Once you choose your plane, you can



In this demo vou can select from three planes -Sag Harrier, Snitfire and Fokker triplane



I didn't even have time to bail out. Oh the shame of it. I'll never live it down

select from five other planes to battle against. with the option of starting from seven different positions. You may then select either the Middle East or Vietnam for the locale to do your dogfighting over.

Before leaving you to it, I'll give you some playing tips. If you are low on fuel or ammo. you can land at a friendly airbase to refuel and re-arm. Just make sure it's an allied hasel

Novice pilots may use the Auto Intercept feature (Alt and B) to quickly engage any nearby enemy planes

Using the Inverse Tactical View (F4) can give you a clear view of the enemy's actions.

Use this to plan your strategic response Don't attack into the sun - you will be

dazzled, and never, never fly into the ground! The full game features many more planes. missions and various locations to fly over. The hallowed and illustrious pages of Gamer, written by the ever present Biffa and Simon, contain a complete review of Dogfight, so turn to page 75 to see what the auvs think of it.

#### Dogfight key guide

90 45

Flight control keys
Cursor keys/
joystickPitch/Roll plane
<rudder left<="" th=""></rudder>
>Rudder right
+Increase engine power
Decrease engine power
Shift and +Maximum power
Shift andEngines off
GRaise/lower landing gear
BAirbrake on/off
WWheelbrake on/off
]Raise/lower flaps
1Set Harrier jet nozzles to
degrees
2Set Harrier jet nozzles to
degrees
3Set Harrier jet nozzles to
vertical
Alt and SSet control sensitivity to
normal/fine
Alt and BAuto intercept on/off
Ctrl and EEject

weapons controls
ReturnSelect weapon
Space or
Joystick button Fire weapon
TSelect next target
YSelect nearest enemy aircraft
RChange radar range
FLaunch flare

	View controls
	Cockpit view
F2	Console view
S	Move console in F2 view
F3	Tactical view (to current
	target)
F4	Inverse tactical view (from
	current target)
F10	External view of current
	target
Shift and T	Set current target to your
	gircraft
T	Select next target
	Select nearest enemy aircraft

#### Camera controls for F3, F4 and F10 views Use numeric keypad for following controls

+	.Zoom in
	.Zoom out
9	.Pan up
3	
0	
. (point)	

	General controls
P	Pause
Shift and Z	Set time advance (X2, X4 or
	X8)
Shift and X	Cancel time advance
Alt and C	Set shape complexity
	Sound on /off

#### Experiencing a problem with the October CoverDisk?

#### CoverDisk Hotline

If a fault turns up

TIB, 11 Edwards St, Bradford BD4 78H

#### Single-sided service



# **Useful utilities**

Four programs to make life a little easier for those of you with floppy and hard disks

In this folder you will find four useful disk utilities which will make your life easier, especially for those of you with a one drive system. Goodies included are Fcopy 3, probably the

Deskrapis	Super Bost		formation Telector W.1  Eccessories TECH TEMP ECCETER	litte
	MICCELSA TEMP HIST HIST HID: 1 THE SEE 2 SEE YES 5706/05	STATE OF THE PARTY		
	I I I I I I I I I I I I I I I I I I I	Hecald Separate Health	n n	

Superboot can be configured to your personal tastes with ease using the Superboot Construction Set program

#### Configuration: All STs - colour or mono resolutions Filenames: DISK - Folder containing utilities

best copier for the ST which can also double as a disk formatter allowing ten sector formats, Autosort, ideal for managing the excution order of programs in the AUTO folder, RDE RAM disk, which makes file copying operations much faster and Superboot 8.1, a boot manager with masses of features for the hard drive owner.

#### **Using the** CoverDisk

Write-protect your CoverDisk now by sliding the write-protect tab so you can see through the hole at the top right corner of the CoverDisk.

corner of the CoverDisk.

In order to fill the dask with as mony programs as possible, ST User employs office compression techniques when placing longe programs on the CoverDisk.

Construction of the CoverDisk and the CoverDisk and the directly assecuted from the CoverDisk. Archived files are identified by their mans beginning with X. Archived files are identified by their mans beginning with X. are actually folders containing files which are not compressed.

These uncompressed files should also de-copied to a blook disk. Tolowing are a series of suphyseign instruction.

blank disk. Following are a series of supplysely instruc-tions for using the CowarDick. New High uses an extended important. The ST User CowarDick is increase strongs space. This means you will not be able to copy the disk using the ST's builtin copying feature. To make a backup of the CowarDick, you will need a copying usify, such of the CowarDick, you will need a copying usify, such of the CowarDick, you will need a copying usify, such of the CowarDick of the CowarDick Alternatively, you may use a formating usility, to format a disk to the same 10 sector, 82 track specification as the CowarDick and surple copy all first but have

#### Using archived files

Using archived files

Note: When copying files, the ST refers to disk A and disk
B in its anscreen instructions. Disk A refers to the disk being
capited while disk B refers to the disk being capited to
[usually a pre-formatted blank disk].

(usually a pre-formatted blank disk).

1. Format a disk.

2. Copy the required archived file to the formatted disk.

3. Run the copied archived file, it will now automatically "extract" to its full size.

4. Once complete, delete the X, filename as this is no longer required. The formatted disk should now contain all the files that were in the archive file.

Normal uncompressed files
1. Format a blank disk
2. Open the required folder and copy all files in the folder

Highlighting and dragging files and icons
1. Click once on the item, it should turn black (the now highlighted).

now highlighted).

2. If you keep the left mouse button held down on the item, a dotted outline of the item appears and you may then resposition it by moving the mouse to the required position (effectively dragging the icon) and releasing the mouse

button.

If you are new to the ST and did not understand some of the terminology in the preceding steps. There now follow an explanation of some basic techniques needed.

Formatting a disk

1. Place the disk to be formatted in the drive

2. Highlight the drive A icon.

3. Move mouse pointer up to the FILE menu s

Move mouse pointer up to the FILE menu at the top of the screen and select FORMAT.

follow instructions on the screen exchanging disks as

screen and select POWANT.

A A box will appear. Click on OK.

Another box will appear. Ensure DOUBLE SIDED is selected then click on OK. The disk is now being formatted.

Copying files to another disk

1. Select the file to be copied by highlighting it and dragging it to the disk B icon.

2. A box entitled COPY FILE(s) appears. Click on CV and A box entitled COPY FILE(s) appears. Click on OK and

**World Conquest** 

A strategic game of war in which you can fight against either the computer or a friend

In this challenging game of strategy and warfare, you must use all your wits to out-think your opponent.

The game is played in turns. During each turn you must produce and move your military units in order to conquer other cities. This allows you access to further resources for building more military units. You can either play against an (admittedly stupid) computer opponent, or, using a modem or a null modem

Programmed by: Alois Felber Configuration: All STs - low resolution Filenames: X CONGST.TOS -Self extracting archive

cable against a friend. The latter method is infinitely more challenging as there is nothing more devious and unpredictable than another human being..

The game is controlled by mouse and utilises the GEM operating system to the full. This makes it very easy to use and as long as you are familiar with menus and windows, you will soon get the hang of controlling

# Midi Maze I

A brilliant 3D shoot-'em-up maze game in which up to 16 players can connect their STs via Midi leads and battle it out

Due to popular demand from people who missed this excellent game on a previous issue, here it is again.

Midi Maze II is the best multi-computer game available on the ST at the moment. It has you controlling a smiley-type character through different mazes in pursuit of enemy smileys, which you should immediately shoot upon

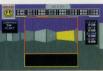
The most exciting feature of Midi Maze, though, is that you can have up to 15 other players' STs connected via their Midi ports, with all of you chasing each other in an

attempt to become the top gun.
It is also possible to form colour-coded teams and seek out opposing teams. This allows for some pretty exciting strategic game-play. Do remember that each player will need to bring a set of Midi leads (available at most

Programmed by: E-Soft Configuration: All STs - low or high resolution

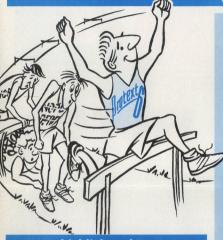
Filenames: X MIDI1.TOS, X MIDI2. TOS - Self extracting archives

computer and music stores), in order to connect to the game network. Full details for setting up the network are contained in the on disk documentation file MIDIMAZE.DOC.



Some mazes have yellow doors which those players who have bought keys can escape from those players who haven't

# Protext 6 - A Winning Performance



# Some highlights of Protext 6

#### Styles

Styles let you make flexible use of printer fonts and effects. You can change a font throughout a document with a single operation.

#### Graphics

Graphic images may be imported into a Protext document. Supports IMG, PCX, GIF and IFF, You can select any resolution and scale the image. Dot matrix, inkjet and laser printers.

An easy to use dialogue lets you lay out your page precisely as you want using inches or cm for the page length, margins and tabs.

**Document Layout** 

#### **Printers**

Protext's unrivalled understanding of printers gives you the highest quality printing at the highest possible speed. Using a printer's built in fonts enables Protext to print pages in seconds rather than the minutes taken by some programs.

#### Protext is still the fastest

- Fastest at editing.
- Fastest at spell checking. Fastest at printing.

#### Protext still has the best printer support

- Hundreds of printers supported
- PostScript driver included NEW
  - Scalable font support NEW
    - Colour printing NEW
- Automatic line spacing NEW

#### Protext still has the most advanced features including:

- Styles NEW
- Graphics import NEW
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    - Thesaurus
    - Hyphenation
  - Document analysis
    - Glossarv NEW Footnotes
- Widows and orphans
  - Index and contents
- Addition of numbers
  - File sorting
    - Mail merge
- Programming language

#### Protext is now easier than ever to use

- Menus and dialogue boxes
  - Interactive Help NEW
    - Macro editor NEW
  - Dictionary editor NEW

The list price of Protext 6 is £152.75 but you can order direct today for just FQQ inclusive. For the Atari ST and TT. Phone us today and we will send you a usable demo version and a full specification, absolutely free. Upgrade offers available - please call us for the current price.

7/3/102

he first thing you will see when you run the program is a welcome screen. At this point, you can either press the Esc Key to abort the program or any other key to begin.

Protext will first ask for is information on what type of printer you may have attached to your ST.

There is a choice of nine popular printer drivers in this version; however, the full version has hundreds to choose from. To select an appropriate driver for your printer, press the corresponding number key. The next screen will then inform you of the limitations which apply to the demo. It



First, you need to tell Protext what kind of printer you have attached to your ST



With its comprehensive on line help facility, learning the ins and outs of Protext will be much easier

# Wise words

should also be noted at this point that, besides a 2k document limit, the dictionary and thesaurus are unavailable.

To get Protext up and running, press 1.
You should now be faced with the main menu screen. Protext is extremely versatile when it comes to accessing its features.

The user can use the menus by pressing F3, or by clicking on the right mouse button to toggle the menu bar on and off. For those who are more experienced, there are comprehensive keyboard commands for all functions.

The mouse and menu system is ideal for beginners in that they will be immediately familiar with it, due to its similarity to the ST's menu system.

Using the keyboard commands is more efficient in that the user need not remove their hands from the keyboard in order to manipulate the mouse. However, there are many keyboard commands to remember which will require practice in order to attain familiarity.

The first important feature to know about is the online help facility. To activate this, either press the Help key, or activate Protext's menu by clicking the right mouse button once, and then moving the mouse pointer to the File menu item and selecting Help from the list.

The Help system is very versatile and easy to use. Simply click on the required subject, or press the appropriate number key. For quick selection of a specific topic, select Help on Named Subject from the main menu of the Help facility.

This will allow you to type in a specific topic, ofter which Protest will attempt to find any information relating to it. For example, if you want information on the menu system, enter the word "menu" at the subject prompt and press Return. Protext will then try and find any information on that subject.

At the top of the screen, you will see two status lines of text. If you can see the menu items (File, Swap, Edit and so on), you have activated the menu bor. To clear the menu bor, press F3 or click the right mouse button

The status bar contains information relating to the document being edited and also

shows certain current settings for Protext's various features. Below the status lines, you will also see the ruler. This shows information relating to tab settings and left and right margin positions.

As with most wordprocessors, you can move the text cursor around the document using the cursor keys, and others such as Backspace and Delete function as expected.

There are two modes of text entry: Insert and Overwrite. In Insert mode, typing text between words will move the text to the right of the cursor to accommodate the new word.

In Overwrite mode, any text to the right of the cursor will be overwritten. Choosing between the two modes is achieved using the Insert key located just under the Help key.

At this point, we will load in a sample document to experiment with. Bring up the menu bar by pressing F3 or by clicking the right mouse button once. Move the mouse pointer up to the File menu item and select the load function by clicking on it with the left mouse button.

A box should appear with a list of filenames and file sizes – this is Protext's file selector. At the top of the list, you will see the word Parent. Clicking on this allows you to get out of the current folder to the previous one. While the file selector is displayed.



#### Have you extracted the Protext demo? Then check out this quick guide to some of the features it contains

Besides the quick keyboard short-cuts for all of Protext's functions, there is also a menu system available

bring up the menu bar using the F3 key or right mouse button. You will see that the remun bar has changed over the one used for editing.

This file selector menu provides some useful file manipulation functions such as

erase, rename and copy, as well as functions for changing drives, creating directories and sorting files.

You can also press the Tab key to switch between various file display modes. To load

You can also press the lab key to switch between various file display modes. To load the sample file, simply double click on the SAMPLE.DOC file.

Some of the most useful features in a wordprocessor are the block editing functions. They are an example of the features which make the computer infinitely more powerful than the bog standard typewriter.

With these block functions, you can mark a section of text and then manipulate it at will. You can copy it from one place to another, even from one currently loaded document to another. To get a better idea of this, move the mouse pointer to the beginning of the list of computers (BM PC XT). If you press the left mouse button, you

should notice the cursor jumps to the current



mouse pointer position. Now, keeping the left mouse button held down, move the mouse pointer to the end of the Acorn Archimedes line. You should see that a highlighted area appears as you move the mouse. This is marking the text which is to be manipulated.

If you release the mouse button, you can now go to the Block menu item on the menu bar. From here, you may now choose any of the block functions to manipulate the defined section of taxt

You can also get a word analysis and statistical information on the currently selected block by selecting Count Block from the Block menu. Try it now to see the kind of information you have at your fingertips.

Appearances are important, and Protext allows you to change the way your document looks with ease. Various factors, such as line spacing, tab and margin settings as well as printer control codes are responsible for controlling the layout

#### SPECIFIC LAYOUTS

One of the most important tools for creating specific layouts is the ruler. If you look below the two status lines, you can see the ruler, which at the moment contains six tab markers as well as the left and right margin indicators

Protext offers three types of tab marker; normal, decimal and centre. Decimal is used for numerical data while normal and centre are self explanatory. Let's experiment with the ruler and at the same time, take advantage of Protext's ability to enable the user to edit multiple documents.

Activate the menu bar and move the pointer to the Swap menu item. At the bottom of the selections available from the Swap menu, you can see that the current document is SAMPLE.DOC, indicated by the check mark to the right.

Below this, you can see the words New File. Selecting this will open another file for editing while keeping the SAMPLE.DOC file in memory also. Select New File now

Notice that the colour of the status line has changed to green to indicate you have changed to a different document. This colour change is useful when in split screen mode, where two different documents may be viewed at once.

Below the status lines, you will see the default ruler showing the current tab settings and margin indicators. There are three types of tabs available, normal, decimal and centre, which are represented by the characters !, . and C. Decimal tabs are used to align meric values to the decimal place.

Press the Tab key a few times and you will see that the cursor skips to the positions indi-



There's even extensive statistical information available for those who need it



cated on the ruler. To set new tab settings, you simply double click at the required posi tion on the ruler line. Continually double clicking on a particular tab setting will rotate through the various tab types. At this point, create more normal type tabs at equally spaced intervals to those already present. As you can see, another ruler indicator appears. Protext allows you to have different rulers at different positions in one

Now, choose a position approximately in the centre of the ruler and double click the left mouse button on it to change the normal tab to a decimal tab. There should now be

a decimal point in the middle of the ruler Use the mouse or arrow keys to move the cursor to the beginning of the line below the new ruler line and press the Tab key until the cursor is directly under the decimal tab indicator.

Now enter the number 456.76. The numbers will be moved to the left until you press the decimal key, at which point the numbers typed in will appear after the decimal point.

#### CENTRED TAR

Next, change this decimal tab to a centred tab by double clicking on it using the left mouse button. The decimal point should change to the letter C

Move the cursor to the beginning of the line below and use the method described earlier regarding blocks, to highlight the entire line up to the last digit of the number previously entered

This defines a block, which we want to erase completely. You can now either go to the Block menu and select Delete Block, or simply press Control-Delete

Press the Tab key until the cursor is under the C tab marker and enter some text. The text is dynamically altered as you type, to keep the text centred on the tab marker.

Let's clear the screen of our tab experiments so we can check out these line graphics. Activate the menu and move the cursor to the File menu item and select Clear Text.

With this nice clear screen, we have to put Protext into line drawing mode. To do this, press the F7 key while watching the top right of the status bar. As you press F7, you will probably see the words "SCR f3 for menu" change.

This let's you know at a glance that you are now in line drawing mode. To draw a line, you need to hold down the Control and Shift keys down together, then use the cursor keys to actually draw the lines

Draw a box about four lines deep and about half-way across the screen. Then position the cursor using the mouse or arrow keys, so that it is within the box at the top



wordprocesso Using Protext's simple built-in line graphics, you can make a document much more presentable



Protext can load up to 36 documents. with a split screen display to view two documents at once

left. If you now type any word that comes into your head (keep it clean!), you will see that the box is messed up due to a section of it moving away as you type. Press the Backspace key until the word is deleted and the wayward section is back in place

To overcome this problem of typing text within the defined box without messing it up, the Overwrite mode comes in useful. To enter this mode, press the Insert key. You should see the word Insert, in the status bar at the top of the screen, change to Overwrite

Making sure the cursor is back within the box at the top left, type in some words. As you can see, the box remains intact due to the new mode we are typing in. Although line graphics aren't stunning, they can certainly improve the look of your document.

However, the most dramatic way to increase the aesthetic value of a document is to use Protext's Import Graphic facility. This allows you to import a graphic images in either PCX, IMG, GIF or IFF picture formats, at the cursor position.

The Import Graphic command is accessed from the menu under the Tools menu item. When you select this, you will be presented with the Import Graphic options box. From here, you can press the F key to bring up a file selector box in order to locate the image file

There are also options to specify the width and height of the image as well as options to keep the aspect ration and whether the image is left or right justified.

### Special offer!

If you fancy the complete Protext 6 package, those nice people at Arnor are offering Atari ST User readers the chance to buy the complete package at a reduced price. For more information, turn to page XX.

Retail price £152.75

# Perfect **Protext**

**Upgrade your Protext** CoverDisk to the latest package for only £95!

Lowest price available

This month's Atari ST User CoverDisk lets you test the very latest version of Protext for free - and once you've seen how good it is you can pick it up for an incredible £95.

Yes, £95 for this outstanding product which should retail at over £150! Arnor's well-known wordprocessor has just got better! The latest version - six - can import graphics among many other new features. When it comes to power Protext leaves its competitors standing. Also this almost infinitely flexible program supports just about every printer that can be hooked up to a computer.

Font spacing

 Graphics import Landscape printing

Glossary

#### Significant improvements since version 5.5 include

- Ascii save three options built-in
- Calculate expression
- Colour printer support
- Copy line at cursor
- Document settings dialogue
- Exclusion dictionary
- Faster editing of larger files Font sensitive underlining
- dialogue
  - support Macro editor Page break key
  - Variable line spacing
  - Proper single and double quotes

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# OOTBALL MASTERS

We have served thousands of satisfied customers during our 4 years of ling, Over 10,000 man hours (during 5 years) has been dedicated to the production of this games constant improvement and it must be one of the most realistic and accurate representations of a professional

contain manages pior, man returners returns returns, for formance statistics, seak and offers. 3 Difficulty levels, Manager of the month and season awarded, Pools, Pick any team in any division to begin with. engage & Cup: Piemer 22 teams, Division 1, 2, 8,3 have 24 teams, Play-offs, Tables. 7 Cup competitions with precise rules (2 legs, extra me, away goal rule, seeded draws, European Cup tables, 5 subs, on-domestic player restrictions etc.), Finalist route to glory

g, Special talents, Trainees, Goalkeepers (separate skill ies), Defenders, Midfielders, Attackers & Utility. Retirement Team : Imining Tactics (15 different styles) Aggression Formation

allows specific player field settings (Left winger, Sweeper etc.) The Match: Real time scoreboard reporting goals & injuries yellow/

teat caus, Joanel enters, intervations permitted a tray time to change tactics, formations and make subs. Physical graphical penalty portricipation (optional). Over 80 different referees. Other: Fast load/save, Printer access, 20 Options to set various game preferences, Instruction book, Easy to play, Technical support.

Scottish: Dedicated version details available upon request. Weather, pitch and light often make an impact on ground condition.



This is a purely managerial cricket manager game that concentrates on strategy and includes plenty of relevant statistics. The game has been designed and developed by a true fan of the sport. It replicates everything that a real manager has to contend with and it's a totally unique production that anyone with an interest in Cricket should experience. A summary of the main features is shown below:

- . AXA EQUITY & LAW 18 league county teams, 50 overs per game. 4 Cup competitions including Benson & Hedges, Nat West.
- 20 different match umpires with accurate names and strictness.
- · Accurate player details Surname, height and age.
- · 27 different player attributes, most have a direct impact on the effectiveness of each individuals actions during a simulated match
- Easy player selection. All game text is clearly presented.
- Batting and bowling averages. Top batting and bowling tables. 3 Different training intensities to boost batting, bowling or fielding.

 Full match highlights let you watch the action ball by ball with full graphics and/or realistic sampled sound effects for significant events (Fours. Umpire decisions, etc.). Interventions are permitted at any time to change batting tactics or fielding placings.

- 3 Batting/Bowling classifications (Normal, Attack and Defend)
- . Choice of 15 different field placings, Manager rating Full scorecard results with best batting and bowling figures.
- · Other staff (Physio, Groundkeeper, Scout) can be hired and fired
- · Annual league fixtures listing. Current week and last league results. · View current cup competition draws and historic records
- · Real time transfer market. Player contract and wage negotiations.
- . Sponsors, Printer access, Finances, Poor ground fines. • 15 Options to alter game preferences, Load/Save game.
- Instruction book with plenty of examples. . Plus many more fine details that we are unable to list here.



RUNS : 179

\*\* FOUR \*\*

# STABLE MASTERS V2 ORACLE Horse Tipster



Itis game has been designed to be as close to real racing as possible. Five years of development by a closer racing expert has led to the second revision of this Fair Hose Racing Simulation. Up to 4 of leyers can participate as former flowers with the primary objective of becoming the top rated trainer, in respect of prize money wan, or the end of each racing season. (Mach to November). These are up to 35 other intelligently controlled computer trainers to complete appetrat and compare your personal performance. In other the same you must discover a potential champion and than them so that they seem complete from the computer training may of the 47 big prize money vaces (Handicap and Group), eg. The Debry Top leye you mid also if the tools parabolic in this game to assist you reaching your objective we time listed the main features below the seed to demonstrate and the seed of the properties of the properties of the seed to the controlled on the seed to the controlled on the seed to the controlled on the seed of the seed to the seed t

- - ry anominate report of rectar store that make the store types. records similar to recting press. Real life. Handicaps & Roce Types. ruses, Injuries & Vets. Load/Save game. Many other items includer ion 1 is available upon request (Simple training & betting) @ £15

Tote, this program achieved joint second. This led to a serious approach from a well known national book maker. Rejected in favour of supporting the public.

Winnings Statistics: 104 wins out of 166, as from 2/6/93 to 1/9/93 Formula: This program tells you exactly what to do. You can NOT amend our system unlike so many other similar programs. How confident can you be in something that invites amendments! Research & Development : Three years full time race analysis and experimentation to refine and test the

prediction system. Inside Knowledge: Plenty of unique hints from contacts in the know.

User Friendly: No racing knowledge required, easy to use, tutorial book. Restricted Sales: As soon as our programs predictions have a prolific impact on the betting odds we will

stop accepting new buyers. Nonthly Updates: Highly recommended option. If any update fails to break even we'll send the next one

free of charge, From £25 Price Increase: Highly likely, Buy now before success forces increase



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omputer graphics in the film,
TV and music industries are
commonplace nowadays.
This technology is most evident in
programmes such as ITV's weekend
music hour The Chart Show, which
features a selection of music videos.

Extensive use is made of computer imagery on The Chart Show's opening sequence, and also during the showing of music videos, where a computer-generated image of a menu system is displayed, with information on the actual music track and artist.

With such programmes appealing mainly to the younger generation, it is not surprising that – due to high computer literacy and interest among youngsters – programmes featuring such technology are very popular.

Computer images have also been a major feature in some of the most successful films ever made. Remember Terminator 2 with Arnold Shwarzenegger?

There is a scene where Arnie walks into a bar, with the camera view looking through his eyes as he scans the people inside trying to find someone of similar size and build in order to swipe their clothes.

Computer graphics, superimposed over the view, created the illusion that what we were really looking at was the Terminator's computerised eyesight, complete with animated graphics.

So just how is this video technology achieved on a humble ST or Falcon, you may ask? Well, it's not just a case of plugging your ST's video output into the video recorder.

Although it's possible to record the video output of your ST onto videotape to create title screens, this method will not allow you to mix both ST graphics and video footage together.

To achieve video mixing, a special piece of hardware – known as a genlock – connects between your ST and the video source.

and the video source.

The device consists of some nifty elec-

The device consists of some nitry electronics which take the video signal coming from your ST's monitor port and mix it with the signal coming from the video source, such as a camera or VCR. Digital



# images

Want to add computer graphics or text to your home videos? Darren Evans previews Titan Designs' Graffiti genlock which allows you to do just that

These mixed images can then be recorded onto videotape.

Strictly speaking, there is no such thing as a genlock. Genlocking is actually the name given to a process whereby two pieces of video equipment are made compatible with each other, but with regards to genlocking using computers and video sources, the term

refers to the hardware which mixes the computers video signal to the VCR or camera signal, to provide a stable display.

Such complex hardware is required in order to get both the ST's video signal and the video source signal exactly synchronised to each other. Without this synchronisation, the images would be extremely unstable.

With all this complex video manipulation available through special genlocking hardware, you would be forgiven for thinking it would be a very expensive piece of kit.

Thankfully, Titan Designs have come up with a low-cost entry level genlock device, along with some pretty powerful software for creating graphics effects thrown in.

The Graffiti video genlock is the hardware part of the package with the graphics manipulation and imagery effects being provided by the ImpPro Animale graphics software.

Although the Graffiti hardware is complex and powerful, it essentially just sits there keeping your ST in synchronisation with the video source. All the exciting work is done through the ImPro software which comes supplied with it.

ImPro has been designed in such a way that it is very extensible. This essentially means that its features and range



Frame status

of video effects consist of program modules which can be installed at any

The advantages of this are that, should extra features become available, there will be no need to send off for a complete upgrade to the ImPro program.

Instead, any new features will be written as modules, allowing the user who may require the features offered by modules to simply buy them from Titan Designs and install them into ImPro.

This modularity even extends to the ImPro manual included in the package. Ring-bound, it means that the instructions which come with new modules can simply be appended into it.

The number of additional video effects which these extra modules can provide is stoggering. Theoretically you can have 2,654,208 effects resident at once. Of course their are practical limits to this theory, in that each effect will consume some memory in your ST, and will also take up disk space.

#### AUDIO MODULE

Future modules under consideration look extremely interesting. An audio module will allow the incorporation of sampled sounds, which – for those who have a Falcon – could also mean some very sophisticated processing features using the DSP chip.

A morphing feature will bring effects as seen in Terminator 2 or, less glamorously, the Mel Smith and Griff Rhys Jones advert extolling the BBC's service, where Mel Smith "dissolves" into different celebrities. The possibility of turning your ST into a fully-fledged desktop video system is very real!

Upon loading ImPro, you are presented with a colourful array of icons representing the various modules available, along with a film roll-type display to the far right. As well as the standard menu bar at the top of the

#### Setting it all up

Those of you with a Falcon or STE will have no problem setting up the hardware. All that is required is to connect the ST's 13-pin monitor output to the 9-pin Computer In port on the back of the Graffith

hardware.

Next, you connect the Video Out port of the video source (VCR or video camera) to the Video In

socket on the Graffiti hardware (which by the way is a standard phono-type socket). Lastly, you may connect a monitor or VCR to the 13-pin monitor/VCR socket on the Graffiti hardware.

Owners of STM or STFM machines will require an adaptor board, to be fitted inside the machine.

case, in order to use Graffiti. This is because these machines do not contain the hardware to accept an external synchronisation signal. Titan Designs offer a fitting service for those who require the adaptor.

When recording the images onto video, the Graffiti genlock outputs a signal from its 13-pin

when recording the images onto video, the Graffing genicks outputs a signal from its 13-pin socket, hence your video will need a Video In socket. Most videos should have such a facility but, if you intend to buy a video for use with Graffiti, check to make sure.

The most common use to which Graffiti will probably be put by the average user will be in creating titles for home videos. This will require that the user has two video sources – one for playing the source video image, and the other for recording the mixed images.

A number of video-specific leads will need to be bought. When buying leads to connect videos together as well as video cameras, you should ask for leads with an impedance of 75 ohms. Such a rating is essential for good quilty images.

screen, there is a bank of icons just below. These represent the currently installed modules which provide the graphic effects.

Below the icon back is a black text line. This acts as a textual backup to the icons which are displayed. When the mouse is moved over various icons, the text display shows a textual description of what the icon

Below the text line is the frame definition box. As a different frame in the film roll is selected, it is outlined in red. The frame definition box displays various information on that particular frame, such as whether it is text or graphics, and any information regarding special effects defined for that frame

The film roll is where image sequences are specified. Each frame can be either a text frame or graphic frame. Within each window, there is a frame number and a text description of the frame type (empty, text or graphic).

The text description for each frame is also colour coded.

If the words are white, that particular frame is empty (although its type is defined). For example, specifying a frame as text will cause the word TEXT to appear in white within the frame display.

This means that, although the frame type is defined as a text frame, no text has been entered and no effects have been specified. Once text has been entered the words will change to green.

Creating text will probably ImPro's main application. Many enthusiasts will use it to create text for video titling. ImPro's builtin text editor allows you to enter text as well as specify its colour and size. Fonts supported will include the Calamus range.

The steps for creating a sequence are very simple. Essentially, you first plan the sequence, deciding on the text and pictures that are to appear. Also, you wait the write down just how you want the pictures to appear. Will they be instantly displayed on-screen? Or will they appear using some of the many special effects which ImPro offers?

Next, you create the required number of frame types within ImPro using the Append frame icon. Having created the graphics for the picture frames within your sequence using a good art package, you can load these images into the respective frames. For the text frames, you enter the test using ImPro's built-in text editor.

ImPro supports various picture file formats, including Degas, Neochrome, IFF and others. Support is also going to be available for the Cyber series of 3D programs, meaning 3D animations can be incorporated onto your videos.

Once the frames have been filled with their respective data, the next step is to decide how the image or text is to appear. For each frame, you must specify the In effects and the Out effects. The In effects describe the way the image of the frame will appear on-screen. Out effects determine the way the frame image will disappear, or fade out.



Video titling is the most common use to which Graffiti will be pu

# FaST Club

For users of Atari ST & Falcon computers 2 Broadway - Nottingham - NG1 1PS Tel: 0602-410241 - Fax: 0602-241515

### Software

-				
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PixArt is very quick,
supports digitizers and graphic tablets, supports all ST-TT and Falcon

screen resolutions (monochrome to 18.7 Million runs on all fully GEM-comp. graphics cards

Other highlights: you can zoom in or out of the picture and still use all the drawing tools. PicArt has very creative block manipulation facilities that will be of great use to DTP users. PicArt is fully Falcon or great de to DTP deers, Probet is trily Pacic compatible. Wonderful, wonderful! is how the German Atari magazine TOS summed up its feelings about PloArt! Available: October 11th

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☐ Mortimer Del uve £34 95 Euro more festures: ten tout editors file constidisk copier, better file selector, time scheduler with alarm, and more... Fully compatible with ST, TT and Falcon computers. Available: December.

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The front panel showing overlay, image

control, brightness and colour adjusters

ImPro will offer an extensive array of special effects for image display. Effects such as fade, diagonal scan and many other methods will be available in the final version

Each effect will also have many parameters which can be edited, thereby providing even more variance to the visuals on offer.

Timing is important when creating sequences. Ensuring the graphic images appear at the right time during a video sequence is sometimes essential

To this end, ImPro allows you to specify a frame delay and a tag delay. A frame delay is the pause between the In effect and the Out effect for each frame. For example, it determines, the amount of time a picture is displayed until it is removed. The tag delay determines the time delay between the different frames which comprise the entire sequence. A



The back shows power, RGB output, video ouput and computer connections

Row: 1 Col: 23 Graffiti video genlock

Creating text for titling ImPro File Sptios is extremely easy with the built-in text editor

key feature of any genlock is the colours chosen for the computer graphic overlays. Graffiti has a front-mounted switch allowing the user to select Overlay or Transparent mode.

This allows certain colours to obscure the video image, while leaving others transparent, which makes some interesting effects possible.

For example, you could have the entire screen filled with a colour which the video image does not show through. Then, you can select

an effect which consists of a box, that expands to the size of the screen. If the colour of the box is a transparent colour, then the video image will be seen through it as it expands, creating the illusion that the video image is expanding onto the

ImPro Animate will also take full advantage of the Falcon's extra features. It will work in the extended colour

modes, such as TrueColour and 256 colours, making for some pretty awesome graphics.

If you want a low-cost genlock package to put some life into your home videos, then Graffiti video genlock, along with the powerful ImPro animate software, is the ideal choice.

Product: Graffiti video genlock Price: £179.95 Supplier: Titan Designs, 6 Witherford Way, Selly Oak, Birmingham B29 4AX Telephone: 021-414 1630



repeat, as well as set the tag delay between different frames and the pause delay between frame effects

# **Graffiti update**

Last minute news from Titan Designs is that the panel facia colours have been changed to black with metallic gold lettering, as opposed to the predominantly yellow of that shown in this preview.

Also, an additional phono video output port will be available on the finished Graffiti hardware. The prototype show here only has the 13-pin monitor/VCR output which gives an RGB signal. The final product, will have an extra

omposite video port.



The final product will have an extra composite video port to enable it to be connected to most video recorders

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famous painter is an obvious choice of name for a paint program - remember the classics Degas and Degas Elite? - so it comes as no surprise to find a new package named Chagall. A little farfetched in this case, perhaps, since it is highly unlikely that Marc Chagall ever used a scanner, but certainly inspiring.

Chagall, another German import by DTP specialists CGS ComputerBild does have some painting tools but its real purpose is to touch up and edit images scanned into the computer.

Once ridiculously expensive, scanners are now standard equipment even for modest desktop publishing setups and basically fall into three categories mono, greyscale and colour. Mono scanners are the most limited since they only handle black-and-white line art well - arevscale and colour images are converted into black-and-white dot patterns by a process called dithering"

Enlarging or reducing them will probably cause irritating patterns to emerge. and editing them is a painful process as you have to work pixel-by-pixel.

#### DATA OVERKILL

Greyscale and colour scanners are far superior as the pixels are not simply black or white but either one of 256 shades of grey or one of 16.7 million colours! Since this is really data overkill for most printers, there is plenty of room for scaling and editing without any noticeable loss in image quality

Although they are deceptively simple to use - rather like photocopiers, in fact - it takes some skill and experience to get the most out of scanners. If the original image was poor to start with, it will be even poorer after scanning, for example.

Perhaps the picture is too dark or has weak contrasts. Or maybe the picture would look better with that ugly background removed. Perhaps a photomontage is what you really want rather than a straightforward reproduction of the scan. In all these cases, you need a program like Chagall

Ideally, you should be able to control your scanner from within Chagall so that you do not have to save the image file to disk, swap programs and then reload the file before editing it. Chagall allows this provided you have a GDPS driver for your scanner - I don't so I



A picture says more than a thousand words. so it is worth expending some effort on getting it right. Günter Minnerup looks at Chagall, a new package for scanner owners

could not test this but CGS ComputerBild may well be able to supply you with one

If you have MultiTOS (and plenty of free RAM) GDPS drivers are not really needed as you can have Chagall and your scanner software running in parallel. If you have neither, don't worry too

much because of the strong points of Chagall is its extreme flexibility in the image types and file formats it will handle: TIFF, GIF and IMG between them cover just about everything you are likely to get from whatever scanner you use, in either mono, greyscale or colour. As a special bonus, Chagall can



Not only can Chagall have up to 40 (with WINX installed) windows open, but these windows can also contain images of different kinds, such as True Colour and greyscale, at the sam time. The display mode depends upon the currently open window: here, a colour nicture is the top window so the greyscale Rolex looks a bit weird. When a greyscale image is "on top", the colour ones are displayed in a mono screen raster





It is possible to load one-bit mono scans into Chagall and have a go at editing them, but this comparison with a true grevscale scan at the same size illustrates the near-pointlessness of doing so: you simply can't see what you are

doing. Since the pixels are all either black or white, the program has nothing to work on either. But you may still wish to use mono pictures for montage purposes or to use simple line art, and Chagall offers special filters to clean up, invert, outline and otherwise manipulate one-bit graphics

(see below)

ened by Chagall, not even Chagall 4C

cated user interface, takes a lot more

time to master, and does not integrate with other software as well.

But Retouche, because of its dedi-

Chagall is therefore an attractive

program to learn as it closely resembles other

GEM software and can

actually do most things that Retouche can do,

albeit not quite as well,

There are even some

convert between all these formats, even turn a dithered mono into a grevscale the drawback, of course, is that the image is very much reduced in size as the conversion works by assigning a grey value to a dot matrix (16 x 16 for best results).

As the passing reference to MultiTOS above will have indicated. Chagall is very much a GEM program, all menus. icons and windows. Not only the actual

images, but also the toolboxes and dialogues appear in their own windows, so you may expect to run into early trouble given GEM's system limit of seven windows at a

redraws.

everything that the more expensive version can...

To get around this, a rather useful shareware hack called WINX is bundled with Chagall: Drop this into your AUTO folder, and the limit is miraculously increased to 40, and there are other benefits too like accelerated screen

option if you do not need to edit scanned images often enough to justify the effort required to get the most out of Retouche Professional. It is the easier

Chagall Light can do virtually

points where it is superior to Retouche: the ability to have more than one image in view simultaneously, for example, which makes it much easier to check the effect of an edit-

accurately and fast.

Or the fact that Chagall masks are halftones rather than Retouche's monos so that effects can be finely graduated rather than just excluded from masked areas

Chagall's main shortcoming, when compared to Retouche and other than speed, lies in the greas of output and fine control. Chagall is principally aimed at the home user with one of a range of standard laser, inkjet and dot matrix printers. Various output resolutions and raster screens are supported. but nothing like the quality and versatility of the hand-optimised output screens offered by Retouche, and no imagesetter or PostScript support.

The tools and filters cannot be controlled as subtly as by Retouche, and many of Retouche's advanced features - such as vector projections and the histogram functions - are absent altogether.

The competition between the two products from the same distributors is therefore only an apparent one. According to Ray Cross of CGS, Retouche Professional remains their flagship product for the professional market, and is in fact only sold now in a bundle with Didot Professional, their top-end vector illustration and page layout package that shares many file formats with Retouche.

#### MASS MARKET

Chagall is sold in two versions, of which Chagall Light, with its very reasonable price of £149, is expected to be the mass market product, while Chagall 4C - which, as the name suggests, supports four-colour separation output - will cost a rather hefty

Since Chagall Light can do virtually everything that the more expensive version can do, except the colour separations and a few other, minor differences in functionality, it is clearly the version CGS intend to push hard

Most ST or Falcon owners will have little use for colour separation anyway. since DTP output tends to be on mono lasers which, in turn, are much too inaccurate to supply camera-ready copy for professional process colour work.

Using colour printers and colour photocopiers, low-cost colour output is now beginning to become feasible for short print runs, but for anything above a few dozen or, at most, a few hundred copies the standard procedure is still to produce mono laser artwork and pass this on to a commercial printer for plate making and mass production.

Proper work with colour also requires

At this point I have to introduce a comparison with Retouche Professional, the (Atari) industry standard for scanned image editing, a tried and trusted tool which I personally think beats all the Mac and PC competitors for power, speed and ease-of-use. The comparison is inevitable since Retouche and Chagall are both marketed by CGS ComputerBild and it

There is no doubt that the strict adher-

ence to GEM has advantages in terms

of compatibility. Chagall runs in every

conceivable resolution on every

conceivable computer in the Atari

ST/TT/Falcon series, and works with

But you also pay a certain price for

this in terms of speed as screen redraws can be a bit sluggish, especially with

the slowly disappearing dialogue

every graphics card with a VDI driver

is not, at first sight, very clear why they should want to compete with themselves. Retouche Professional is a bit deviant

from the GEM point of view - it does not run in a window, cannot display more than one image on-screen simultaneously, and does not like MultiTOS.

But it is a hell of a lot faster and altogether more powerful so that for highend, professional DTP and illustration work its supremacy is not really threat-



designed to imitate traditional illustrators' tools and their precise effect will depend on the background as well as the intensity and other settings selected. Using the Stamp function in combina tion with the mask, it is possible to "sample" a picture block and define it as

the tool's shape. One

of the most useful is

The painting tools are

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The gamma curve is a powerful tool to modify the brightness, contrast and colour values of either the entire picture or a defined block within it. Another important application for this is the calibration of output devices and once you have found the best settings for your screen and printer you can save them to disk for reneated use Unfortunately Chagall offers no histogram analysis and therefore no means of altering the distribution of grey/colour values in the image

-.

a lot of additional hardware: A 24-bit graphics card and appropriate monitor so you can see what you are doing, and a large hard disk – preferably a Syquest drive – with its removable cartridges for sending files to an output bureau.

Again, few home or small business owners are likely to own these, so greyscale work is the practical limit of most users' ambitions.

Even without colour, the editing of greyscale scans is not really feasible on a mono monitor in ST high resolution because the dithered screen representation does not allow enough visual control over the effect of your actions.

#### DITHERING

The general principle governing the quality of the screen display is simple: If the image contains more information per pixel than the monitor can handle, the picture will be "dithered" into dot patterns.

The greater the bit depth of your display, the better the results – my TI in medium resolution gives a good-enough rendering of black-and-white photographs, and the same should apply to a Falcon with a VGA monitor.

This is all the resolution you need if your wark is intended for lear output, which cannot really handle more than 16 or, at a path, 32 greys anywer, for much the same reason, it is rarely necessary to som images at more flan 150dpi or even 75dp; the additional data mass will only occupy normous RAM and hard disk space unnecessary law, and hard disk space unnecessarily, and be wasted unless you plan to enlarge the image significantly.

The filters are powerful tools to apply certain standard transformations to the image data. The filters applied here were, in clockwise direction, mosaic, sharpen and roller! the latter with a mask applied to the Some of the filters will have very drastic consequences - which is where the Undo buffer comes in handy - but you will soon learn to use the slider in the dialogus box to restrict the range of the filters, with the work of the work of the standard that the windows of the standard that the stan

Economy with RAM is an important consideration with Chagall as it does not support virtual RAM like Retouche does; in other words, it cannot swap chunks of data between disk and RAM if you run out of available memory.

If you run out of available memory.

This can happen more quickly than
you think because Chagall – in common
with other software of this type – effectively keeps two versions of each image
in memory: The one you see on the
screen, and that in the Undo buffer.

screer, date into mis evous ouner. Every time you carry out a modification of your image, you can either confirm the change by pressing the version will be copied to the Undo buffer, or you can choose to leave the Undo buffer unchanged in case you decide later to go back to an earlier version. You can even toggle between the two, to chack the effect of an operation and decide if you want to keep what you have just done.

Then there are the masks, which are halftone images and will take a corresponding amount of memory too. Masks are essential for most work because they enable you to restrict effects to certain area of the picture.

To apply the sharpening filter only to the foreground, for example, you will cover the background with a mask. To change the texture of a particular object, you can apply a mask to the range of colours contained in that object, invert the mask so that everything else is masked, and apply any of the painling tools.

Using halftone images as masks is a very clever feature indeed – with the



usual binary (mono) masks a particular pixel is either masked or not, but here you have 256 graduations between on or off and therefore "graduated masks" to avoid sharp edges and other unnatural effects. Masks can be edited like any other pictures, and you can even have "masks within masks".

As usual, a review can only scrape the surface of the enormous power and versatility of such a program. Chagall would be somewhat under-employed if it was only used to fiddle about with brightness and contrast controls and cutting out beckgrounds.

Photomontage is an art form in its own right, a favourite device of magazine illustrators and book designers, and this type of software is so much easier and cleaner to use than the traditional manual cultand-paste appropria

There will be additional modules for Chagall to further expand its capabilities, among them a text mode which, presumably, will take advantage of Atari's new Speedo scalable GDOS font standard. For further information on this, contact the UK distributors.

#### TRI-LINGUAL

As you can see from the screenshots, the version reviewed here is the German one. There is an option in the configuration menu to switch between English, German and French messages but it was not implemented in the review copy.

CGS assure me that the English werston, complete with documentation, will be available by the time you read on this. The German manual is very well structured and includes a well-illustrated at intorial, but I felt that sometimes the explanations given were rather on the superficial side and that a novice to this type of work would face a rather steep learning curve.

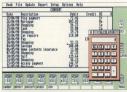
Chagall is copy-protected, asking for the master copy to be inserted when launched from the hard disk, but upon registration you will be issued with a new version that will only do this very occasionally, according to the handbook – it hasn't happened to me at all so for.

#### **BOTTOM LINE**

FEATURES
Idea Bay Sections at Section was severally.

EASE OF USE
Sundard COM Interface makes it easy but situs at Section 1. Sectio

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PFM - a long-standing favourite

With an ST and one of half a dozen home accounts packages, you can really keep your spending under control. **Andrew Wright looks** 

at the benefits

ink. Consider the manual methods of tracking your spending. This requires some paper for notes and a probably a calculator to make sure you get the balance right. You'll need to jot down all transactions, add them all together to get your total expenditure for the period in question and subtract the total from the starting balance.

Make a mistake and you'll probably have to start all over again. With a home accounts program, you enter all the transactions once and let the computer decide what to do with them.

Of course, your computer keeps a permanent record of the transactions which you can refer back to quickly and easily many months later.

For example, ordinary bank statements show only cheave numbers and amounts, not the payee, so if you need to check how many cheques you wrote to a particular company or shop, you simply search through the transaction database specifying the name of the payee. Most of the better programs have such basic search facilities. Perhaps more important is the fact that

# Money matters

ney management is one of the most popular uses for a home computer like the ST. With a good, solid home accounts package, you can keep track of everything from your bank, savings and credit card accounts to stocks and shares, equities and loans.

Just computerising your accounts might not stop you squandering your hard-earned cash and going overdrawn occasionally but if you use a reliable program properly, setting up monthly budgets and standing orders to pay your bills, you'll have a better than average chance of staying ahead in the long term.

The biggest obstacle is undoubtedly taking the first step - home accounts aren't the most glamorous of ST applications and there are probably half a dozen things more interesting to do, even on a wet Sunday afternoon, than type in the information from your cheque book stubs.

However, the newest versions of the ST's most popular programs make light work of what was once a heavyweight chore. Entering details of income and spending couldn't be simpler, and with the prospect of full colour charts and customised reports to tempt you along, the end result is well worth working towards

Once you've done the hardest part setting up your accounts, organising a budget and entering regular payments like standing orders - it only requires a few minutes maintenance every day or two to keep the program's information up to date

The key thing about home accounts software is that it is just that - accounts for the home. If you're not VAT registered, you don't have a clue about double entry book-keeping and you've never used a spreadsheet in your life, you've absolutely nothing to fear. Most programs use easy to understand terms that are far removed from accountants jargon and the interfaces are designed to resemble your bank statement as closely as possible with line by line transaction reporting and a running balance at the end of the line

There is far more to most of them than that, however, Most include options for printed output, charting of budgets. balance and expenditure, automatic balancing when statements arrive, password protection and recurring transactions such as monthly loan and bill payments.

So what are the advantages of having computerised accounts at your fingertips? By and large the full range of benefits depends on which program you choose though all of them will save a certain amount of time, paper and

Desk File Update Report Setup Options Help crigtion ment - brachure 841ance 241.63 191.63 62.59 39.59 11.59 -271.59 -271.59 -388.59 934.49 9312.20 872.20 782.44 593.44 593.44 453.44 451.44 4671.44 √ Cash Morrisons Shaes etc √ Bas pagment √ Electric pagment √ Loan repagment 7 Rail to London Pagment for booklet Mational Insurance Cash 1242.99 22,28 48,88 89,76 89,88 188,88 52,88 37,88 Water rates Article payment

Here's an example of the difference between cleared and uncleared balances. A visit to the bank would reveal a balance of £156.37 but the real balance - in other words the amount you have to spend - is nearly £700 because several transactions have yet to clear. They are somewhere in the system being processed

you can tag transactions as cleared or uncleared. A transaction is only cleared when it appears on your bank statement but this can take some time

For instance, normal cheques take three working days to clear but with amounts over £1,500, it can take as long as seven working days

This means there are two balances for every account - the actual balance on your statement and the uncleared balance that includes all the cheques and other transactions that haven't cleared

Your bank will only ever be able to provide the first but the second is the most reliable guide to how much money you really have available to spend.

Having computerised records means it is a lot quicker and easier to crosscheck your bank statements for errors too. Banks can make cock-ups like anyone else but unless you spot them, you'll probably never know

It's always a good idea to check statements for phantom withdrawals or even fraudulent ones - perhaps some one else has gained access to your PIN number without you knowing?

The real value of home accounting is to enable you to look ahead. To help you, home accounts packages track regular payments and add them automatically.

Keeping accurate records is vital if you want to know how much spare cash you'll have the following month. You won't know exactly what you'll spend in advance but as the regular payments are fixed, you'll be able to

### How to follow your finances

Home accounts programs work in broadly similar ways. The first stage is to set up the accounts you want to work with. In the following examples, we're using PFM Plus



Firstly you can set up accounts to match your actual bank and building society accounts - perhaps a current account, a savings account or two and a budget account if you have one. You can also set up accounts to represent credit cards which might appear to be completely different to bank accounts but in fact they act in much the The second type of account you can

set up is what could be termed a ghost

account, that is an account that doesn't

actually exist but one in which you might want to record a certain type of transaction. For example, you could set up one or more accounts to track part-time

While the cheques will probably be physically paid into your bank account. treating them as if they were paid into a separate income account makes it easier to add up your income over the year for tax purposes. You can also set up expense accounts in the same way.

The next stage is to set up budget categories. Budget categories are the means by which you can break down your spending to see just where the money has gone. It is a good, intuitive system that reflects the way we subconsciously think of our finances - so much for food, so much for heating and lighting, so much for travel and so on.

Every time you enter a transaction, you decide which budget category it comes under, whether it is a debit or a credit. The more precisely you allocate budget categories, the more information you will end up with at the end of the month. For example, if you set up half a dozen categories such as Car, House, Food, Cash, Mortgage and Miscellaneous, you'll have no trouble in deciding into which category to put your expenditure but it's likely that most will go in the Miscellaneous category which tells you nothing.

It is far better to create 20 or more categories. That way each one will be that much more precise and if you start to see a pattern emerging, it is more likely to be a real one



Gredit | Milita Single payment Start data & SCHEPST Second by Minerals A 15199799 0 Quarterly W Hooking Subset rade & to

Standing orders and direct debits are next. These are recurring transactions, either debits or credits, which generally occur on or about the same day each month but a good accounts program will allow you complete flexibility and let you specify not only monthly and weekly payments

but quarterly, four weekly and so on. It would be extremely laborious to have to remember such payments which is why the program often does it all for you, simply adding the transaction on the required day.

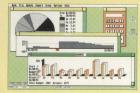
Of course, you could try and keep a paper list of your regular payments but with quite a number of them only running for ten months at a time (water rates and poll tax being good examples) it can get quite complicate.

Individual transactions are the real meat of a home accounts program - they include a reference number, usually the cheque number, the date incurred, details of the pavee, the amount, the budget code applicable and information as to whether or not the item has been cleared.

If you get into the habit of entering transactions more or less as they occur. your accounts will always be bang up to date. It can be tiresome, of course, but newer packages have a number of features to help.

PFM Plus lets you set the entry defaults so that the transaction input dialogue can automatically add the last new date, increment the reference number by one and automatically edit dunlicated entries in other accounts when the original is modified. Home Accounts 2 has similar user-friendly features



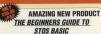


With all the data in the system. you can start producing reports on your expenditure. In many programs the reports are graphically oriented like the example shown. The ple chart shows the overall budget broken down into its constituent parts - the two biggest single expenditures are Ca and Fo, cash and food.

Information of this nature is useful when planning for the future or deciding where you can cut back. The chart in the centre shows the level of the balance over the month, complete with a temporary overdraft halfway through.

The lower chart shows how well actual spending has matched the amounts allowed for in the budget. Note we've overspent on food and insurance and underspent quite significantly on the Hy category. This is in fact a savings item - Hy stands for holiday - and the fact that we haven't achieved our savings target is useful to know. Perhaps we can do better next month and get back on track!

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think ahead that much more easily. With an idea of what you spent in each budget category over the preceding months, you can often estimate your next month's expenditure quite accurately. The longer you keep accounts, of course, the more accurate predictions are likely to be.

For example if your budget shows you spent between £30 and £40 on online comms charges in each of the last 11 months, there's a good chance that you can bank on say £35 when planning next month's budget.

There are a number of programs available on the ST, priced to suit every pocket. The two most widely used are Digita's Home Accounts and Microdeal's Personal Finance Manager, PFM. Both packages are also available in upgraded forms with integrated graphics and a much wider range of features

#### Home Accounts

Digita's Home Accounts 2 has an icon based user interface with excellent charting facilities and allows customised reports to be sent to virtually any printer

It comes with a 200-page manual and single disk containing the main program, demo files and a program to convert files from the original version to Home Accounts 2 format

Home Accounts 2 works with all STs. including the STE and TT, but 1Mb is recommended to avoid running out of memory. A single file can hold details of all your accounts, the number of

# eatures comparison

Product				
Price	£29.95			
Contact	HiSoft (0525 718181)	HiSoft (0525 718181)		
Minimum RAM				
Falcon compatible				
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Manual provided	Y			
Online help				
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Recurring payments				
Frequency				
Auto reconciliation				
Budget tracking				
Printed reports				
Charts & graphs				
Customisable P/driver				

which is limited only by available memory (30 or so on a 1Mb machine).

Apart from desktop icons for each account there are icons for the printer. dustbin, help screen and calculator plus buttons on the desktop along the bottom of the screen for adding and amending information

Home Accounts 2 can display up to seven windows and each one can be resized and repositioned in the normal manner. In addition, the windows remember their positions so that even when closed, they open up in the same place on the next occasion.

Adding an account couldn't really be easier. With a new account created. the types of transaction need to be defined, as in the basic version. Adding transactions is friendly and fast, using a pop-up form as in PFM Plus. There are also some useful form editing commands and the default entries in each field can be defined beforehand.

#### PFM Plus

Michtron's PFM Plus is an update of the PFM package with an array of new and improved features. PFM Plus supports up to ten different accounts each with its own entries and standing orders.

Money can also be transferred between accounts automatically and one particularly useful feature is the ability to change the order of the fields for each transaction in the window. For instance, many users would want to see transactions in the order date-typedescription-amount-balance but others might want the reference number first (the cheque number perhaps).

It also displays both cleared and uncleared balances, a feature which makes it the better choice when up against Digita's offering.

The GEM interface is easy to use although all the icons are the same for each account and it is less aesthetically pleasing than Home Accounts 2. It also has a good deal less direct printer support, although the manual does explain how to define other printer configuration files

The graphic clock is a useful feature and the built-in calculator is very easy to use. The graph and chart facilities are very good indeed and extremely useful for seeing at a glance just what state your finances are in.

Desk File Update Report Setup Options Help CURRENT me contents insurance EC CE EN EN 4360 1 2 3 

PFM Plus is another excellent home accounts program

#### largon husters

Jaiguii	Dustels
accounting	recording the movement
	of money from one place
bank statement	a list of all transactions
	over a given period, usually a month
credit	money paid into an
debit	money removed from an
	account
direct debit	a regular payment of a variable amount paid
	from your bank account
double entry book-keeping.	a complicated method of tracking payments and
	receipts used by
	professionals such as
expense	
income	money you've gained
invoice	request for payment for services or goods
spreadsheet	a program that resem-
	bles a large table full of numbers, many of which
. 10 1	are inter-related
standing order	.a regular payments of a fixed amount paid from
	your bank account
transaction	.a transaction can be any money movement into or
	out of any of your
	accounts

ew programs are as capable of generating controversy among ST owners as Protext, Arnor's well-known and well-established wordprocessor. You either love it or hate it. It is difficult to argue with success, though and Protext has found a large band of followers not only on Atari computers, but also on PC compatibles. Amstrad PCWs, Amigas and even the Acorn Archimedes.

If that wasn't enough, Amstrad have built Protext into their popular NC100/200 range of portables – and Amstrad are very big business indeed.

Protext's ubiquity is also the source of most of the controversy surrounding it. A program developed for so many different operating systems simultaneously cannot possibly take full advantage of each of them: something just has to give in the interests of cross-platform portability

In the case of the Protext/ST relationship, it is the GEM graphical user interface. ST owners have come to expect their applications to conform to certain visual and functional standards including pretty on-screen fonts and graphics, resizeable windows and so on.

Protext has none of these, and although recent versions have sported menus and file selectors, it remains to a large extent command-line driven and character rather than graphics-based.

It will always grab the whole screen and the system font is all you get. No pictures, no icons - pretty unexciting to the eye really.

On the other hand, though, it leaves all its competitors standing when it comes to speed and power. Protext whizzes through megabytes of text before you can blink, is almost infinitely flexible and programmable, and supports just about every printer that could ever be hooked up to a computer.

Many professional writers and journalists swear by it and wouldn't touch anything else, not even the heavyweights of the PC and Mac scene like Word Perfect or Microsoft Word.

For all these reasons, a major new version of Protext is bound to attract attention. Has it finally succumbed to the



position the picture but not to view it. It would have been handy to have access to the GEM file selector at this point, but although Protext supports it for general file operations, this and other dialogues will confront you with its own home-brew version



The Document Settings dialogue is a great step forward over previous versions as it simplifies control over all the basic aspects of a job. and is saved with the current document

# Picture

charms of a WIMP (windows, icons, mouse pointer) environment or does it remain true to its macho speed and power philosophy?

The newly-released version six leaves no doubt on that score: this is Protext as we have always known it - if anything it's even faster at handling long text files - but with many significant improvements.

The most striking innovation is its new ability to import graphics into documents. Provided they are in one of the popular file formats supported - IMG, PCX, GIF and IFF - pictures can be in any resolution, placed anywhere on a page and freely scaled up or down. There is only one drawback: you cannot see them onscreen, or edit (except invert) them, nor

can you flow text around a picture. All you get is a stored printer command line specifying the image file name and position on the page. The graphics support is therefore about as rudimentary as it could be and will fail to impress most of Protext's critics, but it is nevertheless a welcome step in the right direction and will be extremely useful for including logos and letterheads in business documents. Desktop publishing it certainly ain't.

If the foray into graphics import and printing is somewhat hesitant and unconvincing, the new features in other areas take Protext a significant step ahead. Document handling and page layout has much improved as you can now enter absolute values in centimetres and inches for page size, margins, tabs and other crucial measurements rather than use column and line counts relative to the font used.

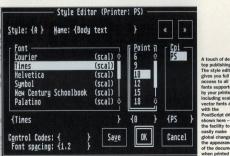
#### SIMPLER CONTROL

These settings, plus basic formatting options, headers/footers and default styles, can be saved with the current document and copied to other documents. This is much simpler than the old method of achieving the same effect through different configuration and template files

The mention of "default styles" will have alerted experienced Protext users to another significant innovation. Up to now, font changes and font attributes such as bold, italics and underline were all set by printer control codes

The new styles are essentially macros containing font names, sizes and spacing information. Instead of the cumbersome procedures required by previous versions of Protext, it is now possible to assign a style to a particular paragraph by simply highlighting it using the mouse and pressing F7 plus the style letter.

A new style code will then be inserted at the beginning of the defined text block, and another restoring the previous style at the end of it. The familiar printer control codes are still there, of course,



A touch of desktop publishing... The style editor gives you full access to all fonts supported by your printer including scalable vector fonts as with the PostScript driver shown here - and the facility to easily make global changes to the appearance of the document



The new, interactive on-line Help function goes a long way towards meeting the objection that Protext is less user-friendly than fully GEMed competitors. Even experienced users will sometimes require help as there are just too many features to memorise



Macros can automate repetitive and complicated procedures, and Protext's macro record mode is a powerful productivity aid. But sometimes you just want to slightly modify an existing macro and this is made much easier by the new macro editor

#### Ascii formats, including fully reformattable Ascii (no line breaks, only paragraphs) for easy export to DTP page-layout software.

Version 6 will not convince the partisans of graphics-based "document processing" to switch from something like Calliarapher or That's Write to Protext.

But it will confirm to existing users, and those with similar requirements surveying the market for a suitable wordprocessor. that it remains streets ahead of the competition in terms of sheer power and flexibility.

My only serious grumbles about the new version - apart from the inability to easily install new PostScript fonts already mentioned above - is the unchanged and rather awkward handling of footnotes.

I would prefer to see footnotes in a separate, split-screen window rather than inserted on separate lines in the main text. Also, the loss of the convenient ring binder manual for two bound paperbacks that cannot be left open beside the keyboard is a retrograde step.

Existing users of previous versions can upgrade by phoning Arnor and quoting eir registration and credit card numbers. The current introductory upgrade prices are £35.25 from v5.5. £47 from v5.0. and £58.75 from v4.3 but this may change so ring for an up-to-date quote,

# Protext

The latest version of old word-crunching workhorse Protext has acquired the ability to import graphics, and many other extras. Günter Minnerup reports

and can either be incorporated into the style definitions or used in addition to

Since Protext still does not display anything other than the system screen font, the styles are, of course, entirely related to printing and need to be defined specifically for each printer driver used

Once again, this falls somewhat short of full wysiwyg (what you see is what you get) but enables Protext to make the most of the built-in features of any particular printer (including its proprietary fonts) and to achieve maximum output Owners of Atari lasers will again be

disappointed that there is such limited support for it - apparently this is due to Atari refusing Arnor the loan of a printer to learn how to program it directly - but if you are fed up with the Epson and Diablo emulators you can always take advantage of another new feature of Protext 6: The PostScript printer driver. In combination with PostScript emula-

tors such as UltraScript or CompoScript, this gives you excellent print quality and access to the standard range of 35 Adobe printer fonts.

In its present incarnation, the Protext PostScript driver is limited to these fonts and does not allow the installation of additional or alternative ones in your possession, but you can always load the output file back into Protext and replace the font names (provided the character spacings are similar). There are too many new features to

mention here (see right), but those which are designed to make Protext easier to use should be given a special mention. Headers and footers can now be edited interactively through a dialogue, as can macros and user dictionaries. Help, too, is now reasonably interactive, letting you select topics from a menu and refine your search by double-clicking on keywords in bold.

Many more editing and viewing options are now directly accessible via dialogues rather than indirectly through the configuration program

For specialist and professional users, v6 adds a number of very sophisticated features that may be of limited use to the majority but put Protext firmly into the category of heavyweight text editing tools

#### LIGHTNING-FAST

An editable exclusion dictionary now enables the lightning-fast spell checker to flag words which may be spelled correctly but not not in accordance with a house style - ise/ize, for example. Protext can now handle proper typographical single and double quotes, and underlining is sensitive to the font used. Documents can be saved in a variety of



By far the most powerful Atari wordprocessor around

EASE OF USE Less user-friendly than others, but menus and interactive Help give

assistance to the novice. VALUE FOR MONEY You won't find anything comparable in this price

ranne

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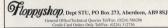
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#### **Changing market**

I have noticed in recent months that many of the smaller ST firms have disappeared into oblivion, often being bought out by larger companies such as HiSoft and Compo.

This sort of thing cannot be good for the Atari market in the long term because it will reduce competition from smaller companies.

The remaining firms will have a monopoly on the market and prices are likely to rise. When your magazine recently ran a feature on the larger companies. I couldn't help but notice that there are only a few of them left.

Nothing seems to be happening in the market any more, and as a devoted ST owner I wouldn't like to see the serious side of the market dry up as the games side has done

Clive Simmons, Oxford

We should all be thankful that the firms remaining in the ST market are expanding their catalogues by talking over the distribution of products that would otherwise disappea

Price rises are unlikely. If anything software and hardware costs less now than at any other time in the ST's history.

A couple of years ago you could not have expected CoverDisks to contain top packages such as Harlekin, Prodata, STOS, Quantum Paint and K-Spread.

#### Incredible Jaquar

Atari have produced another piece of incredible hardware that is a long way ahead of the competition. The laquar should leave the opposition standing, providing Atari can get their act together.

Their performance with the Falcon has been typical of the company's attitude towards marketing. They made an impressive piece of kit and then sat back and expected it to sell itself. That's just not the way to go about things, as ST owners have been saying for a long time.

Now Atari seem content to let the Falcon just fade away, concentrating all their efforts on producing as many Jaquars as they can in time for its release.

If they can keep to their word and design an advertising campaign as incredible as the machine, I'm sure the Jaguar will bring Atari back into the public eye as a fine hardware developer

If they let it die in the same way as the Lynx and Falcon did, then I think we may have seen the last of Atari as a major force in computer design.

Mr T Stenworth, Birmingham

Jaquar is indeed impressive and a long way ahead of other games systems, either on sale Got anything to say to the ST community? Then this is your soapbox

or known to be in the final stages of development.

Atari say they have got around \$35 million in cash to promote the machine in the States this autumn. Once it becomes a success the firm promise to put more money into Falcon.

#### Repeating C

I have just received October's issue of your magazine and while I was reading the C programming article on page 63 a sense of déià vu came over me.

To try and understand why I was having this feeling I looked back at the articles in past magazines and there I found the answer

The article is exactly the same as the one in the August issue - even the files in the disk have been duplicated.

While I am writing, I wish you luck in the future and hope you get the increased sales of your magazine which you deserve. Keep up the good work - not counting the mistake ahove Ian Noble Banffshire

We still haven't been able to establish how the repetition happened. The correct Part 7 appeared last month.

#### Porn policy

I have subscribed to Atari ST User for more than three years and apart from the odd CoverDisk problem I have, and still do, enjoy your magazine.

Now for my moan. You published a letter complaining about your double standards -New Age PDL from A Beveridge, Edinburgh.

You replied, and I quote: "Atari ST User has a policy of not accepting advertisements which promote material such as that carried by New Age PDL last month, "It is very unfortunate that

this one slipped through the net on the very month that our article appeared."

What a load of rubbish! Not only have you included the New Age PDL advert in October's magazine, but also doubled its size.

May I suggest that you buy a new net with a smaller mesh for the editor? It is obvious that this ad has once again slipped through his current one

If Atari ST User needs the cash and must carry the advert, then this should be modified to drop the section which carries the offending

I look forward to hearing your answer to this. I have no doubt that many other readers

have written in about this subject. I Matthews, Lincolnshire

The New Age PDL advert has increased in size because the library has been getting a high level of orders from Atari ST User's readers.

But our staff first checked the disks to ensure offensive material was removed - namely the sets called Fantasy and Wet Dreams.

We found the remaining titles contained either images from popular films or of partly clothed men and women. The disks promoted in the advert contain nothing worse than the type of picture young children can expect to see in most tabloid newspapers every day.

I believe our advertising restrictions are real-

istic and among the most sensible in the computer magazine industry.

#### Waiting to hear from you...

To join the ST chat show drop a line to The Editor, Write Now, Atari ST User, Europa House, Adlington Park, Macclesfield SK10 4NP

### Can Gamer handle the action?

ing readers.

I have read that ST Action is to be incorporated into Atari ST User in the months to come I'm rather miffed to say the least. As a loyal

reader, I don't want to see the high quality prose of Gamer staff being replaced by the sort of shoddy reviews featured in ST Action.

When a magazine has such a winning formula, why dilute it in a desperate attempt to draw a few extra readers?

I am quite frankly shocked that a magazine such as yours should even contemplate this move.

Philip Edwards, Sussex

Letter

Fear not, the incorporation of ST Action inside this magazine will not mean a lower quality games section - in fact we hope to deliver exactly what you, the reader, wants.

We have spent many hours looking at the content of both magazines to come up with what we consider to be the best format for a games section. It will be written by the team you are familiar with - and in a

similar style - but also include the popular ST Action features. The move is by no means a desperate attempt to pick up a few readers. Several thousand games players regularly bought ST Action and their orders would help this magazine to give even more to our exist-

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you're a beginner or simply dabbling with music, you don't want to spend £500 on a sequencer, so it's nice to know that there are a few budget programs around. Sweet Sixteen is the latest

It comes from Sweden and is based, says the blurb, "on tried and trusted 'Creator' principles". To anyone who has seen Emagic's Notator or Creator, Sweet Sixteen's main screen will invoke a sense of déià vu. Hmm.

The program is pattern-based. That is, you can create up to 16 patterns and link them together in a song window. Each pattern has 16 tracks and you could simply use one pattern and record a



Sweet Sixteen's main screen shows the 16 tracks in a pattern. The Song Mode dow shows the patterns linked



You can edit notes by clicking and dragging in the piano roll edit screen Ian Waugh tests an affordable

sequencer especially suited to those who wish to use music rather than spend years writing it!

# wee

piece from beginning to end in traditional linear fashion. The more ambitious can plug in a device such as ModemMidi or Midi+ (around £30 each) to access

another 16 Midi channels The main screen lists the 16 pattern tracks along with several track parameters which will be familiar to Creator users -Mute, Transpose, Loop, Delay, Compress, Velocity, Quantise and Midi Channel These parameters are applied on playback only so you don't lose your original recording (although it's still wise to save often!). You can change them on the fly while the sequencer is running.

It is possible to copy, move, merge and delete patterns by clicking and dragging as in Creator. You can copy patterns and parts of tracks, too.

The quantise function has basic note length settings but you can also set humanise and swing percentage settings. The usefulness of this should not be underestimated if you want to improve the timing of a piece without making it robotic.

There are several interesting edit functions such as Keep and Delete (similar to those functions in Creator), Push (to introduce a positive or negative delay) and there's also a Transform function, albeit somewhat less comprehensive than Creator's, which you can use to globally and selectively alter velocity, pitch, controller data, Midi channels and all sorts of things.

Remap lets you convert one type of data to another - turn modulation data into volume or pan data, for example. There are functions to shorten notes to prevent

1111

You can edit notes and other Midi data in the event list with great precision

# ixtee

Settings

window

default

program

functions

houses a

collection of

settings, edit

options and



them overlapping, to insert missing Note Offs, to merge all tracks in a pattern and to split a track containing data on several Midi channels into separate tracks. In all, rather a nice collection of edit goodies.

There are two editors to let you get closer to your Midi data - and event list and a piano roll editor. The event list looks like a cut down version of Creator's. It has filters so you can hide data you don't want to see (such as Note Offs) and you can insert data here, too (remember to unfilter the data you are inserting!).

#### SNAP FUNCTION

The piano roll editor shows notes as bars on a grid running vertically down the screen. You can edit them by clicking and dragging and a snap function makes sure they fall onto certain divisions of the beat.

There's also a Tempo track which looks similar to the event list where you can edit and make tempo changes.

In the song window up to 32 patterns can be linked. You can set each pattern length, give it a transpose value (even specifying Midi channels which will not be transposed to preserve drum tracks) and use patterns which start on the upbeat by setting a pre start value.

Sweet Sixteen's filing system supports complete songs, patterns, tracks and Standard Midi Files.

The only major niggle concerns the manual which is a good example of how not to do it. It has a mere 12 pages, no illustrations and is poorly laid out. In spite of the inclusion of a New Features flyer, some functions still aren't fully explained. The UK distributor really ought to rewrite the

But manual apart, Sweet Sixteen is well specified for the price and well worth your consideration if you're looking at the budget end of the sequencer market.

# BOTTOM



VALUE FOR MONEY Good VFM at the budget end of the market



0705 221162 £51.45 ST/STE, TT, Falcon

all know when we come to stop and think about it, that software is he essential "other half" of our cherished, personalised hardware setups.

It makes no difference whether vi own a basic, sub-£200 and ageing STM which has faithfully looked after your home accounts, the odd letter to the powers that be and kept you amused on darker nights with a reasonable simulation of Brand's Hatch; or you have a £900 Mega STE on which you publish your company's newsletter in your spare time for some much needed extra cash.

Indeed as the Atari saga continues, there is currently a growing tribe of musicians worldwide who've shelled out less than £1,000 for a new Falcon, and who are marvelling at their new-found ability to record their music direct to hard disk. with no tape involved, and all the creative possibilities for editing and altering that this entails.

In short, it matters not whether you've got the Lada or the Rolls Royce on the nuts and bolts side; if you've no decent software, you might as well abandon the race, whatever your particular race may

Software, taking the broader picture, is a concept which many people find hard to fully assimilate. You buy a monitor, and you can carry it, feel its weight, put some tangible value on it which equates, one would hope, with what you paid for it

But with software, you are afforded no such luxury. Although the software companies, aware of this problem, have packaged their products in increasingly large, eco-worrying boxes, and have added manuals to rival novels with what appear to be the most simple of products, at the end of the day you find yourself shelling out upwards of £30 to get anything worth having - and whatever it is, it generally consists of simply a couple of 3.5in, blue plastic disks.

The software piracy "ethic" is only further exasperated by this dilemma. Plus it's so simple to pirate software that people find it hard to feel that it's wrong.

But overall, it's the lack of a traditional product that can physically justify its own value which leads to people's fundamental inability to completely grasp the idea of software, and which regularly prompts one of the most familiar questions any of



one of Ocean's musicians even sleeps there som times! Note the bedding under bie

# THE GAME

us in the computer industry ever hear: Why is software so expensive?

Of course, if we stop and think about it, we come up with answers like "oh it's the development costs" or - as some of our more paranoid/conspiratorial acquaintances will express - "it's moneygrabbing software houses". But by and large we tend to know little about how a product reaches the shelves, who's involved, or simply the amount of work that has to go in.

#### FORWARD-LOOKING

Gone are the days when a whizz-kid in a suburban bedroom was responsible for the game in your floppy drive. Nowadays the industry has got organised, and increasingly forward-looking and expanding young companies are at the forefront of the software revolution.

In a canal-side, regenerating area of inner city Manchester, at a place known as Castlefield, there lies a building which impresses one with its stature while managing to exude an air of enlightened, modern business. This is partly due to its location in a trendy, northern

Docklands-style development, and partly due to its incredibly wood, metal and alass interior architecture, which at times makes it feel like a barn in which hi-tech. subversive plots are being planned.

This is the home for a year of games house Ocean Software, a great northern success story of a company, and a good example of new ideas, locations and products coming from a firm who simply could not have existed a mere 15 years

However, ten years ago - back in the days when the Sinclair Spectrum proudly ruled the roost and the Commodore 64 was making inroads into the UK -Ocean were setting up in a slightly less salubrious part of town, sowing, like so many other similar firms, the seeds of the success they enjoy today

I visited them one Friday afternoon recently with the sole aim of discovering how a game gets from the designer's drawing board to your ST's floppy drive.

Right at the start of the chain is the software director. This man decides which game ideas will be carried through, and which won't. He is a filter of ideas, but also an instigator and stimu-

## The world is watching

In such a high-profile industry, it pays for a software firm to keep its PR (public relations) effort up to scratch

In Ocean's case, they've employed the talents of Stephen Hay, a recent PR graduate who has only been at the firm for a couple of months

Full of fresh ideas, Stephen enthused as to the role of public relations and marketing in a software house such as Ocean, telling me about the value of alternative marketing (adverts in golfing magazines when Ocean bring out a golfing game, for instance) and some of the other different strategies that must be adopted to market widely varying products successfully

It is at this level that the question of how the public will perceive the product must be addressed, and so where my observation earlier that the public have a strange concept of software needs some attention.

Not surprisingly, ideas like the bundling of comic novels written by reputable comic artists with relevant games are in the pipeline. As Stephen says: "We try to do something different."

As a PR executive, Stephen's role in a game begins with answering press questions people such as our very own ST Action and Gamer staff, who often get rumours of what's being worked on long before the official press release, and are naturally eager to tell their readers all.

Stephen is also charged with the setting up and successful execution of launch parties, and the distribution of press releases - all geared to the size of the product being launched

It's all very necessary stuff - after all, the best game in the world is no good to anyone unless the potential purchasers are not only aware of it, but persuaded to go and buy a copy.





Are software houses still based in suburban hedrooms? How much work actually went into the creation of that last £30 program vou bought? Phil Morse visits top games house Ocean Software and finds out

lator of them. His brief: Get new concepts that will work!

Ideas for games nearly all come from in-house suggestions and brain-storming sessions. Very few come from outside contributions. All the unsolicited game ideas that arrive at Ocean through the post, however, do get looked at by software director Gary Bracey and his department, and some of them get

In-house suggestions can come from anyone, even the games testers (who. when you come to think of it, know more about the nuances of gameplay and what will really grip the public better than most).

#### BRAIN STORMING

But the usual way of coming up with ideas for games, whether given (as in the recent Jurassic Park licence which Ocean are currently in the late stages of work on) or invented from scratch, are "brainstorming sessions<sup>a</sup>

These are simply all-sit-around-thetable-and-develop-each-others'-ideas kind of affairs, and when successful, they end with a brief for a game which everyone is fully familiar with and able to act upon

Once Gary has given his all-clear, a game is free to move into production...

When you think about it, you can break a game down into what it looks like, what it sounds like, and how things move. Hopefully the reason for playing the game has been thrashed out in the brain-storming and development stages, and a solid basis of gameplay now needs meat adding to its skeletal bits

The "what it sounds like" section is taken care of by one of Ocean's resident musicians. I spoke to 22-year-old Dean Evans, whose brief is to come up with all the music and sound effects for whatever project he's working on

Dean's starting point is a pile of rough ideas and suggestions from the programmers and artists involved in the game's production. He tries to ascertain the feel of the game - a medieval role-player will require a different set of music and sound effects from a space shoot-em-up. for instance.

Dean is quick to point out that his job is not about making the catchiest tunes he can: "I attempt to create the best atmosphere for a particular game," he states. "That isn't necessarily the catchiest tune, but something which complements the game itself."

He's keen to get feedback to his efforts from the others involved, purely in order to fulfil this brief to the max

Working in a small room overlooking decaying factories and a canal, Dean's workplace is a sufficiently sombre setting for some serious creativity to go on. And he's got the equipment to help him, too, with a brace of expensive synthesizer/sampler keyboards and some sophisticated music editing hard-



Ocean's

ware and software.

Not surprisingly, Dean has a background in computer music ("I've been interested in computer music since the Commodore 64") and, being one of that increasing number of musicians who have not bound themselves to the comfortable constraints of the threeminute pop song, is interested in doing film scores at some point.

He's certainly enthusiastic: On spotting a guilt and pillow tucked under his desk, I was informed that yes, he has slept the night there on occasions!

Generally assembling tunes by porting samples straight across onto the host machines and "reassembling" them into music thereafter, Dean recounts the nightmare scenario of the ST's sound chip: "Because of memory limits, it's impractical to have too many sampled sounds on the ST, so it's just a few for the effects, maybe, and back to the internal sound chip for the tune.

Which, judging by the disparaging remarks issued thereafter about the quality of said sound chip, explains the perennial mystery – why the ST sound is, erm, of less than CD quality...

As the music is being developed, so the visual side is being taken care of.



A title from the Hit Squad label

## The Hit Squad

Lee Cowley is the 25-year-old technical co-ordinator of Ocean's Hit Sauad. Not a crack army unit, but a licensing agency for older games, the Hit Squad specialise in releasing top quality, commercial products in the sub-£10 price bracket

Here's how it works. When a game has passed its sell-by date and is left, quite literally. on the shelf, Lee identifies the product, and tries to get a licence from the company concerned to put the game out on the Hit Sauad budget label.

His iob is a rather satisfying one, as he gets to choose which games to go for, as well testing them. He's an amalgam of all of the people involved in the production of a game from scratch, but with previously completed products, and his job even includes writing the blurb for the backs of the boxes

This is where the ST really shows its face. Not being the voungest of machines, there are plenty of games lining up to be released on budget for it. Budgets are best thought of as paperback releases of hardback books – the auglity is the same, it's just come a little later



Powermonger, Pushover, Risky Woods and Cool World all released or in the pipeline, you know you won't be getting anything less than a £25 game for your sub-£10 shell-out!

And as stuff on CD begins to filter through (the CD format is a godsend for software houses - no piracyl Craia says things are getting interesting again. It's the job kids across the country dream about, and Craig's not going to let go of it in too much of a hurry!

So we've followed the game from original seed to tested and finished product. It is manufactured and packaged and sent out from here to all relevant shops and other stockists, and barring an obligatory word for the administration teams and their mountains of paperwork which keeps the wheels turning - we've seen most of

As you will have noticed, almost everything is done in-house - from graphics to music to art to all the boring bits, there's very little on which the firm have to make use of outside help.

An interesting point that came to light during my afternoon of investigation was that software houses gear their operations largely around the Christmas period. Of their 40 or so products released each year, 20 or 30 are released around Christmas, so you can see the cyclical nature of the business.

I started this article by arguing that people find it hard to accept any concept of how much that little blue disk they're holding is worth.

Hopefully, having alanced at the myriad of people involved in the production of a piece of software, and the kind of time-scale we're talking about, I've cast some light upon the costs involved in producing anything from an inconspicuous shoot-'em-up to the latest highprofile film licence.

One thing is sure - with better products, new and skilled jobs and proper organisation, the computer games and software industry has grown up quite a bit since those first tentative classified ads for ZX81 Chess appeared in specialist magazines back in the early

Artists will design artwork on paper, drawing such things as helicopters, missiles and the more pastoral, scenic trees and hills, valleys and mountains and other assorted paraphernalia for you to fly your missions and rescue your heroines over under and through

Drafted artwork is passed to the animators, who turn static images into smoothly moving on-screen sprites. An average of three will work on any one game, and between them they'll handle all the movement from start to finish

Dawn Drake is a 28-year-old animator who describes herself as a "socialite" but exudes a general enthusiasm for life high enough to suggest that she extracts satisfaction from work as well as from the north-west's mind-numbingly excellent nightlife.

She's also one of the few females working in the creative side of the setup. Carefully crafting a helicopter hovering around in a circle when I disturbed her, she explained to me how pictures get from drawing to screen:

"We usually scan them in or draw them straight into the computer," she says, "and between us we'll do the characters, outlines and all of the draw-

It's very much like a cartoonist's job, but with lots of hi-tech equipment to hand. And although Dawn confesses that working on the same project for 12 months (she worked on Ocean's Hook licence) can get boring, the finished product is invariably anything but.

Fellow socialite Philip Trelford ("I like clubbing, drinking, parties and have been known to go raving," he proudly confesses) works with the music and graphics teams in the guise of game

A 22-year-old ex-freelance programmer (he's worked for Psygnosis and Microcosm before finding steady employment at Ocean) he wrote his first game at 13!

His job involves all sorts, from assisting with anything technical that needs doing, to working on his own games, to really getting to grips with the nitty-gritty of computer software, such as transferring games onto CD-ROM for the next generation of consoles - as well as creative stuff like designing game levels.

"There's always something going on that's highly stupid in this office," he "So it's always fun. And I do genuinely enjoy my job. There's a good atmosphere, and we can have a bit of a laugh too."

#### SAFETY NET

But if Philip has a laugh, then what of the games testers? When a game is nearing completion, these guys and galsprovide an invaluable safety net. They test every single aspect of every game given to them - they do the right things to win the game, and deliberately do all the pointless things just to see what happens - and it's no lie to say that they must know a game inside out before they OK it.

Craig Etts is a 20-year-old games tester at Ocean. He tells me: "Games are nearly always bugged. Some are in for a week - that's quick. Others can take as long as a year.

Not surprisingly, the other side to the game testing coin is boredom. "You always get to the point where you hate the game!" confesses Craig.

In recent times, though, Craig's job has become more interesting and fulfilling due to the facility for him (and other games testers) to feed their ideas back to the programmers. The testers suggest changes, recommend that levels be made harder or easier, and get their name on the game credits too.

Dawn Drake. animator and dovenne of Manchester's club scene. displays a colleague coercion



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## Word processing - out to impress

Word processing is the most popular application among home computer users and it isn't hard to see why. With only a cheap dot matrix printer, you can write and produce anything from simple letters to complex dissertations, CVs and business reports, and all to an impressive

Letters and other communications produced by a wordprocessor are always taken far more seriously by the reader, a fact that has been proven time and time again.

With a simple word processing program such as Firstword Plus or

Wordwriter you can throw away the pot of Tippex and say goodbye to the spelling mistakes and poor letter spacing.

Your ST will do it all for you, ensuring that the line lengths are all more rour 3 will an a read to you, ensuring that the line engins are all minor or less equal, using a feature called word wrap which automatically moves the cursor to the start of a new line when it reaches a certain point, and even checking your spelling for you!

There are other advantages too – you can retrieve and amend old documents, juggle sentences and paragraphs without having to start all over again, import names and addresses from a special database and

10000 here's far more to life than blasting monitor's full of little multi-coloured blobs or scrolling jerkily through a green and brown computer-generated terrain looking for threatening white triangles

> Dungeon Master kept me up 'til three in the morning on several occasions, I'll admit, but by and large the novelty of most games tends to wear off within a matter of weeks and after a month or two the game is at the back of your

Productivity software has a far longer life – buy even the most basic wordprocessor today and you'll still be using it in a year's time – unless you decide to upgrade to a better

one, of course.

There's also a far wider variety of serious software that promises many more hours of fun than your average

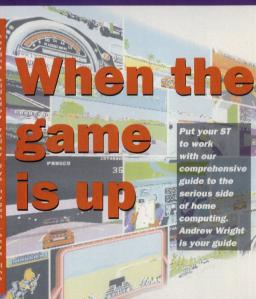
shoot-em-up or solved the last few infuriating clues to that month-long adventure, there are at least a hundred and one other things you can

do with your ST.

You might be a games player looking for something a little more serious or you might have been doing some le, but never considered some

Over the next four pages, we'll show you some of the things you can get up to and show examples of the software in action.

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# Desktop publishing - hot off the press

The natural progression from word processing is desktop publishing. As its name implies, DTP is the art of publishing using a desktop computer like the ST and it involves laying out pages on-screen, using a combina-

into the stranger and graphics.

While this is equally possible using a wordprocessor, DTP programs have far more sophisticated control over things like type and tend to use a wysivyg (What You See Is What You Getl approach to page make-up. In other words, the screen display closely resembles the printed pending allowing objects to be positioned with great occuracy. DTP programs

support text in multiple columns, often "flowing" around graphics and even scanned images. Text can be rotated and stretched too and many pockages are even capable of full colour publishing – you could even produce the pages of this magazzine using top end ST DTP

programs!

The most widely used ST program is Timeworks, now up to v2.01. It is a simple frame-based design program that has thousands of followers worldwide.

Although lacking sophisticated tools like colour handling, it is a good

even insert pictures or diagrams in your documents.

Using a facility called mail merge you can send the same letter to
hundreds of different people but still keep the personal touch by including each individual's name and address.

The wordprocessor that has become the standard on the ST is Firstword Plus. It has a user-friendly GEM interface, built-in spell checker and scores of other features.

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However the quality of its output depends on the quality of the attached printer - it prints using the printer's own internal typedace. Products like Write On and That's Write use their own proportional type-faces that will print on almost any printer. If you really want your documents to have the edge, That's Write is top of the heap.

TE File Block Type Style Layout Extres Options : cv.doc | Pl B1 Page | Line | S.Colone | | | | | | CURRICULUM VITAE To give your Positions held

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# Graphics - roll over Picasso

Graphics are undoubtedly the ST's real forte with custom graphics hardware and the ST's various screen modes on the one hand and some superb software on the other

But what exactly do we mean by graphics? Do we mean drawing colour pictures using a painting program as the canvas and the mouse as the brush? Or do we mean creating detailed technically accurate illustrations for a book?

There are scores of levels in-between. not to mention other aspects like vector and bitmap graphics, raytracing, animation and rendering.

Vector graphics involves building up objects line by line or curve by curve but they can be edited or resized at any time, making them very flexible for illustrations and diagrams.

Bitmap graphics are much simpler, consisting of thousands of dots for pixels) which can be painted or sprayed" on to the screen. Smoother shading is usually possible as colours can be mixed at will, but once drawn it



HiSoft's True Paint - the latest graphics package for the ST/Falcon

is very hard to alter a bitmap other than by rubbing bits out and starting again.

Ray-tracing and rendering are all about adding realism to 3D outline objects using shading generated by the computer

Graphics for fun starts with a program like Prism Paint that can be used to create any picture you like from a semi-naked fantasy warrior to a spaceship from Mars.

Add simple animation features and you can create sequences that appear to move although really the program simply displays screen after screen at high speed.

Programs like DA's Vector can even animate high quality vector graphics, letting the program itself work out how to draw the frames in-between, for even smoother animation.

# Emulation - a Mac-in-the-box?

Most people look at you oddly when you try and tell them about emulation but the fact remains that a good number of STs are often run either as PCs or Macs with the aid of some clever added hardware and even cleverer software.

Adding a hardware emulator lets you use different software and provides greater compatibility with the computers you might use at work.

Most famous of the emulators is the Spectre GCR cartridge from Gadgets By Small. It consists of a small plastic case

# Finance – money makes the world go round

Sounds like an instant turn off, doesn't it? Fortunately money management doesn't have to be boring, as you can see from this month's feature showing you how to get the most from home accounting packages.

The main financial applications, of course, are spreadsheets which are essentially programs to manage large tables full of figures. Individual cells, rows and columns can be related to each other, making it very complicated to use but for financial or mathematical modelling they can't be beaten.

A number of different programs revolve round the basic spreadsheet, from statistical programs used in science and educational establishments to graphing and charting programs for the final presentation of data in a more easily digestible form.

These range from simple programs producing pie charts and line graphs to those with 3D capabilities that can import data from spreadsheets and databases.

Most such programs will print to a range of output devices but others will save the graphs and charts as files that can then be exported for use with DTP programs or wordprocessors.



place to start and it is capable of producing almost any type of document from newsletters, invoices and receipts to menus, membership cards, invitations, tickets, calendars, birthday cards and even your own

Cards, invitations, tickets, catestaars, purmacy cards and even your own headed stationizes phopping list is undoubtelly Calmus SL. With a price tag of over \$2500, you'd expect it to be good and it is. It can be used to produce literally anything, from a full colour advert in a magazine to a simple leafler or poster, and there are professional users dathed around

The country doing just that.

The good news for home users on a limited budget is that the original basic version, Calamus 1.09n, is available at a much more reasonable cost and offers similar quality of output and ease of use.



## Communications - talking to the world

We're always being told we live in the communications age but despite we re always being fold we live in the commindations age but despite the images put about by the medic of relaxed looking workers sitting at home in front of computers linked to the office by telephone line, there's not much substance in it yet.

The truth is that there is no substitute for face to face conversation and

the most a modem, a fax and a telephone can do is ensure you stay ahead of your messages.

If you need to get involved, though, we have the technology, so to

speak. With some comms software and a modem, you can dial up speak. With some comms sortware and a modern, you can did up bulletin boards or conferencing systems and exchange views with other users, upload or download software (including the latest programs from around the world) and access online databases on almost any subject

If you want to know what the weather's like in Timbuctoo, a service like CompuServe will probably be able to tell you. You can send and receive faxes too, using software like Tele Office, which is especially

# Education please sir!

Educational software only just deserves a classification of its own, mainly because the bulk of it is actually games software written at a lower level and based on sound educational principles.

The rest comes under other categories there are basic graphics, wordprocessor and DTP packages that teach children to write and spell, databases to teach information retrieval and various multimedia style programs that entertain while aetting across important facts about subjects as varied as the solar system, Queen Elizabeth I and butterfly behaviour.

While younger primary school children get on better with games based on learning, older ones at the top end of primary school and the lower secondary school are often better off trying to tackle the harder tasks like loading their own programs, drawing with the mouse, typing sentences and stories and perhaps getting to grips with quizzes and similar puzzles. This kind of activity is aimed more at making them familiar with the technology than simply enjoying an amusing pastime with an educational flavour.



This graphic is courtesy of my eight year old and was done with Prism Paint



Spectre - an amazing bit of software

containing genuine Apple Mac ROMs and pluas into the ST's cartridge port with a secondary lead through to the floppy port at the back.

This enables it to read and write Apple Mac disks and while it does have problems with some makes of drive, it works extremely well. It is best in conjunction with a 2Mb plus machine and a hard disk when it really flies along - significantly faster than the Mac Plus it is emulating, thanks to better design and a much faster hard disk operation

To cap it all, the SM124 and SM144 monitors provide a 30 per cent bigger screen than the standard Mac Plus and Classic. Who needs to buy from Apple? With a Spectre and a 2Mb ST or

better, you can work happily in professional DTP programs like PageMaker or Quark Xpress and even swap text and graphics files between the ST and Mac environments

The other side of emulation is the IBM world where Compo's PC Speed reigns supreme. It is available in three versions, one with the old 8088-compatible chip and the others with 8 and 16MHz versions of the 80286

While even the 286 is approaching

the end of the road, it will still run DOS applications with a good turn of speed in most video modes.

If you want to run Windows then forget it, but for DOS programs like databases and wordprocessors, PC Speed is an excellent way of getting real IBM compatibility - at a fraction of the price.

# Programming making it happen

None of us would be anywhere without the programmers who make it all happen. At a basic level, everything the computer knows was programmed into it by someone, including many things we take for granted like the way to format a disk and display an icon on the desktop.

The ST, like most other computers. supports a wide range of programming languages and development environments, from the straightforward Basic interpreter supplied with every ST to complex implementations of C such as



DevPac is a popular development environment now upgraded to v3

#### Music - rock 'n' roll on the ST

Music and Midi are often seen as black arts, best avoided by all but those in on the secret but while it's true that it takes some investment in extra hardware, there's a whole world of sound just waiting to be

At the cheap end there are basic PD programs that will let you arrange various sampled sounds to make up your own music. Some come complete with sampled sounds on the disk so you can get straight to work and try it out. If you want to move on, sampling cartridges like AVR's ST Replay let you record your own sounds such as speech or recorded music and instrumental sounds

The essence of making real music on the ST is the power provided by the built-in Midi interface. Using the interface you can plug in a Midi-compatible keyboard (or even a Midi guitar if you want to) which lets you play, record and replay your own tunes, with one track superimposed on another to make it sound like a band or even a full orchestra. Synths, little boxes that contains hundreds of different sounds

useful in dealing with people abroad.

Most fun of all are the online games that let you enter strange worlds populated not only with monsters and traps but other online warras populated not only with monsters and traps but other online users with their own characters! You need to watch your telephone bills if you get involved in these games so a local BBS will probably be the best bet.

If you simply want to stay up with the news, both CompuServe (an international organisation which can often be dialled up using a local number) and CIX, a dedicted UK online service, can be accessed using special offline reader software such as QUICKCIS.

A File Edit Settings Options Dial BackTALE\* Help 1200 - 14400 - HST/U32 - U32bis/U42bis Comms software ~ SysOp: Ben Van Bokken (Hawkwind) ~

These will log on automatically, check for mail and new file uploads, and log off, without causing your phone bill to go through the roof.

the Prospero and HiSoft versions. C is an object - oriented language which makes it relatively easy to learn, though for the real eggheads there are always other options such as assembler and Pascal

Perhaps most popular of all is the games programming language called STOS. This works very much like an enhanced Basic with a number of commands designed specifically for games players.

As you would expect, there are lots of commands for creating and moving sprites (small pictures that can be treated as complete objects) and different sounds. Several STOS games are included and a lot of ST users have created their own games quickly and easily using STOS. In fact, many of our best CoverDisk games have been written in STOSI

# Databases cold storage

The first computers were developed with two main objectives in mind, namely to perform difficult calculations that humans couldn't manage and to store and retrieve masses of data.

While things have moved on since then, data storage is still one of the main applications of computers. Using the simplest software, home users can store all sorts from Christmas card lists to catalogues of their CD and album collections, lists of club and society members or a complete record of all the fish you've ever caught or train numbers



Superbase - the top end of the ST market

you've spotted. The advantages are two-fold - they can be readily updated as things change and the information can be retrieved quickly and efficiently in several different ways using the specially designed reporting facilities included in database software.

On the ST you've got a choice of powerful, fully programmable relational databases like Superbase Professional down to custom address managers like NameNet.

Superbase Professional can be configured to do almost anything using the immensely powerful programming language DML. It even supports text and graphic files so there's almost no limit at all to the type and amount of information you can store - provided your disk drive has enough room.

NameNet is an immensely powerful address manager with some sophisticated ways of linking data. It is also fast enough to work from a single disk drive and is highly recommended.

Names and other data fields can be linked for easy access so, for instance, when you are looking at the record for Atari, with one click of the button you could get a list Atari dealers, Atari repair services or even Atari software.

# Image and video processing -Photo fun

Image processing deserves a mention of its own, particularly in conjunction with scanners. Hand scanners are available for around £100 and they can turn a colour or black and white image into a graphics file for you to play with or enhance using image processing software.

You can carry out all sorts of effects with the latest image processors like Retouche, True Image and Studio Photo or use a free program called AIM, available from PD libraries.

You can use the altered images on your own pictures by cutting and pasting or you can import them into DTP programs or wordprocessors to print them out in your documents.

In the same vein, colour or black and white video digitisers are available that will grab a sequence of frames directly from a video cassette recorder for you to edit, add or remove colours and replay at your leisure. You can even add an audio soundtrack!

With programs like Video Supreme you can also create stunning intros for your own home videos which can actually be recorded from your ST onto the videotape itself without any extra hardware



Special effects in image processing are great fun as well as useful tools for designers and artists



from cow bells to castanets, come next but these are really for semiprofessional use and can be expensive.

The hardware is controlled by software called a sequencer which remembers the notes you've played and puts the sounds in the right order. It also lets you edit your work track by track until it sounds just right when played back through the hardware

Perhaps more important are the features which make creating music quite easy — you can record a sequence, perhaps a drum sequence several bars long and then play it over and over again while another track plays the tune, another the base and



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fter my first steps into the public domain last month, I've become a drooling addict when it comes to getting my hands on the latest home-grown gear.

Whether it be raining, snowing, flooding or avalanching, I'm first at the Atan ST User letter-box waiting for that sound of a heavy thud as an envelope crammed with goodies drops onto the floor, and this month is even better than lett.

# Shockwave Programmed by: State of Mind Available from: New Age PDL Disk No C.1, 94

As soon as the title screen comes on accompanied by the beat of the sampled soundtrack, you know instantly that State of Mind, the company behind this great game, have taken a lot of time over the product.

Fortunately for the player, instead of the programmers chucking the gameplay out of the window and slapping each other on the back for an intro well done, the game gets even hetter

Shockwave is basically Asteroids the 1993 version with extremely large knobs on where the gamer's objective is to amass as much the mineral known as Tulon 359 as possible.

the mineral known as Tulon 359 as possible.

To do this, one has to make a short shopping trip to the centre of the galaxy and blast the

asteroids that contain this precious substance.

Of course, there's no possible chance of doing this without competition from other equally determined shoppers – a bunch of money-grabbing illegal aliens.

The action is presented in a series of screens with your spaceship beginning in the middle. Like the old classic, asteroids lazily float through space and when shot develop a sudden split personality disorder and break up

into small chunks of high-speed rock.

On destroying these, a mineral token is left behind that can be picked up and spent later at the local space DIY store on improvements for

your ship.

This reputable place is run by an ugly, green slob who has what some people might call an attitude which translates into English as being a

The power-ups available include more shots, faster fire rate, increasing the distance of travel, bombs to blow up all the small rocks on screen, very temporary shields and extra lives.

Littered throughout many of the screens are the hostile forces bent on your destruction and their gain. They appear in various guises, from nuclear missiles to miniature death stars, all of which are equally destroyable and deadly. Unlike Asteroids, there is fortunately no



Shockwave - Asteroids with knobs on

# PUBLIC

As the evenings begin their irretrievable slip into darkness, Adam Phillips takes a long hard look at what'll keep you entertained over the following month



High quality and sound to match in Shockwave

inertia which in the original caused the player to jet straight into the side of a waiting super nova without as much as a "see ya later".

nova wimout as much as a See yed value is been if it had been included, it would have been virtually impossible to get off the first level of Shockwave. Instead, the ship follows the direction in which the joystick is pushed, allows for split second manouevring. The quality is high, with sound effects to match. The only gripe is that the sprite of your ship is a little dull compared to the other graphics on offer.

compared to the other graphics on other.

Shockwave is the most addictive and best arcade game I've played in the public domain so far and State of Mind are obviously a team to keep an eye on in the future.

#### Walls of Illusion

Programmed by: Motelsoft and Softwave Available from: L.A.P.D. Disk No G308

Dungeon Master has a lot to answer for – when it raised its head what seems to be years ago now, it introduced a new genre that spawned dozens of imitators across every machine on

dozens of imitators across every machine on the market. It was also responsible for becoming the ST's equivalent of Sonic and by shifting more Ataris just so that the general public could get their

hands on that game. The flood of similar games pouring slowly

#### **Tip Top Horse**

Programmed by: John Riley Available from: L.A.P.D. Disk No. M150

Horse racing – what a bizarre sport. Not so much the actual event itself but all the trimmings that surround it. Middle-aged women sporting radiculous has trying to outdo each other for higher social standing and to be noticed by David Coleman; little men woving their arms around flapping pieces of paper or, in one particular case, a complete lack of a little man waving a flag shoul whatsewer.

Then there are the gamblers who bet on a sure thing only to lose the money which was

supposed to be spent on the Sunday roast.

If you're one of those people who's frustrated with your present system involving word of mouth or simply closing your eyes and making the choice by wherever your finger rests then Tip Top Horse is the cheapest predictor money can buy.

Top Horse is the cheapest predictor money can buy.

While there's no definitive way to win, here is a system designed to increase your odds of success. Tip Top is presented through a selection of screens asking for various pieces of informa-



ation is very similar to DM and you're an experienced dungeoneer, you'll feel like you've come home. Magic, fighting, keys, treasure. throwing weapons, automapping and many other elements all add up to what could be an excellent game

These are all simple to work out and use but as far as the actual mission and clue gathering goes, unless you're literate in the German tonque or don't mind looking in a dictionary all the time

while playing, you may as well wait and hope the programmers will decide to get it translated into good old English I managed to progress a little way into the game and it appears to be set in some kind of

tower where the object is to get to the top for whatever reason. The title is devilishly hard; I still haven't

managed to kill any of the foe who mercilessly hack the adventurers to death. They consist of skeletons dressed in military robes wielding swords among others.

Walls of Illusion is a great looking and excellent playing game which is in desperate need of translating so that everyone can enjoy it.



un vou

into the marketplace seemed to fit into two distinct categories - clones or masterpieces which pushed back the barriers even further and broke new ground. Walls of Illusion is more than just a clone -

it's a carbon copy. What's more, it plays like a dream and appears to be better than most commercial game but is available on shareware. If you don't believe me, take a look at the screenshots and see for yourself.

So what's the catch? Unfortunately, the whole game is written in German which incudes the instructions and all the signs scattered throughout the dungeons. The basic oper-

#### Kozmic4 Programmed by: Dave Henniker

Available from: L.A.P.D. Disk No. A36

Since the early days of Jeff Minter's psychedelic programs, computers have been seen as ideal tools for creating images for raves, parties, pop promos and album covers.

The results are normally described in two different ways - one school of dreadfully conservative thought feels that it's all rather pointless and a waste of anybody's time, while the other just sits there, nodding its head knowingly, hypnotised by the screen as the images

Kozmic 4 is a psychedelic pattern generator with impressive credentials to its name: it has been used on MTV and helped make the CD cover for techno-rock group Tranceport.

The actual program is laid out in a series of icons. Down the left-hand side are the different pattern making tools which range from spirals and loops to multi-layered squares and all manner of shapes accessible at a single touch.

All these are definable by simply pressing on the right-hand mouse button which brings up a series of pull-down menus where each attribute



Psychadelic patterns galore come easily with Kozmic 4

of a pattern can be changed to the desired effect. Once happy with the result, press the left-hand button and the image will be built up continuously until you've got the picture you want. The remaining icons make up a multitude of other image bending options.

Thirty preset colour palettes are available which are changeable and these can be cycled through individually or all together. As well as all this, you distort, mirror, zoom, size and break up any solid lined patterns with line editor

All results can be saved and Neochrome piccies can be loaded to serve as backgrounds. If you're not satisfied with a particular texture you're using then there are another 65 or so on offer which can be laid on top of the pattern.

Kozmic 4 is easy to use and flexible. Satisfying results can be achieved in a short amount of time without having to plough through a mountain of instructions. It is actually quite addictive and I found

myself becoming a little hypnotised by the constant barrage of pulsating shapes and colours... perhaps I should go for a lie down for a little while, I feel a good time coming on...

tion on the race the user is intending to gamble on. The names, previous race positions, amount of courses completed, ground conditions and distance to be travelled are among the many questions asked about each horse.

Once all the data has been fed in, you're presented with a menu giving the odds of which horse the computer thinks will win.

The only negative points are the program's capacity to only be able to enter up to six horses and even that will take a lot of poinstaking time at first. The process is supposed to become quicker with practice but, even so, get ready to be patient – it may well be

For all those budding gamblers among us, the author has even gone to the trouble of suggest-ing how one should go about sensibly betting and not blowing all your money away in the first

It's a simple and easy program to use; even though I hoven't seen how occurate it is in reality, it does seem from the mass of questions asked that it could help the decision-making process. As always though, nature's unpredictability will probably throw a spanner in the works so don't expect any miracles.



Spiral circles? No problem.



#### Demon

Programmed by: Howard and Carl Tilley Available from: L.A.P.D. Disk No. 150

Demon is the second in the line-up of Dungeon Master clones out this month. One of the package's strongest selling points is that it's actual written in English so if we're all going to have to wait for Walls of Illusion then this will keep the status quo ticking over for a while.

The game puts the player in a dungeon where the object is to escape and work your way up the career ladder from vagabond to those heady heights of success.

Along the way, monsters are fought, gold hoarded, many false walls walked through and floor pads stepped on which teleport the player to a treasure room - or alternatively, you may choose to fall down a bottomless pit and die horribly.

Up to the point I've played to, Demon doesn't appear to have the same complexity of puzzles found in similar titles - it has a much more straightforward approach and is surprisingly addictive.

Why surprising? Well, when the program has loaded in for the first time, you'll start to hunt round the screen to try and find where the actual action takes place.

On realising that it is in fact that tiny little window up at the top, your jaw will most likely drop and you'll wonder why you should bother at all

Don't worry if you're a DM junkie, the game is worth playing despite the size - the graphics even though small, are clearly defined on the whole and some of the enemy sprites are very well drawn.

The control system is constructed to be easy to use from the word go. Everything is point and click and clearly laid out to cause the least

#### Attention all PD libraries

If you wish to feature in Atari ST User, just send any of your titles which you feel worthy of review to: Public Sector, Atari ST User, Europress Enterprise, Europa House, Adling-ton Park, Macclesfield SK10 ANP

Please include a list of the contents of each disk detailing the program name/s and what they are. This ensures quick assessment and inclusion into the

magazine. If you are a shareware author, send in

your latest creation along with a list of libraries who will be distributing your program/s thereby achieving maximum publicity.

amount of fuss in combat situations.

Magic lovers are amply catered for with the program offering the usual system of rune selecting to create the desired spell

A special mention must go to the sound which consists of moaning, sheep basing and what sounds like a chainsaw being revved up - don't ask me, I only review these games.

Demon is an above average stab at the Dungeon Master genre and with patience flourishes into quite an addictive game.

#### Atari Text v1.4

Proprammed by: Steven Pemberton Available from: Emerald City PD Disk No. SN37

The two most annoying features of television's teletext are having to wait for the page to change or flicking to a screen only to have a split second to read it before you have time to reach for the hold button

Subsequently, if it's a cinema listing, a 15minute wait ensues while it flicks slowly through 20 sheets advertising just one multiplex.

Atari Text - a database for your own text on the other hand is much less of a hassle because it's not connected to a mainframe in London and has been well designed.

The set up is very similar to its big brother by typing in a number on the main menu and a page of text comes up for your perusal. Even the blocky graphics have been incorporated as an added touch of authenticity but there will be proper graphics interface in a

forthcoming version. To enter your text, a separate wordproces-

sor or a working knowledge of ST Basic is required. The First Word package is still available in the PD library which incidentally is the software that the author used for the preset pages that come with the title.

By saving your document as Ascii into the pages directory it is possible to create a TV magazine in a relatively short period of time with satisfactory results. It is a bit of a fiddle trying to underline, lighten or place text in italics because a modicum of programming is required but perseverance pays off. The program is ideal for

network use and information



Competing against the clock in Snott 93 is exciting but ends in frustration

storage which can then be distributed into the PD library which in turn can use it as a disk cataloguing system.

Originally only a med-res utility, it now has a low resolution facility as well. Overall, Atari Text is a great idea that has been well implemented and is well worth checking out.

#### Snott 93 Programmed by: Powerfist Productions Available from: Electric PDL Disk No. 11

The delightfully named Snott 93 tells the story of a race of humans not to dissimilar to ourselves who are invaded by the Orbs, They spray the land with radiation and in man's darkest hour, scientists genetically build the ultimate fighting machine - a lump of bogey

called Snott This incredible piece of mobile phlegm is able to walk and fly for short periods of time in the irradiated atmosphere. The mission on each of the several flick screen levels is to eat a certain amount of the Orbs which appear as red faces.

On its travels. Snott encounters the devastation of the enemies dealings - all wildlife is lethal to the touch because of the nuclear poisoning

The game is amusing if a little rough around the edges. Competing against the clock can be quite exciting but usually ends in frustration as you just miss reaching the end of a level or die because the Snott's feet - I guess that's what you'd call them - just miss the edge of a platform. I'm a little unsure whether the collision detection is 100 per cent accurate but it doesn't affect the game too much

While not up to the standard of Powerfist's other release Power Cut, reviewed last month, this is still a slice of relatively addictive

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#### **Two-piece ST**

I have had my 1040STE for two years now and I have always envied those Mega ST/STE owners who have a PC-style case with separate keyboard

Is there some sort of conversion kit which will allow me to put my 1040STE's innards into a PC-style casing, with the ability to have the keyboard separate too, or will I have to sell my current STE and buy a Mega machine? A Strickland, Newcastle

Unfortunately, the Mega ST and Mega STEs are no longer manufactured, but I would guess you could pick one up second-hand. With regards to a conversion kit, System Solutions have such a product which will transform your STE into a sleek tower system, complete with separate keyboard.

The tower system is ideal in that it takes up very little space on your desk and there is lots of internal space inside the case for add-ons such as hard drives, extra floppy drives and

other juicy upgrades.
The system, called The Lighthouse Tower by the way, costs £219.90. It is fairly easy to fit for someone with a basic knowledge of electronics, but System Solutions do offer a fitting service for those who don't relish stripping their beloved computer down to the bare

For more information, System Solutions can be contacted on 0753 832212, or, for those with a modem, you can connect to System Solutions' Blackwater BBS, where you can get the latest product information and news. The BBS supports speeds up to 14,400 ith MNP5. Set your terminal software to eight bits, no parity and one stop bit.

## **Playing PC games**

With the Falcon's ability to use 256 colours and its internal ability to simply slot in a PC emulator, will it be possible to play PC games which use 256 colours once a emulator has been fitted?

R Smith, Sussex

I'm afraid that the reasons PC games do not run on PC emulators is not just because they have 256 colours. A PC computer screen is addressed completely differently than that of a

Also, the sound effects in a PC game look for dedicated hardware boards such as the Roland Soundblaster and ADlib sound cards.

Anyway, it shouldn't be long before games specifically for the Falcon starts to appear, and when they do, they will be just as good, if not better, than the games available for the PC.

#### **Newcomer questions**

As a newcomer to the Atari ST world, I was hoping you can answer a couple of questions. I am very interested in art on computers and I would like to get either Deluxe Paint or Degas Elite - are they a good choice?

Is it worth getting a second disk drive and if so, which one is best? Also, is it possible to use a mono program on a colour TV, or will I need two monitors?

I hope you can help me. Keep up the excel-

lent work on the best ST magazine in the market

L Blood, Fife, Scotland

Deluxe Paint and Degas Elite are both excellent packages. However, if you intend to create animations as opposed to static images. Deluxe Paint has a much more powerful collection of features for the animator to use.

Unfortunately, Deluxe Paint only uses low resolution, whereas Deaas Elite works in all resolutions. Therefore, if you wish to create mono artwork, for use in desktop publishing for instance, Degas Elite will do the job.

Buying a second disk drive will certainly make life much easier if you find yourself having to swap disks frequently, or if you find yourself copying files from one disk to another. If you can afford to buy one, do it!

With regards to which drive to buy, it is a pretty difficult question to answer. The major-ity of drives sold by reputable manufacturers these days do not vary much. The points to watch out for are: How quiet a drive is it? Can it handle formats up to 82 tracks? And how much space does it occupy on a desk? All of **Changing port** 

I have recently built an input/output port for my ST which is plugged into the joystick port for the input side of things, Ideally, I would like to change this situation so that I can use the printer port, which can be used for both input and output.

However, I need to know how to change the data direction register which allows this but I do not know which one to alter (ST technical books are hard to find for some reason). I would therefore be obliged if you could tell me the location of this register and how to change it from within GFA Basic 3? I have an ageing Mega ST2 by the way. D Ford, Plymouth, Devon

I can't say I'm thoroughly familiar with low

level programming, I referred this one to a friend who came up with the following explanation. Bit 7 of register 7 in the programmable

technical letters ● problems ● suggestions

the major advertisers in this month's magazine stock good quality external drives, so phone around for the best deal.

As for using mono programs on colour monitors, yes it is possible. There is a specific type of utility available from many PD libraries, which, when run, emulates a mono screen on a colour monitor.

Unfortunately, there is a price to pay. Because the utilities emulate a mono screen,

#### Got a problem?

Are you at the point of taking an axe to your Are you at the point of taking an axe to your 577 Do you want to pubries your printer? Well just count to ten and relax. Then, jot down the problems you are having, along with a detailed description of your setup. Include information on the type of \$1 you have, the TOS version (if known), what have the TOS version (if known), what have the TOS version (if known), what ware that buts mixed you compate tocknow you want to be a superplayed, are to tentuched and you compate tocknow you want to be a superplayed to come up with a subtlent.

For those who have had problems and overcome tham, chances are that someone

For those who have had problems and overcome them, chances are that someone somewhere is having the same problems and would benefit from your advice.

So, get in print and send any tips or suggestions that other users may find helpful, Send all tips and cries for help to: Durren Evans, Advice Service, Atari ST User, Europa House, Adlington Park, Macclesfield Sk10

programs running under them will seem very sluggish in performance. Also, the image quality will suffers, so using it for artistic purposes seems pointless.

It is possible to buy a monitor which can

handle all resolutions the ST has to offer. Such monitors are generally called multisync or multiscan. This means they can handle the different frequencies of the ST's colour and mono modes (70Hz for mono, 50 or 60Hz for colour).

These monitors are obviously more expensive than a normal monitor but as the saying goes, "you gets what you pays for". Ladbroke Computing on 0772 203166 have recently started stocking a multiscan monitor so check with them for current price and availability.

#### ST technical books

Is it just my local bookstore, or is there a very disturbing lack of technical books for the ST? After many months getting to grips with programming the ST in Basic, I have now decided to make a leap towards programming in assembler.

To this end, I eagerly snapped up the June 193 issue of Atari ST User with its excellent Devpac ST 2 CoverDisk giveaway (well done chaps).

Unfortunately, due to the very low level of programming which is inherent with assembly. the programmer needs to know about all the

sound generator controls the direction of data for the parallel port. If it is set, the port is output, if cleared, it is input.

To set the bit, you must first select the register to change within the sound generator by placing the value 7 in register SFF8800 (byte size).

Next, the value 128 (\$80 in hexadecimall should be written to SFF8802 as a byte to set the bit. To reset the bit, write 0 instead of 128. You should then be able to read data from register 15 by writing the value 15 to register SFF8800, then reading a byte from SFF802

The problem is how to change these values in Basic. The above procedure needs to be done in Supervisor mode. You should therefore check whether GFA Basic allows you to change to Supervisor mode. If not, you will have to write an assembly routine to be called by the basic program to do it.

know how to write for the machine, the greater the popularity of the ST will be due to new and existing software support available.

N Meyers, London

I sympathise with your predicament Mr Meyers. When I first set out to learn about assembly about two years ago, I had the same problem.

With the attention to detail and precise nature of assembly language programs, a comprehensive knowledge of the innards of the ST is essential for getting maximum power and portability from your programs.

I don't know why there has been a decline in ST technical reference material. The only publications available at present are somewhat outdated due to the new TOS versions available, as well as the new hardware in the

Thankfully this will soon change due to a American company based in Sunny Long Beach - Software Development Systems (aka SDS), 996 Redondo Avenue, #404, Long Beach, CA 90804 - are to release what is bound to be the most comprehensive Atari price yet but it retails for \$49.95 in the good ol' US. As and when I can get a copy, I will be sure to tell you all about it in a future issue.

#### **Mad-Dog dilemma**

I have a Atari 520STFM, which I believe has TOS v1.2 in it, I was recently given the game Mad Dog Williams but no instructions (it's an original copy, honest. I even have the box).

However, when I try to load Chapter 2, The introduction, or Chapter 1, it fails and just hangs up. Is there something wrong with my computer or will I have to write off to the company for a replacement manual?

G McDermot. Suffolk

I checked with our resident Gamer gurus (Biffa and Simon) and they say the game requires 1Mb of memory. You will therefore need to buy a memory upgrade in order to play it.

#### **Falcon controller**

I have recently bought a Falcon and have had it for about two months now. There is a fair amount of software, both games and serious, available from numerous PD libraries, which is a good sign of

However, my main interest is in games and programming. I intend to do my own PD/shareware game and I also want to take advan-

Are there any analogue game controllers available for the Falcon, and if so, where can I get hold of ones

tage of the Falcon's analogue game ports as well as the normal joystick port

A Baxter, Rhyl

Yes, there is quite a good flow of games and utilities arriving for the Falcon from the PD and shareware authors out there. One particularly good game is the Falcon version of Oxyd, a great Marble Madness-type puzzle

With regards to availability of analogue game controllers, they are available directly from Atari (tel 0753 533344) for £29.99. They are also compatible with the ports found on the

arren Evans, Advice Service, Atari ST User, Europa House, Adlington Park, Macclesfield SK10 4NP

major chips, such as the 68000, MFP, Shifter and ASCIA, as well as the actual operating system software which resides in all the STs.

What I require is a technical reference, ideally covering differences between operating systems and also incorporating Falcon details too.

Is there such a reference manual, and if so, where is it and why is it hard to find? Please, Please help as I am finding it rather difficult to learn how to program the ST in assembly.

Surely the more programmers out here who

reference manual ever. The Atari Compendium (ISBN: 0-9638331-0-3) may well be finding its way over here soon. By the time you read this, it will have made its first appearance at the Southern California Atari Computer Faire (I did try my utmost to convince my editor to send me on this chore to cover it).

The mammoth tome has 860 pages bristling with information for programmers using C, C++, Assembler, Pascal and Basic, includes chapters covering all aspects of all Atari computers including the Falcon. There's no UK

# Monitor or TV - that's the question

I have been using my 1040STE connected to a poxy little portable TV, which doesn't give the clearest of images and is practically on its last legs, for a year now. With my birthday about two months away, my parents are treating me to a new TV (vipee).

However, considering the fairly poor image quality compared to my friend's SC1224 colour monitor. I am tempted to buy his spare

My problem will then be that if (or should that be when?) my old portable gives out, I won't have a TV in my bedroom to watch cultured programs like Home and Away

If I do opt for my friend's offer, is there some device that can allow me to receive TV signals when I'm not using the monitor for my computer?

E Shackley, Tewkesbury

There is no way to receive TV signals on the SC1224 so you will be

without a TV should you buy it. However, there is an alternative.

If you want to improve the image quality for your computer and at the same time receive TV signals, you should look for TV models which feature a Scart socket - usually at the back.

A Scart socket is a 21-pin port, which you can plug your ST into via ready made ST-to-Scart cables, which are available from most good computer stores.

Although image quality is still slightly inferior to that of a dedicated monitor, I'm sure you will find it far superior to that offered by a normal TV connection.

When shopping ground, ask the salesperson whether a specific model has Scart capability. It is also worthwhile ensuring the monitor has a FST (Flatter Squarer Tube).

This means the actual tube is not curved but is flat, which is ideal for computer work. The most popular Scart FST TVs seem to be the Sony Trinitron range.

#### **VIDI ST (12)**

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only true colour

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ster will work on any standard Atari ST with at least a single 1Mb floppy disk drive and a colour monitor. At least 1Mb RAM is recommended. RRP £69.95, save £15 with this offer



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#### **REPLAY 16**

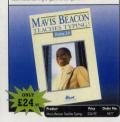
HARDWARE – The 15 bit sampling unit plugs into the cartridge port of the ST. Audio connections to and from the sensite are associated via considered Phono connection. An insus values control is also considered. SOFTWARE - EDITOR - The sample editor is a highly flexible "WMP" style program which allows con-

arc include: \* Volume control: \* Digital literang and 3D frequency analysis: \* Coor bute incoming DRUMBEAT - A 4 visice polyphonic Drum machine with full MIDI control. Up to 30 different samples can be

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# MITH EXNET

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o one knows exactly where or how computer viruses came into existence. Rumours range from the commonsensical (that they were pranks which misfired) to slightly were pranks which mistired to stightly paranoid conspiracy theories (a company locked in fierce financial battle decided to drop a bombshell into the competitor's disk drive...).

No matter what triggered it all off, the resultant reaction in the computer industry was one of sheer panic. To

combat the fear of a complete nervous breakdown in consumer faith, developers turned their hand to making virus killers – programs that would hunt out the diseased devices and stamp on their heads until they ceased to breat

Subsequently, the problem appears to have been brought back under control with various programs covering all machines. The ST itself has over 65 known viruses which are split into two

The first is the boot virus that infects the system when you reset or turn the computer on with a diseased disk in the

computer on with a diseased disk in the drive. It corrupts the boot sector which is located in track 0 of the floppy.

With each consecutive load, the virus copies itself into the RAM during start up. From there, it multiples and once activated, begins to carry out its programming.

programming.

Link viruses are far rarer but more Link viruses are far rarer but more day agreement because they usually infect the hard disk dive which stores large amounts of information. They attach themselves to a particular file within a program and then multiply each time it's loaded.

In some cases, they are able to infect other files situated in the same directory and once embedded in the software, it is virtually impossible to destroy them.

The Ultimate Virus Killer from

Douglas Communications is, in many respects, the most comprehensive virus detection, destruction and protection utility on the ST market.

Version 5.9 is the latest to be released due to the discovery of the Beilstein virus, a nasty piece of work which is one of the next generation of computer viruses

It throws 12 destruction routines in the works by disguising itself as a MS-DOS boot sector such as one formatted

THE ULTIMATE VIRUS KILLER Written by Richard Karsmakers

> Douglas Communications P.O. Box 119 Stockport Cheshire SK2 6HW England

### F1 Search'n'Destroy Viruses Menair Disks 3.9 Information

System Status Duit to Desktoo THE 12.12.2888 12:13:88

The main menu – select Search and Destroy and let UVK do the rest...

# Computer **DomesTOS**

Adam Phillips on the utility that kills all known germs... dead



by TOS 1.04 and higher Apparently, only UVK 5.9 is able to recognise and destroy this latest disease at the moment. The link virus checker is now twice as fast and has capabilities for checking the Atari's Extended Control Panel

When UVK is booted in, the user is presented with the system status screen. It documents memory configuration and also a list of system variables which, if suspicious, are highlighted signifying that a closer inspection is required.

It also identifies how many floppy,

hard or RAM drives are attached Clicking twice brings up a menu with five options — Search 'n' Destroy Viruses, Repair Disks, UVK 5.9 Info, System Status and Quit to Desktop

The search and destroy device is the hub of the utility which scans through the disks hunting for boot and link viruses and is able kill boot sector viruses without harming other data or

Simply select the drive to be checked and choose which of the two types to look for If Boot is selected, there is a look for it soor is selected, mere is a short pause after which a disk diagnosis is displayed telling the user if they have anything to worry about. By using Link check, it is possible either to select a whole partition or indi-

vidual files folders. To prevent the link virus from sinking its teeth in at all, the software offers an immunisation treat ment which can be used on any file. It is ortant to note that once immunised,

it is not possible to edit or delete the files. UVK also allows the user to repair a corrupted BIOS Parameter block on any disk. Without it, the computer will not be able to understand the floppy's configuration and will therefore not to be able to read it.

By clicking on the Repair button, the virus-ridden boot sector of a commercial piece of software can be replaced with the original from Ultimate Virus Killer's huge library of titles which range from Batman to Wizkid.

So if your favourite game has been destroyed by disease, there's a good chance that UVK is what you need.

What impresses me the most about the utility is the user friendliness of the package. A help option can be switched on which explains each function clearly

on which explains each function clearly and concisely as it is selected.

The only negative is that if you don't own a printer, it's going to be a real pain having to access the instructions which are supplied as text on the disk, not as a separate manual.

Every three months or so, the user is called to ungrade to the latent was as

able to upgrade to the latest version of UVK for £4.99.

Alternatively, you can subscribe for one year and receive 4 upgrades starting with v5.9 for £17.50. The new versions will be automatically sent out to subscribers as soon as they are

While not dismissing some of the excellent virus killer software available in the public domain, Ultimate Virus Killer offers a diversity matched by no other for the time being and is an excellent buy for a secure computing future.

#### **BOTTOM LINE**

The most up to date package you'll find covering nearly

**EASE OF USE** User friendly and simple but a senarate manual would have been good.

VALUE FOR MONEY Cheap but not cheerful. A mere £10 for the best security money can buy

Excellent

Annalling

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#### T.S.C: The Shareware Company. Not all PDL's are the same!

Well. It seems we've upset some people. Our last advert pointed out that our Advert isn't a list of some of the software we have - and explained why. We tried to find out what customers want - and then provide it. That includes usually same-day turn around of orders, credit card orders accepted, a masive range of software to choose from, and a catalogue that's too big to print out economically. (Because we stock a lot of disks (1850 +) and we describe what's on each disk, rather than listing whats on it.) We have a real live person on the end of the phone. who's ready not just to take your orders, but also to chat about computers, offer advice, and make suggestions about the software you need: Describe what you want to do, and we'll sort out which disks will best do the job. We go out of our way to help, as we think that it's a good way to generate loyal customers. We offer customers a wide range of new, excellent, as well as "In-German" programs (which are often worth the struggle!) We don't handle "Demos". The result is the PD Library that does exactly what we think a PDL should be and do; it's our opinion, and clearly a lot of other PDL's don't agree with us - but like our slogan says. "Not all PDL's are the same". Neither, thank goodness are all ST Users the same - our average customer is age 30 or so, (and that "or so" can be 40 years!) and probably old enough to be the parent of the "average customer" of some of the other PDL's. They use their ST for serious applications, like Music or DTP, and find our service, back-up and range of serious stuff exactly what they want - and probably buy a few games or educational programs too. We seem to be particular popular with the disabled - and recently tried (without success) to interest Atari (U.K.) in contacting the Computability Centre for an evaluation of Atari products...if you are aged about 10, and you're looking for the latest and hottest in demo's... then this isn't the PDL you're looking for. (But we'd be happy to commend the one that we think best suits your needs!) If you'd like to know more about TSC, send 3 x 1st class stamps, or a (newish, please!) disk and an SSAE to the address on the left for immediate despatch of a catalogue that's bursting with text and freebies! Not all PDL's are the same - because neither are all ST Users. Nor (Hooray!!!) are all PD adverts!

Please specify if you have an ST or a Falcon – we're also the official PDL of the Falcon Owners Group – someone else who thinks we're doing it right! Different isn't *always* better – but the way to check is to try it out for **yourself**. e've got a lot to cover this month, so we'll start month, so we'll start windows. The first thing to know about is a structure called a GRECT. When making use of GEM, you will need to #include OBBEFS.H - and GEMDEFS.H - into your program.

You will also need to declare a specific set of global (extern) arrays of ints – but that list of arrays can be found declared in the MAIN.C file on the CoverDisk so there's no need

to go into it here.

Back to that GRECT. The name stands
for Graphical RECTangle, and it is a
structure which is defined in the stan-

dard header files.

It consists of four fields, each of which is an int, named g\_x, g\_y, g\_w and g\_h, and which hold, respectively, the x- and yco-ordinates of the top-left hand corner of a rectangle and the rectangle's width and height.

I mention this now because GEM is split into two separate segments: The AES or Applications Environment System, and the VDI, the Virtual Device Interface. Confusingly, the AES and the VDI etch has a different way of describing a rectangle.

The AES uses a GRECT, while the VDI

describes rectangles using four ints which hold the coordinates of the top-left and bottom-right corners. Since the windows handlers are all part of the AES, we use GRECTs throughout in describing them.

With that little digression disposed of, let us now turn to the windows themselves, and the first stage is to create a window with a function call like this (all variables are ints):

wh = wind\_create ( parts, loc.g\_x, loc.g\_y, loc.g\_w, loc.g\_h );

The value returned by wind creately is known as the window handle, and refers uniquely to the newly-created window. You must be sure always to check the window handle, however, since a negative value indicates that GEM cannot create a new window, usually because too many windows are open. The window handle, then, is only valid if it is a repetate than zero.

valid if it is greater than zero.

The final four parameters are the four fields, in order, of a GRECT describing the window's maximum possible size. It is susually advisable to use a GRECT which describes the size of the entire GEM desktop for this – and I'll mention in a moment how you can find out what that is.

Incidentally, most C compilers will be willing to accept:

wh = wind\_create ( parts, loc );

Roy Stead turns
his attention to
GEM windows as
we continue
our definitive
C tutorial



window), the MOVER (the striped bar across the top, used to move the window), the NAME bar (the text displayed inside the mover), the INFO line (a line of text immediately below the name bar), the FULLER (the box at the top right-hand corner, used to togale the window size to full size or back again), the SIZER (the box at the bottom right-hand corner, used to resize the window), the horizontal slider bar (HSLIDE, at the base of the window), vertical slider bar (VSLIDE, at the right side of the windowl and the various arrows at the ends of the sliders (UPAR-ROW, DNARROW, LFARROW and RTARROWI.

Now, wind\_create() will create a GEM window for you, but will not display it on the screen. To do that, you need another function.

#### wind open ( wh, windrect );

This will open the window whose handle is given by [int]wh – the value returned from wind\_createl], remember? – at a position and size on the screen described by [GRECT]windrect. To close your window, use:

#### wind close ( wh );

and when you've finished with the window, a simple wind\_delete ( wh ); call will delete the window and free the window handle for future use. If you delete a window before closing it then

# Through the square window

as identical to the earlier one, automatically expanding (GRECT)loc into its four fields before passing their values to wind\_create().

One which does not allow this is the HiSoft C Interpreter, but since that program uses its own simplified GEM bindings and has problems working with standard GEM functions in any case, we will – from now on – be ignoring that package.

The interesting parameter in wind\_create() is the (int)parts variable, since that tells GEM how you want your new window to look and behave.

As you will have noticed from the desktop, a window can have several different parts, such as slider bars and a name bar. All of this type of information must be contained in that (init)parts value, by bitwise ORing together the symbolic names of the parts you wish your window to possess.

The various parts of a window – with their symbolic names in block capitals – are called the CLOSER (the box at the top left-hand corner, used to close the there is no reasonable way of removing the "dead" piece of window-related graphics from the screen. Even more serious, failing to delete a window will couse serious problems for any other programs which need windows, since GEM can only support a very limited number of windows at any one time.

It is, then, vitally important to make sure that your program closes and then deletes all windows before it terminates.

There remain only four windowrelated functions for us to look at. The first is an immensely useful function called wind\_get(), which looks like this:

wind\_get ( wh, info, &foo.g\_x, &foo.g\_ y, &foo.g\_w, &foo.g\_h );

wind\_get() will obtain some specific information about the window whose window handle is given in (int)wh, with the information being "returned" in the fields of (GRECT)foo. Note, incidentally, that it is not possible to use "&foo" as

shorthand here. Can you see why? If not, think about the size and numbers of pointers.

The interesting bit is the (int)info value, which tells wind get() what information you wish to be given about the window, by passing one of the symbolic names given in block capitals

in the next three paragraphs. You can ask for the overall size of the

window (WF\_CURRXYWH), including the "borders" such as slider bars, and so on. Alternatively, you may obtain the size of the working area of the window (WF WOR-KXYWH), which refers just to the central section, or the window's maximum size (WF FULL-XYWH) or the previous size of the window (WF PREVXYWH). In all of these cases.

(GRECT) foo will be set to contain the information desired in the usual format. If your window has a

horizontal slider bar then you can obtain the (WF\_HSLIDE) or size (WF\_HSLISIZ) of the slider. The position is given as a value from 1 to 1,000, where one is at the far left of the slider bar itself, and the size is given as a value from 1 to 1,000, where 1,000 indicates a slider which entirely fills the slider bar.

Similar information can be obtained about vertical slider bars using the WF\_VSLIDE (position) and WF\_VSLI-SIZE (size) symbolic names, In all of these cases, the value requested is "returned" in foo.g.x.

Three other requests refer to the visible portions of your window. To obtain the handle of the topmost ("active") window - "returned" in foo.g\_x - use the WF\_TOP symbol. More complex are the WF\_FIRSTXYWH and WF NEXTXYWH symbols, which we will cover at a future date.

Since a positive window handle refers to a valid GEM window, while a negative handle indicates an error, you may be curious about the value zero, which is neither positive nor negative. The zero window handle refers to the GEM desktop. It is generally not a good idea to change the attributes of the desktop, but you can easily discover information about it using wind\_get().

Thus, to put the size of the entire GEM desktop into (GRECT) foo, you would simply use:

wind get ( D, WF CURRXYWH, &foo.g x, &foo.g v. &foo.g w. &foo.g h );

The companion function to wind aet() is called - appropriately enough wind setfl. This is used to set a specific attribute of a specific window, and looks like this:

wind set ( wh, info, foo );

The overall position and/or size of the window referred to by the window handle (int)wh can be adjusted by passing WF\_CURRXYWH in place of the (int)info value, and putting the new screen rectangle description into (GRECT) foo.

If your window has sliders then their sizes and positions can be adjusted by WF HSLIDE, passing W F

WF\_HSLISIZE, WF\_VSLIDE or WF VSLISIZE, with the new value in foo.g x, while any window can be made active -"brought to the top" by passing WF\_TOP in (int)info and that window's handle in foo.g\_x . All names and values, of course. can be interpreted in the same manner as they were

wind aet() calls. Two "new" things which can be set are the text of the name bar and the info line of your window. If it has either or both of these attributes then you MUST set their values BEFORE opening the window

with wind open(). The symbols to pass to wind set() are WF\_NAME and WF\_INFO, respectively, with a char-pointer-to-the-string cast-to-long taking the place of the foo.g\_x and foo.g\_y fields in the function call - the final two values are ignored; but must be included, of course - like this:

wind set ( wh, WF\_NAME, (long)"Fubar", 0, 0);

Alternatively, and for more portable code, you could use the more complex form of the same basic expression, which is given in the GRAPH.C file on the CoverDisk.

You will have noticed that the size of the working area of your window varies according to the attributes the window has and the screen resolution.

Happily, GEM provides a function which, when given a GRECT describing the working area, will calculate a GRECT for the overall window size, and vice versa. That function looks like this:

wind\_calc ( flag, parts, foo.g\_x, foo.g\_y, foo.g\_w, foo.g\_h, &bar.g\_x, &bar.g\_y, &bar.g\_w, &bar.g\_h );

Here, (int)parts has the same meaning as in the wind\_create() call we discussed earlier, while (int)flag can have one of two values.

If (int)flag is given the value WC BORDER then (GRECT)foo is taken to describe the working area of the window, and the overall size and position is "returned" in (GRECT)bar. Contrariwise, if (int)flag is WC\_WORK then (GRECT) foo is taken to be the overall size/position, with the working area placed in (GRECT)bar after the function

The final function call to think about is the wind\_update() call. When adjusting the sizes or positions of windows, drawing or redrawing the window. and so on, it could be most annoying if the user were to try to move the window in the middle of your task, or (for example) a desk accessory were to try to write over your window at that time

To avoid these kinds of problems, we send a message to GEM before we perform such actions, to tell it "Hold it right there, I'm busy just now, OK?" When we've finished we send another message to tell GEM that it's now safe to proceed.

To send these messages, we just use:

wind\_update(BEG\_UPDATE);

before performing our task, and then

wind\_update(END\_UPDATE);

once we've finished.

All that remains to do with windows is to talk about how to display things inside their borders, and what to do when the user does things like moving them around the screen.

There are some examples of both of these things in the GRAPH.C and MAIN.C files on the CoverDisk, but we'll be talking about them in some detail next month.

# Getting to grips with C

C, given away with the April issue of Atari ST User?

Or maybe you missed one or more parts of this guide to programming in C?
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> This software was on the November issue's CoverDist

Don't know your RAMs from your ROMs? Confusing your IDEs and your Asciis? Then peruse Atari ST User's highly selective, subjective and utterly indispensable...

# Bluffer's guide to computer speak

Apple	The manufacturer of business/arty computers for people too snobby to use IBM-PCs (or Ataris).
application	A program designed to achieve a goal, as opposed to providing entertainment. Wordprocessors, databases and spreadsheets are all examples of applications.
Ascii	American Standard Code for Information Interchange, or a set of letters, numbers and other characters which is used as a standard way of electronically storing and transferring text the world over.
assembly	Not when you stand still and try not to laugh at the head- master's stupid hat, but a "low level" (le hard to learn) computer language which gets right inside the machine, yielding untold joys for all with the patience to learn.
Basic	.Beginners' All-purpose Symbolic Instruction Code. A user-friendly computer language, of which STOS is a popular, games-optimised ST variant.
bulletin board	"Usually run by an enthusiast, a bulletin board (or BBS) is an electronic "magazine", which you access by phone from your computer, and where you can "Talk" to other users, give and take software (not commercial stuff, of course), read and send messages and catch up on gossip from around the world.
bubble jet	A modern printer technology, involving the clever applica- tion of ink using firry bubbles which give a smoother finish on paper than the more common dot matrix variety.
c	A neat computer language, favoured by experts due to the methodical approach it forces the programmer to adopt to his/her work.
co-processor	Normally referred to as a "maths co-processor", this is a chip you fit inside your machine to work alongside your CPU, relieving it of some of the strain and so speeding up the computer.
coders	A breed of people who only come out at night, have pallid features, and program computers.
Commodore	.The manufacturer of computers owned by teenagers who wish their parents had bought them Mega Drives.
comms	or communications. Usually using modems, the practice of computers "talking" to each other across phone lines.
composite	The composite output on your computer is where the TV lead plugs in (composite means that the red, green and blue colour information which goes to make up your computer's aignal output to the television are all mixed together in one lead). Composite signals lose a lot of quality when displayed, hence the vary lines and burriness when you look at your ST's display on a television.
database	Like a card index storing names, addresses, member- ships or whatever, but far more flexible and far faster to use (once you've typed all your information in).
debug	The process by which glitches are "ironed out" of

Charles and the second	
disk drive	The hardware which reads and writes onto disks. Mo specifically, you can get hard drives (or hard disks they are also known); floppy drives, for floppy disk
dot matrix	aptical drives and so on. The most common type of computer printer, which
io many	rapidly being superseded by more modern technology notably inkjet and bubble jet printers, which give sup- rior results (at a higher cost per page).
double click	Clicking the mouse button twice in quick succession order to instruct the computer to do something.
DTP	desktop publishing. The electronic creation of publishe material, using specialist software, scanners, laser prin ers the works! Atari ST User is desktop published.
email	not a boy raver, but any form of electronic mail se between compatible equipment.
emulator	a piece of hardware which makes one computer act lift another, typically to make, say, an ST into an IBM or Macintosh.
Falcon	Atari's newest computer, and one which represents great leap forward in technology for the firm's range.
font	A set of letters of the alphabet, numbers and so on, all a similar style. This sentence is "set" in the Futura for for example.
format	
Fortran	A computer language.
GDOS	Atari's Graphics Device Operating System, which extra software to improve the STs handling of fonts, ar special graphical devices such as plotters.
GEM	The title of Atari's desktop (the equivalent of Window on the PC and Workbench on the Amiga)
grab	A computerised copy of an electronic picture, such as TV or video frame or, say, a sheet in a computer game. Atari ST User used grabs extensively, especially in it Gamer section.
grabber	A piece of hardware used to obtain grabs.
hack	To gain unauthorised access to another's corputer/computer system. Usually conducted over the tel phone using a modern, hackers do it for the challeng They're also breaking the law.
hi-res	or high resolution. 640 pixels by 400 on an ST screen. Clear and detailed, the ST's hires mode is mor
	and ideal for complex programs such as profession music software, computer-aided design and oth tasks requiring a lot of information to be displayed your screen at the same time. Requires a speci monitor.

# Bluffer's guide to computer speak

nurrer s gu	ide to computer speak		
joystick	Rather dubiously named when you think about	RGB	The type of signal your computer outputs at the
	Rather dubiously named when you think about it, a joystick is the classic means of game control, comprising Fire button/s and a long, stiff shaft.		monitor sacket, carrying the information for each separate colour (the three of which go to make up your computer's display) to your monitor.
L.	Short for kilobyte.	ROM	
		KOM	permanently on a silicon chip which you
	1,024 bytes, not 1,000 as commonly assumed.		Read-Only Memory, meaning something stored permanently on a silicon chip which you can "read" but not "write" over. Parts of Atan's operating system are on a ROM inside your machine.
ned-res	or medium resolution. 640 pixels by 200 on an ST's screen. With up to four colours, this is the ideal screen resolution for many useful software packages, such as wordprocessors, databases and spreadsheets.	scan	n. A computerised copy of a 2D picture or diagram, much used in DTP. v. The act of scanning an image.
	spreadsheets.	scanner	
egabyte	Strictly just over a million bytes, often mistakenly	screen mode	See screen resolutions.
	<ul> <li>Strictly just over a million bytes, often mistakenly assumed to mean a million bytes – as you may expect, the discrepancy is of little practical impor- tance.</li> </ul>	screen resolution	The number of pixels across and the number of pixels down the display output of your computer. 640 x 400 means the display has 640 pixels
nemory	Silicon chips which can store information, of which there are two kinds – ROM and RAM.		across and 400 pixels down.
idi	Musical Instrument Digital Interface. Allows the ST to communicate with suitably-equipped professional electronic musical equipment. Has revolutionised the	SCSI	<ul> <li>A sophisticated disk-handling format, very popular in the IBM/Apple worlds and a refined version, SCSI II, appears on the Falcon.</li> </ul>
	way most modern music is created.	Seagate	A well-known computer hard disk mechanism.
odem	A piece of hardware which plugs into your computer allowing it to connect to the telephone network. Nowadays offer really high speed transfers, fax facilities and the like.	shareware	
onitor	A dedicated computer display, like a TV but capa- ble of far clearer, stiller results. Thus much easier	68000	The name of the CPU in the ST.
	on the eye.	68030	The name of the CPU in the Falcon; it's faster than the 68000.
ono	Comprising of two colours (as in monochrome).  Mono monitors are used by Atari high resolution screen modes and display much detail crisply and clearly.	shoot-'em-up	
ouse	The small unit which plugs into your Atari and allows you to move the "mouse pointer" around the screen in order to operate the machine.	SpeedoGDOS	Atari's improvement on GDOS, whose major enhancement is the ability to handle outline fonts (which can be scaled to any size).
ultisync	A type of monitor which can handle varying types of output from a computer. As the Falcon has so many screen modes and resolutions, a motched multisync is pretty much a necessity.	spreadsheet	A numbers-based program, which can automati- cally track and alter your financial predications depending upon the information you give it., For instance, should you tell a spreadsheet looking after your company's assets that the interest rate
pin	A type of dot matrix printer. A combination of nine- pins is used to print each character, by the press- ing of the pins onto a ribbon between them and the paper.		late how this will affect your whole financial life.  Takes a lot of the tedium out of accounting and book-keeping!
erating system	Software which tells your computer how to behave when you switch it on. Atari's operating system is TOS which tells your machine to display the GEM desktop and allows you to do basic tasks such as formatting disks and so on.	ST	A computer manufactured by Atari (yes?) which comes in a number of guites including STF on ST with 6 Roppy drive); STM (with a modulates for use with a television self). STFM (guess!); STE [E for Extended, meaning better) and Mega ST [meaning, erm, megastasic]. The STFM and the STE are the most common models.
scal	A complex computer language.		the most common models.
tformer	All started by Manic Miner on the ZX Spectrum,	subscribe	
	platform games are at present notorious for all being exactly like each other (yawn).	sysop	SYStem OPerator. The person responsible for running a bulletin board.
nter	A piece of hardware which can print information onto paper, like a typewriter.	тоѕ	
rogram	Anything which makes your computer do something is a program. So the desktop you see when you switch on is as much a program as the games you buy on floppy disk.		ramie operaning system (ares sizes frames, what head honcho) this is the bit that makes the ST behave like an ST and not any other computer. It displays the GEM desktop, for example, and handles disk formatting, copying and the like.
SU	Power supply unit.	24-pin	
blic domain	Software for which the author expects to receive no payment. Distributed by mail order firms for little more than the price of a disk.		A type of dot matrix printer. A combination of 24 pins is used to print each character, by the press- ing of the pins onto a ribbon between them and the paper.
antum	One of the best known and most respected computer hard disk mechanisms is made by Quantum.	typeface	A collection of fonts, for instance an italic font, a bold font and a normal or "roman" font, which share a common name and look. For instance, Times is a typeface comprising of a number of fonts such as Times Roman, Times Bold and so on.
AM		utility	
	Random Accass Memory. Information stored on a silicon chip which is lost when you switch your computer off. RAM hypically holds any program you are currently using, a game you migh! be playing, or data you are	Unity	A program used to improve or help the running of your machine. Programs which help to repair damaged disks are a good example of utilities.
ay-tracing	working on.	<b>V</b>	Often seen before a number after a program name (such as Protext v6.0) meaning "version" or "this edition". As programs age, bugs are ironed out, new features are added and the v number rises.
	The computer generation of real-life objects and scenes. You design your object, set up "lights" as if you were going to take a picture, apply other tricks and then leave millions upon millions of calculations. The results are usually worth the hours of walting for!	wordprocessor	A program which allows the typing, altering, correcting, spell-checking and printing out of the written word, be it a letter, article, or whatever. I'm using a wordprocessor at the moment to type his.
ead	What you're doing now, or what your computer does to a floppy (or hard) disk when you instruct	write	Your computer's storing of data on a floppy drive, hard drive, optical drive, tape streamer indeed,

# GAME OVER!

# DOGFIGHT

OK Fido! Underneath the fighting tree. Right now!

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### And finally... news about auns, Graham Taylor and, err Gloria Estefan?

Sensible Software are becoming known for simply producing "football games", but this is not the case because over the years Sensible have amassed a few games that would more

Moving away from the football, Sensible bring us Cannon Fodder. At your disposal are over 300 soldiers with different skills. You can choose a platoon of crack troops and send

There are 100 phases of action with 30 different missions

and five terrain types, including an English country village, the jungle and the Arctic wastes. Have you got what it takes to track down the abandoned helicopter in the middle of the desert and rescue Mr President from the enemy base before everyone gets blown to

smithereens by heat-seeking missiles Do you have the guts to negotiate Arctic wastelands to find the scud missile factory surrounded by treacherous booby traps? Have you the mettle to enter a heavily occupied sys-

# **Great Guns!**

the natives from advancing tanks?

If you answer "yes" to any of these questions then you will be an ideal candidate for Cannon Fodder.

from the veritable safety of an armchair. You can select a leader and tell the boys to follow him, or send in a lone sol-dier or a handful of guys with orders to only fire when fired

There are spot effects and spoken words galore! The graphics in Sensible's soldier-'em-up are small, but very well defined and look very impressive, as you can tell from the screenshots. Cannon Fodder will be available within the next couple of weeks. Prices have yet to be determined, but you can expect to pay around £25







# Games tips from Euro champion

Games players will soon be able to pick up hints and tips on how to improve their scores from a new video presented by Dominik Diamond, former presenter of Channel 4's

Power Play shows many of the techniques used by UK and European games champion Danny Curley, a product evaluator in the games software industry. The tips contained in the video work across all formats of home

computers and consoles and include strategic skills, joystick control, screen positioning and weapon techniques. The video will cost £10.99.

# HMV open world's largest games store

HMV have just opened the world's biggest computer and video games store and claim it offers games players the largest range of leisure software anywhere.

It has been named Level One and can be found on the first floor of the firm's flagship store at 150 Oxford Street, London.

Customers enter through a futuristic tunnel which opens into a huge floor featuring surround sound, a video games challenge area and mood-altering lights.

The atmosphere of the store

changes depending on the time and day of the week

During mid-week lunch-times, for example, the mood is soft and relaxing but on Saturday's when younger buyers visit the environment is "fast, brash and hypnotic".

Customers are able to play latest games in a challenge area where up to four teams - eight players in all - can compete against each other simultaneously.

It is expected that around 200 major contests will be held every year, with each lasting between two and four hours. Anyone can play and there are T-shirt prizes for winners. "Level One offers the greatest choice in the most

fantastic retail environment," says David Terrill, the company's marketing director.

"It underlines HMV's commitment to this expanding market and clearly signals our intent to become the UK's premier games retailer.

The company plan to have games departments in more than 40 stores - nearly half their chain - by the end of the year.



# **Immortal Gloria**

Gloria Estefan will be celebrated with a permanent tribute at Madame Tussauds Rock Circus in London in the form of a unique wax bust to be sculpted by the renowned Madame Tussauds sculptor Paul Bainbridge.

Gloria recently had a sitting at the world famous Madame Tussauds studios in London where exact measurements were taken with calipers and detailed photographs from all angles, which will be used as reference material for the sculptor.

Gloria amazed at the attention to detail said: "Before the sitting I never knew exactly how far apart my eyes were and I never realised just how many measurements one person can have.

"It is a pleasure and an honour to be included at Madame Tussauds Rock Circus



and I'm really looking forward to returning to Rock Circus to see
the completed sculpture."

This honour has been given to Gloria in recognition of her phenomenal world-

This honour has been given to Gloria in recognition of her phenomenal worldwide success and popularity as a recording artist including sales of over 50 platinum albums worldwide.

Gloria, a daughter of Cuban immigrants, is regarded as an ambassador for all the Americas and this latest tribute adds to along list of awards including cement impressions of her hands and feet at Hollywood's Hall of Fame. The sculpture will take six months to complete and Gloria will make a special trip to Landon to urweil the figure.

You may be thinking about what all this has to do with ST games. Well, the answer is absolutely nothing at all, but we at Gamer thought you'd just like to know. Hey, if any other international recording artists get the chance to be immortalised in wax. well be sure to let you know as soon as it happens.

The Return of Mr Turnip Head

In June last year, Graham Taylor's Soccer Challenge was released to great reviews and entered the Gallup Top 40. Despite the national squad's rocky performance, Soccer Challenge continued to be a top seller, peaking at number 4, and was still in the Top 40 this May almost a year after its original

This is no mean achievement because let's face it, Graham Taylor wan't the most popular man in England back then. In fact, I do believe he is on the Top 10 list of the most hated men in Britain, but hey, Krisalis rode the storm of hate and produced a rather good football management simulation.

They are now about to release the game on their Buzz budget label for a meastly price of only £9.99. The inclusion of the Premier League, the three divisions plus the GM Conference all contain editable squads with real player names along with a host of other features.

All these factors make Soccer Challenge more than a match for similar simulations being offered for twice the price and it's a right bargain if ever I saw one.



# **INNARDS**

# And it's goodbye from...

# REVIEWS-REVIEWS-REVIEWS

Take to the skies in your Sopwith Camel, as you take on the might of today's modern aircraft in MicroProse's latest flight

simarama

PREAMLANDS

Tormlands, Ishar and Transarctica have all been compiled into one fantastic pack courtesy of Daze Marketing. You



# REGULARS-REGULARS-REGULARS

CHEAP SEATS .....80

Starved of decent games because you can't afford them?
Well, fear not because look at all these brilliant bargains!

CHEAT MODE:

ZOOL ......83
Oh yes 'tis the complete guide to Gremlin's platform

romparound! What would you do without us?







all happens. Big decisions are made on the tactics screen

ootball is not a funny old game – in fact there's nothing tunny about it at all, although it has to be said it's far more humorous on a computer than

an real tite.

All soccer die-hards will be looking at the page now with their faces a mixture of outrage and amazement. So, to validate such an outlandish statement I'll have to justify it.

How many of you out there in the real world have in your dim and distant, or indeed current life, been involved in what is termed as amateur football?

Sunday League, as it's better known, is where most of us finally realise we're not going to make the England squad and resign ourselves to the fact that we don't possess a Moradana-like touch.

Subsequently we lapse into some poor footballing habits and start working out in a different way. Training starts at 7pm sharp in the Stud and Whistle where you meet up with Gazza, Bazza, Sniffa, Frogga, Psycho, big Dave and the rest of the squad.

By nine o'clock training's well under way,

Sniffa, the team's excrement expert, has already filled a pint pot and his jeans, to jubilant cries from the rest of the squad.

At 9:45pm, Spud O'Reilly, manager of the team, stumbles into the bar. Eleven pints of Guinness have not stood him in good stead and within five minutes he has caused a brawl for vamiling at the Salvation Army's Warray representative.

As the dust settles the last of the squad are ejected and lie prostrate on the powement. However, being the keen hardened pros they are, the lads vow to train on and the Dog and Lamp Post is only around the corner.

As closing time looms the team push themselves to the limit with a range of interesting exercises. These range from Last One to the Bar is a Girlie Puff, through to Fizz-Buzz and Two Fingers.

Next morning at ten, Spud stands in the cold morning air waiting for his team of primed superhumans to arrive.

Tillee marches repilly towards kick-off, the opposition have arrived, changed, comploned so the red and till buff he squad are. AVCI, I've minutes before kick-off Bazza streeches into the car park in his sporty XII and close. Out dimb the missing players all look-ing the worse for ware from a night on the warrang side of a police cell. There follows a frenetic exchange of opologies, kit and bown dis a sport is the in boart the referee's fine. for late kick-off. On the stroke of eleven, The Butcher's Offal 1st XI stride forth into sheets of rain and the smell of Ralgex and curry.

There then follows 90 minutes of bonecrunching braying, as 22 mules wobble around in a foot of mud, swearing, fauling and sweating last night's training session out of them

or them.

Fortunately, this form of soccer is a
Wembley's-length away from European
Champions. Ocean's latest foray into footy
simulation puts you right in the subdimarks of
for the name suggests European foodball.

(as the name suggests) European football.

The first thing to say about Euro Champs is that although it's basically a football title to play against your ST or a few mates, there's more to it than that.

For one, EC gives you the opportunity to make tactical decisions about your players

Can you kick it? Yes you can!
Well you can waggle your
joystick, with Ocean's new on
yer 'ead-tastic footy frolic

# EUROPEAN

6 H3 H3



The overhead view gives us a glorious view of the Manchester derby from the Michelin balloon. Here we see donkey Quinn convert a David White hoof, with you've guessed it his head

before the match. Employing a very simple system, you can decide how your players will move on such things as corners and goal kicks. You can implement a heavily defensive system (a la Manchester City) or thrill the crowd with wing play and overlapping full-backs (like Villa olways do).

Within the main mouse-controlled icon menu there are more options than Kevin Keegan has curly ringlets. The choice is yours to decide from every top flight club term the main because within Furces.

from the main leagues within Europe.
You can after the pitch, introduce wind,
give the ref a tolerance for showing
funny coloured cardboard, play
in league or cup, and that's
just the beginning.
Once you've

selected another

your players attributes, opt for equal skill within your squad or set individual levels of skill for each player. This is very handy for the custom teams option, so you can put yourself up front and can give yourself loads of skill. After you've pondered over the alterna of choices on offer you might active.

ally get to the touchline.

The play itself is very reminiscent of Emlyn Hughes' International Soccer – this is because they've both been programmed by

Audiogenic.

European Champions differs from rivals like Kick Off and Sensi Soccer in its graphics and presentation. For one, in EC the sprites of the characters are a lot larger and detailed than those in either of its rivals.

The characters being larger means that unlike Sensi you only get a portion of the pitch on your screen at one particular time. However, a radar gives you an overview of

the positions of the players and the player in possession. This is the kind of hoal Lood do with on a cold Sunday morning when a 17° stone abothoir worker is bearing down on me. The other thing to mention is that to all intents and purposes EC is two games, because you can view play from overhead or the contemporary horizontal left-right

The play itself takes a little coming to terms with. Euro Champ uses a slightly different system to other footy titles you might have come into contact with previously.

have come into contact with previously. For one it contains an automatic comer, throw-in and shoot system, which takes you a little by surprise of first. This may sound little add, especially shooting, but it does produce some spectacular finishing. It's also worth pointing out that auto-shoot can be overridden.

overraden.

With an auto-throw and corner system it also means that while a computer player is taking the throw, you can control a player the throw will be directed at.

Passing also has some rather fresh approaches to it. For example "ping-passing" enables you to pick out a player, on or off screen, for a

precision pass.
When you do
finally manage to
convert the ball into
the back of the net, you
also have a full video
replay at your disposal to
view your triumphs and

onalyse your mistakes on.
Once you've mastered the control system, which at first renders the play a little alien and gives a slight feeling of being out of your con-

trol, EC is really very playable.

The graphics are smort and once you're accustomed to the control system European Champions is a really enjoyable joystick jape against mates or the computer.

It's always going to be tough to compare EC with such legends as Sensible Soccer and meeters like Kick Off, but it has to be said that while Euro champ has only just turned pro, it's straight in the first team and quite capable of holding its place.

With the variety of options and different competitions available at your fingertips, European Champions will keep you on the attack well into injury time.

SIMON CLAYS



# CHAMPIONS

Ever fancied playing Quantum Leap with 80 years of flight technology? Well, now's your chance to take part in the noble art of the Dogfight



ow and again something gets itself released for the ST that quite simply is to complicated for us mere mortals at Gamer

In this case it's Dogfight and with a name like that, it doesn't come as much of a shock to discover that it's the latest release from the kings, neigh gods of the simulation racket,

Billed as absolutely huge by their PR-type sausage Jason "Take That" Dutton, we felt that reviewing this product should be handled by someone who has both respect and experience from the fiving and buying public.

oy someone who has both respect and experience from the flying and buying public.
So it's a great honour for me to hand you over to flight simulation's greatest stant and fighter pilot Spunky Plustours, who we now join on the runway.

"Well hello, It's your resident fighter ace, good old Spunky here, who today sits before you at the controls of one of my all time fave kits, the bally

Sopwarth Camel.

"Before we go any further
I should just like to say a big
hello and cuddles to Ginger
and Chalky who I know will
be in the mess room of our
club right now enjoying a bit of
a lipple."

"Anyway, you join me in glorious sunshine with blue cloudless skies, so it should be a spiffing flight with some super rough and tumble against me old arch rival the baron. I shall now toxi down the tarmoc and get my kite off terra firma."

So saying, Spunky guns the engine on his beloved Sopworth and waits for the crackle of

### The dirty dozen

#### The Sopworth Camel

Type: Single seat bi-plane fighter, escort and light bomber

Performance: 170kmh/13,000ft ceiling
Weapons: Twin .303in Vickers machine guns
generating 200rpm
Notes: A fearsome fighter in its day with arrest





#### MkII Supermarine Spitfire

Type: Single seat, single engine fixed wing

Performance: 590kmh
Weapons: Eight wing mounted .303 machine
guns, each capable of 1200rpm
Notes: The prototype was winner of the
Schneider Trophy air race in 1929.

Following typical government indecision it wasn't until the inevitability of war that the Spithire went into production. Its principle role was to take out fighter escorts and remained in production throughout the whole of World War III.



#### The Fokker DR1

Type: Single sect triplane fighter
Performance: 166kmh/14,000ft ceiling
Weapons: Twin. 312 MG08/15 machine guns
at about 600pm
Notes: The Red Barons' favourite plane it has
great manaeuvrability despite early



#### Messerschmitt Bf109E

Type: Single seat, single engine fixed wing flighter Performance: 570kmh/34,450ft ceiling Weapons: Two wing mounted 20mm MGFF cannon and two .312in engine mounted machine

Notes: Having filled a multi role in the Spanish Civil War, the 109 became immensely popular. At the outbreak of WW2 the Messerschmit became the principle bomber support fighter.



#### F-86 Sabre

Type: Single seater fighter bomber Performance: 1,091kmh/45,000ft ceiling Weapons: Six M-3 machine guns at 1250r

Weepons: Six M-3 machine guns at 1250rpm Notes Following the demise of the propeller, in 1949 the first F-86 appeared. Different to other early tjes it employed swept wing technology, which allowed it cross the sound barrier. Most active in Korna, once rockets were introduced in become the first modern jet flother.



#### Mikoyan-Gurevich MiG-15

Type: Single seat fighter
Performance: 1,075kmh/51,000ft ceiling
Weapons: One 37mm cannon and one 23mm

Notes: After the fall of Berlin and the captured rocket technology the race was on to develop in faithful











the ignition, and finally the propeller jumps

Minutes later, Spunky is airborne. Teeth gritted, flying hat in place, scarf flowing and moustache perfectly groomed, Spunky launches into his best Raymond Baxter-type air show narrative:

"The Camel has the glorious distinction of having destroyed more enemy craft than any other combat plane. I myself have been responsible for a good many of them I can tell you. Developed in 1916 it is capable of 170km/h and can climb to a... I say what the bally nora's that?" Spunky's questions are soon answered as

a glistening metallic dart booms past his balsa wood flying machine rocking it to its very fabric. The noise is tremendous as inky's gritted teeth and steely eyes turn to

ship? What's going on air traffic control? Am I supposed to take on that wretched contraption? Where's the bloomin' Fokkers...

Don't say El Barony is in that thing?"

Before Spunky can ask any more of the many questions that are swimming around his confused brain, he notices in his rear view mirror a rather ominous sight. Said unidentified craft is on his tail and clasing at

an incredible rate of knots. As Spunky attempts to ou craft as only a wily fox of his calibre can, he

notices something that stops him in his tracks "Car blimey, that silly sausage is letting off fireworks at..."

But before he can finish this rather premature and foolish statement, three metres of



Left a bit... right a bit... left a bit... It's the golden shot!

#### McDonnell Douglas F-4J Phantom II

Type: Twin seat all-weather interrentar Performance: 1.500kmh/60.000ft ceiling Weapons: One 20mm Vulcan six-barre machine gun. Four belly mounted AJM-7 Sparrow air to air missiles. Four AIM-9 sidewinder air-to-air missiles. 18 x 130mm Zuni rockets. Four AGM Maverick ground-to-air missiles

Notes: Following the hysteria generated by the Mig-15 (normal US policy) the F-4 was introduced. Undergoing a variety of changes it gave Soviet pilots a hell of a shock in Vietnam, and even nov refuses to retire from active service

#### Dassault Breguet Mirage IIIE

Type: Single-seat multi-role fighter bomber Performance: 2.350kmh/can reach 36.000ft in

three minutes Weapons: Two 30mm 5-52 cannon. One Matra R.530 Radar/homing AAM. Two R550 Magic AAM, 18/36 Matra RL F2 rockets Notes: The Mirage in all its forms, is without a doubt one of the most successful fighters since

General Dynamics F-16A Fighting Falcon Type: Single seat fighter bomber

Performance: 2.090kmh/60.000ft ceiling Weapons: One 20mm M-61 multi-barrel

machine gun. Four AIM-9 sidewinders Four AGM-65 Maverick missiles. 18 Mk4



WWII. It was the first fighter to reach Mach 2 in level flight yet cost remarkably little to manufacture

#### MiG-21 Fishbed

Type: Single seat daytime fighter Performance: 2070kmh/59,050ft ceiling Weapons: One 30mm under belly cannon Two/four K-13 Atoll air-to-air missiles Two/four AATO air-to-air missiles. Notes: Frequent apparent of the Phantom, the

MiG-21 has a Mach 2 capability and was an excellent combat aircraft



#### **British Aerospace Sea Harrier FRS1**

Type: Single seat ship based multi-role V/STOL

Performance: 1.586kmh/over 50.000ft ceiling Weapons: Twin 30mm Aden cannon in ventr packs, Two/four AIM-9 Sidewinders, 18/36 SNEB 68 rockets

Notes: Developed in a time when it was anticipated that one of the first casualties of war would be the runway, the Harrier with its Vertical/Short Take Off and Landing capabilities took care of this problem



### Notes: Designed largely as a successor to the

FFAD Parket

ageing Starfighter, it soon became apparent that the Falcon was also worthy of taking over from the Phantom. The F-16 has amazing manoeuvrability and at the time of its introduction could out fly any thing in the World. In fact, it can even better the awesomely powerful MiG-25.

#### MiG-23 Flogger B

Type: Single seat all weather interceptor Performance: 2,445kmh/55,000ft ceiling Weapons: One 23mm twin barrel machine a Two/Four AA-8 Aphid missiles. Two AATO Advanced Atoll. Two AS7 kerry and 12 57mm ground attack missiles

Notes: During the 60s most Air Forces come to the conclusion that the multi-role aircraft was

the way forward. The US unveiled the F-111 with its variable geometry wings, ha financial and design problems the F-111 was never the success it was inte



ON SALE

the finest US hardware, the AIM-9L Sidewinder laser-guided missile, have snaked into the rump of Spunky's ill-begotten

fuselage.

There then follows a real firework display as bits of Spunky and the Camel descend

as bits of spunky and the Camei descend earthwards to raphurous applause and cries of "Bravo!" from the ground crew. Well, not all of Spunky has been recovered as yet, but we're reliably informed that the will live to fly another simulator span

# A pilot's tale



Meet Spunky Plusfour's entrepid airman from WWI. Here we see Spunky keeping his eyes peeled for the enemy



Oh, no silly Spunky! that's not his plane, that's a Fokker



Meanwhile unbeknown to Spunky, top ace Chuck Spudwater roars in on his six and releases a full load in his direction



A direct hit! Chuck looks on as Spunky spirals into a nose dive



The plane explodes, but far from there being bits of Spunky everywhere, the lucky blighter bails out and floats to earth

after all, he is only a computer-genera

Anyway, Spunky's endeavours beautifully illustrate the whole concept of Dogfight, which is to allow you to engage in aerial combat in a ronge of jets and planes which

span an era of 80 years.

The first thing to be said is that Dogfight marks a departure for MicroProse. For the first time they've swung away from the accuracy angle which they've made their benchmark, and developed a more thrills-and-

spirs run simulator.

In Doglight you are presented with three main options which decide what type of flight of fancy you are going to take part in.

The first choice for you to deliberate over

The first choice for you to deliberate over is whether to engage in Duel Mode. This is possibly the quickest way to get airborne

and taste air combat.

In Duel Mode you are provided with a choice of six historical eras and two typical opposing craft from that time. You can for example, choose to be – like Spunky – and take on the Hun in your Sopworth Camel.

#### **FALKLANDS WAR**

Alternatively, career forward in time and re-enact the Falkland War or the Syrian Conflict in more modern jets like the Harrier or the F-16.

The other smart thing about Duel made is that you can start your flight at varying midair tactical positions, so it serves as fine practice for all the rookies.

The next option for your perusal is the What IR mode. This option allows you to engage in combat to the death in aircraft from different times. This means you can pit your wits against a MiG-21 from the 50s in a World War II Spitfire.

In all there are 12 different planes for you to experiment with and you're not just limited to a one-on-one confrontation. Once you start to get to grips with controlling the planes and gain confidence, you can take on up to five nemy craft at the same hime.

The other option for you to scratch your chin over is where on earth you are going to carry out you reen'il freas. You can choose from seven different worldwide hot-spots including Vietnam, Korea and of course the hottest spotties of them all, the Middle East.

As if that wasn't enough, there's yet

another option which is actually the very core of Dogfight. The Mission option allows you to enact full-blown scenarios from all of

#### Let's have a sit in ver cockpit

This is the old cockpit.
Notice the walnut and
leather finish. Relax in the
splendour of the
Chesterfield seat while
glancing over the classically-styled clocks, before giving your jewel-encrusted
stick a good pull





This is the new rock-a-doodie-cock-pit. This model comes with air-abg, contral lecking, uncomfortable Recaro synthetic plastic smelling seats, lots of useless Ford dials like Turbo-boost, stereo that jams your tape in forever and a tape holder that automatically turns your tape in for the Best of Queen after a week

the contlicts and warness previously described. In the Mission option you also have the choice of deciding what type of mission to embark upon. Perhaps you'd like to patrol around the Dover coast defending our shores from the might of the German Lufwaffe? Conversely you may prefer the

blood and thunder of a search and destroy raid deep in the Korean jungle.

Overall it's very hard not to be impressed with Dogfight. It's absolutely huge in proportions and initially there'll be plenty to keep you occupied.

With the number of missions to choose from and the variety of scenarios to enjoy, I'm not sure whether you'll ever need another flying agme.

Graphically Doglight is rather good. The planes have quite a lot of detail about them and even feature such luxuries as wing markings. The only sacrifice I noticed was in the ground detail, but on the whole this does not affect Doglight's playability.

On the whole the planes move accurately

as you'd expect them to. As usual with MicroProse games, the horizontal screen updates are quick and smooth and give an impression of flight.

There are also some nice little extra touches that make Dogfight that little bit sweeter to play. For one you get more enough external angles and zoom facilities to muck about with. On Dogfight, however, you can also exercise this whim on your parachuling pilot as he floats to the ground.

Another nice touch is when you fiv at the

sun you suffer sun blindness and the screen goes white as you lose vision. Add the customary configuration screen, the normal phone book size manual, and a modem link up for head to heads, and you've quite a lot of simulator.

Dogfight may not find too many friends within the purist flight simulator club because of a few short-cuts MicroProse have taken to

make it more playable.

For example, the majority of jets have different head-up displays; for ease of use

these have been standardised.

However, if you're not too bothered about slight artistic licence and want to enjoy a very fine flight simulator that's full to the brim with excitement and action, then Dogfight's definitely the one for you.

SIMON CLAYS



Take a quantum leap back in time and become that butch chappie the Red Baron

A Harrier cruises over a blue zig-zaggy bit



Developer ➤ In-house Disks ➤ 3

HD Install ➤ Yes



This is one of many options screens you can select... erm options, match, teams or watch a video

ugby has come a long way in the public eye over the past few years. The image of the rugby player has been dramatically enhanced through events such as the Rugby World Cup and via players like Messrs Carling and Guscott.

Gone is the image of 30 fat blokes charging at each other like bulls on a field of mud, although this admittedly still happens in many of the Sunday morning leagues, where most of the competitors are still full to the brim with lager from the previous night.

To gain a place in the squad you must have a recognised talent for alcoholic consumption, a taste for human flesh, an automatic cut out system which gives total resilience to pain and the neck of a bull terrier.

Fortunately for the gaming public, Audiogenic have not based their Rugby sim on this form of player and have instead decided to concentrate their efforts on the more Atlantean form of player

The first thing you're probably immediately get. But what you probably don't know is that

Audiogenic are also responsible for European Champions (featured in this issue, but under the Ocean umbrella) and the similarities are blatant if you examine the menu option screens. Being the older relative of Euro Champs, I'm

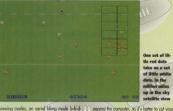
presuming this menu system was something that was developed back in late 1991 when Rugby got its first full price cap - sorry folks, can't remember that far back into the annals of software history.

The main thing to say about the options screens is that they are extremely user friendly, especially as they are so in-depth. From these screens you can select everything from the pitch type through to the amount of wind (this has nothing to do with how much curry your players have consumed).

You also select and edit your squads and take part in practically any competition plausible. For example, you may wish to become the All Blacks in the World Cup and edit your squad so you and all your mates can get their walnuts pulled in the scrum

Menus also give you life or death decisions about action replays, the choice of 2D or 3D

Swing low sweet chariot, coming to take me home... and so on. It's time for an Eddie Waring up and under in Audiogenic's latest rip-vour-ear-off Rugby simulation



One set of little red dots take on a set of little white dots, in the up in the sky

iewina modes, an aerial blimp mode (which has nothing to do with a fat bloke with a cam-

corder in a helicopter) and a series of action replays. Action replays being the things that they

are, you can toggle them on or off, especially if you're playing two-player mode and your mate just scored a match-winning try. OK, so it's got more options to alter the lay than you'll ever need, but how does it

play? After all, Rugby is never going to be the most easy simulation to convert

The rules for one thing. I don't think some of the people involved in the game were fully aware of the rules, so are are we unsuspecting

novices supposed to understand immediately them? Play is fast and frenetic, especially satellite view

teeth against a friend in the two-player mode. Rugov World Cup features all the elements of the real McCoy you'd expect. Whether it be offside or knock ons, they're all featured. There are also a certain amount of special plays for you to select automatically at such things as

line outs and scrums

As well as all the technical aspects to Rugby, this simulation also features injuries. What this means to you and me is that as your player is more and more involved in the match, so his energy levels wear down and his

likelihood to sustain an injury increases. Graphically, WCR is nothing outstanding but it manages a level of competence and clarity which makes it playable. Soundwise it's not



Hey there you big chaps, any chance of an unfriendly?

a "sweet chariot", but it's no fumble and the sound doesn't detroit from the game like some ST titles manage.

As full time approaches and the claxxon is about to sound, it has to be said that World Class Ruaby isn't a bad conversion at all. In fact it's very playable if you know and understand the rules of Ruoby.

Unfortunately not everyone does, so I've a very strong feeling that it'll only appeal to the enthusiast. The greatest criticism I have of the title is that Audiogenic didn't include any rules with it. Bearing this in mind, what hope has the mug punter got of understanding what's

Still at the budget price of £14.99 it might just be worth rubbing the Ralgex on and mixing it up with the big scrum half

SIMON CLAYS





HD Install > No

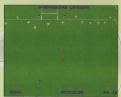
Size > 1/2 meg



Oy, mate! watch where you're sticking your fist will you?



Bah, 150 stone of muscle and still the little weasel scores a try



The tight curly locks of Jonathan Webb attempts another conversion, in super-special sunglasses 3D

# DREAMLANDS

Do you play full pricers all the time? Well, now you can just wash and go with this marvellous threein-one compilation bundle from Silmarils



AUDIO

00000000

DIFFICULTY

LASTABILITY

Strive to become the Storm Master and take control of the powerful

#### **Storm Master**

This is perhaps the weakest title in the compilation and somewhat poles when compared to its bundle partners. In this arcade/strategy game you get to harness the power of the winds lithat's begging for a schoolboytype pun) in the land of Eolia as you strive to become the Storm Master.

The Storm Museu.

Ealia is in constant conflict with its twin island,
Sharkaania, where the winds are the masters of natural harmony. The reason for the war has been forgotten long ago, so you'd think they'd just shake and make up, but that wouldn't really make a good computer

product.

You have been appointed by the Council of Seven to take upon the task
of Grand Magister of Eolia who previous applicant was viciously murdered
only days ago.

Your goal is to loot and destroy seven enemy cities and thus cause the

fall of Sharkaania, but the only snag is that your enemy is trying to do the same to you.

Although it is an arcade and a strategy game, the emphasis is on the latter. The graphics are adequate and the sound is reasonable. If you like this type of game then I suppose you might have already bought it, but if you haven't then you'll be satisfied with it in the accomplishing.

If you don't like this type of thing then there's no harm in chucking it straight in the bin and concentrating on the other two far superi-





Ishar is regarded by many as one of the finest RPGs you can buy for the ST and was given generous marks by the various computer magazines. This Silmanils adventure is heavily influenced by Dungeon Master, but that isn't such a bad thing.

The graphics are perhaps some of the finest seen in an RPG and really give the whole product a polished and professional feel.

The action centres around the exploits of a band of five brave and heroic adventurers as they try to kill a shady and powerful figure called Krough.

Krough, who has slowly grown rich

and powerful and built a temple (the Ishar) on the Kingdom's borders, threatens the world of Kendoria. The world has decided that you and your band of warriors should rightfully dispose of him.

Ishar – Legend of the Fortress boats over 100,000 locations and hundreds of enemies and characters. The game uses a flexible, uncomplicated and user friendly control system which makes it simple and

fun to use.

This is a truly great adventure and one that any half-decent RPG fan could not do without. It may look and play like Dungeon Master, but Ishar is terrific in its



Roam around with your merry band of adventurers in this fantastic RPG

own right and is by far the best piece of software in this Dreamlands compilation. Ignore it at your peril!

### **Transarctica**

It's not every day you get up out of bed and find that the planet Earth has been completely frozen over! Well, that is what has happened in Transarctica. The sun can no longer be seen and has become a mystical heavenly body.

body.

Apart from the re-emergence of the woolly mammoth, the only means of transport is the steam train. The Viking Mulian have complete control over the immense railway network and thus they monopolise all means of transport of the mammoth of the sun. Carloss beings who seek out the old myths of the sun.

Tou pay me part of Chief of the Ambivolenist, a set of curious beings who seek out the old myths of the sun. Your mission is to find a way to restore the sun to the world. The Viking Union is none too pleased about this fact because if the sun reappears they'll lose power and a whole lot of money to boot. The Ambivolenis' greatest victory to date is the theft of one of the Viking Union's greatest trains, the Transcratic.

To progress successfully you must build up the size and translat of the American's Additional waves are to

progress successfully you must build up the size and strength of the Transarctica. Additional wagons can be bought and extra money can be gained by trading. You must also avoid the battle trains of the Viking Union and other hazards such as wolves. Transarctica is really a VISION
OCCOCCO
AUDIO
OCCOCCO
DIFFICULTY
OCCOCCO
LASTABILITY
OCCOCCO
OVERALL 82%

trading game that contains only a small hint of arcade action. The graphics are excellent and the sound is odequate enough. I guess that if you like trading games then you'll love transactica. It is well worth spending a few hours on and is a worthy inclusion into this compliation.

Janathan Maddock



wastes in your big engine and keep look out for woolly mammoths

Publisher ➤ Daze

Developer ➤ Silmarils

Disks ➤ 5

Price ➤ \$29.99

HD Install ➤ N/A



#### Simon's selection

ere were no surprises after the release of Spielbera's follow shortly after. Even though the film suffered some

Spielberg in his infinite wisdom has totally forgotten the original JM Barrie story and made his

In this version Peter Pan is set in modern America and has done precisely what he's not

So, imagine his surprise when a fairly turn up on his doorstep (mind you it is set in New

Anyway, Peter's been so wrapped up in his work as the local abattoir's inspector of all

things runny and internal, that he's neglected his own kids.

In the meantime. Captain Hook has been in and made it away back to Neverland with



Peter and Tinkerhell check out someone's Levi's, Hmm. there must be a rude gag in a name like Tinkerhell

#### Hook

The Hit Squad • £9.99

Pete's kids. The basic plot is that he must travel with Tinkerbell back to Neverland and rescue his kidlets.

On the way he must rediscover his magic powers and wear a pirate's costume so that folk in the land of Never will take him seriously

Playwise. Hook is very much in the Monkey Island vein with one difference - it's not as good. Graphically it looks really pretty, having a very car-

toony feel to it. But both in the plot and the play let it down. The basic problem is that there's just not enough substance to it. While some of the puzzles take a little working out, but through interaction with the

characters, it's all pretty cinch to suss out. Largely, Hook's not too bad. Its size limits its com-

plexity, but it looks fairly cute and fluffy. Really it's the kind of purchase that the younger end of the ST market will enjoy and probably not involving enough for the big





Hey! You baldy, aren't you in Frankie Goes to Hollywood? I suppose you're the crimson pirate

I don't know about you, but I love a good racing game. Yes, speeding around corners at death-defying speeds, burning rubber up the straights, skidding through the chicanes and taking the

owing onequired tag: "You get all that, but there are rules to be kept to if you're dri-'You get all that, but there are rules to be kept to if you're dri-ring a lawsy Familia Cher racing ara. What I want is something more legal, at if if y chance what should slop in my lap, but a opy of Crary Cars 2, and of an investible budget price as well. "You are at the whate!" of a referrial fall to smake a siden or racket which involves corrupt

licemen. You must travel through several states in America to chase and stop them.
You have to watch your speed though because there are honest police officers patrolling

**Crazy Cars 2** Fox Hits = £9.99

> some great chunky colourful graphics and is perfect for boy (or girl) racers who are feeling the need for speed. Titus's race-'em-up plays well, is easy to control and is surprisingly addictive. It may not be the best car racing game in the world, but for just under a tenner it is worth

the highways and they don't appreciate the sight of an F40 crossing their state at 200mph. When I said watch your speed I didn't mean slow down, I meant speed up because if they catch you it'll be game over, Crazy Cars 2 features



pig, I'm gonna shoot past you like my botty's on fire!



Life on the open road, la da da da di di

Oh no! There's a hole in my chez lounge, there's a rip in my armchair and worst of all my PVC Chesterfield makes a farty noise. This can only mean one thing, I'm in the Cheap Seats

#### Jonathan's selections

If you've never seen or heard about Monkey Island then you haven't been living on planet Earth! It is, in my opinion, a classic and one that your computer shouldn't be without.

You play the part of Guybrush Threepwood whose travels have led him to Melée Island in a guest to fulfil

his life's ambition to become a fierce, swashbuckling, bloodthirsty pirate. You direct Guybrush as he first explores Melée Island and then ventures on towards the mysterious Mankey Island. On Melée Island, Guybrush will have to prove himself worthy of becoming a pirate by completing the Three

Through the course of completing these trials, you and Guybrush will learn much about pirate life and local folklore.

For those not in the know, Monkey Island uses a very clever control system. By clicking on verbs and nouns placed at the bottom of the screen you can construct sentences to tell Guybrush what to do.

To move him around all you have to do is simply point the cursor where you want him to



go and click. It is all very simple and you can operate everything quickly without

There is no set way to complete Monkey Island - you more or less stumble over clues and puzzles as you progress.

Solutions are not always obvious, so its best to pick up everything that you can get your hands on. The graphics are brilliant, the animation is wonderful, combined they still put a lot of today's ST games to shame. One of the best things about Monkey Island is the humour. There are top-rate gags and puns from start to

finish and you'll regularly find yourself chuckling

along. Graphics, sound, playability and addiction levels go right off the scale where this adventure is concerned. Now is the time to buy Monkey Island because for just over £15 you won't get anything better for the rest of your life.







Is wrestling fixed? Yes, of course it is. It used to be a sport

with a slight undercurrent of entertainment, but now it's pure entertainment with a slight undercurrent of sport.

There has never been a good wrestling game for home

showbiz there is a good chance of someone doing a brilliant piece of software.

Ocean tried to do it two years ago with WWF Wrestlemania and failed, but they could so easily have succeeded. Ocean's grapple-'em-up featured various overdosed steroid freaks

grapple with the enemy. Starting with the Warlard and making your way through to the final

Each bout lasts a maximum of five minutes. During this time the match can be won by pin-

computers, but now with the introduction of WWF and

WCW and the ensuing star-spangled outlandishness and

from the world of all-American wrestling.

**WWF Wrestlemania** 

The Hit Squad = £9.99

ning the opposing wrestler to the canvas for a count of three

grapple moves, because you get a full repertoire of kicks,

All these can be performed by wagging your stick and by bashing at the Fire buttons at various opportune moments. This is where the problem with Wrestlemania lies. The control system is so difficult that you regularly get your head kicked in and lose. When two wrestlers start to grapple with each other, you have to waggle

your stick like crazy to see who gets the advantage To gain this advantage against the computer is easy, but against a friend it's incredibly dif-

You could become the undisputed champion Hulk Hogan or the hairy face-painted Ultimate Warrior. Or you could choose The British Bulldag, also known as a fairly ordinary guy with big muscles from Leeds who couldn't quite make it in the British wrestling ficult because you tend to be evenly matched, so it makes the game rather monotonor The graphics are really quite good with digitised pictures of the wrestlers involved. The ingame characters are quite well animated, too. Once you'd picked one of these so called "fantastic" wrestlers you had the apportunity to

The sound is fairly annoying and gets you reaching for the volume control. WWF Wrestlemania could've been quite good, but it isn't due to the control system which spoils everything. Even for just under a tenner I'd be hard pushed to recommend this to anyone except the very naïve or the dedicated WWF fan

against Sergeant Slaughter to win the Wrestlemania belt.

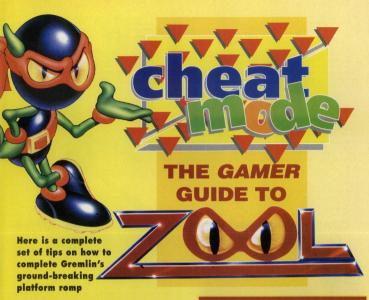
Mr Nanny! Ha ha ha ha ha ha. Suburban Commando! He he he he he he he. What a blanda baired lessio



The British Bulldog shows that true Brit spirit and cheats by smacking Mr Perfect over the head with a steel chair







#### **Sweet World**

#### 1.2

#### 1.3



#### Music World

#### 2.1

Look out for the small remote controls as they are the restart points for the music world. Use Zool's flying sword attack to destroy the speakers and gain extra bonuse

Jump up into the bell and you can use it as a shield to get past a lot of baddies, just press Fire while inside to break out. Directly above the first restart point (about a screen above) is an invisible entrance to the first shoot-'em-up bonus level.

The first piano you encounter doesn't appear to do anything, however if you play the Close Encounters tune you will enter the second shoot em-up level. For those who are not too sure what the tune is, jump on the coloured notes in the following sequence: Grey, white, black, red and green.

#### 2.2

It is very important on this level to be able to use the pianos, so take your time getting used to hitting the right notes. If you make a mistake, jump off the piano and move away a little then start

On the first piano you come across use the brown, yellow, red, orange and green notes to create a large note over the piano, jump onto this to enter a hidden room which contains bonuses and a new set of notes

Enter these notes on the same piano, brown, orange, green and dark blue to gain an extra life. When you reach the next piano (which is located at the end of the level) enter these notes: Red, yellow, light blue and dark blue. Another large note will appear, jump on this to be carried to the exit

#### 2.3

Try to keep going as fast as possible on this level as you don't have much time. On long runs use Zool's sliding attack to kill baddies. To kill the bass monster you must shoot the guitar while its eve is open. You must stay near the left edge of the screen dodging the lightning bolts and destroying the fruit that is fired at you.







#### Fruit World

#### 3.1

#### 3 2

Fruch mough the trist low right half was to gain bootuses. At the next tag iterations own (by a tree). Punch is for even more bossues. Continue on until you find a strist soft furl cans, bouncing on the lid will propel you up in the air to gain on extra life. To kill the boss you first have to shoot the alarm dock (which is indestructible) to wake the banana up. When altaked by to stoy to the left of the screen while shooting the

If you die while fighting the banano (a likely occurrence), you can get back to him from the last restort point by just running right and shooting as fast as you can; this should take care of all the enemies and keep Zool safe.



te, this is the first level isn't it? What is that carrot doing there then? Strange!

#### Tool World

#### ..

Watch out for the blocks of wood with nails in. These are the restart points. The darker shades of wood invariably lead to lots of bonus points. Go right from the start of the level until you come to the first wooden platform, take Zool to the top and jump left from the far left-hand edge of the wood to enter the third shoot-' em up level.

#### 4 7

It can be very hard to gain enough bonuses on this level, so try not to miss any you see, especially large groups.

#### 4.3

Quite possibly one of the hardest levels in the game. The best bet is to search the beginning part of the level for as many bonuses as possible as they get much more scarce the further way progress.

When you finally meet the boss monster go for his eyes as quickly as possible. Speed is very important here as the drill takes out the ground beneath Zool. If you've got the energy it can be worthwhile to take a couple of hits in order to get several attacks in on the drill.



What a too!! Fancy having an argument with a saw. Safety lesson No 1: Don't fight with things that will maim you!



#### Fair World

#### 6.1

Again the restart points are well marked and look similar to those found on level one. Try to et the hammer mansters thit the base of the bell machine and if you've positioned Zool corwest has will be corried marilly unwards.

#### 6.2

If you come to a dead end on this level then hang around for a while and you may well see a balloon come into sight which will carry Zool anwards. If you can't see where to jump next take the biasest iump you can because there may well be a platform some way away.

#### 6.3

If you see bousses you can't reach then sen' is a bullion in around to lift you yo. To complete the Zod around northins, sort if you and lose jumping on the red buttor. When on obstacle appears, walk onto the white button to jump over if, then revert back to jumping on the red buttor. When you have completed the mancher you will gain a roat of there lose. To destroy the first Doss (the end clown), stand on the first platform, duck down and then shoot him in his large central gain.

### Toy World

### 5.1

The restart points for this level are nice recognisable "hit" signs. Watch out for low, fas moving clouds and the tanks which will fire at you. Remember also that you can on strong the red and proper blacks, that have a contract.

Travel right from the start of the level until you come to the giant bonus panda. Jump onto the left-hand blue column and jump left, you should hit the hidden entrance to

#### 52

Very similar to level one. Basically just be careful and remember to use the restart point and you should find this quite an easy level.

#### 5.3

Be very careful about dropping down any gaps as they could well be spiked. At on soint you will arrive at an area containing several very similar looking holes. Drop down the sixth hole to progress. To kill the robot boss shoot at his head, by

watch out for when he opens his chest because then the robot will shoot back at you.



Leaping on top of some Meccano, Zool is faced with a clockwork thingy from,

# **Getting a FIX**

the rest of the news

IX - Falcon Information eXchange - is a new user group for musicians using the Falcon. It was launched at Midi Music Show in April and I've just received the first

The magazine, called naturally enough Fixation, is distributed on disk which means it can include programs and demos, too.

The first issue contains several

text files and two programs. There

are news and views on music

and Falcon-related issues plus a

complete list of all known

Falcon music programs which

FIX have kindly allowed us to

There's some technical info

about the Falcon's sampling rates

and Cubase Audio and a feature

which puts forward a convincing

COMPLETE LIST

# TENTER I is published on disk only, although we hope that future issues of Filmillé can be produced as hard cope plus a disk. If-millië is free to all FIX ambless and submissions are welcome lines

The opening page of Fixation, the disk magazine for mu with Falcon computers

going to be the new computer for musicians. It includes a plug for FOG - Falcon Owners Group which is for all Falcon users, not just musicians. Membership of FOG is £16.99 per year. If you



WinRec is shareware and offers an excellent introduction to direct-to-disk recording

want a sample, send them £2.25. The first issue is specially for non-Falcon owners so if you're thinking of going Falcon it may be worth a look. For more information, call FOG on 0275 843241. FOG has

lan Waugh on a new user group who really are fixing it for the Falcon, plus ten years of Midi and



WinRec lets you load effect types from disk and apply then during recording or playback

also started a Falcon BBS called Holodeck on 0454 317047 The FIX disk contains a demo of

DigiTape, the new hard disk recording program from CGS ComputerBild (081-679 7307) plus WinRec, a shareware stereo hard disk recorder.

Membership of FIX is £20 per year and looks like an excellent investment if you want to keep up with the latest music happenings on the Falcon. More from FIX on 081-340 1871





### The Midi story – ten years of progress

- It's ten years since Midi was developed and if the developers knew how popular it was going to be they would no doubt have included many
- But Midi has been developing over the years and continues to do so. Many of the features we take for granted today were not in the original spec. Here are a few of the more useful and popular ones:
- Standard Midi Files: they spawned a whole new industry of pre-programmed music files.
- · General Midi: we've heard a lot about this recently. Coupled with SMFs, it's probably done more to bring Midi and music to the masses than anything else.
- Midi Sample Dump: it's slow but at least it does let you transfer sample data from one machine to another
- MMC (Midi Machine Control): allows Midi to sync with audio tape.

And Midi is still developing. Other proposals include a File Dump which will let you transfer song data down a Midi line; a Tuning Standard which will allow alternate tunings to be used with greater ease; and the adoption of Sound Controllers which will let you change the tone of a sound.

For example, Controller 72 would edit the release time, Controller 73 the attack time, Controller 74 brightness and so on. I wonder what the next ten years will bring?

# midi and music ❖ emulation ❖ comms ❖ dtp ❖ business ❖ falcon

### Breaking thru into video

Last month I played couch potato and looked at Labyrinth's Notator and Cubase tutorial videos, I promised myself another stretch on the sofa this month to look at the Breakthru video. And I'm alad Ldid

It runs for 2 hours 27 minutes and is presented by one of Gajit's main men, Alan Ackers. Unlike last month's videos, Alan's presentation is very tight. He must be reading from a script although he's not at all stilted or wooden. If he made any mistakes, they must have shot the scene

The video begins with four introductory sections telling you basically how to set up your Midi gear and explaining what the program is about. This is followed by 12 lessons and tailed with a troubleshooting section.

#### INFORMATION

One of the problems with video manuals - certainly the main problem - is the fact that they simply can't hold as much information as a written manual. A complete video tutorial for a program such as Notator or Cubase would probably last for daysl

The Breakthru video, however,

does manage to cram in every feature of the program although in defence of the other videos, it must be said that Breakthru is considerably less complex than Notator or Cubase.

#### HIGH PRICE

However, the design team obviously worked out a script and stuck to it, squeezing in as much information as possible. In short - it's excellent!

The main stumbling block to success is likely to be the price. This is a far higher proportion of the cost of the program than the price of the other two manuals. Whether Breakthry owners will fork out around a third as much again for the video remains to be

However, if they do, they are certainly getting one of the best software video manuals around. If you can't learn how to use the program after viewing this you should take up train spotting.

Getting the most from Breakthru & Breakthru Plus costs £39.95. More from Labyrinth Video Manuals, Unit P3, Roe Lee Industrial Estate, Whalley New Road, Blackburn BB1 9SU, Tel: 0254 662096

### Yamaha go nuts over Sqyrrel

Yamaha have a good track record of supporting their products with software - free software at that! The latest release is Savrrel II which is a Bankloader/Manager for the QY20. It is designed for the ST and STF and runs in hi-res mode. It will run on the Falcon but sometimes parts of the screen do not update properly

It's based, of course, on Sayrrel I which was a similar type of program for the QY10 and the QY20 is - yes, you guessed - based on

It's essentially a portable keyboard complete with automatic accompaniment patterns plus a sequencer, all crammed into a box the size of a video cassette. The QY20 scores several points over the QY10 as it's much easier to use, has better sounds and more up-front

#### MEMORY DUMPS

Sayrrel II can handle two complete QY memory dumps (that is, up to 100 patterns, 20 songs and setup data) which can then be saved to disk. The main screen shows all the patterns and songs in one of the

You can move patterns around simply by dragging and dropping with the right mouse button, rename patterns and songs and sort them. You can see which patterns are used by a particular song and print out a complete list of all the patterns and

In the setup page you can edit the QY20's system configuration parameters such as tuning, transpose, keyboard zone, gate time, velocity and so on. Some of the parameters are shown graphically which makes them easier to edit

Sayrrel is rodently easy to use. The instructions are provided online within the program as a series of help pages and are very complete. It's an excellent program and it's hard to believe it's free. It's every bit as good as commercial software.

It was, in fact, written by Y-Not, who program editors for Newtronic. In short no QY20 owner should be without it

It should be available from all good PD libraries or direct from Yamaha on 0908 366700

The following is a list of all known music-related products for the Falcon, courtesy of FIX, in alphabetical order. It includes public domain software but not programs which were not written specifically for the Falcon other than the major players.

### 4I/4O • £399 •D2D Systems: 0223

Audio expander offering four inputs and four outputs plus SPDIF and AES/EBU digital in and

#### 4T/FX (including D2D Edit) • £299 • D2D Systems: 0223 421107

Four-track hard disk recording software with built-in digital effects.

#### Audio Fun Machine • Free from Atari This is the one that is now shipping free with the Falcon, although early purchasers won't have received it. Falcon owners should contact Atari for instructions on how to get it sent free of charge, along with MultiTOS and Speedo

Cubase • £299 • Harman Audio: 081-207 5050 Sequencing and scorewriting package.

#### Cubase Audio • £799 • Harman Audio: 081-207 5050

Integrated sequencing, scorewriting and eight-

### Falcon music products

channel hard disk recording package. Should be available as you read this.

D2D Edit • £150 • D2D Systems: 0223

Stereo digital audio editing software.

DigiTape Lite • £141 • CGS ComputerBild: 081-679 7307 Six-track digital recording.

### DigiTape • £399 (approx) • CG5 ComputerBild: 081-679 7307

Full blown version of DigiTape with waveform editing and 32 "virtual tracks" for editing purposes. SPDIF hardware for the DSP port is being developed. Should be available as you read this.

Trivial German PD program which lets you create "sound cites". A cite welcomes you with a message on boot up, but this plays sampled sound too.

#### MixIt Falcon . £49 . Intrinsic Technology: 081-761 0178

Four-input passive mixer for the Falcon audio input, with 1/4in jack inputs, L/R routing and sliding faders, enabling line level signals to be attenuated to mic level.

#### Musicom 1 • £49 • Compo: 0480 891189

Stereo hard disk recording with effects.

### Musicom 2 . £TBA . Compo: 0480

Hard disk recording with effects and SMPTE synchronisation. Still under development.

#### Notator Logic • £499 • Sound Technology: 0462 480000 Object-oriented recording and notation

system.

#### Planet . £TBA . Rhythm 'n Soft, France Sequencing software. Not yet available.

Protracker PD Tracker program.

SMPTETrack Platinum . ETBA . Barefoot, USA Sequencer.

#### SPDIO • £199 • D2D Systems: 0223 421107

Digital interface operating at 44.1 or 48kHz via SPDIF standard, for use with D2D Edit. Connects to DSP port.

German shareware stereo hard disk recording software

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# midi and music ❖ emulation ❖ comms ❖ dtp ❖ business ❖ falcon

ow that our ST-based "three-in-one" computer is up and running we need to ensure that the three environments integrate as smoothly as possible.

This is not a very important concern if your only interest in emulation is the ability to take work home, since there is no problem with disk formats - the ST and PC formats are virtually identical, and Spectre GCR handles Mac disks with ease - you may never need to cross the boundaries between the operating systems except for file copying. Most of us, however, would con-

sider that a waste as there are so many ways in which PC or Mac software can enhance your ST projects.

With a DOS emulator and Spectre GCR you have most of the entire software world at your disposal, so if your ST programs won't do what you want then there's always a good chance that a switch to one of the other two systems will give you the feature you are looking for!

#### VANILLA ST

With that in mind. I am going to draw your attention this month to some extremely useful Mac utilities. There cannot be many Atari owners who are content with a plain vanilla ST and we all accumulate dozens of little AUTO folder proarams, desk accessories and other utilities to make life easier, and much the same applies to the Mac.

There are literally hundreds of these little helpers available, and every Mac owner will have his or her own recommendations to make as to which of these are "absolutely essential\*

The utilities introduced on this page, however, are hand-picked especially for the Atari three-in-one. They are mostly desk accessories and control panel devices and work in a similar fashion to TOS desk accessories and CPX modules.

To install them, copy the files to



ST owners may be confused by the need to install fonts and desk accessories with the Font/DA mover rather than simply copying them to the boot drive. System 7 no longer requires this, but until Spectre GCR catches up with System 7 we shall just have to put up with it!

# Desktop desirables

the system folder and run the Font/DA Mover for the accessories. or open the Control Panel for the

Pride of place among the accessories must go to DOSReadA which enables you to read files from ST or PC disks without the usual detour via the Apple File Exchange or the Transverter. The files can be copied onto the Mac desktop or, if you open DOSReadA from within a Mac application, copied to the clipboard and then pasted straight into the current application

It cannot write to TOS and DOS disks and will therefore not make the Transverter completely redundant but is extremely handy when you suddenly realise that you have forgotten to "transvert" a text or picture file - no need to quit from Spectre, just click on the accessory slot and stick the floppy into the

DOSReadA can even automatically strip line-feed and carriage return characters from text files imported into a wordprocessor or DTP package. It is available from Software Diffusion Limited, 4 Hurst Lodge, Stanley Avenue, Wembley HAO 4JG

A useful companion program to DOSReadA as well as the Transverter is Imagery, a graphics file converter that handles most of the common ST and PC image formats and translates them into the standard Mac formats.

Imagery can be obtained from most PD and shareware libraries and is a standard application that is launched simply by double-clicking on its icon or filename A screen dump utility can some-

All Control panel devices can be config ured "on the fly" by opening the Control Panel and clicking on the relevant icon. Flash-It gives you the option to redefine the keyboard short-cut used to activate

times be the crude but effective solution when there is no other obvious way to capture an image in a standard file format and the best I know is Flash-It.

There is also a similar desk accessory called Camera, but accessories are not ideal for this purpose as they are locked out of certain situations whereas Flash-It. once installed, will work at almost any time with a simple, user-definable key combination.

More importantly, it will cope with screens larger than the standard Mac Plus monitor - such as the ST monitor which offers 20 per cent more space than those Apple portholes!

If that is not enough video real estate for you, try Stepping Out II. This is a virtual screen utility that will give you enormous worktops without any investment in hardware: particularly handy for desktop publishers and spreadsheet users as you can view the entire

It does this by redefining the

monitor screen as a window onto the desktop which moves ground the virtual screen as you hit the edge of the visible area. It works extremely well but can, of course, slow things down if you go overboard when defining the virtual screen dimensions.

#### POSTSCRIPT

Stepping Out is a commercial utility available from most Mac dealers, as is the Adobe Type Manager. ATM, which is also widely used on Windows PCs, uses standard PostScript fonts for the screen display, thus abolishing the need for separate bitmapped equivalents of your printer fonts and vastly enhancing the quality of visual control over your output.

ST owners, however, will derive an additional benefit from ATM when it comes to printing from within Spectre GCR. Since ATM will always scale the font outlines to take maximum advantage of the resolution of the output device. printed output produced with Spectre's ImageWriter driver looks much superior. The improvement is confined to text output, of course, as ATM has no effect on graphics - it is not display PostScript.

 Next month, a look at similar utilities for DOS and Windows.



Among the mass of desktop accessories and utilities available to Mac owners are some especially useful

for ST emulators. Günter Minnerup highlights some desirable little helpers



spreads side by side is one of the ben of Stepping Out. A bit slower than the hardware solution, of course, but still



Here's your opportunity to be entertained by the one and only Colin Curly

> year to develop. Colin Curly, one stormy night, finds himself sucked into his computer while eating his Quavers. In order to escape he has to solve a series of increasingly baffling puzzles taking him through 100 levels and ten Quaver zones

> > 2. How many levels are there

3. What is Mr Curly's first name?

in One Step Beyond?

Despite the considerable investment to perfect the animation, graphics and game play that make up One Step Beyond - if you don't manage to win a free copy, you can have the luxury unusual reduction in the price of a new release - One Step beyond costs only £19.95. "Don't be fooled into thinking that this is easy stuff." ST Action, September 1993

Push Over. winner of the Atari ST User Gamer Gold award

"If you are itching for a new refreshing puzzle game with tons of originality slapped in it, then I'd leg it down to the shops today and get Pushover,"

Gamer, Atari ST User

One Step Beyond follows on from the

successes of

#### Pushover, we've got five copies of One Step Beyond (one of the latest releases from Ocean Software) to give away free to the best five entries in this month's competition. One Step Beyond took almost a

As well as ten copies of the original

You can enter by calling 0891 543306 as many times as you wish. All you have to do is answer the very simple questions below. Try to avoid back

You will be asked to leave your answers together ith your name and full postal address including ostcode. Please speak clearly, spelling out any

1. How much does One Step Beyond retail at?

a £25.95 b \$19.95 c. £29.95

a. Kevin b. Christopher

a. 75

b. 50

c. 100

The disting data is December 31. The prize winner will be drown from all the cornet enties received and will be informed in writing within two months of the closing date. Result information may be obtained by writing to our offices. No cesh alternative to the prize is available. The editor's decision is final. No correspondence will be entered into. Cells are charged of 36 pp er minute cheap rote and 48 pp erminute or all other times.

A copy of the Pushover or One Step Beyond could be yours for a quick phone call, which should cost you under £1 at cheap rate. To keep the bill to a minimum try to avoid back-ground noise, which may necessitate repeti-



tion of answers.

# midi and music 💠 emulation 💠 comms 💠 dtp 💠 business 💠 falcon

# **Telephone talk**

AT Command	See Hayes Commands.		An error-corrected file transfer system, not much used on small
auto answer	Allows a modem to answer incoming phone calls automatically.	Kermit	computers but quite popular on larger systems. See also
	Mostly used by bulletin boards.		computers but quite popular on larger systems, see also
auto dial	Allows a modern to dial phone numbers for you. Older moderns		X/Y/Zmodem.
dolo didi	required you to dial the number manually using your telephone	local echo	Most bulletin board systems actually send every character that
	handset, then switch the modern online.		you type straight back to you, and it is that echoed character
	A common computer term which defines the way that the alpha-		which appears on your screen lithis is useful to confirm that the
Ascii	A common computer term which defines the way that the diplice		character has been received correctly at the other end). When
	bet and other characters are represented numerically inside a		talking directly to another modem, this does not happen, so it is
	computer. The letter A is given the number 65, B is 66, and so		advisable to switch on a local echo mode, so that you can see
	on. Since computers and modems can only work internally with		
	numbers, this coding is vital - but it is usually invisible to the		what you are typingMicrocom Networking Protocol number 4. This is a proprietary
	user, so you don't need to worry about it.	MNP4	Microcom Networking Protocol number 4, 111s is a proprietary
baud rate	The underlying rate a which a computer or modem can handle		standard which allows two modems to compensate for
buou ruic	signal changes along a serial connection – usually used to		any errors caused by noisy phone lines. Supported on many
	define the speed of an RS232 connection. Often you will find		modems, you may also find the term V42 used, which is a
	that a modern can transfer text much faster than this basic rate		slightly more efficient variation of error correction.
	that a modern can transfer text much taster than this basic rate	MNP5	Microcom Networking Protocol number 5. This is a proprietary
	by using special compression techniques. The term "bps" is gen-	mide3	standard for the compression of data (especially text) sent via
	erally more accurate - so talk about "a 9,600 bps modem"		moderns. It works a bit like the ARC archiver software, but the
	rather than "a 9,600 baud modem". See also bps and cps.		coding and decoding is instantaneous and happens within the
bps	Bits per Second: Refers to the number of "bits" of data that a		coding and decoding is instantaneous and happens within the
	modern can transmit each second. It is usually preferable to use		modem. The overall effect can be to virtually double your data
	this term to describe the transmission rate of higher speed		transmission speed. Supported on many modems, you may also
	modems, rather than quoting a baud rate. Note: Eight bits make		find the term V42bis used, which is a slightly more efficient
	moderns, rather than quality a bada rate. 140ie. Light bits trock		variation of data compression, giving nearer three times the
	up one byte of data. See also cps and baud rate.		basic data rate.
bulletin board	A computer system which you can dial into using a modem, and	Control of the contro	A mostly-obsolete method used to allow computers to detect
	leave messages and files for other users. Usually privately run,	parity	errors. If used, it can be either odd or even.
	there are however some larger commercial systems such as CIX		errors. It used, if can be either add or even.
	and CompuServe.	R5232	The industry standard which defines the serial cable connection
carrier	The tone which a modem sends down the phone line to indicate		used between your computer and your modern.
carrier	that it is switched on and ready to receive data. When another	start/stop bits	These are single bits which are sent before and after each byte
	carrier tone is detected from the other end of the phone line, the		of data. These are required on any RS232 system, but modems
	corrier tone is detected from the other end of the phone the, the		which use the MNP4 or V42 error correction systems will strip
	two modems can connect with each other. At this point, the		them off before sending the byte, thus making the transmission
	"Carrier Detect" signal on the modem is turned on, so the com-		around 20 per cent faster (since the modern has to send just 8
	puter knows it can now start talking.		bits per character, instead of a start bit, 8 bits of data, and a
checksum	A way to verify that data has been received correctly. Most often		
Circumstance	used within file transfer systems such as Xmodem.		stop bit).
cps	Characters per Second: This is a "real world" indication	V numbers	We've covered these in a previous issue, but briefly they are just
cha	of modern speed, and much more meaningful that the technical		predefined industry standards for modern-to-modern communica-
	bps and baud rate figures. For example, a 2,400bps modem		tions:
	bps and baud rate rigures. For example, a 2,4000ps modern		V21: 300 bps
	can transfer text at 240 cps (or often slightly faster if error car-		V22: 1200 bps
	rection is used). See also bps, baud rate and start/		V22bis: 2400 bps
	stop bits.		V23: 1200 bps receive and 75 bps transmit
CRC	Cyclic Redundancy Check: A more sophisticated type of		(mainly used for Prestel)
	checksum.		[mainly used for Fresier]
CTS/RTS	This is one type of flow control, which uses two special wires in		V27: Fax at 4800 bps
C13/ K13	a modem cable to indicate when the modem and computer are		V29: Fax at 9600 bps
	each ready to accept data. This mode can cause problems with		V32: 9600 bps
	older versions of TOS, but these can be cured by putting a small		V32bis 14400 bps
	patch program into the AUTO folder on your boot disk. See also		V42: Error correction system, also known as LAPM, compatible
	patch program into the AUTO tolder on your boot disk. See disc		with and slightly better than MNP4
	flow control and Xon/Xoff.		V42bis: Data compression system, compatible with and slightly
data compression	See MNP5 and V42bis.		better than MNP5
duplex	Defines how data is sent down the phone line. Full duplex allows	Para San San San San San San San San San Sa	perer man miners
THE RESERVE OF THE PARTY OF THE	two-way transmission, whereas half duplex only allows one end	word length	Virtually obsolete method to define how many bits make up each
	to transmit at a time. Most systems use full duplex.		character. Now almost universally set to eight.
DTR/DSR	Control signals used to allow the modern and computer to indi-	Xmodem	An older file transfer system, capable of sending a single file
DIR/DSR	cate that they are switched on and ready to start work.		and verifying that it has been received correctly.
- And Automotive Control of the		Xon/Xoff	This is one type of flow control. It uses two special
error correction	See MNP4 and V42.	Aon Aon	Ascii characters to tell the computer at the other end
flow control	This allows two computers to inform each other when they are		of the phone line to stop sending text (Xoff, sent by pressing
	each ready to receive data. Sometimes, perhaps while writing a		Control+S) and when to restart the transmission again (Xon, sent
	file to disk or while you are using a dialogue or menu, a comput-		
	er will temporarily not be able to receive data from the modem,		by pressing Control+Q). This method is not as reliable as using
	so it uses flow control to tell the other end to stop sending for a	100000000000000000000000000000000000000	CTS/RTS flow control, especially with fast modems. See also
	moment. See also CTS/RTS and Xon/Xoff.		flow control.
Haves commands		Ymodem	A file transfer system. Like <b>Xmodem</b> , but capable of sending
nayes commands	which could be controlled by sending a series of special text		additional information such as filenames, sizes, etc.
	which could be controlled by sending a series of special text	Zmodem	A file transfer system, Like Ymodem, but far more intelligent
	commands from your computer - e.g. AT D to dial, AT H to	Ziiioucili	and capable of sending multiple files, checking whether similar
	hang up, AT S= to control internal settings. Previously, all		files already exist, re-starting failed transmissions part way
	modems were controlled by switches on the front panel, but this		through, etc. If possible, use this in preference to Xmodem or
	new system was so elegant and simple that almost every modem		mrough, etc. in possible, use mis in preference to Amodern or
	manufacturer now uses it (although as new features have been		Ymodem.

André Willey presents a glossary of some of the more common terms you're likely to come across in the sometimes confusing world of comms

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# midi and music ❖ emulation ❖ comms ❖ dtp ❖ business ❖ falcon

# Mix and match

here's one handy use for a font editor that often gets little attention, and that's customising your fonts. By customising. I don't mean altering the outlines - you should always avoid editing a well-designed font without very good reason - but rather swapping characters around and perhaps adding new ones imported from other fonts.

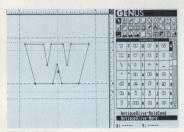
Fonts contain a number of weird and wonderful characters and unless you are dealing with foreign languages or scientific notation, most of them will probably never he used.

#### SYMBOLS

You might (and should always) use the curly quotes (66 and 99) but it's rare indeed to need things like inverted exclamation marks and the æ dipthong.

Sometimes it makes far more sense to remove the squiggles and blobs and replace them with more useful things like bullets, swash characters and even symbols like arrows and ornaments. You could also move some characters around and put them somewhere where they can be accessed quickly and easily from the keyboard.

For example, the wiggly and square brackets to the right of the P key on the ST's keyboard are unlikely to excite anyone. You could edit your fonts so that these become the opening and closing



**Editing fonts using Genus** 

auotes, for example. Another handy trick concerns the

key between the zero and the equals sign on the top row of the keyboard. This normally provides a standard hyphen or an underline when shifted neither of which are particularly useful in DTP except for denoting a negative sum. Why not replace them with the en and em dashes? You can always put the hyphen or minus sign somewhere

else such as in place of the tilde

The advantage of doing things this way is that you'll always use the correct dash without having to remember the special combination of key presses that it normally requires

Another useful character to import is the bullet. Standard fonts provide only one bullet - a black circle - but there are far better.

**Andrew Wright looks at customising** typefaces and has some interesting news on upgrades

more professional looking ones. My own preference is for a hollow square with a drop shadow. On all my body text typefaces, I've replaced the hash sign with this symbol imported from Zapf Dingbats.

If you're feeling really adventurous, you can actually mix and match typefaces for specific design purposes. By mix and match, I mean take two closely related typefaces and swap the capitals of one for those of the other. Thus you end up with a display face where the capitals might be bold and the lower case letters the normal weight. Endless possibilities present them-

selves here but don't get carried away - mixing contrasting typefaces will probably look pretty terrible. Try it with a combination like Gill Sans Bold and Gill Sans Light or two weights of any typeface.

If you don't have two weights of a typeface, editors like Genus can modify the height or width of an entire font with a couple of mouse clicks. Use features like this to create a second, narrower font and then replace the capitals with the original ones.

### Create Display Fonts A New Emphasis

Mixing and matching examples

## Timeworks to get upgrade?

At the time of writing, GST still haven't made a decision about whether or not to upgrade Timeworks Publisher to work with Atari's SpeedoGDOS. According to GST's Simon Jones, the incompatibility problem is due to one or two non-standard methods employed by the Timeworks program to register and handle GDOS fonts.

'We know roughly what the problems are though we haven't actually managed to get it up and running ourselves,"

he said. "The company will be taking a decision as to how to proceed in the near future." Which leads me to suspect that user pressure may well be the key. So if you want to see a version of Timeworks that will work properly with SpeedoGDOS, why not write to

One organisation that has no qualms at all about upgrading is the ST Club. Several DTPbased products have had minor and major upgrades and existing owners can return their master disks together with the right amount of money which varies from £2.50 to £10

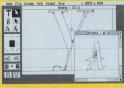
depending upon the product. PageAssistant 2, the online help utility for PageStream, now has a full GEM interface and more information on v2.2, including tips and tricks such as bar coding, leader tabs and suppressing areas from printing CalAssistant (for Calamus 1.09n) has been upgraded too and increased

to 40 pages in length with the addition of sections on frame types, clip boards, macros and special design effects. The budget font editor, Fonty, has been

much improved (to v1.03) with a menu option for the PFB to CFN conversion utility, command line options, batch conversion and more flexibility in the types of PostScript font that can be converted. Characters can also be previewed with full fill and checks for fill errors and open paths at the same time.

Contact the ST Club on 0602 410241 for more details.

Good old Fonty is given the upgrade treatment - sham the name wasn't changed





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Note that all software must be boxed and with the original disks and manuals – and remember to include your telephone number!

- Chaos Engine, £15. Tel: 081-671 9211
   Deluxe Paint £10, Retouche,
- Deluxe Paint £10, Retouche,
   £50. Tel, David: 0582 492090
   Desparately Seeking Alice.
- Wanted: Wonderland. Good price paid. Tel: 0272 741288.

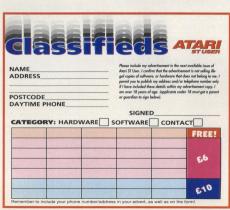
  520STFM upgrade to 1Mb with
- 520STFM upgrade to 1Mb with utilities, £150. Tel: 0702 430752.
- 1040STE plus Philips CM8833 MkII colour monitor, Cumana disk drive. 1st Word v3.2 Data Manager Pro, loads of books, mags and software, £400. Tel 081-890 2397 (after 6pm).
- Artists, musicians. Contact: C. McAllister, 146 Greenend Avenue, Johnstone, Scotland, PA5 OLH
- 210Mb H/Drive ICD ADSCSI plus adaptor, £500. Tel: 0303 244749
- Hi-res monitor £65. Tel, John: 0273 581147.
- Offers for IMG Scanner.

Haywood Milton, 1 Glendyke Road, Liverpool, L18 6JR

- Calamus Guide only £5. N
  Evans, 13 Winton Road,
- Cheltenham, GL51 5AX.

  520STFM with 1Mb upgrade,
  Tower case, two floppies,
  42Mb hard drive Naksha
- 42Mb hard drive, Naksha mouse, lots of software, mags and manuals, £390. Tel: 0635 865723.
- Mega Mono monitor 2nd drive, Scart software, £375. Tel: 0203 398973
- STE contacts wanted: Ben, 14 Castle Road, Bury, Lancs, England.
- Atari ST contacts wanted write to: F Myrland, 3853 Vradal, Norway.
- ST contacts: Desmond Townson, Peacehaven, Love Lane, Bickington, Devon, TQ12 6IT.
- Atari Monitor- Model SM1-24 manufactured January 1990,

- high resolution mono, Atari Mega ST4, STN-I Atari mouse, Atari 1040STFM external diskdrive RF302R, OEM AC adaptor, books and software, Tel: 0954 780442.
- 520STE 4 meg £225 Tel: 0422 359772.
- Mega STE 4Mb RAM 1.44Mb floppy, 52Mb hard drive, external drive, SM144 monitor, Vidi ST, ATOnce, mice, loads of software (business and games). £750, Tel. David: 0761 412851.
- STE 4Mb RAM, £200, 40Mb reference hard disk and clack cartridge, £175, 5M124 mono monitor, £75, Golden Image scanner and touch up software, £65, 14 in SVGA multiscon monitor, perfect for Screen Blaster, £260. Tel: 0242 231691.
- Atari STE 1Mb £700 of software, £250, also seven megadrive games, £275 Tel: 061-627 4791.
- Falcon 65Mb internal drive with 330Mb SCSI hard drive and 14in colour SVGA monitor. Lots of software, £1400.
   Tel. Tony: 081 940 2235.
- Wanted; HP Deskjet single cartridges (unused) for school. Tel: 0522 752458.
- Contcts wanted: 85 Moncrieff Way, Livingstone, Scotland, EH54 8LW.
- PageStream v2.2 unregistered, £85. Tel: 0268 543789(evngs).
- Casio Midi compatible keyboard, boxed as new, £110.Tel: 081-898 1365.
- Ravel Sequencer for ST, £35, boxed, manual. Tel: Larry; 0818841084.
- Supra Modem 2400, £70.Tel: 0268 511337.
- 520STFM 2.5Mb D/S drive, 2nd floppy drive, KXP-1124 printer, SM125 monitor, plus software. £275. Tel, Julian, after ópm w/days and anytime w/ends: 0895 635695.



# midi and music 💠 emulation 💠 comms 💠 dtp 💠 business 💠 falcon

any business who have managed to bust out of the depression have done so by coming up with a new idea. Borrowing money to pay for this kind of boost to your business is cheaper now than it's been for many years.

Don't get me wrong - I am not suggesting you go out and borrow money for the hell of it. Prove your gut reactions and hunches are right hrough detailed market research. put your plan together, then - and only then - go in search of the best way of financing your scheme.

Once you have a plan or scheme to move or extend your business into an area which will give you a good return and generally lift your firm's spirits - and profits! - who do you get to finance it?

First off, check if you qualify for a grant, check out the help lines for local and national agencies in the box above, and don't stop hounding them until you've got a grant, or you're absolutely certain you don't qualify.

Then, if you don't get a grant, or

#### Useful contacts

Business in the Community (for details of all local Enterprise Agencies in UK) 071-253 3716 Scottish Business in the Community (for Enterprise

Trusts in Scotland) 031-334 9876 Small Firms Service (London only) for information

and counselling 0800 222999

Training and Enterprise Councils (for details of local TECs) 0742 294776

Local Enterprise Companies (LECs) 041-248 2700 (ask for Enterprise Company Operations)

**Rural Development Commission 0722 336255** 

Department of Trade and Industry (for information packs and your own regional DTI number) 0800 500200 High street banks: Call you main local branch

by way of a loan, anyway, so I've concentrated on that option here.

The main advantages in a bank loan are that you will know exactly how much you are paying and for how long, and that when the agreement finishes, you will own the equipment.

Loans can either be secured through, say, a life policy or

initial financial advantages of choosing a loan rather than a lease agreement.

Not all leasing agreements are the same. With lease purchase or capital leasing you will own the equipment at the end of your agreement.

With other leasing arrangements, such as an operating lease. You could find yourself paying to get out of one agreement and then starting all over again with another with similar drawbacks

One way round that problem, of course, is to lease or rent from an equipment supplier, cutting out the finance men in the middle

The advantage is that the supplier should know their own equipment and should be able to provide technical and training support within the terms of the agreement.

One snag with leasing for new or relatively new businesses is that you do usually have to prove you have traded successfully for a couple of years or more.

At the end of a lease agreement with some companies, you can pay a tiny percentage (around £20 in every £1,000) to own the

Another option at the end of some leases is continued rental of the same equipment for a "peppercorn" rent. Alternatively, you may YOUR GUIDE TO

HELP FOR

# **Busting out** of the gloom

the amount is only a fraction of the total cost of your equipment, what do you do for the rest? Is the bank still the best bet? If it's mainly new equipment you need - like a high quality laser printer or several brand new, networked Falcons could leasing or renting be the way forward?

Most banks operate services aimed specifically at new and small businesses. Some even offer incentives to small businesses such as free banking for a set period to go along with the finance agreement.

There is no easy answer to the question: "Is is best to go for an overdraft or a loan?" Much depends on the fortunes of the business and fluctuations in interest rates. The rate of interest on an overdraft will be about the same as on a loan with a variable rate.

If you're good at guessing the market, you might save money by going for a fixed interest rate loan but if rates fall substantially, you lose

Most of the high street banks prefer to finance equipment purchases though in the latter case the bank will undoubtedly want to know a little more about you and your

Loans may be slightly less expensive than other options such as leasing, and will certainly be less expensive than hire purchase. But don't forget there will probably be arrangement fees, which in many cases are negotiable.

If your business is in profit, there will be tax advantages, too, in being able to deduct capital allowances from income tax.

But you would be well advised to take out insurance for maintenance cover, and this could eat into the

you will never own it, but there are other advantages. Is your business seen as a safe

enough risk by leasing companies. who may need convincing by two or three years of trading figures?

Do you really need to be able to claim capital allowances as deductible expenses on income tax? You can do it by buying through leasing, but if you're not in profit and so not paying tax do you want to be tied to an agreement which lasts for three years?

If your equipment turns from state-of-the-art to antique during the course of your agreement, how easy is it to upgrade? What if you have to pay up for early closure? The Department of Trade and Industry has lots of encouragement for small businesses, some of it in the most practical form of all - grants!

be able to opt to return the goods to the leasing company or trade in the kit for new equipment and take out a new lease. Don't expect the trade-in value to be very high.

SMALL FIRMS

One firm I spoke to quoted a payment of £529.40 in advance, plus a further 12 quarterly payments of the same amount to lease £5,000 worth of equipment over three years. This gives a grand total of £6,882.20

That's getting on for a couple of thousand more than the cost of equipment. You will would need to invest in a full maintenance and service contract, too, which includes replacement equipment should the original kit go down. This cost can be included in the quarterly payments.

 Next month: The rental option. and how the various methods of financing affect your tax situation

A new product or service requiring investment in more computer equipment could lift you out of the recession. This month and next, Richard Williams looks at ways of financing it

NEXT MONTH

# Next month

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# midi and music ❖ emulation ❖ comms ❖ dtp ❖ business ❖ falcon

hile the Falcon has many more resolutions available than the ST or TT, it didn't take long for enterprising programmers to realise that the modes provided by Atari only just scratched the surface of the Falcon's capabilities

While many are still little more than beta stage patch programs, Compo's Screenblaster is one of the first products to expand the resolution reliably, using a combination of hardware and software to do the job

Screenblaster expands the Falcon's display to a staggering 1,280 by 960 pixels - over three times the size of the normal 640 by 480 maximum in VGA mode. The code was developed by the Master blaster

authors of the hugely successful NVDI screen accelerator, which bodes well for Screenblaster's compatibility.

Installation is simple - the hardware is simply an extra lead that sits between the Falcon and the monitor. There's no need to open the case at all and the software driver is equally simple to install and

It provides extra resolutions for any monitor, including Atari SM124 and SC1224 models, most VGA and Super VGA monitors and multisyncs like the NEC 3D. The only word of caution is that you must check your monitor's capabilities before trying to use some of the higher resolutions.

The main factors involved are the vertical refresh rate and the horizontal frequency and some monitors are more capable than others. Regardless, all SVGA monitors should produce at least 800 by 600 resolution without interlacing.

Testing the Screenblaster on my VGA monitor, 1,152 by 832, provided a steady display with no flickering. If you're into DTP, high resolutions like these make screen displays more accurate and allow you to view more of the page at a given time.

Screenblaster is highly recommended for any Falcon owner and costs £79.99 from Compo on 0480 891819





Pride of place this month has to go to a game that uses the Falcon's high resolution colour capabilities to full effect. The original Nethack was a character - based game played on Unix computers but it has undergone steady development, with input from scores of dedicated players. Version 3.1 is now available for Atari computers - courtesy of Eric Smith, the developer of MINT

The public domain program is GEM-based and should run in several different resolutions but it works best in 16-colour VGA mode or better on the Falcon. It is a massive program running to well over a megabyte (2Mb RAM required) that includes over 850 colour icons representing objects. weapons and monsters, and dozens of levels and rooms to

Basically you choose a character type - similar to and

Dungeons Dragons and enter the dungeon. You are treated to a full colour scrolling map of the dungeon, viewed from above, and you move your character using the keyboard or mouse.

Dozens actions are possible, from picking up objects to fighting, talking, casting

spells and searching for hidden objects. The further you go, the further you advance in terms of levels and the game is remarkably addictive and highly entertaining, Although not in PD libraries' catalogues at the time of writing, it should be available now.



## TOS bug alert

If I were to say there are a few bugs in the Falcon's operating system, I'd be seriously understating the situation, TOS 4.01 is the worst offender but even the next version, 4.02, has a few silly bugs and even 4.04 doesn't get rid of them all.

Some have been with us since STs first appeared - stupidest of all is the scroll bar bug whereby a single click on a GEM window's scroll bar is interpreted as two clicks.

To find that one appearing again in what is, as far as I can tell, the eleventh or twelfth incarnation of the Atari operating system, just defies

Potentially far more serious. though, is a bug in GEMDOS, the Falcon's disk operating system. In certain circumstances when writing to a full partition, the operating system will continue writing over the FAT table and root directory of the immediately following partition, causing it to disappear, along with

all the data in it. It happened to me very soon after I bought my Falcon, luckily with only minimal data loss, but the good news is that there is a fix. The latest version of the Atari hard disk utilities, v5.03C which includes new drivers and formatting utilities, claims to get rid of this bug.

The utilities, which replace those supplied with the Falcon, are available direct from Atari or can be downloaded from one of the online networks like CIX or CompuServe.

You may already have these. if you happen to have recent Falcon stock, but if you have experienced sudden loss of a partition, it's probably time to upgrade.

Weapons Ea - a blessed +1 mace Gweapon in hand - a \*0 chain mail (being worm). - a \*0 small shield (being worm) g - a spellbook of healing. h - a spellbook of magic ni

Nethack in all its glory – a commercial quality game that costs nothing

John Hetherington turns up the Falcon display with Screenblaster and looks

at some interesting new Falcon-only software



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